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

SEMI-VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE D3868221

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q1731

ATTENTION : John Ynfante

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

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Cover Page

Order ID : Q1731

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
Q1731-01	RMW-01B-82-040325
Q1731-02	RMW-04B-91-040325
Q1731-03	RMW-01B-82-040325-FD
Q1731-04	RMW-03B-90-040325
Q1731-05	EB01-040325
Q1731-06	EB01-040325
Q1731-07	TB01-040325

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 : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:14 am, Apr 15, 2025

Date: 4/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

JACOBS Engineering Group, Inc.
Project Name: Former Schlumberger STC PTC Site D3868221
Project # N/A
Chemtech Project # Q1731
Test Name: SVOC-SIMGroup1

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

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Anions Group1, Dissolved ICP-Group2, Dissolved Metals Group3, Metals Group4, SVOC-SIMGroup1, TDS and VOCMS Group3. This data package contains results for SVOC-SIMGroup1.

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for RMW-01B-82-040325 [Terphenyl-d14 - 173%] and RMW-03B-90-040325DL [Terphenyl-d14 - 145%], these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Sample RMW-03B-90-040325 was diluted due to high concentration.

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

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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_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 9:14 am, Apr 15, 2025

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: Q1731 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 RMW-01B-82-040325 [Terphenyl-d14 - 173%] and RMW-03B-90-040325DL [Terphenyl-d14 - 145%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓

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

		NA	NO	YES
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Sample RMW-03B-90-040325 was diluted due to high concentration.

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

REVIEWED
By Sohil Jodhani, QA/QC Director at 9:04 am, Apr 15, 2025

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1731

	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:** 04/12/2025

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LAB CHRONICLE

OrderID:	Q1731	**OrderDate:**	4/4/2025 10:52:00 AM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	**Location:**	L31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1731-01	**RMW-01B-82-040325**	**Water**			**04/03/25**			**04/03/25**
			SVOC-SIMGroup1	8270-Modified		04/04/25	04/04/25	
Q1731-02	**RMW-04B-91-040325**	**Water**			**04/03/25**			**04/03/25**
			SVOC-SIMGroup1	8270-Modified		04/04/25	04/04/25	
Q1731-03	**RMW-01B-82-040325-FD**	**Water**			**04/03/25**			**04/03/25**
			SVOC-SIMGroup1	8270-Modified		04/04/25	04/04/25	
Q1731-04	**RMW-03B-90-040325**	**Water**			**04/03/25**			**04/03/25**
			SVOC-SIMGroup1	8270-Modified		04/04/25	04/04/25	
Q1731-04DL	**RMW-03B-90-040325 DL**	**Water**			**04/03/25**			**04/03/25**
			SVOC-SIMGroup1	8270-Modified		04/04/25	04/07/25	
Q1731-05	**EB01-040325**	**Water**			**04/03/25**			**04/03/25**
			SVOC-SIMGroup1	8270-Modified		04/04/25	04/04/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1731

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : RMW-01B-82-040325								
Q1731-01	RMW-01B-82-040325	WATER	1,4-Dioxane	0.390		0.07	0.2	ug/L
			Total Svoc :			**0.39**		
			Total Concentration:			**0.39**		
Client ID : RMW-04B-91-040325								
Q1731-02	RMW-04B-91-040325	WATER	1,4-Dioxane	0.290		0.07	0.2	ug/L
			Total Svoc :			**0.29**		
			Total Concentration:			**0.29**		
Client ID : RMW-01B-82-040325-FD								
Q1731-03	RMW-01B-82-040325-FI	WATER	1,4-Dioxane	0.430		0.07	0.2	ug/L
			Total Svoc :			**0.43**		
			Total Concentration:			**0.43**		
Client ID : RMW-03B-90-040325								
Q1731-04	RMW-03B-90-040325	WATER	1,4-Dioxane	7.500	E	0.07	0.2	ug/L
			Total Svoc :			**7.50**		
			Total Concentration:			**7.50**		
Client ID : RMW-03B-90-040325DL								
Q1731-04DL	RMW-03B-90-040325DL	WATER	1,4-Dioxane	9.500	D	0.35	1	ug/L
			Total Svoc :			**9.50**		
			Total Concentration:			**9.50**		

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1731

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167468BL	PB167468BL	2-Methylnaphthalene-d10	0.4	0.35	88		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.44	109		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.32	80		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.29	72		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.37	91		30 (54)	130 (175)
PB167468BS	PB167468BS	2-Methylnaphthalene-d10	0.4	0.40	99		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.40	99		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	88		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.38	95		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.37	91		30 (54)	130 (175)
PB167468BSD	PB167468BSD	2-Methylnaphthalene-d10	0.4	0.40	99		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.40	100		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	87		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.37	92		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.36	90		30 (54)	130 (175)
Q1731-01	RMW-01B-82-040325	2-Methylnaphthalene-d10	0.4	0.37	93		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.50	125		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.34	85		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.40	100		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.69	173	*	30 (54)	130 (175)
Q1731-02	RMW-04B-91-040325	2-Methylnaphthalene-d10	0.4	0.35	87		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.48	119		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.31	78		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.37	93		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.47	117		30 (54)	130 (175)
Q1731-03	RMW-01B-82-040325-FD	2-Methylnaphthalene-d10	0.4	0.37	93		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.50	126		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	88		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.38	94		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.49	122		30 (54)	130 (175)
Q1731-04	RMW-03B-90-040325	2-Methylnaphthalene-d10	0.4	0.40	100		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.51	126		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.33	83		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.43	108		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.49	122		30 (54)	130 (175)
Q1731-04DL	RMW-03B-90-040325DL	2-Methylnaphthalene-d10	0.4	0.47	117		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.60	149		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.44	109		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.41	101		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.58	145	*	30 (54)	130 (175)
Q1731-05	EB01-040325	2-Methylnaphthalene-d10	0.4	0.40	100		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.51	128		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.35	88		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.41	103		30 (25)	130 (149)
		Terphenyl-d14	0.4	0.48	120		30 (54)	130 (175)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1731

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036844.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167468BS	1,4-Dioxane	0.4	0.38	ug/L	95				20 (42)	160 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1731

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036845.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167468BSD	1,4-Dioxane	0.4	0.37	ug/L	93	3			20 (42)	160 (127)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167468BL

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1731 SAS No.: Q1731 SDG NO.: Q1731

Lab File ID: BN036848.D Lab Sample ID: PB167468BL

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

Matrix: (soil/water) Water Date Analyzed: 04/07/2025

Level: (low/med) LOW Time Analyzed: 09:46

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167468BS	PB167468BS	BN036844.D	04/04/2025
PB167468BSD	PB167468BSD	BN036845.D	04/04/2025
RMW-01B-82-040325	Q1731-01	BN036839.D	04/04/2025
RMW-04B-91-040325	Q1731-02	BN036840.D	04/04/2025
RMW-01B-82-040325-FD	Q1731-03	BN036841.D	04/04/2025
RMW-03B-90-040325	Q1731-04	BN036842.D	04/04/2025
EB01-040325	Q1731-05	BN036843.D	04/04/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: Q1731 SDG NO.: Q1731

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

Instrument ID: BNA_N DFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.3
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	24.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036557.D	03/10/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036558.D	03/10/2025	12:18
SSTDICCC0.4	SSTDICCC0.4	BN036559.D	03/10/2025	12:54
SSTDICC0.8	SSTDICC0.8	BN036560.D	03/10/2025	13:31
SSTDICC1.6	SSTDICC1.6	BN036561.D	03/10/2025	14:07
SSTDICC3.2	SSTDICC3.2	BN036562.D	03/10/2025	14:43
SSTDICC5.0	SSTDICC5.0	BN036563.D	03/10/2025	15:19

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: Q1731 SDG NO.: Q1731

Lab File ID: BN036836.D DFTPP Injection Date: 04/04/2025

Instrument ID: BNA_N DFTPP Injection Time: 13:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	61.1
68	Less than 2.0% of mass 69	0.4 (0.8) 1
69	Mass 69 relative abundance	53.1
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	51.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.1
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	9.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036837.D	04/04/2025	13:42
RMW-01B-82-040325	Q1731-01	BN036839.D	04/04/2025	17:22
RMW-04B-91-040325	Q1731-02	BN036840.D	04/04/2025	17:58
RMW-01B-82-040325-FD	Q1731-03	BN036841.D	04/04/2025	18:34
RMW-03B-90-040325	Q1731-04	BN036842.D	04/04/2025	19:10
EB01-040325	Q1731-05	BN036843.D	04/04/2025	19:46
PB167468BS	PB167468BS	BN036844.D	04/04/2025	20:22
PB167468BSD	PB167468BSD	BN036845.D	04/04/2025	20:58

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: Q1731 SDG NO.: Q1731

Lab File ID: BN036846.D DFTPP Injection Date: 04/07/2025

Instrument ID: BNA_N DFTPP Injection Time: 08:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	64.1
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	54
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	51.4
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	23.9
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.4 (18.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036847.D	04/07/2025	09:10
PB167468BL	PB167468BL	BN036848.D	04/07/2025	09:46
RMW-03B-90-040325DL	Q1731-04DL	BN036849.D	04/07/2025	10:22

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1731 SAS No.: Q1731 SDG NO.: Q1731

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

Lab File ID: BN036837.D Time Analyzed: 13:42

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	2261	7.688	5761	10.48	3391	14.33
	UPPER LIMIT	4522	8.188	11522	10.977	6782	14.834
	LOWER LIMIT	1130.5	7.188	2880.5	9.977	1695.5	13.834
	EPA SAMPLE NO.						
01	RMW-01B-82-040325	1599	7.70	3869	10.48	2334	14.33
02	PB167468BS	1969	7.70	4826	10.48	2640	14.33
03	RMW-04B-91-040325	1693	7.70	4270	10.48	2557	14.33
04	PB167468BSD	1816	7.70	4421	10.48	2443	14.33
05	RMW-01B-82-040325-FD	1722	7.70	4117	10.49	2520	14.33
06	RMW-03B-90-040325	1670	7.70	4185	10.48	2430	14.33
07	EB01-040325	1624	7.70	4101	10.48	2430	14.33

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1731 SAS No.: Q1731 SDG NO.: Q1731

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

Lab File ID: BN036837.D Time Analyzed: 13:42

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	7218	17.074	6202	21.268	5846	23.511
	UPPER LIMIT	14436	17.574	12404	21.768	11692	24.011
	LOWER LIMIT	3609	16.574	3101	20.768	2923	23.011
	EPA SAMPLE NO.						
01	RMW-01B-82-040325	4949	17.09	4533	21.27	4219	23.51
02	PB167468BS	5356	17.07	4128	21.27	3662	23.51
03	RMW-04B-91-040325	5530	17.07	4895	21.27	4713	23.51
04	PB167468BSD	5048	17.07	4039	21.27	3561	23.51
05	RMW-01B-82-040325-FD	5203	17.09	4655	21.27	4312	23.51
06	RMW-03B-90-040325	5085	17.09	4539	21.27	4155	23.51
07	EB01-040325	5123	17.07	4847	21.27	4314	23.51

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1731 SAS No.: Q1731 SDG NO.: Q1731

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/07/2025

Lab File ID: BN036847.D Time Analyzed: 09:10

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	1549	7.688	3923	10.48	2335	14.33
	UPPER LIMIT	3098	8.188	7846	10.977	4670	14.834
	LOWER LIMIT	774.5	7.188	1961.5	9.977	1167.5	13.834
	EPA SAMPLE NO.						
01	PB167468BL	1482	7.70	3397	10.49	1996	14.35
02	RMW-03B-90-040325DL	1423	7.70	3367	10.49	2092	14.33

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1731 SAS No.: Q1731 SDG NO.: Q1731

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/07/2025

Lab File ID: BN036847.D Time Analyzed: 09:10

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	5079	17.074	4233	21.277	3968	23.516
	UPPER LIMIT	10158	17.574	8466	21.777	7936	24.016
	LOWER LIMIT	2539.5	16.574	2116.5	20.777	1984	23.016
	EPA SAMPLE NO.						
01	PB167468BL	4124	17.10	3561	21.28	3343	23.52
02	RMW-03B-90-040325DL	4259	17.09	3832	21.28	3500	23.52

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

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

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

SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/03/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/03/25
Client Sample ID:	RMW-01B-82-040325	SDG No.:	Q1731
Lab Sample ID:	Q1731-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036839.D	1	04/04/25 11:35	04/04/25 17:22	PB167468

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.39		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.37		30 (20) - 150 (139)	93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.50		30 (30) - 150 (150)	125%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		30 (27) - 130 (154)	85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		30 (25) - 130 (149)	100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.69	*	30 (54) - 130 (175)	173%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1600	7.695			
1146-65-2	Naphthalene-d8	3870	10.477			
15067-26-2	Acenaphthene-d10	2330	14.334			
1517-22-2	Phenanthrene-d10	4950	17.086			
1719-03-5	Chrysene-d12	4530	21.268			
1520-96-3	Perylene-d12	4220	23.513			

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\BN040425\
Data File : BN036839.D
Acq On : 04 Apr 2025 17:22
Operator : RC/JU
Sample : Q1731-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Quant Time: Apr 04 17:44:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

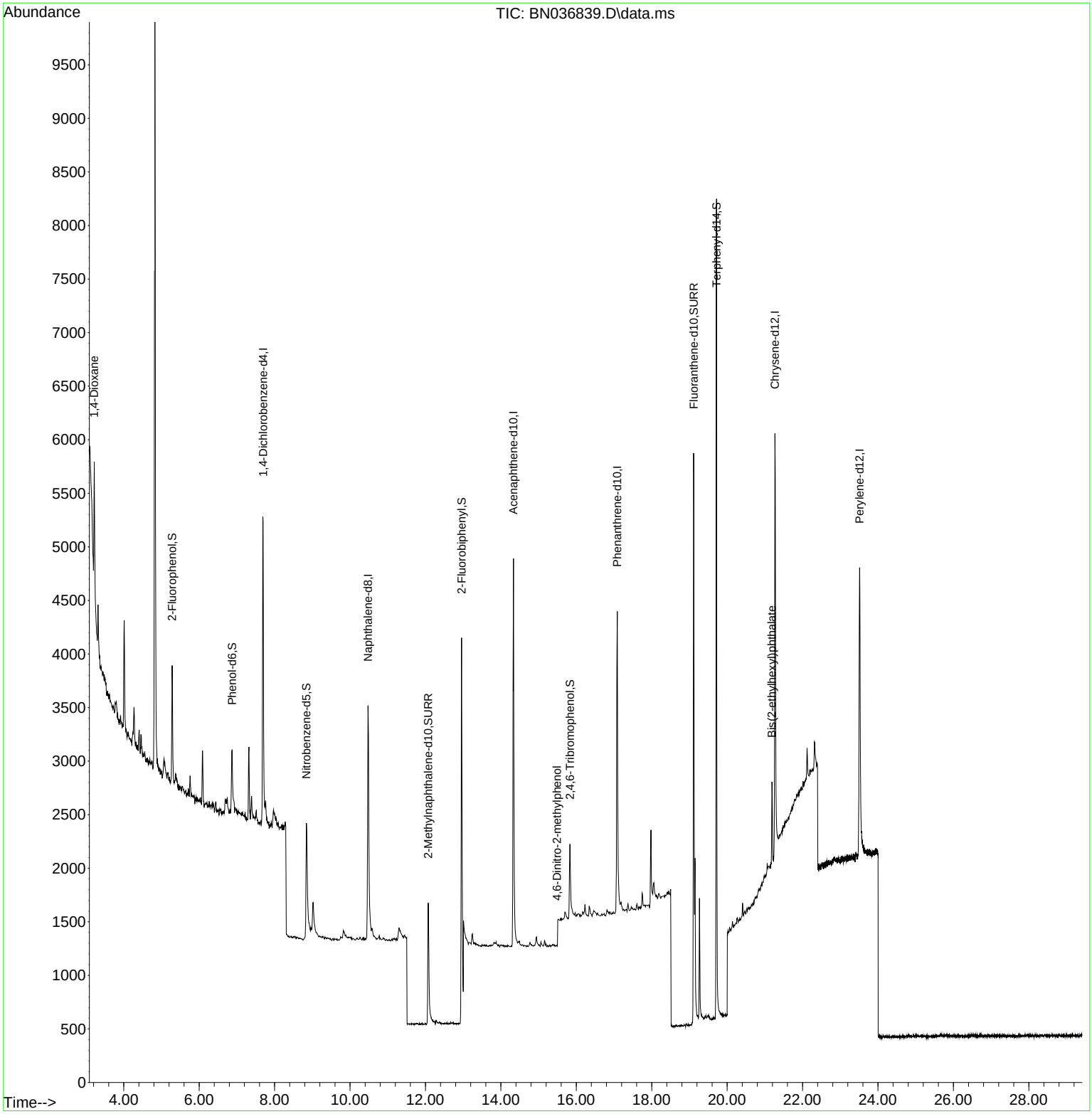
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1599	0.400	ng	0.00
7) Naphthalene-d8	10.477	136	3869	0.400	ng	0.00
13) Acenaphthene-d10	14.334	164	2334	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4949	0.400	ng	0.01
29) Chrysene-d12	21.268	240	4533	0.400	ng	0.00
35) Perylene-d12	23.513	264	4219	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	823	0.221	ng	0.00
5) Phenol-d6	6.872	99	728	0.158	ng	0.00
8) Nitrobenzene-d5	8.843	82	1425	0.339	ng	0.00
11) 2-Methylnaphthalene-d10	12.075	152	2127	0.370	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	491	0.464	ng	0.00
15) 2-Fluorobiphenyl	12.958	172	5425	0.400	ng	0.00
27) Fluoranthene-d10	19.113	212	6327	0.499	ng	0.00
31) Terphenyl-d14	19.717	244	7494	0.690	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	671	0.378	ng	# 54
20) 4,6-Dinitro-2-methylph...	15.489	198	1	0.146	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.187	149	831	0.074	ng	# 98

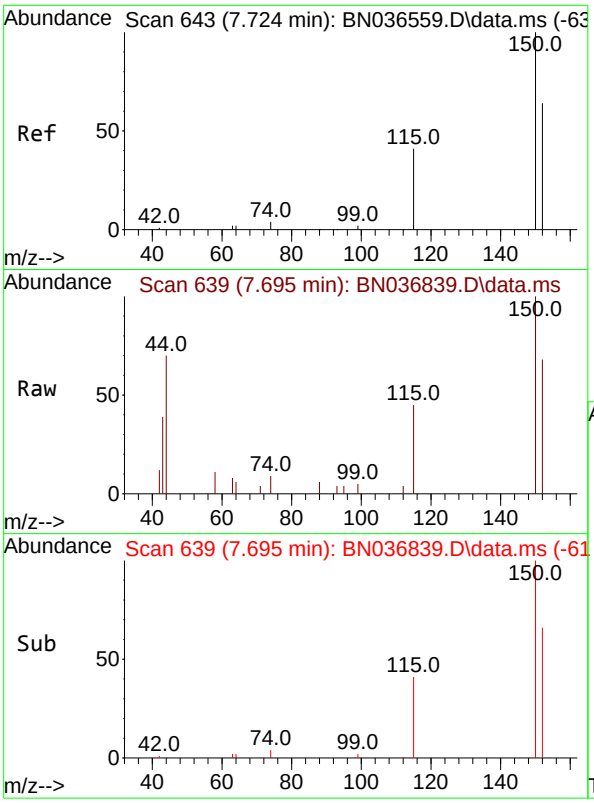
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036839.D
Acq On : 04 Apr 2025 17:22
Operator : RC/JU
Sample : Q1731-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Quant Time: Apr 04 17:44:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration



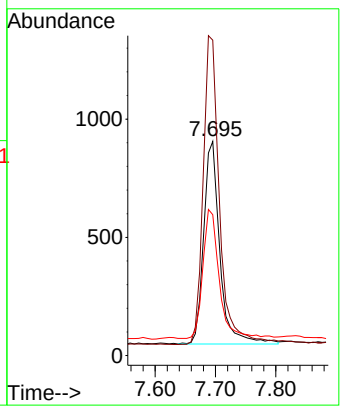


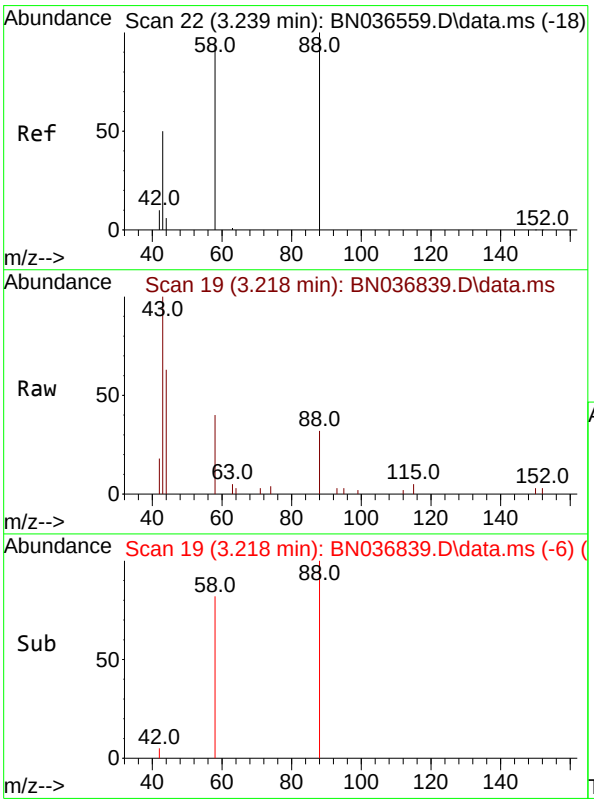
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Tgt Ion:152 Resp: 1599

Ion	Ratio	Lower	Upper
152	100		
150	147.2	123.7	185.5
115	65.8	54.3	81.5

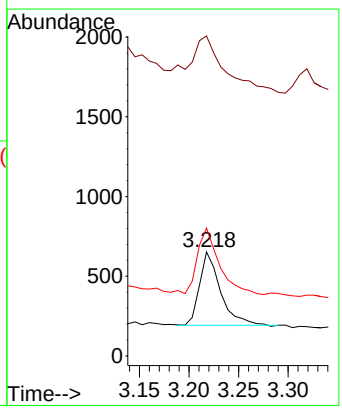


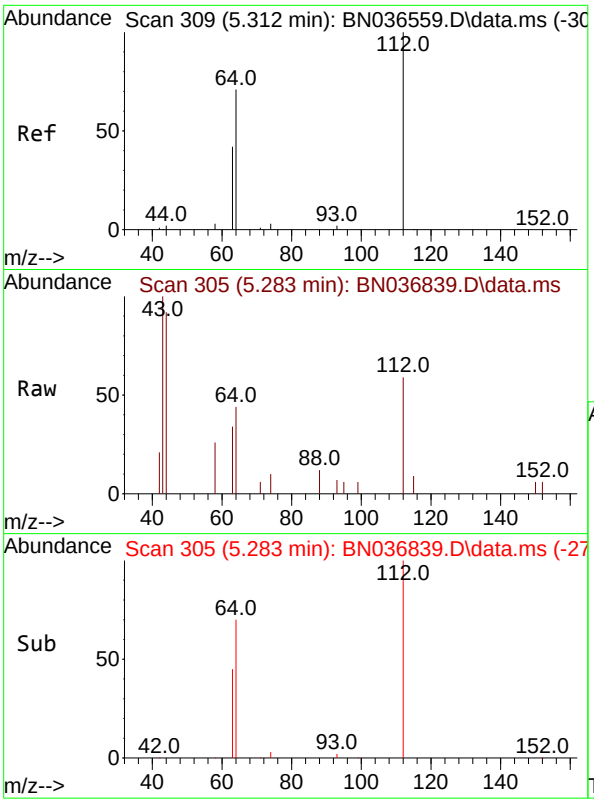


#2
1,4-Dioxane
Concen: 0.378 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.007 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Tgt Ion: 88 Resp: 671

Ion	Ratio	Lower	Upper
88	100		
43	115.8	37.8	56.8#
58	97.0	67.4	101.2



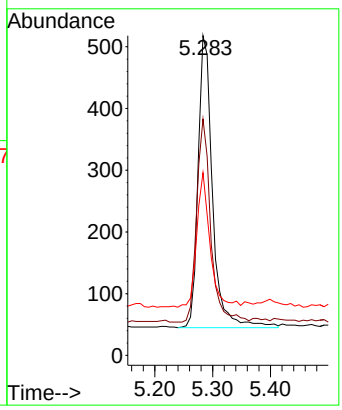


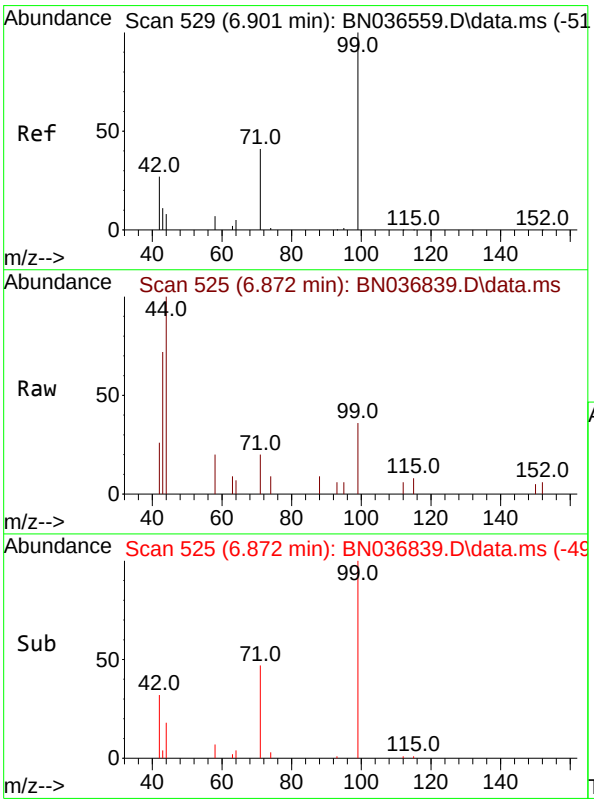
#4
2-Fluorophenol
Concen: 0.221 ng
RT: 5.283 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Tgt Ion:112 Resp: 823

Ion	Ratio	Lower	Upper
112	100		
64	67.3	53.1	79.7
63	42.4	31.8	47.8

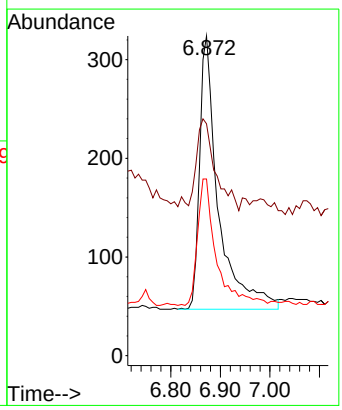


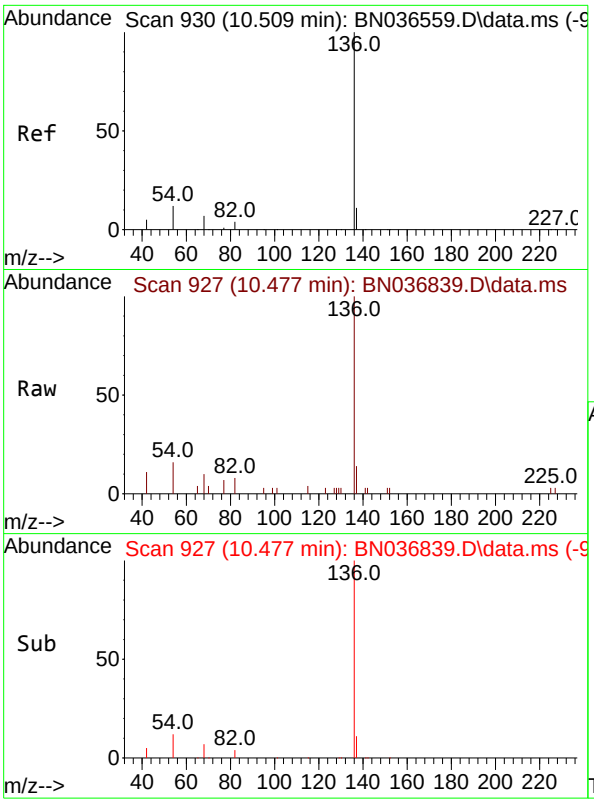


#5
Phenol-d6
Concen: 0.158 ng
RT: 6.872 min Scan# 525
Delta R.T. 0.007 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Tgt Ion: 99 Resp: 728

Ion	Ratio	Lower	Upper
99	100		
42	33.7	26.5	39.7
71	46.0	34.1	51.1



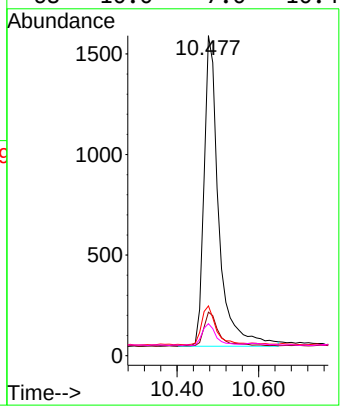


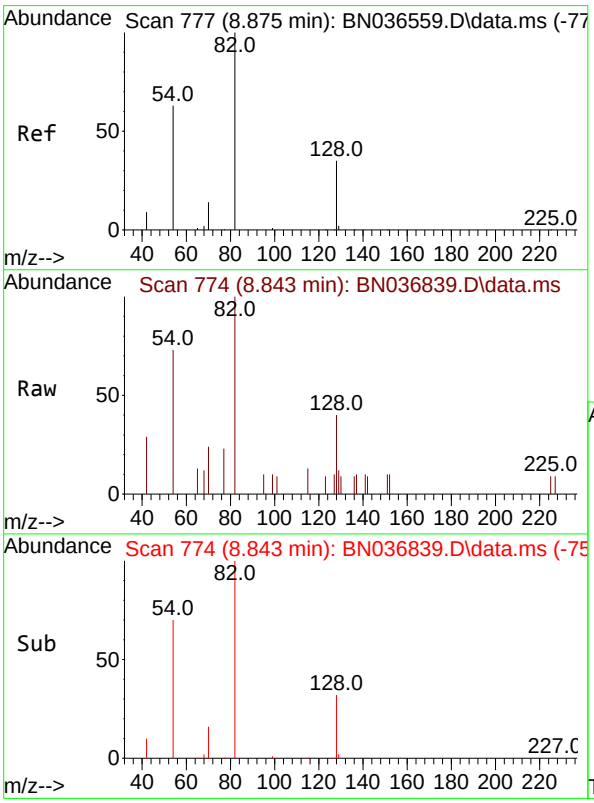
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Tgt Ion:136 Resp: 3869

Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.3	15.5
54	15.5	11.5	17.3
68	10.0	7.0	10.4

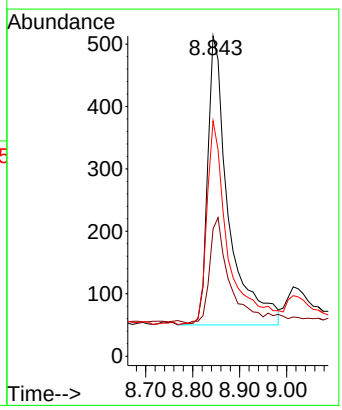


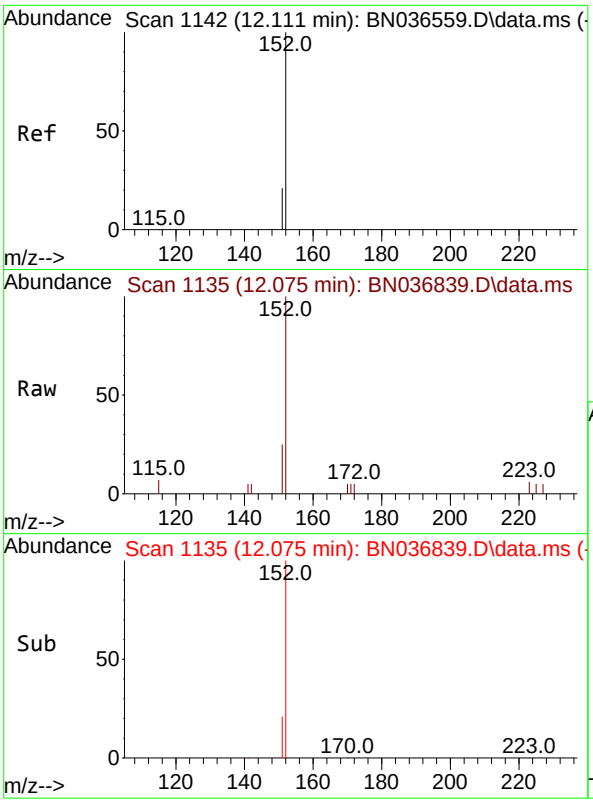


#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Tgt Ion: 82 Resp: 1425

Ion	Ratio	Lower	Upper
82	100		
128	39.8	30.6	45.8
54	73.5	52.2	78.4



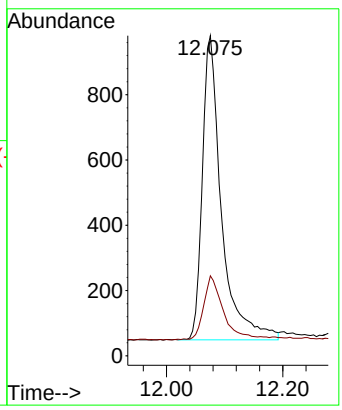


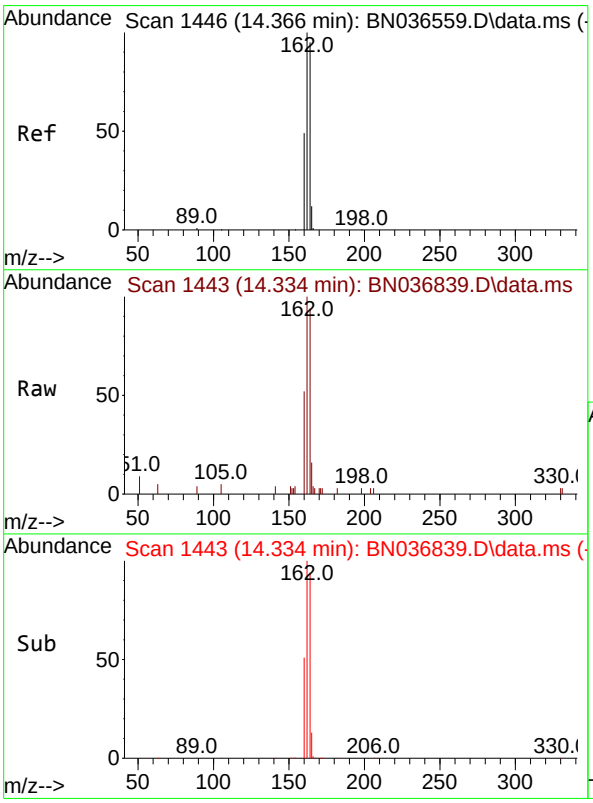
#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.075 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Tgt Ion:152 Resp: 2127

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

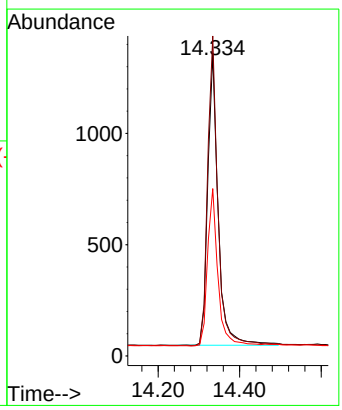


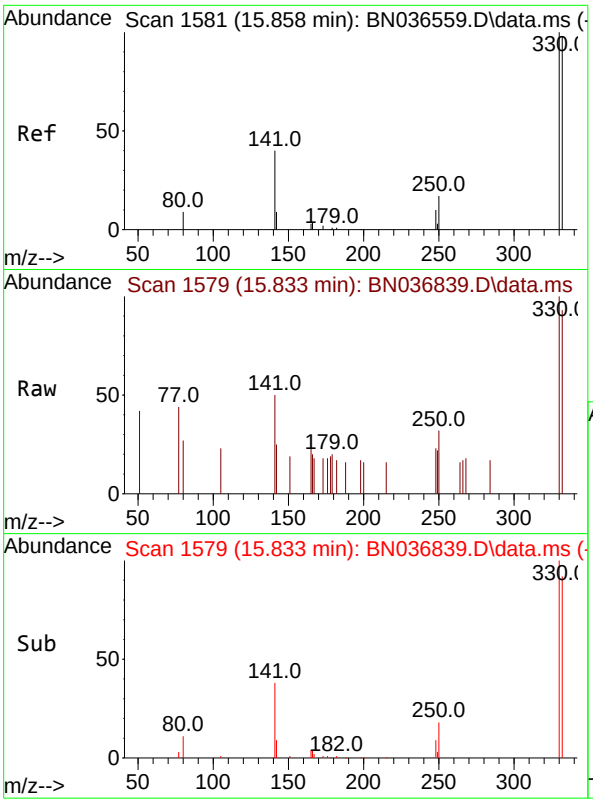


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Tgt Ion:164 Resp: 2334

Ion	Ratio	Lower	Upper
164	100		
162	106.0	84.2	126.2
160	55.5	42.2	63.2



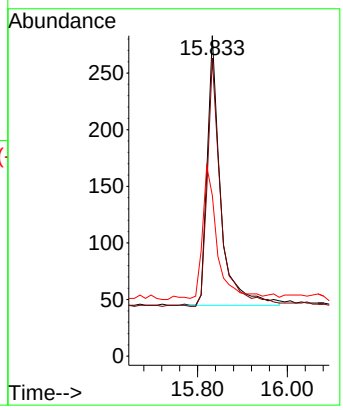


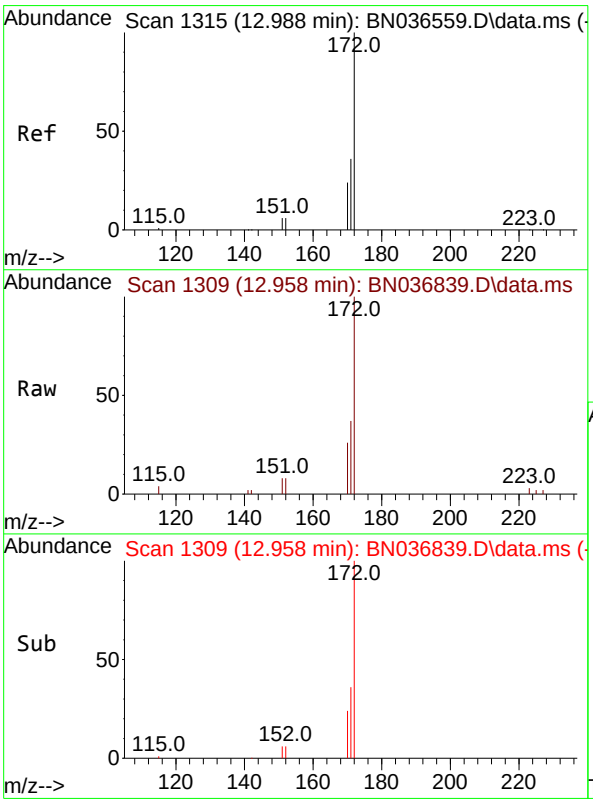
#14
2,4,6-Tribromophenol
Concen: 0.464 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Tgt Ion:330 Resp: 491

Ion	Ratio	Lower	Upper
330	100		
332	94.5	75.2	112.8
141	52.5	43.4	65.2

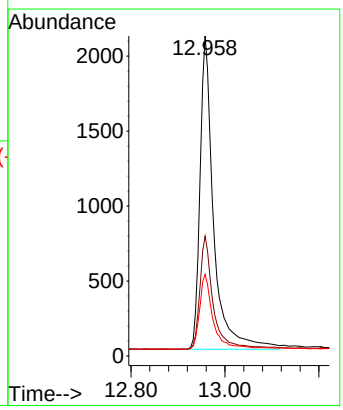


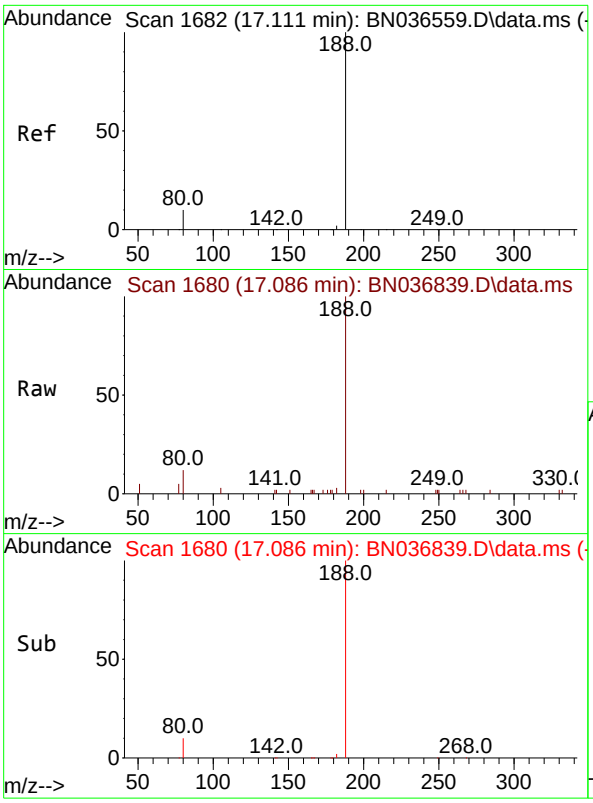


#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 12.958 min Scan# 1309
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Tgt Ion:172 Resp: 5425

Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.5	20.2	30.4



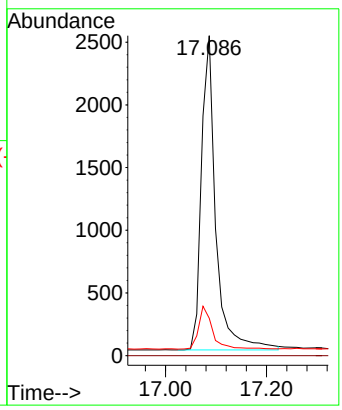


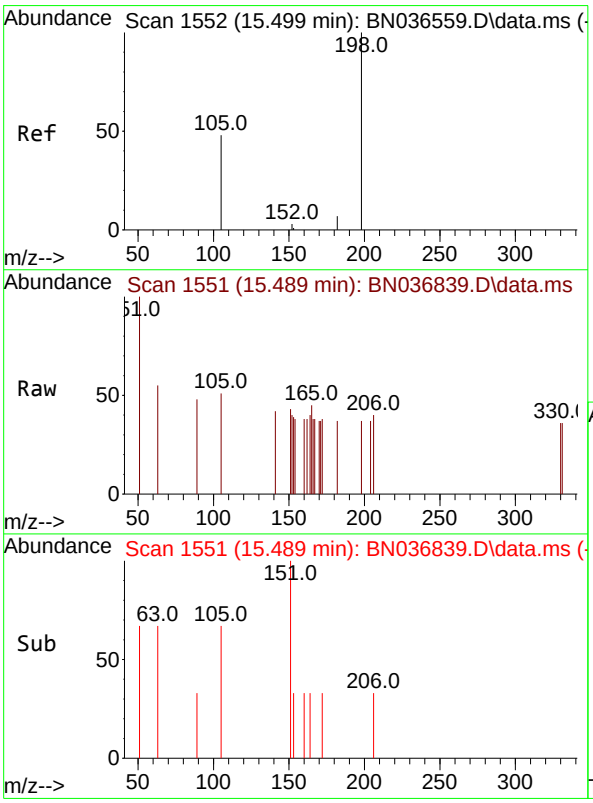
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Tgt Ion:188 Resp: 4949

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.7	8.8	13.2

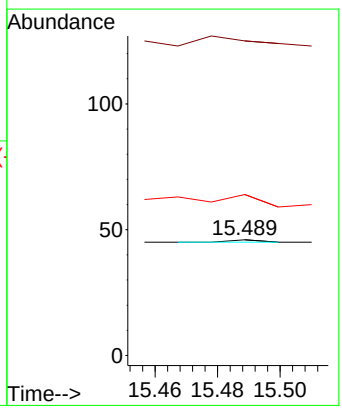


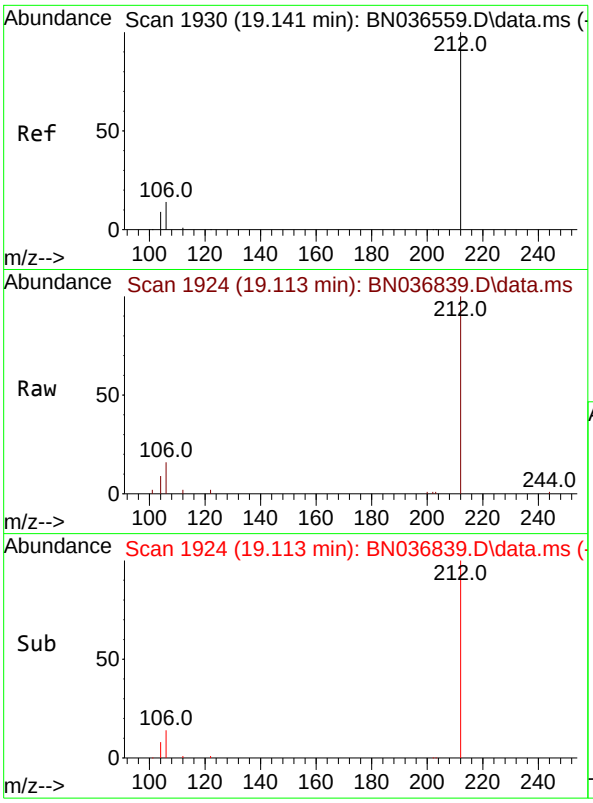


#20
4,6-Dinitro-2-methylphenol
Concen: 0.146 ng
RT: 15.489 min Scan# 1551
Delta R.T. 0.011 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Tgt Ion:198 Resp: 1

Ion	Ratio	Lower	Upper
198	100		
51	271.7	107.9	161.9#
105	139.1	56.2	84.2#



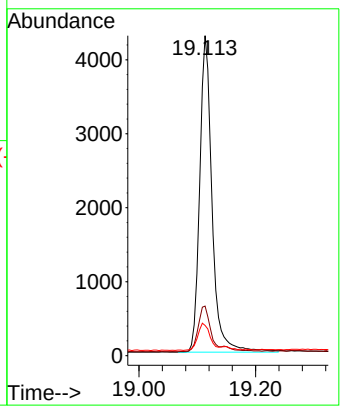


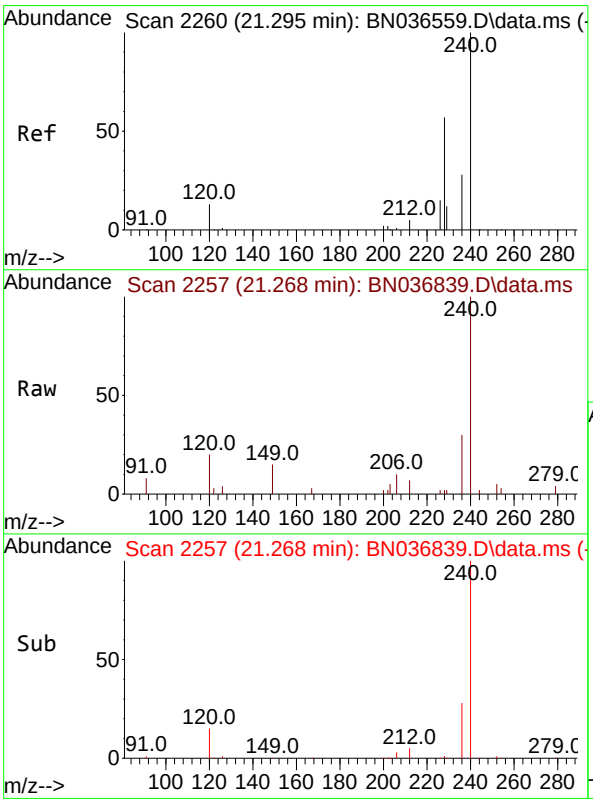
#27
Fluoranthene-d10
Concen: 0.499 ng
RT: 19.113 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Tgt Ion:212 Resp: 6327

Ion	Ratio	Lower	Upper
212	100		
106	16.1	11.8	17.6
104	8.3	7.3	10.9

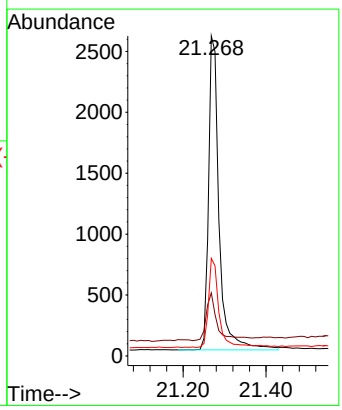


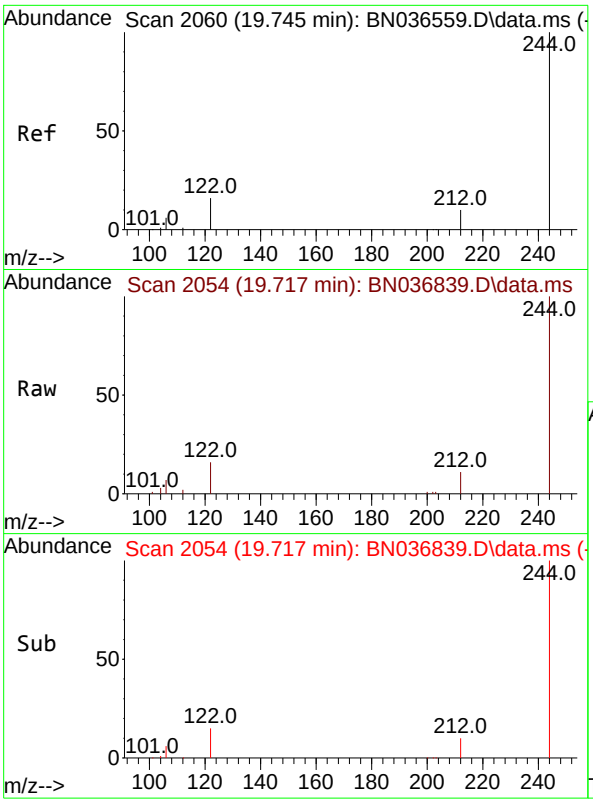


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Tgt Ion:240 Resp: 4533

Ion	Ratio	Lower	Upper
240	100		
120	19.7	14.6	22.0
236	30.5	24.1	36.1



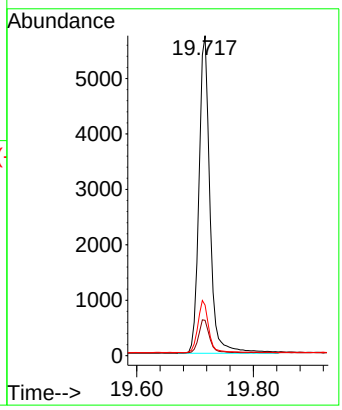


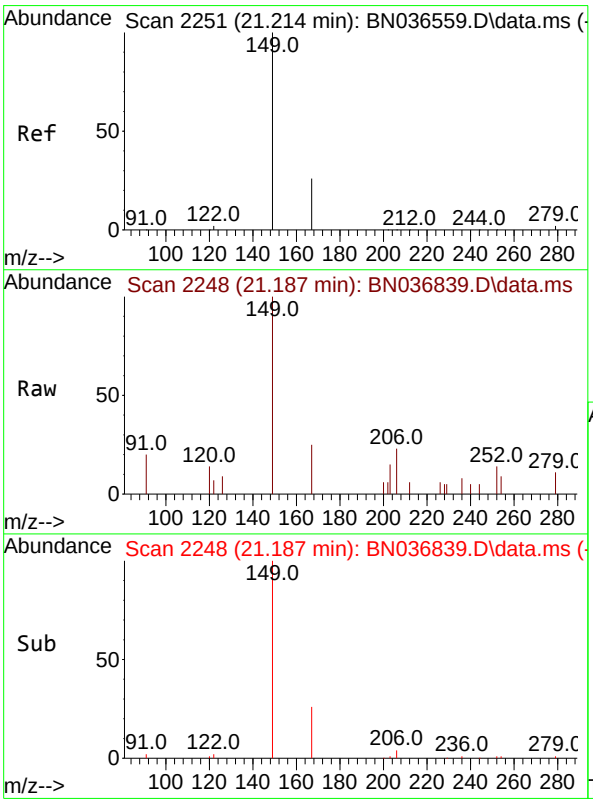
#31
Terphenyl-d14
Concen: 0.690 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Tgt Ion:244 Resp: 7494

Ion	Ratio	Lower	Upper
244	100		
212	11.1	9.6	14.4
122	15.8	13.9	20.9

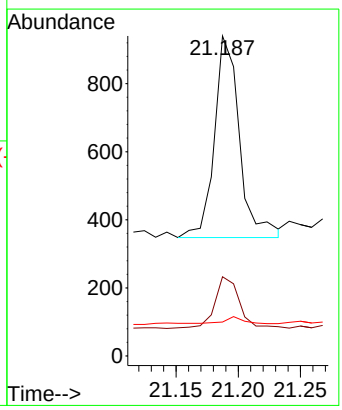


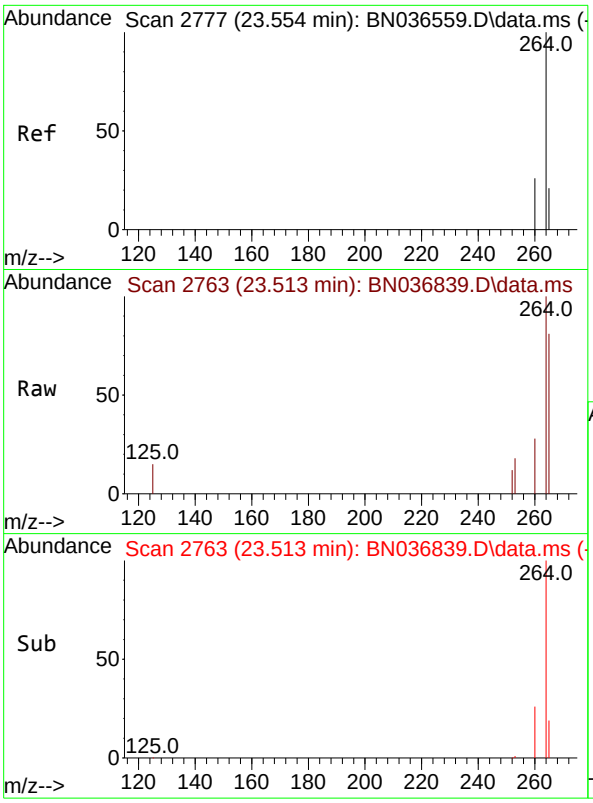


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.074 ng
RT: 21.187 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Tgt Ion:149 Resp: 831

Ion	Ratio	Lower	Upper
149	100		
167	25.3	20.7	31.1
279	2.4	3.6	5.4#



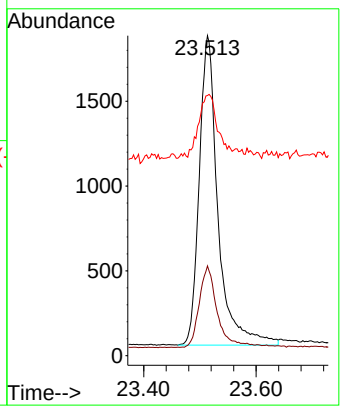


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036839.D
Acq: 04 Apr 2025 17:22

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325

Tgt Ion:264 Resp: 4219

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.6	33.8
265	81.3	88.1	132.1#



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/03/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/03/25
Client Sample ID:	RMW-04B-91-040325	SDG No.:	Q1731
Lab Sample ID:	Q1731-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036840.D	1	04/04/25 11:35	04/04/25 17:58	PB167468

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.29		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		30 (20) - 150 (139)	87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.48		30 (30) - 150 (150)	119%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		30 (27) - 130 (154)	78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		30 (25) - 130 (149)	93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		30 (54) - 130 (175)	117%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1690	7.696			
1146-65-2	Naphthalene-d8	4270	10.477			
15067-26-2	Acenaphthene-d10	2560	14.334			
1517-22-2	Phenanthrene-d10	5530	17.074			
1719-03-5	Chrysene-d12	4900	21.268			
1520-96-3	Perylene-d12	4710	23.508			

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\BN040425\
Data File : BN036840.D
Acq On : 04 Apr 2025 17:58
Operator : RC/JU
Sample : Q1731-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Quant Time: Apr 04 18:23:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

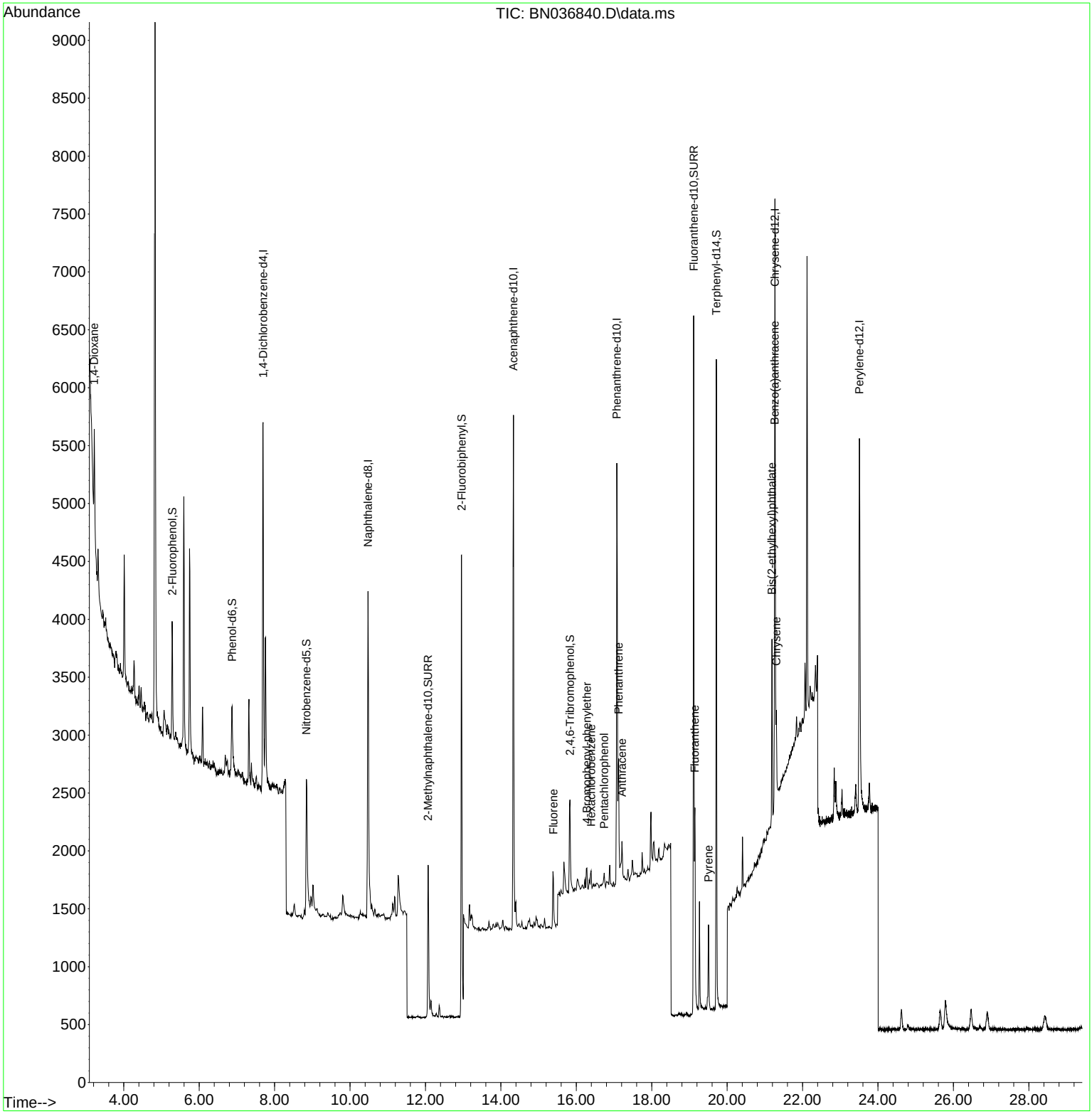
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1693	0.400	ng	0.00
7) Naphthalene-d8	10.477	136	4270	0.400	ng	0.00
13) Acenaphthene-d10	14.334	164	2557	0.400	ng	0.00
19) Phenanthrene-d10	17.074	188	5530	0.400	ng	# 0.00
29) Chrysene-d12	21.268	240	4895	0.400	ng	0.00
35) Perylene-d12	23.508	264	4713	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	739	0.187	ng	0.00
5) Phenol-d6	6.872	99	704	0.144	ng	0.00
8) Nitrobenzene-d5	8.843	82	1455	0.313	ng	0.00
11) 2-Methylnaphthalene-d10	12.070	152	2214	0.349	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	536	0.462	ng	0.00
15) 2-Fluorobiphenyl	12.958	172	5497	0.370	ng	0.00
27) Fluoranthene-d10	19.113	212	6769	0.478	ng	0.00
31) Terphenyl-d14	19.712	244	5514	0.470	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	541	0.288	ng	# 27
18) Fluorene	15.393	166	231	0.022	ng	# 88
21) 4-Bromophenyl-phenylether	16.280	248	84	0.024	ng	91
22) Hexachlorobenzene	16.391	284	126	0.030	ng	92
24) Pentachlorophenol	16.739	266	77	0.040	ng	91
25) Phenanthrene	17.124	178	1209	0.073	ng	98
26) Anthracene	17.211	178	423	0.028	ng	98
28) Fluoranthene	19.141	202	856	0.046	ng	# 55
30) Pyrene	19.508	202	677	0.028	ng	# 94
32) Benzo(a)anthracene	21.259	228	378	0.022	ng	# 73
33) Chrysene	21.304	228	501	0.027	ng	# 77
34) Bis(2-ethylhexyl)phtha...	21.187	149	1446	0.119	ng	# 98

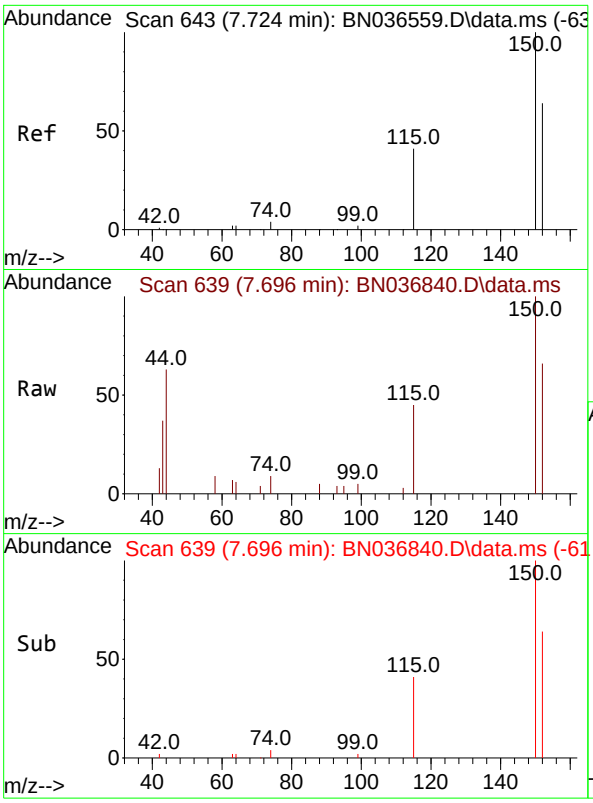
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036840.D
Acq On : 04 Apr 2025 17:58
Operator : RC/JU
Sample : Q1731-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Quant Time: Apr 04 18:23:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration



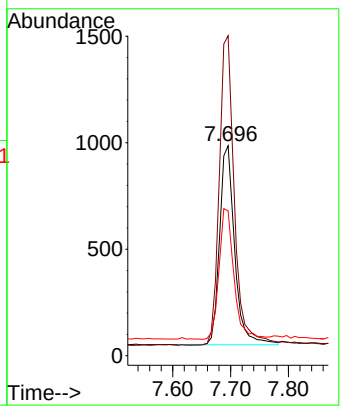


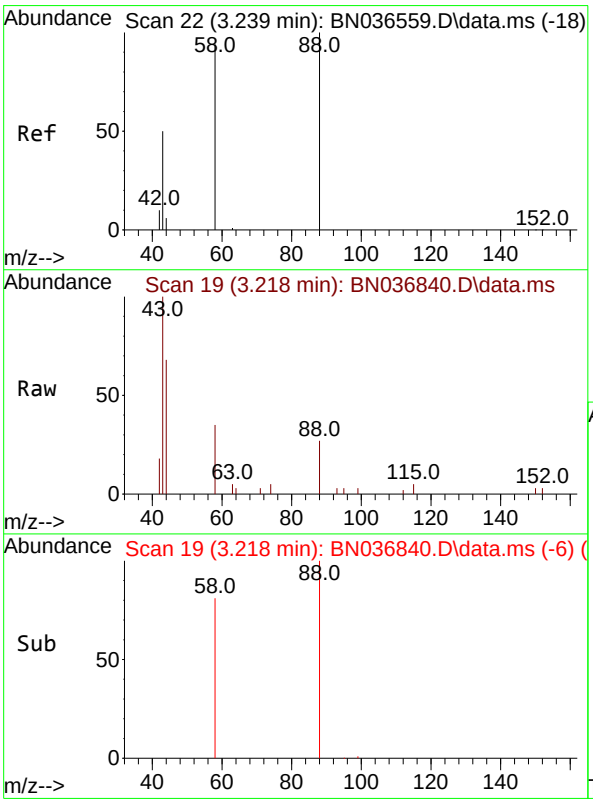
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. 0.008 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:152 Resp: 1693

Ion	Ratio	Lower	Upper
152	100		
150	152.4	123.7	185.5
115	69.0	54.3	81.5

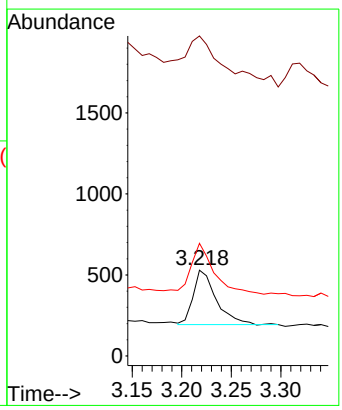


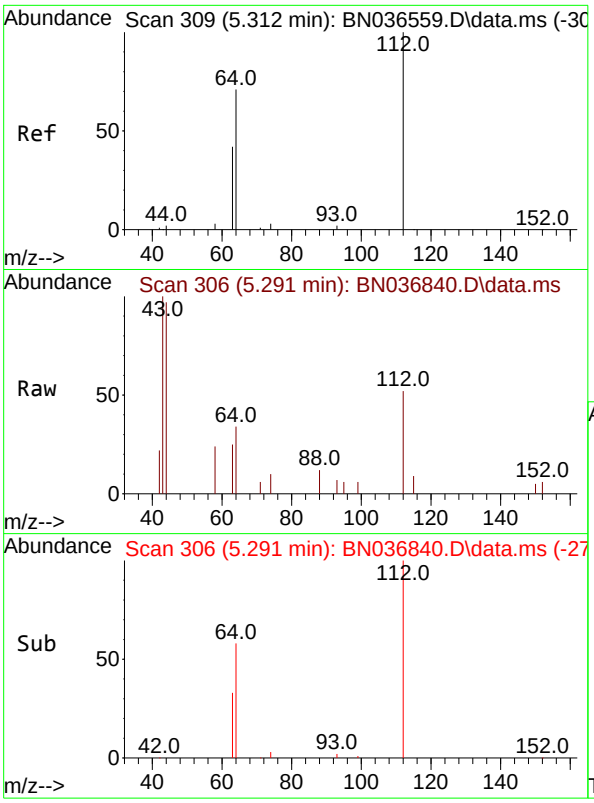


#2
1,4-Dioxane
Concen: 0.288 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.007 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion: 88 Resp: 541

Ion	Ratio	Lower	Upper
88	100		
43	166.7	37.8	56.8#
58	96.9	67.4	101.2



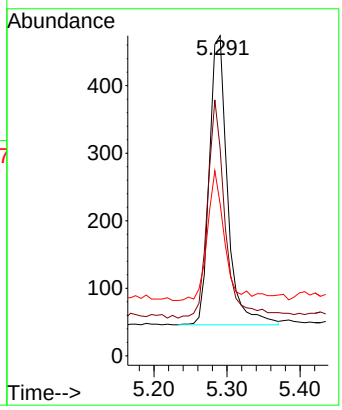


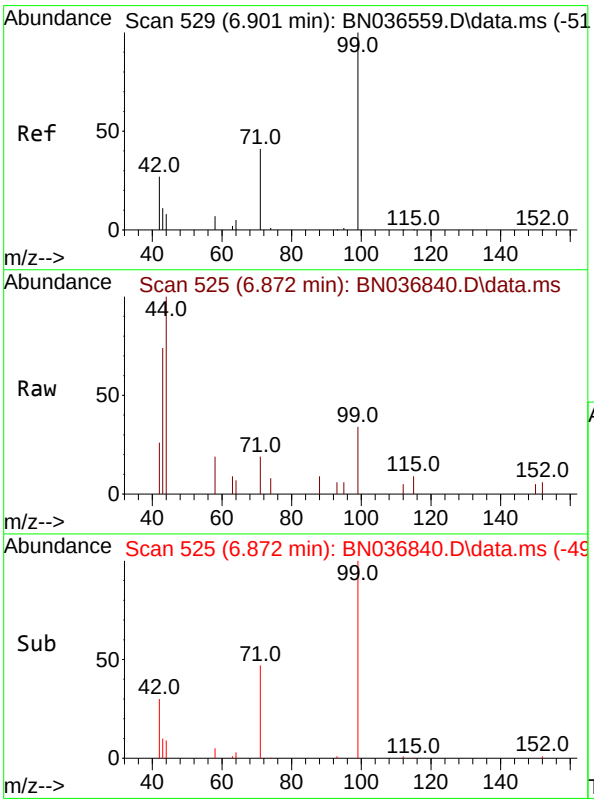
#4
2-Fluorophenol
Concen: 0.187 ng
RT: 5.291 min Scan# 3
Delta R.T. 0.007 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:112 Resp: 739

Ion	Ratio	Lower	Upper
112	100		
64	74.3	53.1	79.7
63	44.4	31.8	47.8

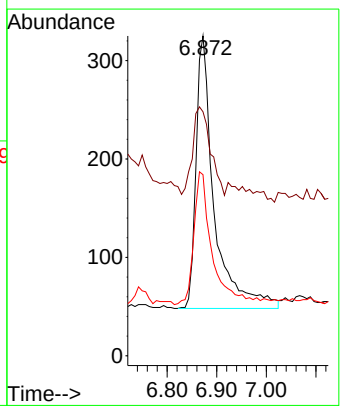


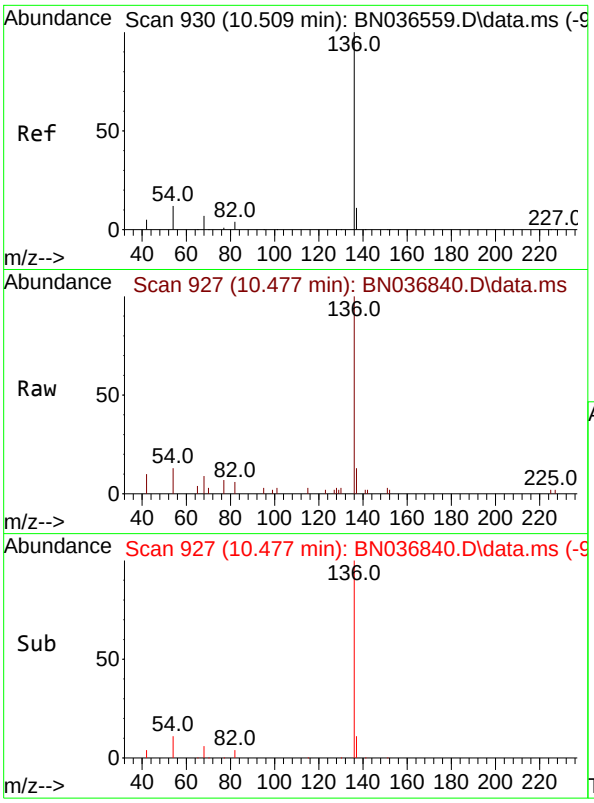


#5
Phenol-d6
Concen: 0.144 ng
RT: 6.872 min Scan# 525
Delta R.T. 0.007 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion: 99 Resp: 704

Ion	Ratio	Lower	Upper
99	100		
42	31.5	26.5	39.7
71	49.9	34.1	51.1



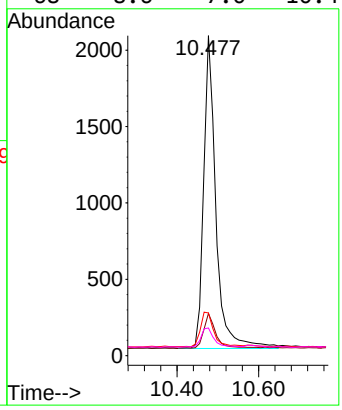


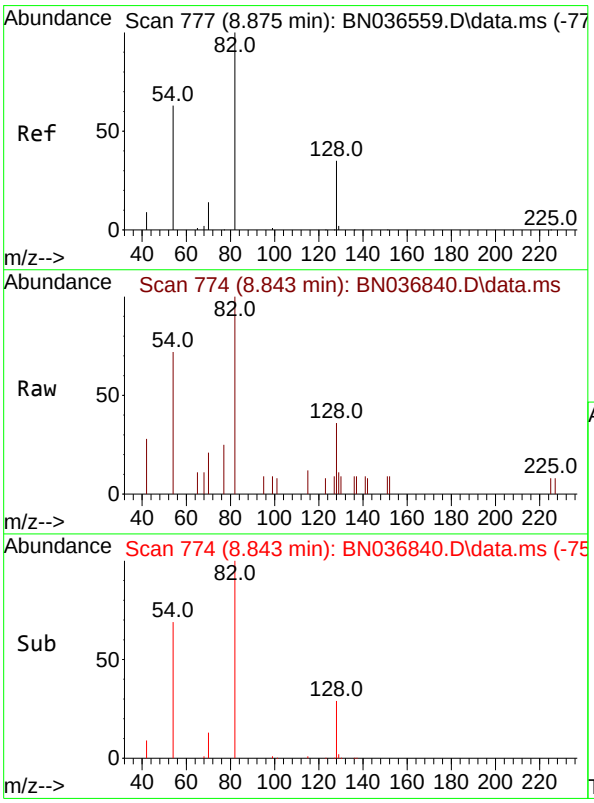
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:136 Resp: 4270

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	13.4	11.5	17.3
68	8.6	7.0	10.4

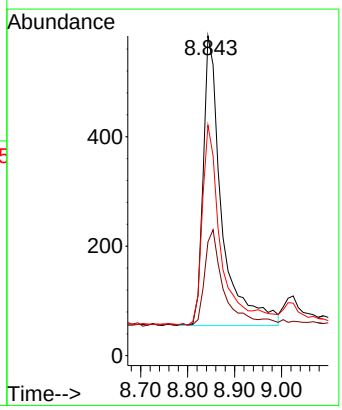


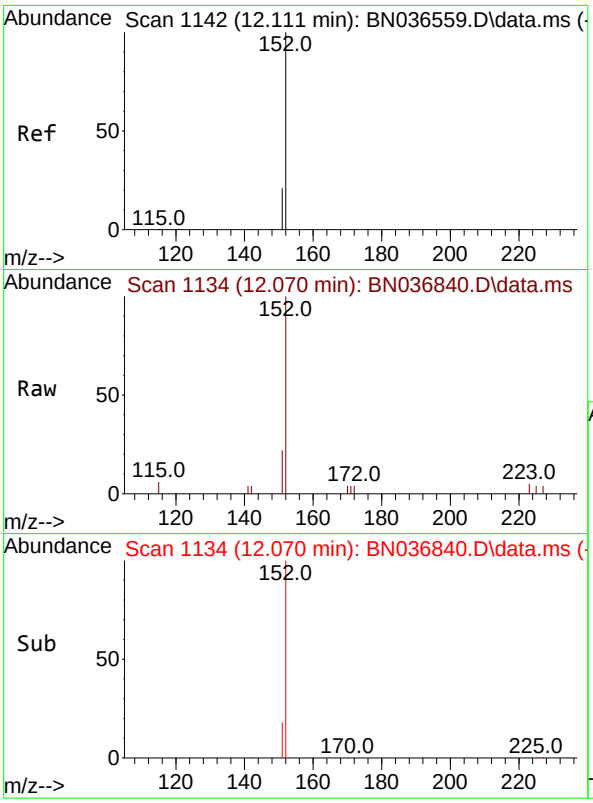


#8
Nitrobenzene-d5
Concen: 0.313 ng
RT: 8.843 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion: 82 Resp: 1455

Ion	Ratio	Lower	Upper
82	100		
128	35.6	30.6	45.8
54	72.1	52.2	78.4



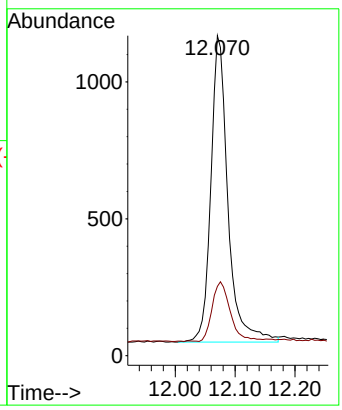


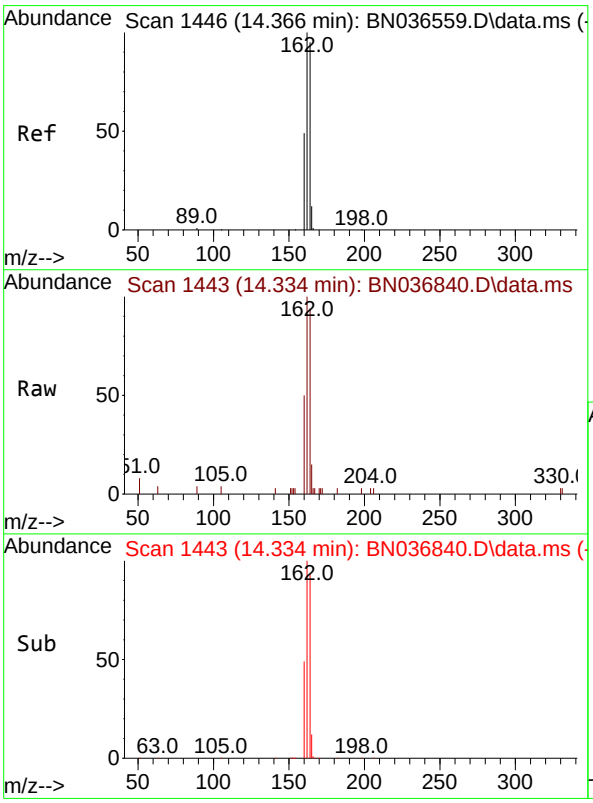
#11
2-Methylnaphthalene-d10
Concen: 0.349 ng
RT: 12.070 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:152 Resp: 2214

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.0	25.6

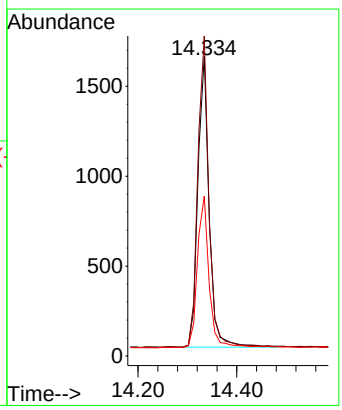


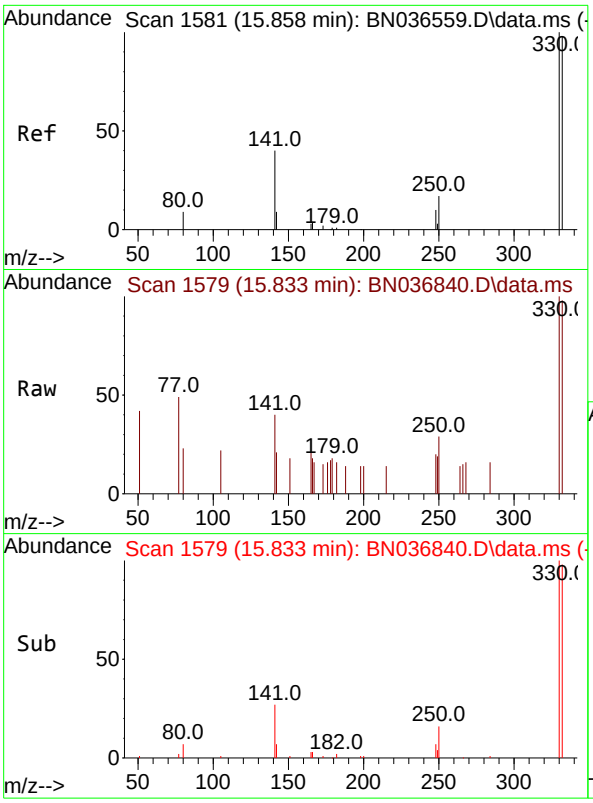


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:164 Resp: 2557

Ion	Ratio	Lower	Upper
164	100		
162	106.8	84.2	126.2
160	53.4	42.2	63.2



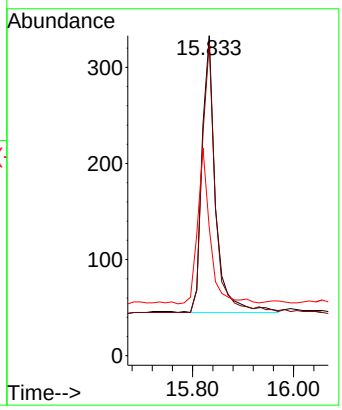


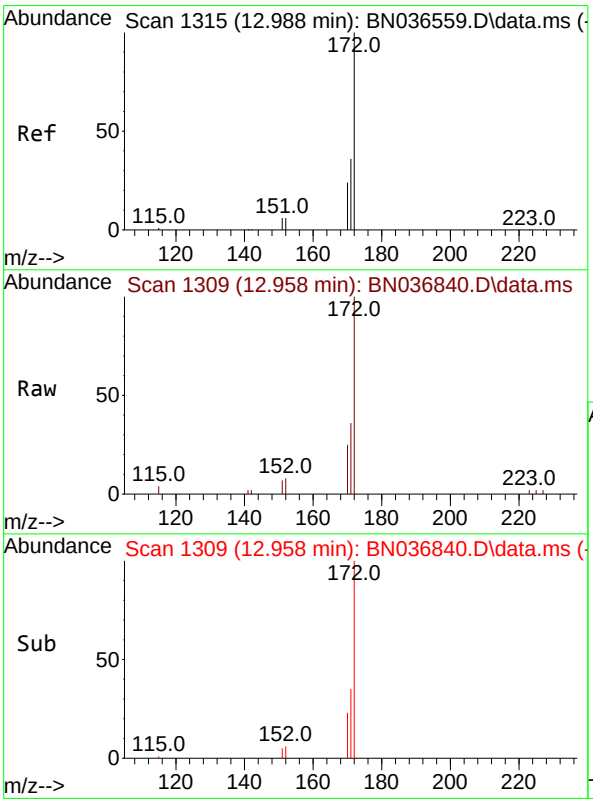
#14
2,4,6-Tribromophenol
Concen: 0.462 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:330 Resp: 536

Ion	Ratio	Lower	Upper
330	100		
332	95.7	75.2	112.8
141	52.4	43.4	65.2

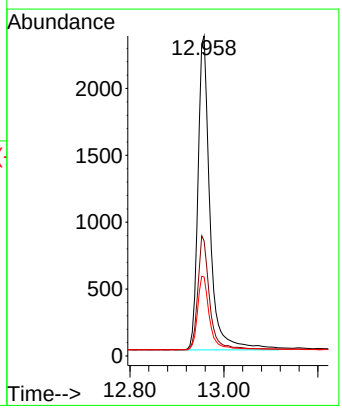


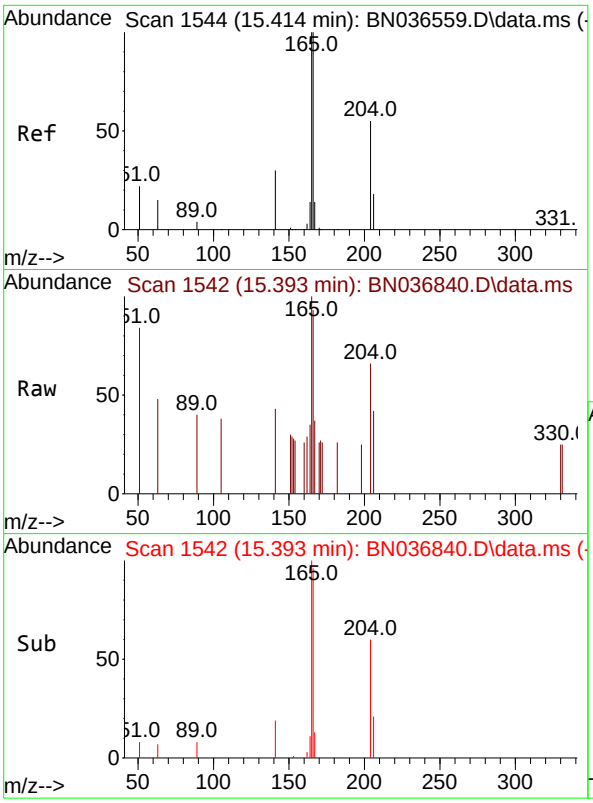


#15
2-Fluorobiphenyl
Concen: 0.370 ng
RT: 12.958 min Scan# 1309
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:172 Resp: 5497

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.5	44.3
170	24.7	20.2	30.4



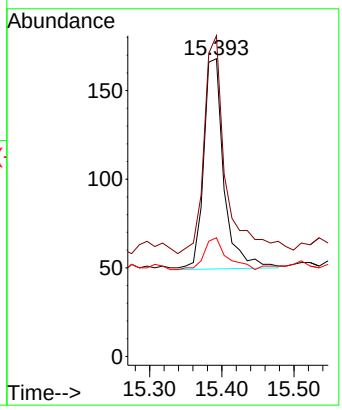


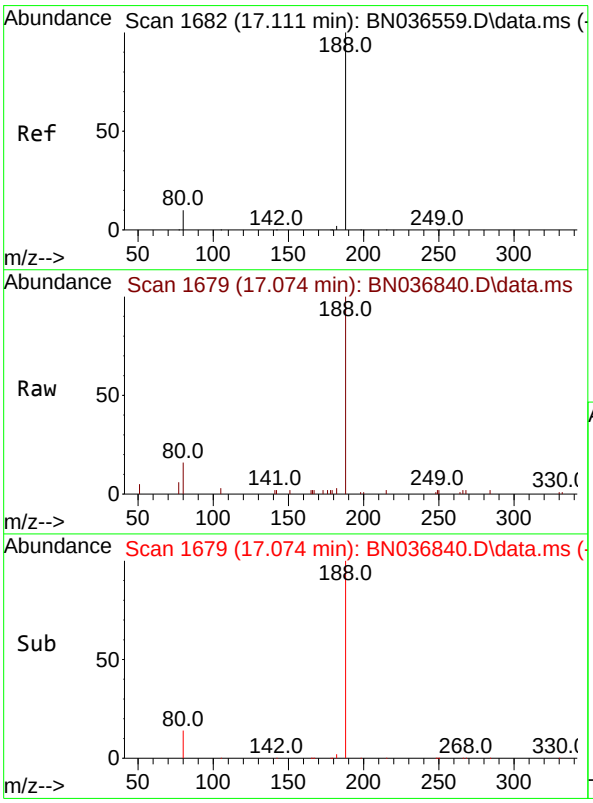
#18
Fluorene
Concen: 0.022 ng
RT: 15.393 min Scan# 1
Delta R.T. 0.011 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:166 Resp: 231

Ion	Ratio	Lower	Upper
166	100		
165	112.1	79.8	119.8
167	16.9	10.6	15.8#

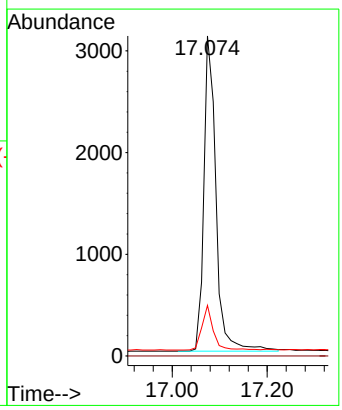


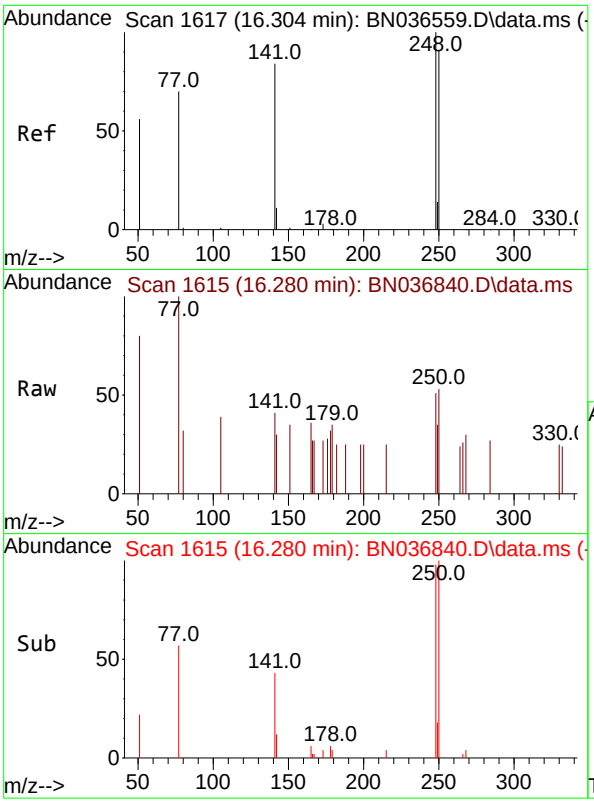


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.074 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:188 Resp: 5530

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.8	8.8	13.2#



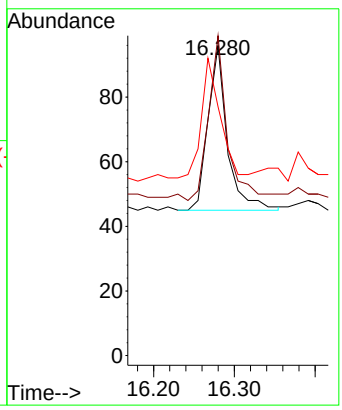


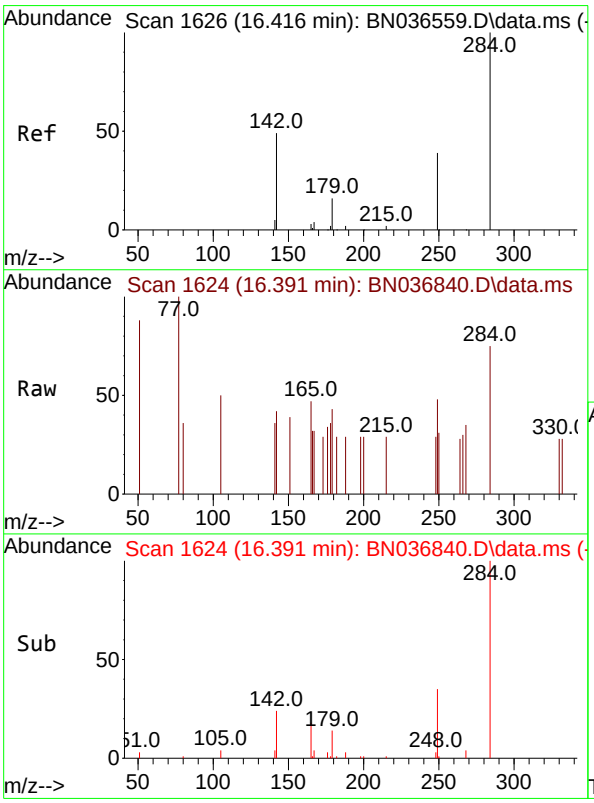
#21
4-Bromophenyl-phenylether
Concen: 0.024 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:248 Resp: 84

Ion	Ratio	Lower	Upper
248	100		
250	103.1	73.0	109.6
141	80.2	68.6	103.0

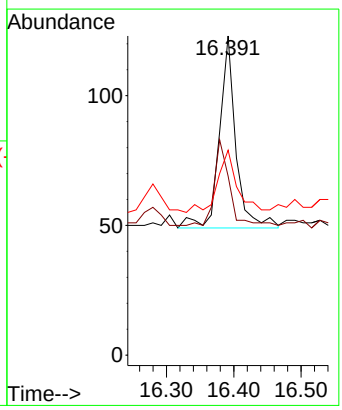


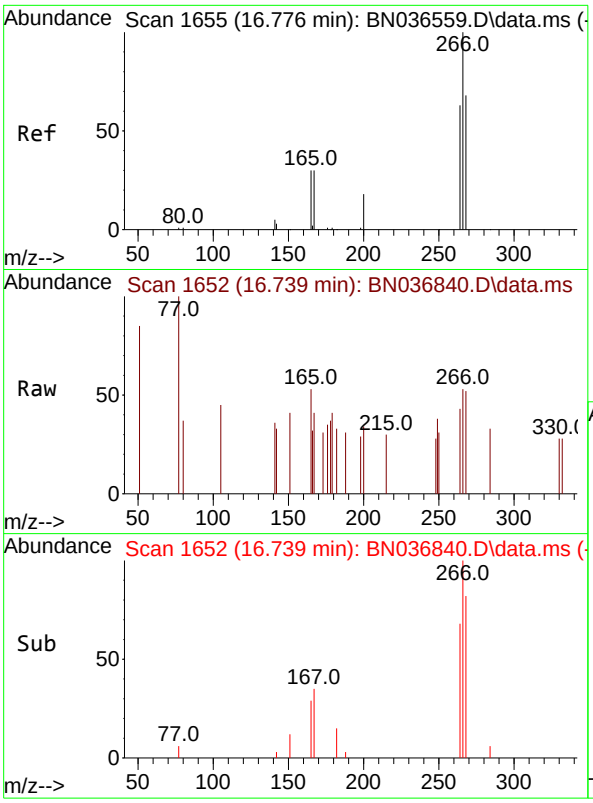


#22
Hexachlorobenzene
Concen: 0.030 ng
RT: 16.391 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:284 Resp: 126

Ion	Ratio	Lower	Upper
284	100		
142	39.7	37.0	55.4
249	38.9	28.1	42.1



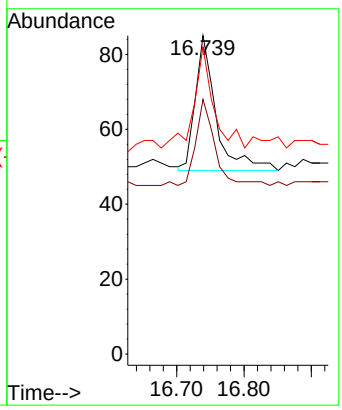


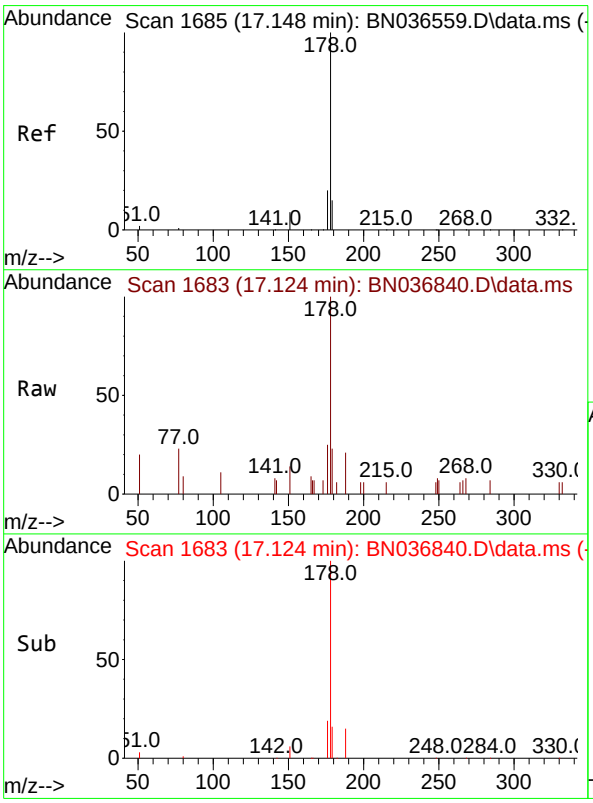
#24
Pentachlorophenol
Concen: 0.040 ng
RT: 16.739 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:266 Resp: 77

Ion	Ratio	Lower	Upper
266	100		
264	58.4	49.6	74.4
268	74.0	50.9	76.3

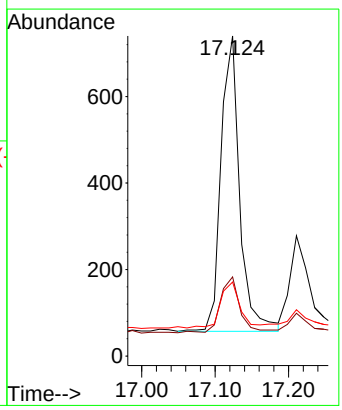


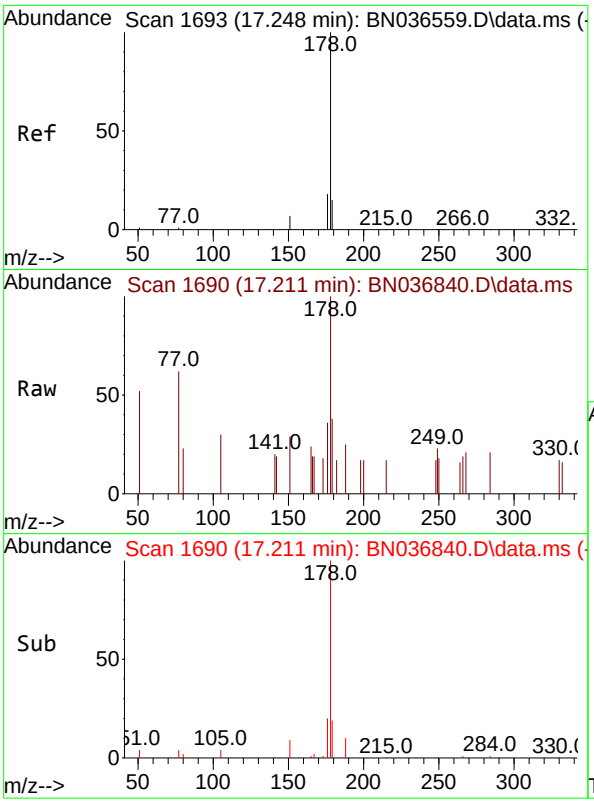


#25
Phenanthrene
Concen: 0.073 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:178 Resp: 1209

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.9	23.9
179	16.1	12.2	18.4



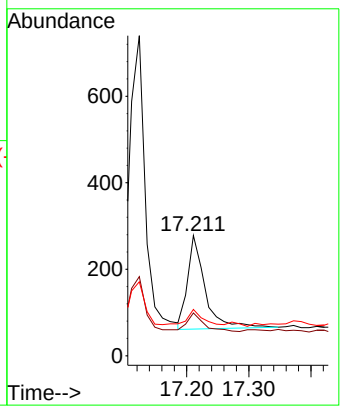


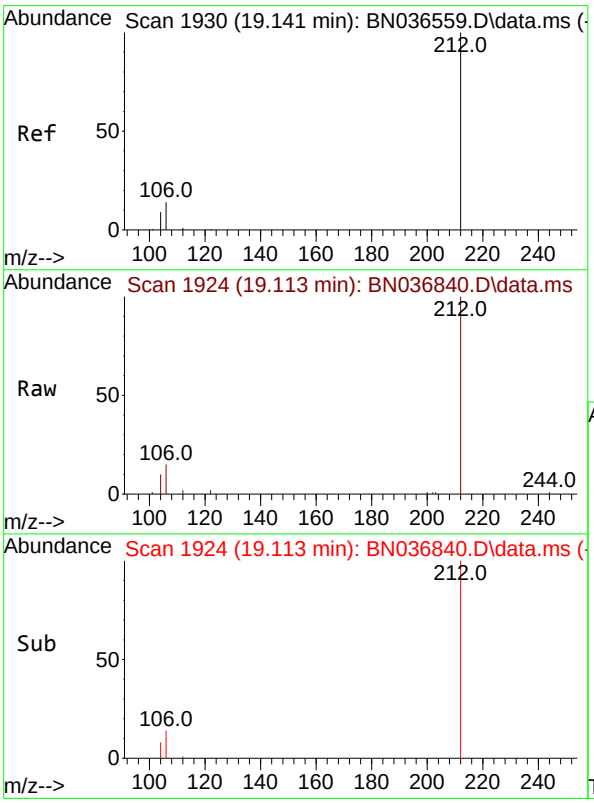
#26
Anthracene
Concen: 0.028 ng
RT: 17.211 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:178 Resp: 423

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	14.7	12.6	18.8

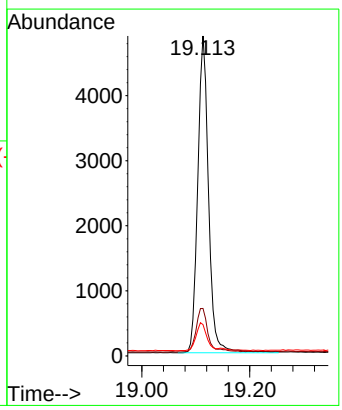


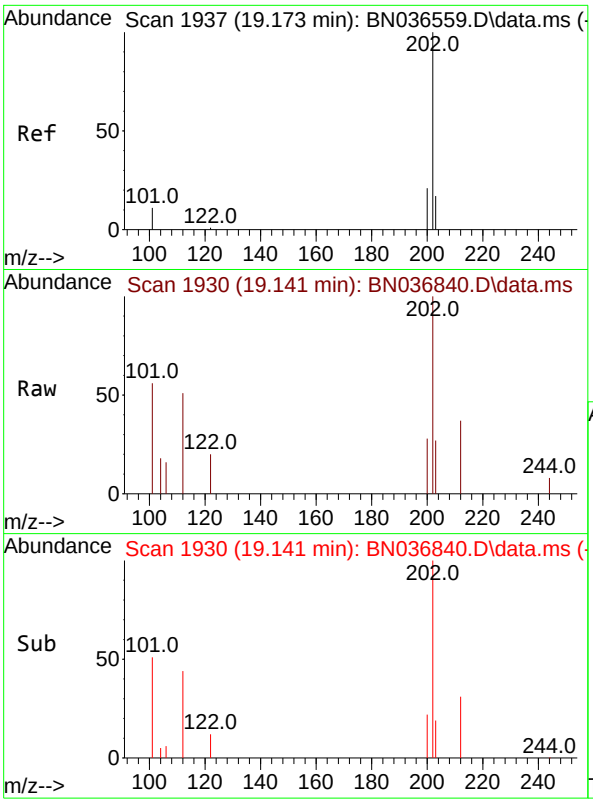


#27
Fluoranthene-d10
Concen: 0.478 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:212 Resp: 6769

Ion	Ratio	Lower	Upper
212	100		
106	15.1	11.8	17.6
104	8.8	7.3	10.9



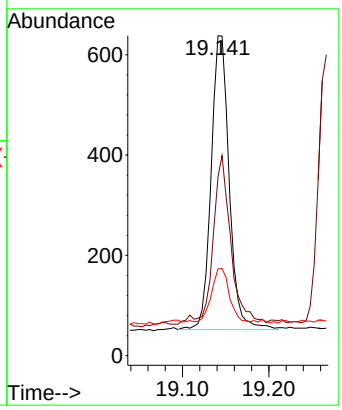


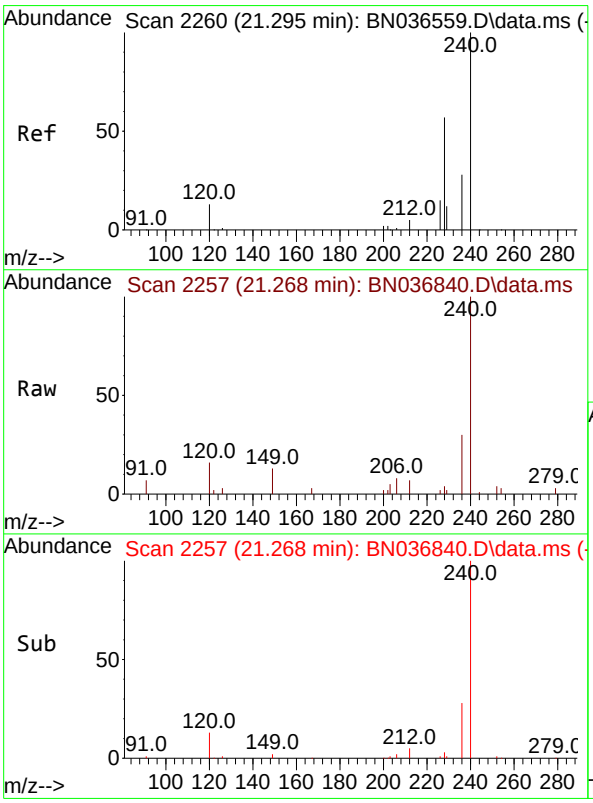
#28
Fluoranthene
Concen: 0.046 ng
RT: 19.141 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:202 Resp: 856

Ion	Ratio	Lower	Upper
202	100		
101	53.3	9.4	14.0#
203	17.9	13.5	20.3

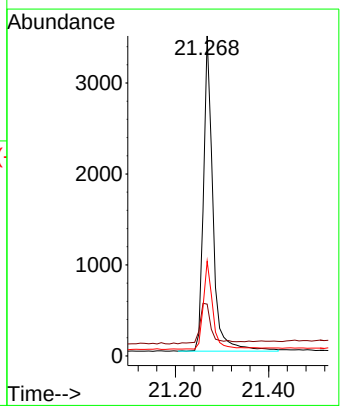


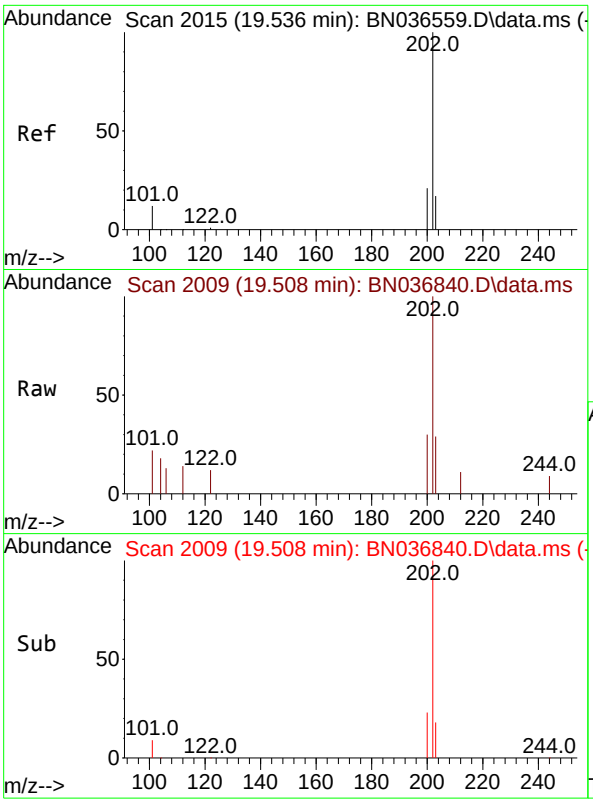


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:240 Resp: 4895

Ion	Ratio	Lower	Upper
240	100		
120	16.2	14.6	22.0
236	29.6	24.1	36.1



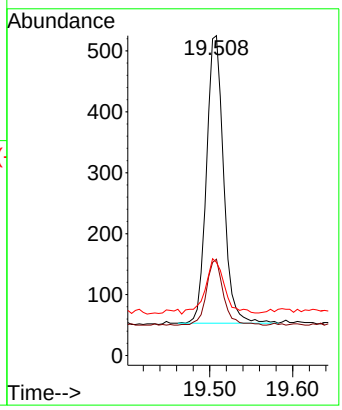


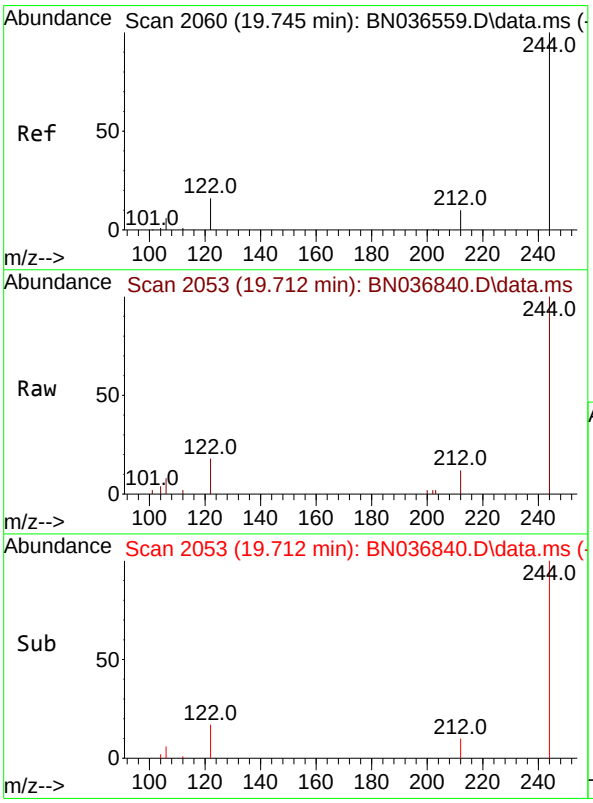
#30
Pyrene
Concen: 0.028 ng
RT: 19.508 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:202 Resp: 677

Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.1	25.7
203	22.0	14.1	21.1#

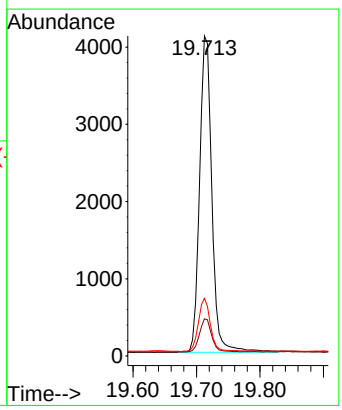


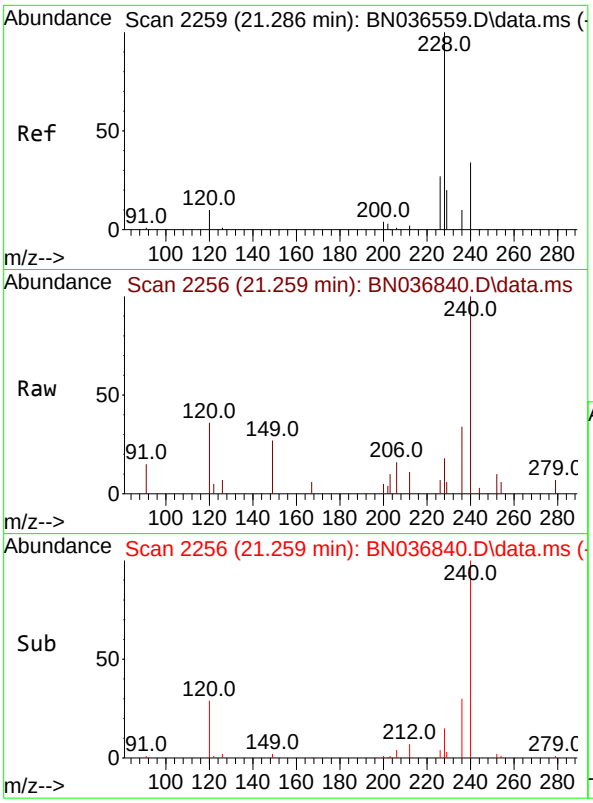


#31
Terphenyl-d14
Concen: 0.470 ng
RT: 19.712 min Scan# 2053
Delta R.T. -0.005 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:244 Resp: 5514

Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.6	14.4
122	18.1	13.9	20.9



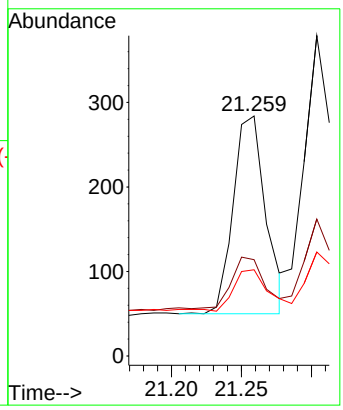


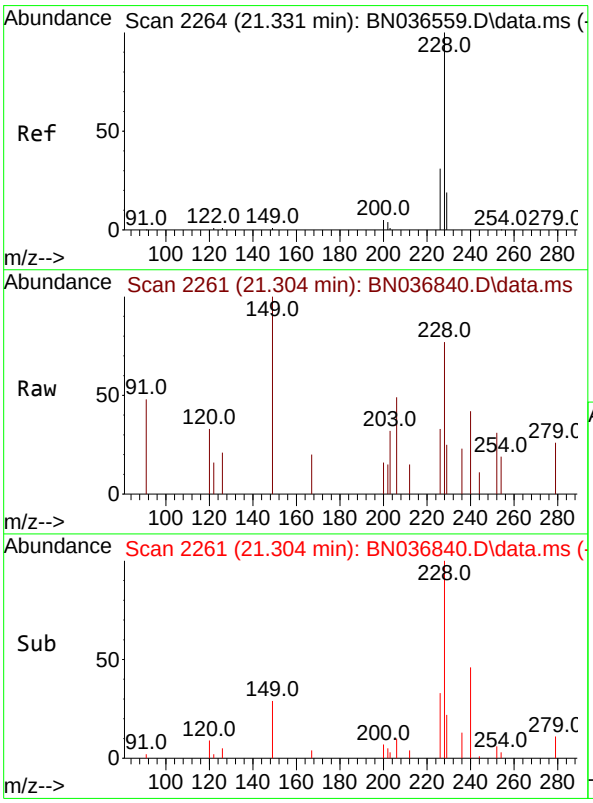
#32
Benzo(a)anthracene
Concen: 0.022 ng
RT: 21.259 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:228 Resp: 378

Ion	Ratio	Lower	Upper
228	100		
226	40.1	22.5	33.7#
229	35.9	16.6	25.0#

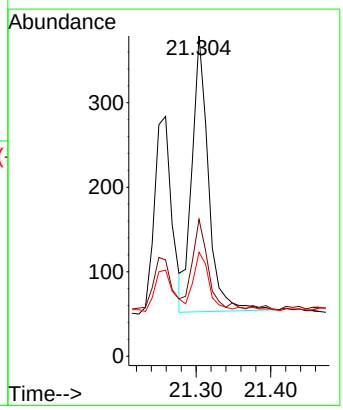


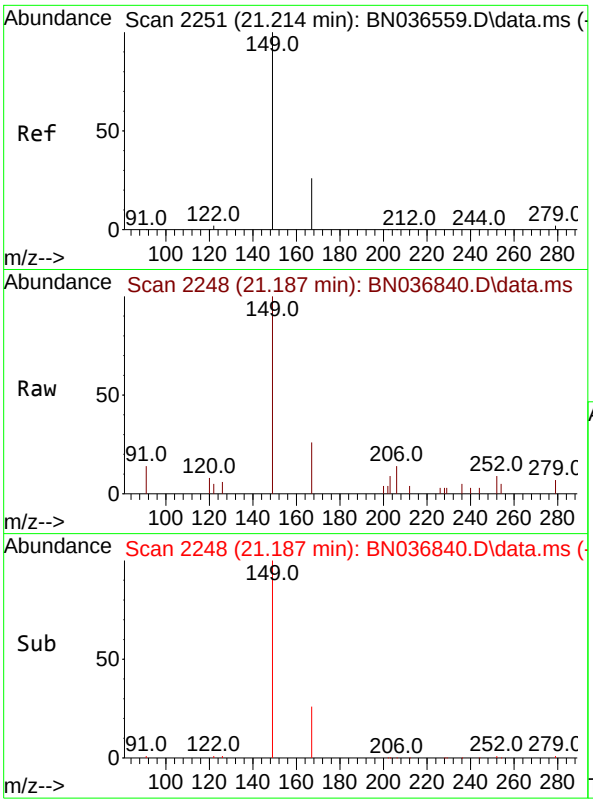


#33
Chrysene
Concen: 0.027 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:228 Resp: 501

Ion	Ratio	Lower	Upper
228	100		
226	42.7	25.3	37.9#
229	32.5	15.8	23.8#



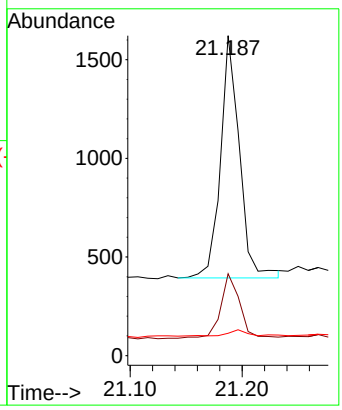


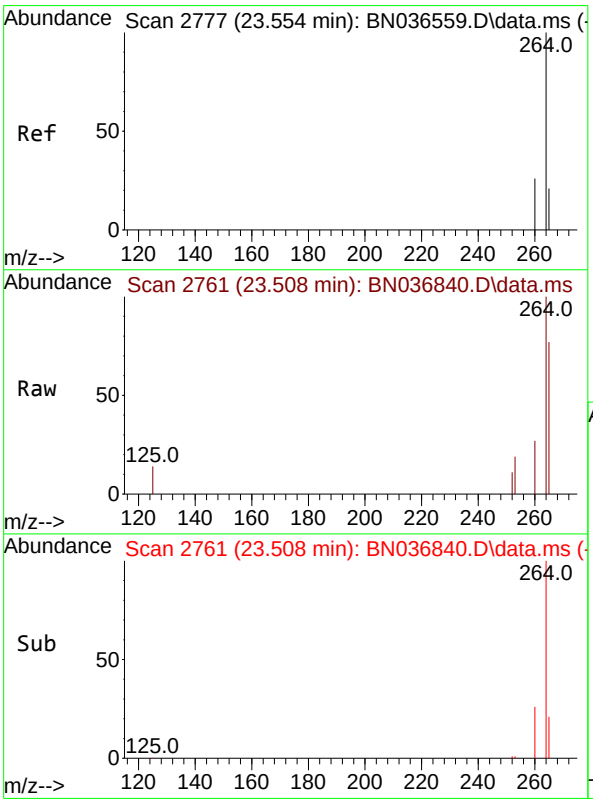
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.119 ng
RT: 21.187 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RMW-04B-91-040325

Tgt Ion:149 Resp: 1446

Ion	Ratio	Lower	Upper
149	100		
167	26.8	20.7	31.1
279	3.0	3.6	5.4#

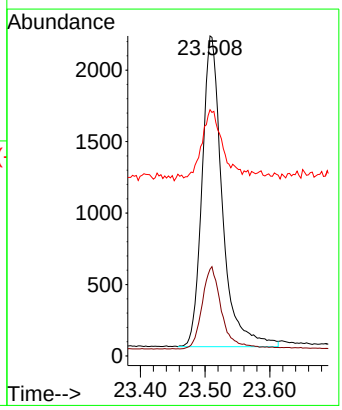




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.508 min Scan# 2761
Delta R.T. -0.003 min
Lab File: BN036840.D
Acq: 04 Apr 2025 17:58

Tgt Ion:264 Resp: 4713

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	77.0	88.1	132.1#



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/03/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/03/25
Client Sample ID:	RMW-01B-82-040325-FD	SDG No.:	Q1731
Lab Sample ID:	Q1731-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036841.D	1	04/04/25 11:35	04/04/25 18:34	PB167468

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.43		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.37		30 (20) - 150 (139)	93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.50		30 (30) - 150 (150)	126%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (27) - 130 (154)	88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		30 (25) - 130 (149)	94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		30 (54) - 130 (175)	122%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1720	7.696			
1146-65-2	Naphthalene-d8	4120	10.488			
15067-26-2	Acenaphthene-d10	2520	14.334			
1517-22-2	Phenanthrene-d10	5200	17.087			
1719-03-5	Chrysene-d12	4660	21.268			
1520-96-3	Perylene-d12	4310	23.513			

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\BN040425\
Data File : BN036841.D
Acq On : 04 Apr 2025 18:34
Operator : RC/JU
Sample : Q1731-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Quant Time: Apr 04 18:56:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

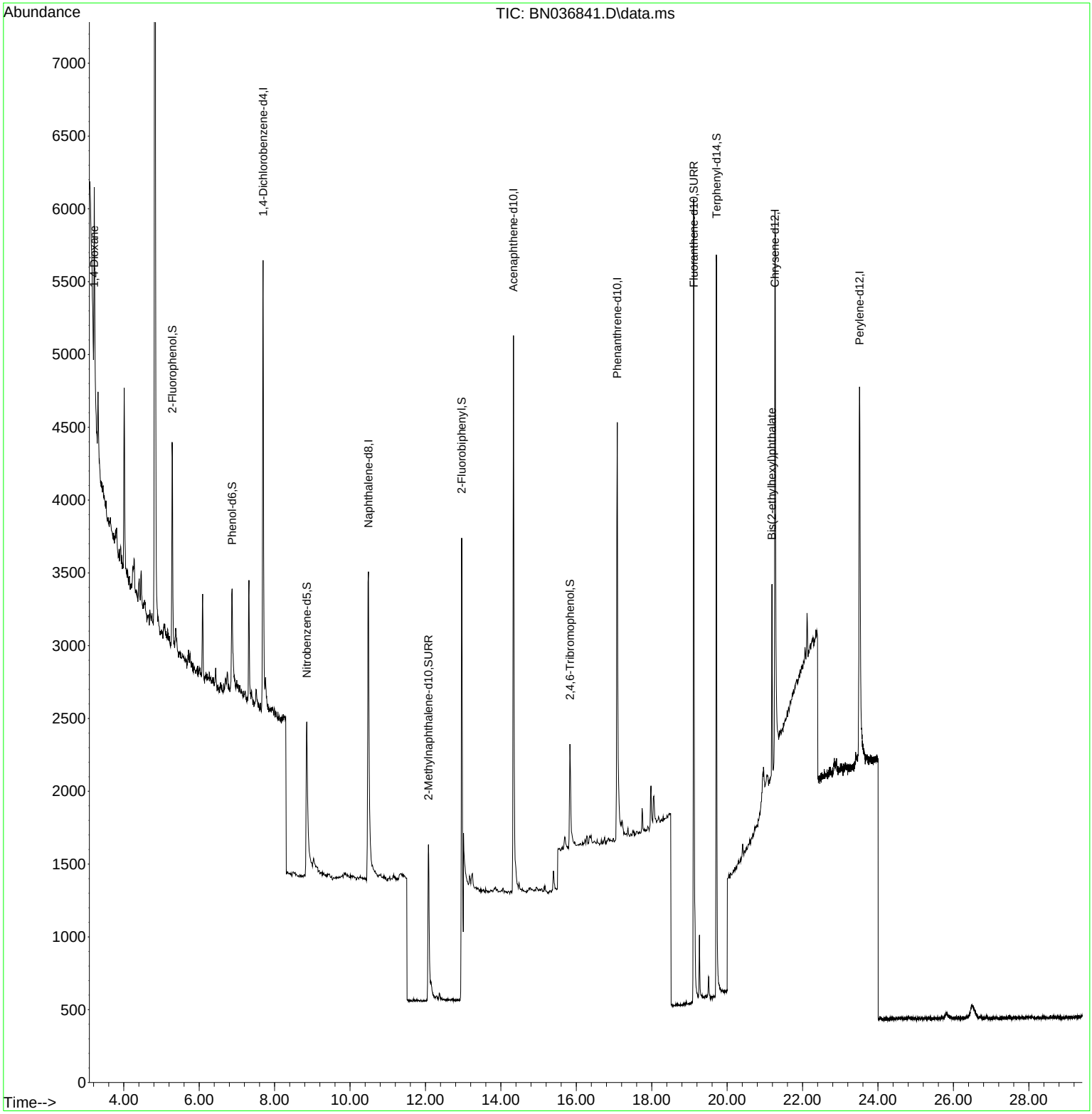
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1722	0.400	ng	0.00
7) Naphthalene-d8	10.488	136	4117	0.400	ng	0.01
13) Acenaphthene-d10	14.334	164	2520	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5203	0.400	ng	0.01
29) Chrysene-d12	21.268	240	4655	0.400	ng	0.00
35) Perylene-d12	23.513	264	4312	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	1092	0.272	ng	0.00
5) Phenol-d6	6.872	99	861	0.174	ng	0.00
8) Nitrobenzene-d5	8.854	82	1569	0.350	ng	0.01
11) 2-Methylnaphthalene-d10	12.080	152	2267	0.370	ng	0.01
14) 2,4,6-Tribromophenol	15.833	330	527	0.461	ng	0.00
15) 2-Fluorobiphenyl	12.963	172	5512	0.376	ng	0.00
27) Fluoranthene-d10	19.113	212	6709	0.503	ng	0.00
31) Terphenyl-d14	19.717	244	5437	0.487	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	800	0.419	ng	# 68
34) Bis(2-ethylhexyl)phtha...	21.187	149	1126	0.098	ng	# 96

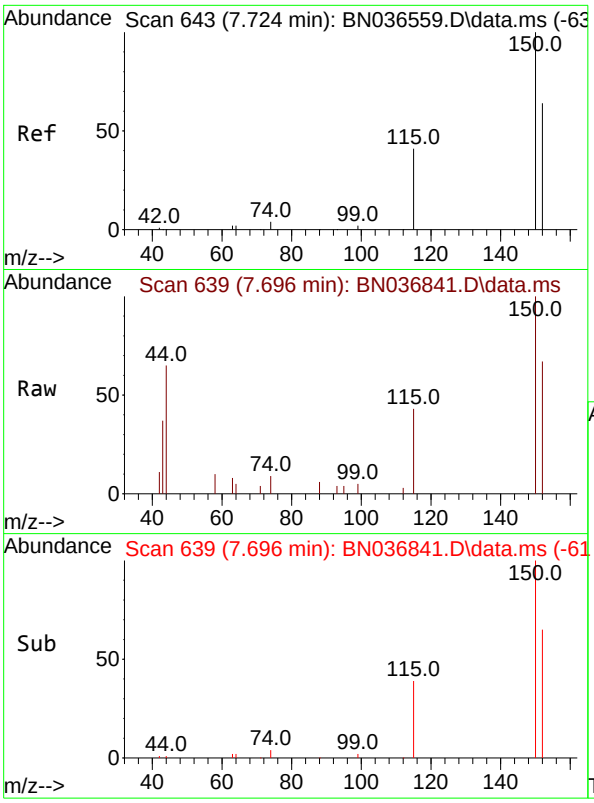
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036841.D
Acq On : 04 Apr 2025 18:34
Operator : RC/JU
Sample : Q1731-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Quant Time: Apr 04 18:56:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration



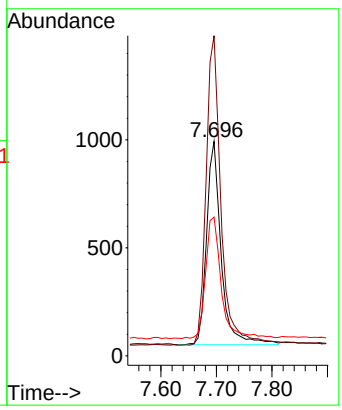


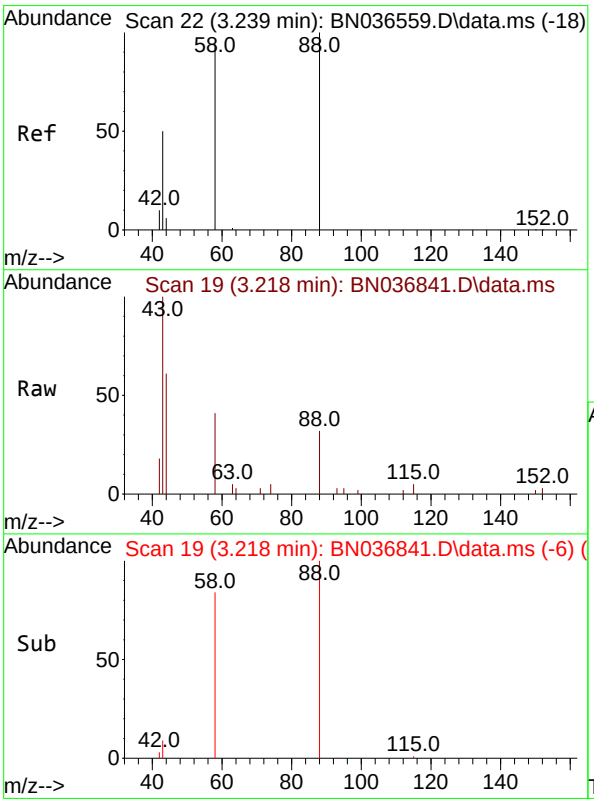
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. 0.008 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Tgt Ion:152 Resp: 1722

Ion	Ratio	Lower	Upper
152	100		
150	149.4	123.7	185.5
115	64.7	54.3	81.5

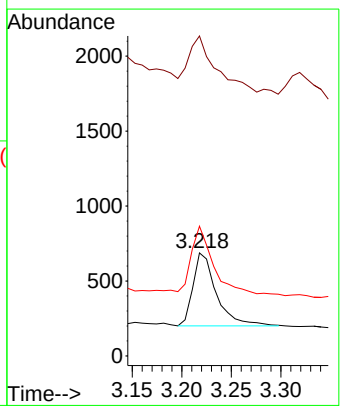


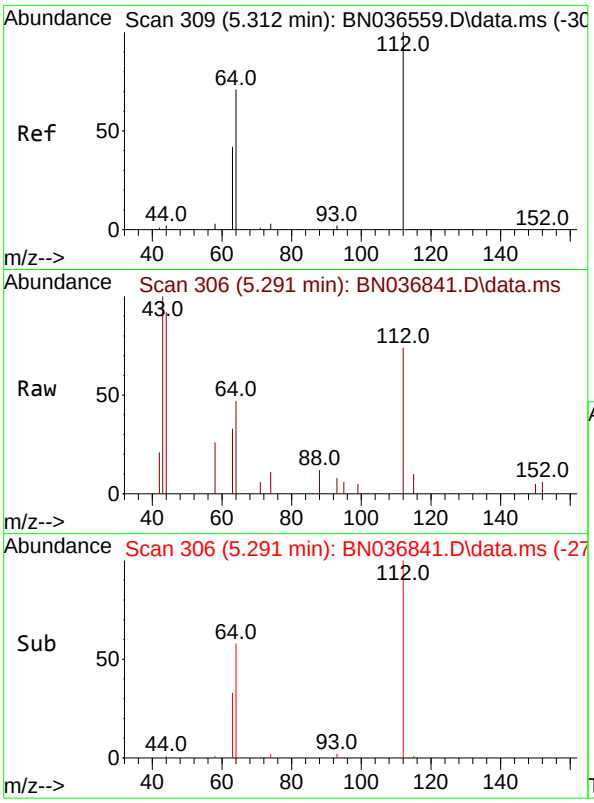


#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.007 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Tgt Ion: 88 Resp: 800

Ion	Ratio	Lower	Upper
88	100		
43	100.5	37.8	56.8#
58	88.9	67.4	101.2



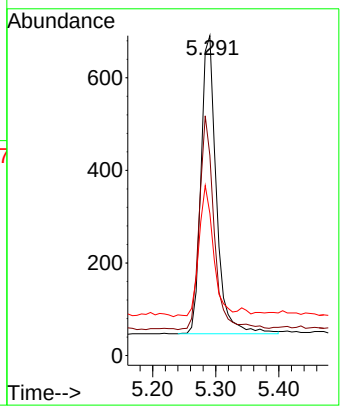


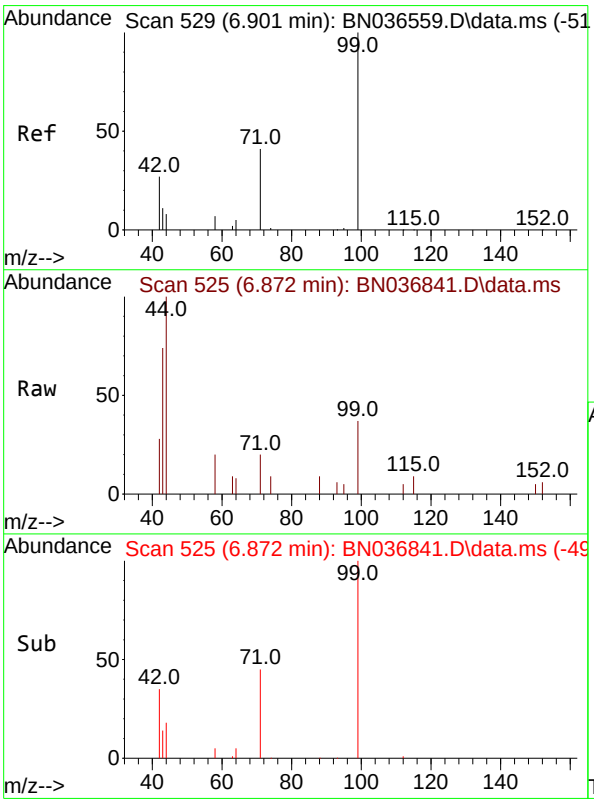
#4
2-Fluorophenol
Concen: 0.272 ng
RT: 5.291 min Scan# 3
Delta R.T. 0.007 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Tgt Ion:112 Resp: 1092

Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	41.5	31.8	47.8

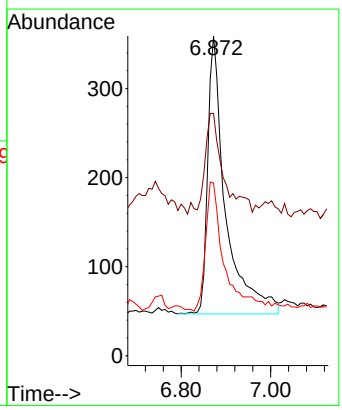


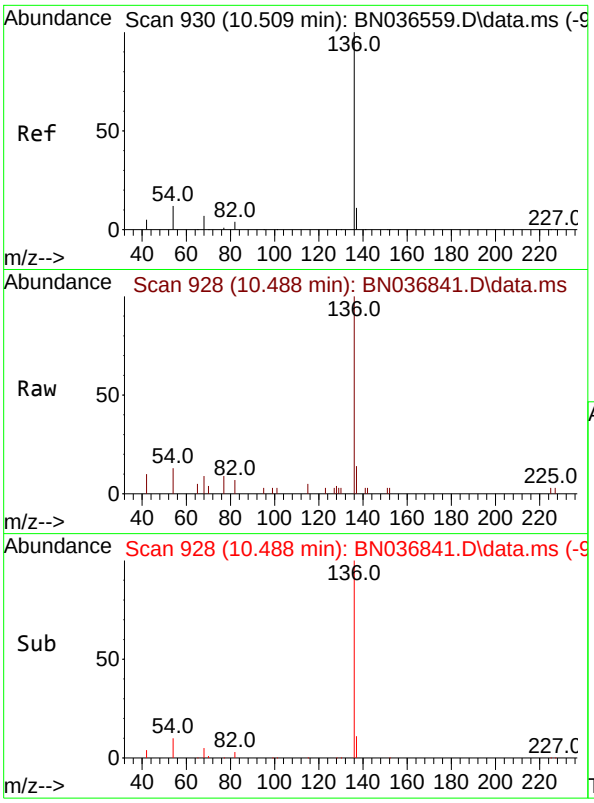


#5
Phenol-d6
Concen: 0.174 ng
RT: 6.872 min Scan# 525
Delta R.T. 0.007 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Tgt Ion: 99 Resp: 861

Ion	Ratio	Lower	Upper
99	100		
42	37.6	26.5	39.7
71	47.4	34.1	51.1



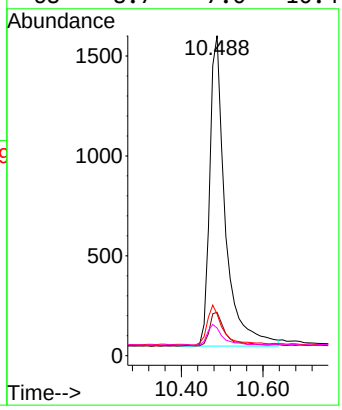


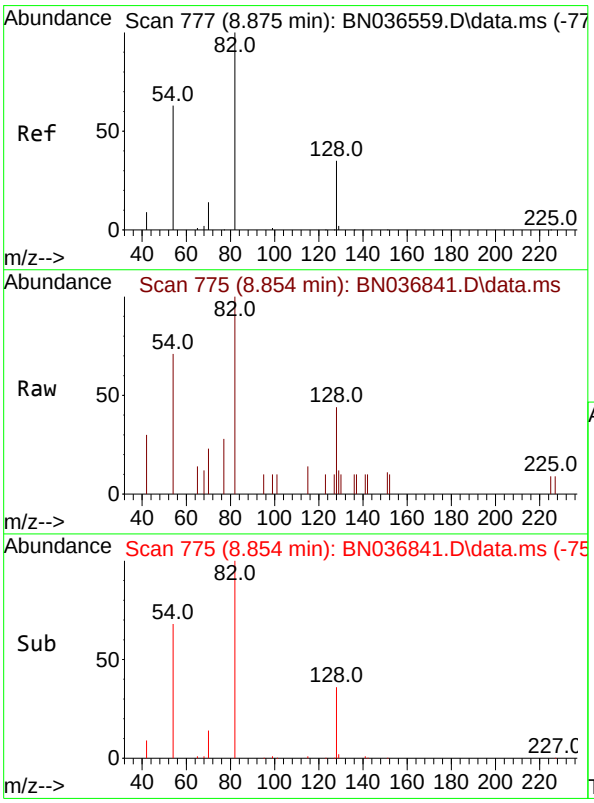
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Tgt Ion:136 Resp: 4117

Ion	Ratio	Lower	Upper
136	100		
137	13.5	10.3	15.5
54	13.0	11.5	17.3
68	8.7	7.0	10.4

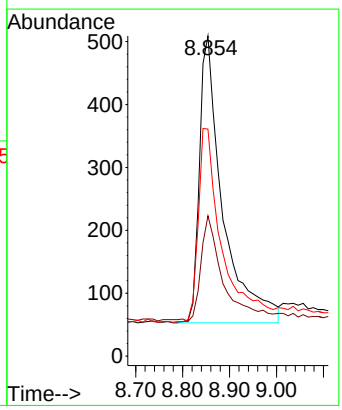


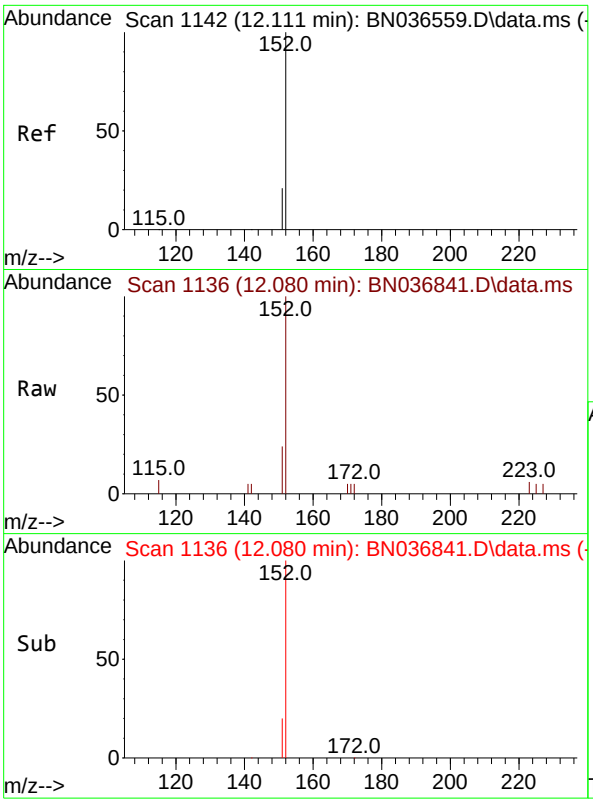


#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.011 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Tgt Ion: 82 Resp: 1569

Ion	Ratio	Lower	Upper
82	100		
128	43.8	30.6	45.8
54	70.9	52.2	78.4



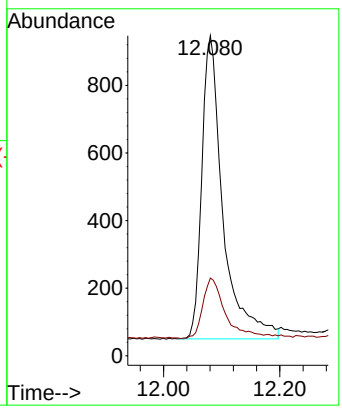


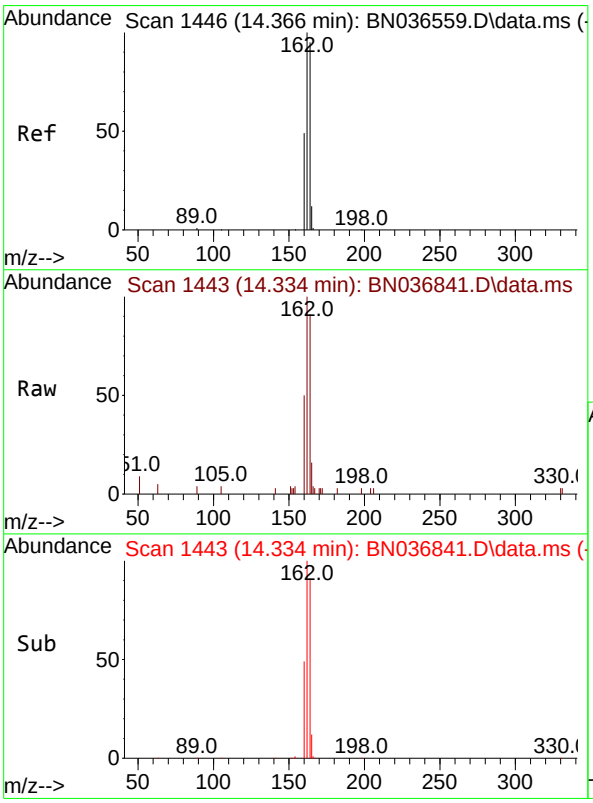
#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.080 min Scan# 11
Delta R.T. 0.010 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Tgt Ion:152 Resp: 2267

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

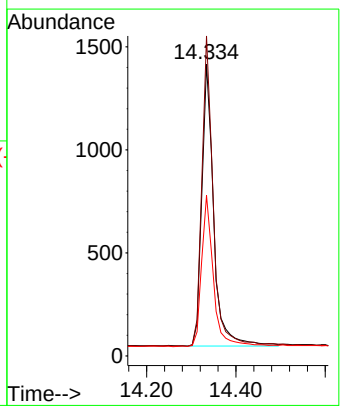


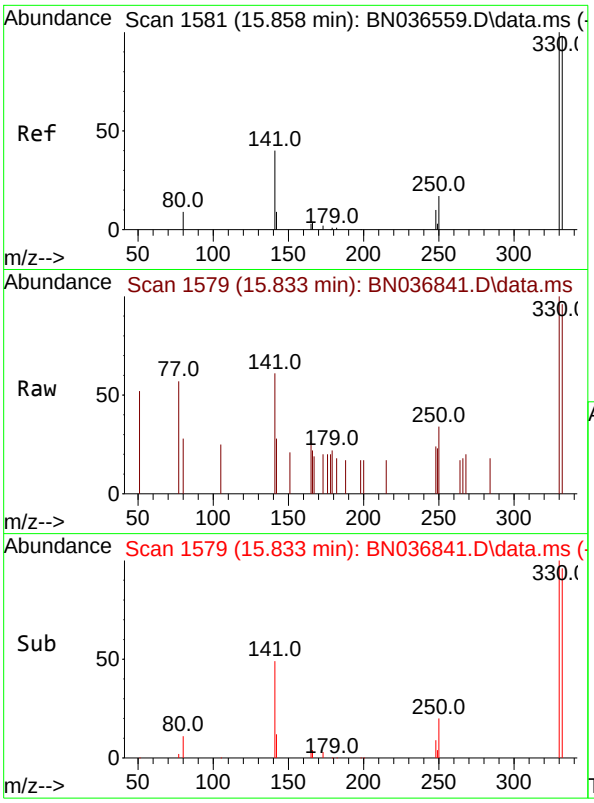


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Tgt Ion:164 Resp: 2520

Ion	Ratio	Lower	Upper
164	100		
162	109.8	84.2	126.2
160	55.1	42.2	63.2



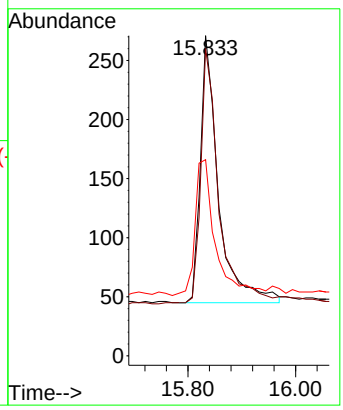


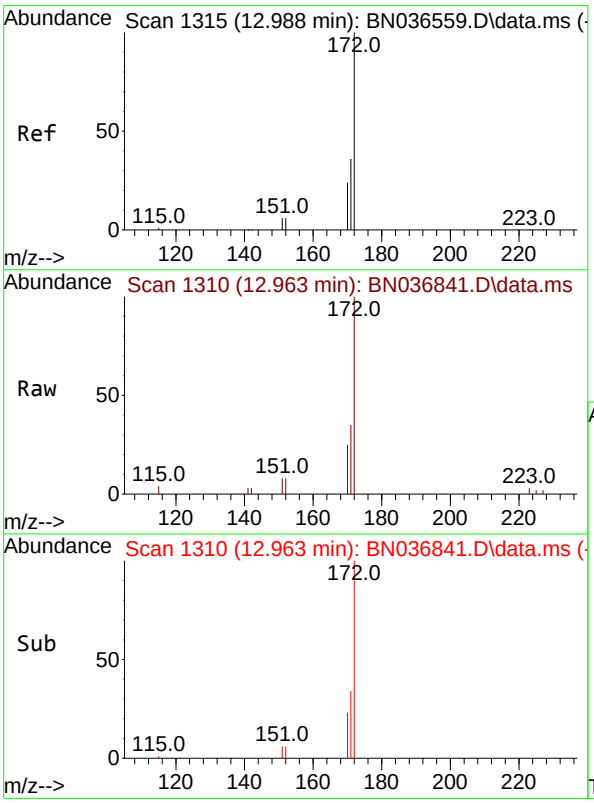
#14
2,4,6-Tribromophenol
Concen: 0.461 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Tgt Ion:330 Resp: 527

Ion	Ratio	Lower	Upper
330	100		
332	97.2	75.2	112.8
141	56.9	43.4	65.2

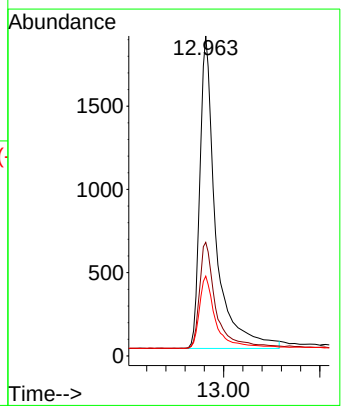


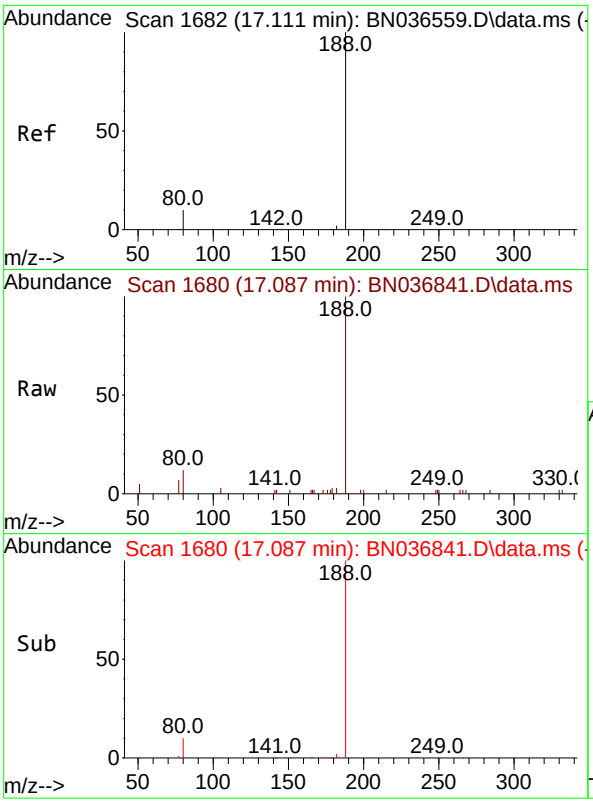


#15
2-Fluorobiphenyl
Concen: 0.376 ng
RT: 12.963 min Scan# 1310
Delta R.T. 0.005 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Tgt Ion:172 Resp: 5512

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.5	44.3
170	24.9	20.2	30.4



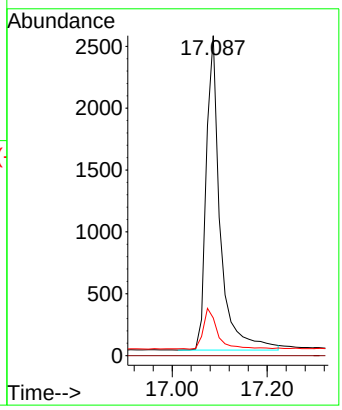


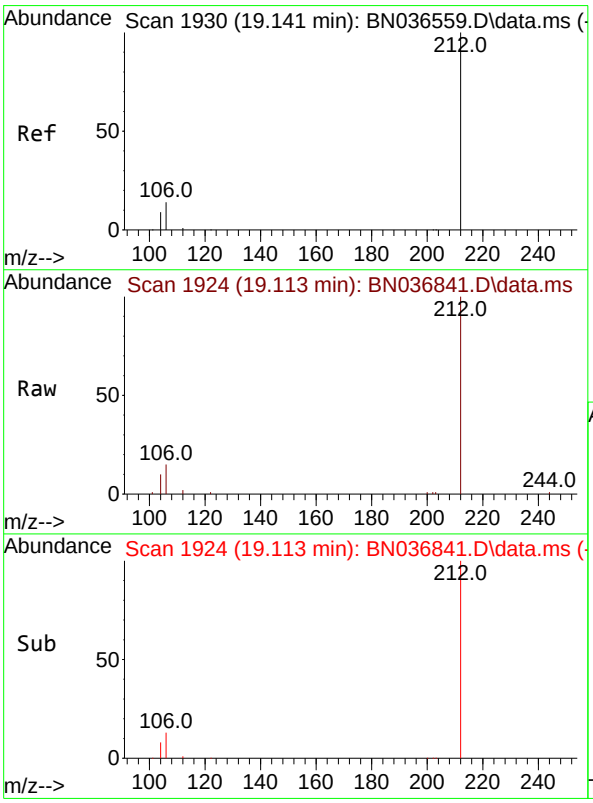
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Tgt Ion:188 Resp: 5203

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

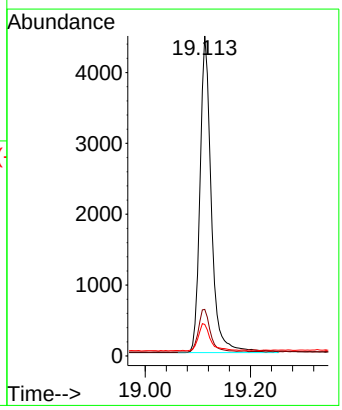


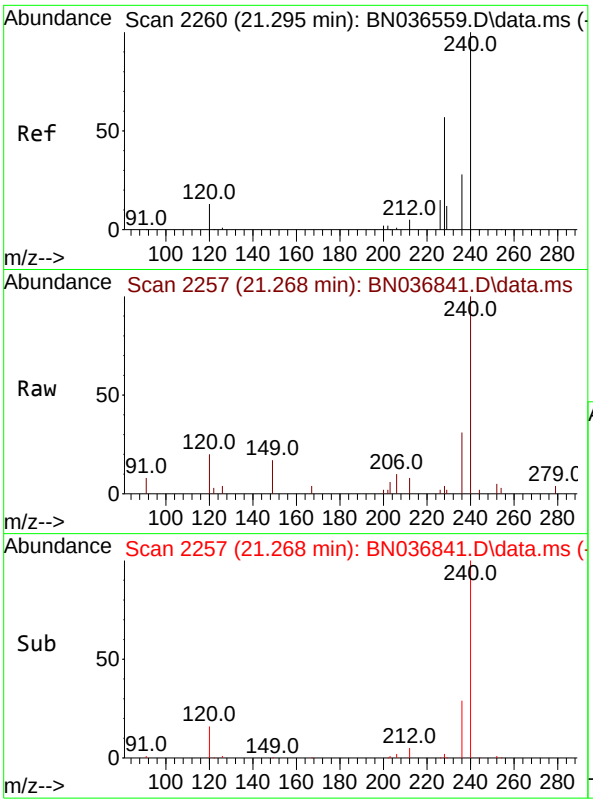


#27
Fluoranthene-d10
Concen: 0.503 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Tgt Ion:212 Resp: 6709

Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.8	17.6
104	9.0	7.3	10.9



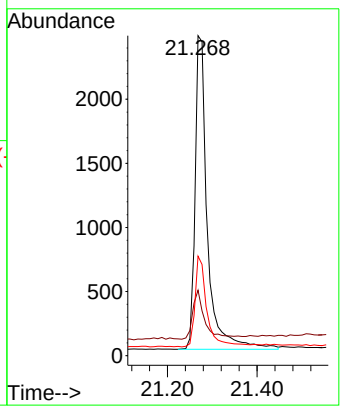


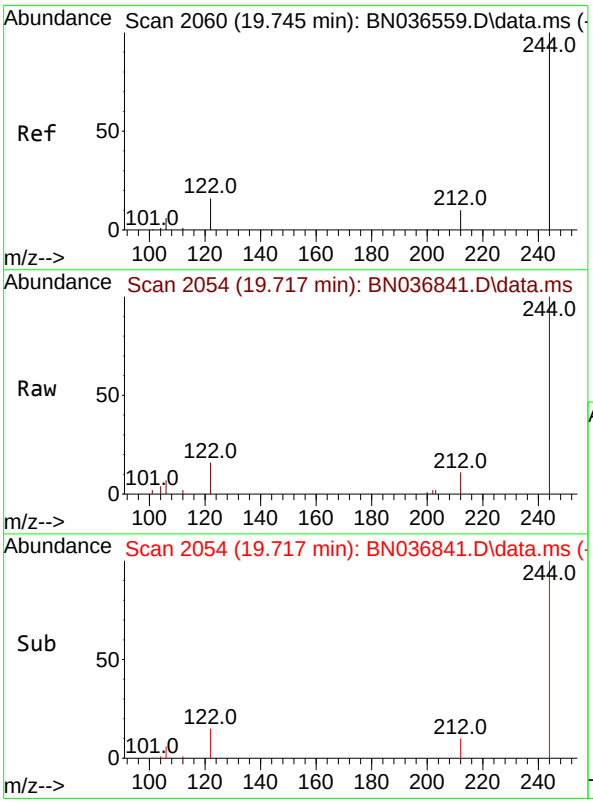
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Tgt Ion:240 Resp: 4655

Ion	Ratio	Lower	Upper
240	100		
120	20.4	14.6	22.0
236	31.1	24.1	36.1

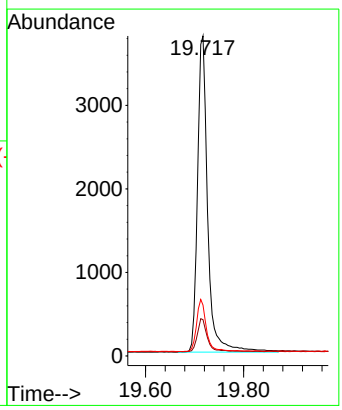


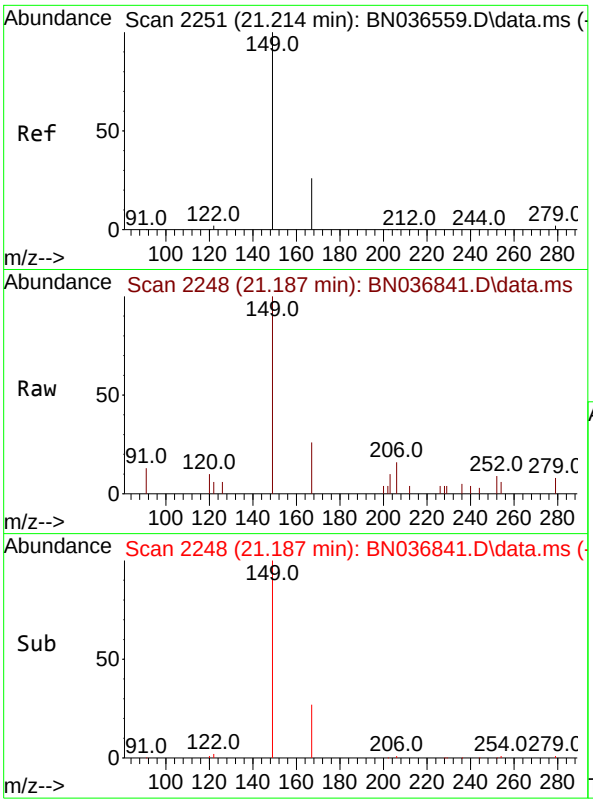


#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.000 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Tgt Ion:244 Resp: 5437

Ion	Ratio	Lower	Upper
244	100		
212	11.3	9.6	14.4
122	15.9	13.9	20.9



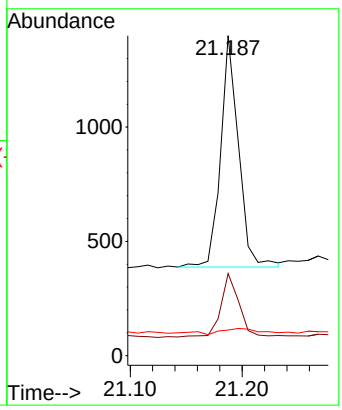


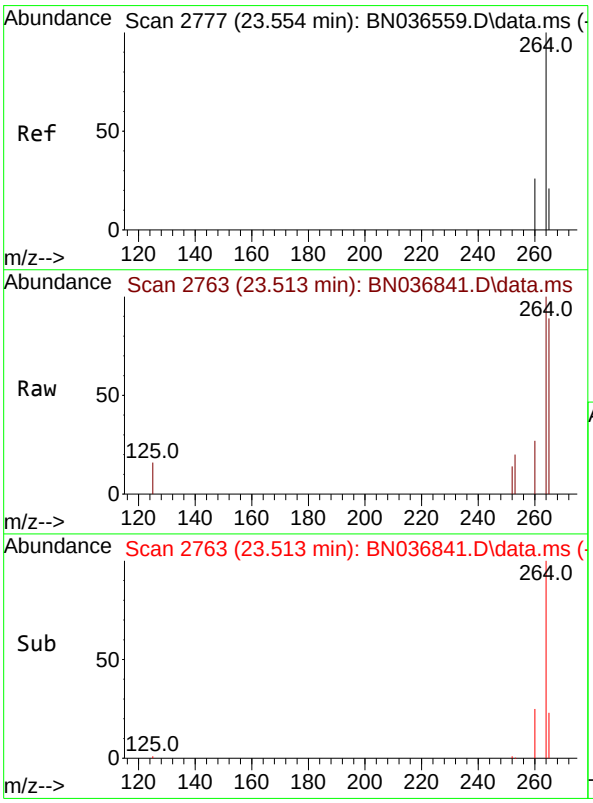
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.098 ng
RT: 21.187 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RMW-01B-82-040325-FD

Tgt Ion:149 Resp: 1126

Ion	Ratio	Lower	Upper
149	100		
167	27.9	20.7	31.1
279	6.7	3.6	5.4#

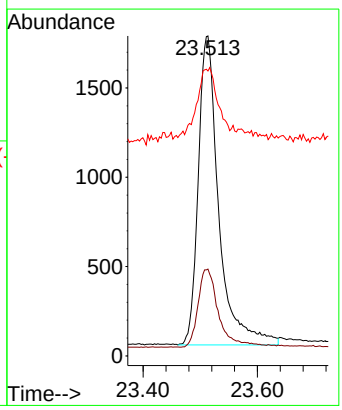




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 2763
Delta R.T. 0.003 min
Lab File: BN036841.D
Acq: 04 Apr 2025 18:34

Tgt Ion:264 Resp: 4312

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	89.1	88.1	132.1



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/03/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/03/25
Client Sample ID:	RMW-03B-90-040325	SDG No.:	Q1731
Lab Sample ID:	Q1731-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036842.D	1	04/04/25 11:35	04/04/25 19:10	PB167468

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	7.50	E	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.40		30 (20) - 150 (139)	100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.51		30 (30) - 150 (150)	126%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		30 (27) - 130 (154)	83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43		30 (25) - 130 (149)	108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		30 (54) - 130 (175)	122%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1670	7.696			
1146-65-2	Naphthalene-d8	4190	10.477			
15067-26-2	Acenaphthene-d10	2430	14.334			
1517-22-2	Phenanthrene-d10	5090	17.087			
1719-03-5	Chrysene-d12	4540	21.268			
1520-96-3	Perylene-d12	4160	23.511			

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\BN040425\
Data File : BN036842.D
Acq On : 04 Apr 2025 19:10
Operator : RC/JU
Sample : Q1731-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Quant Time: Apr 04 22:49:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

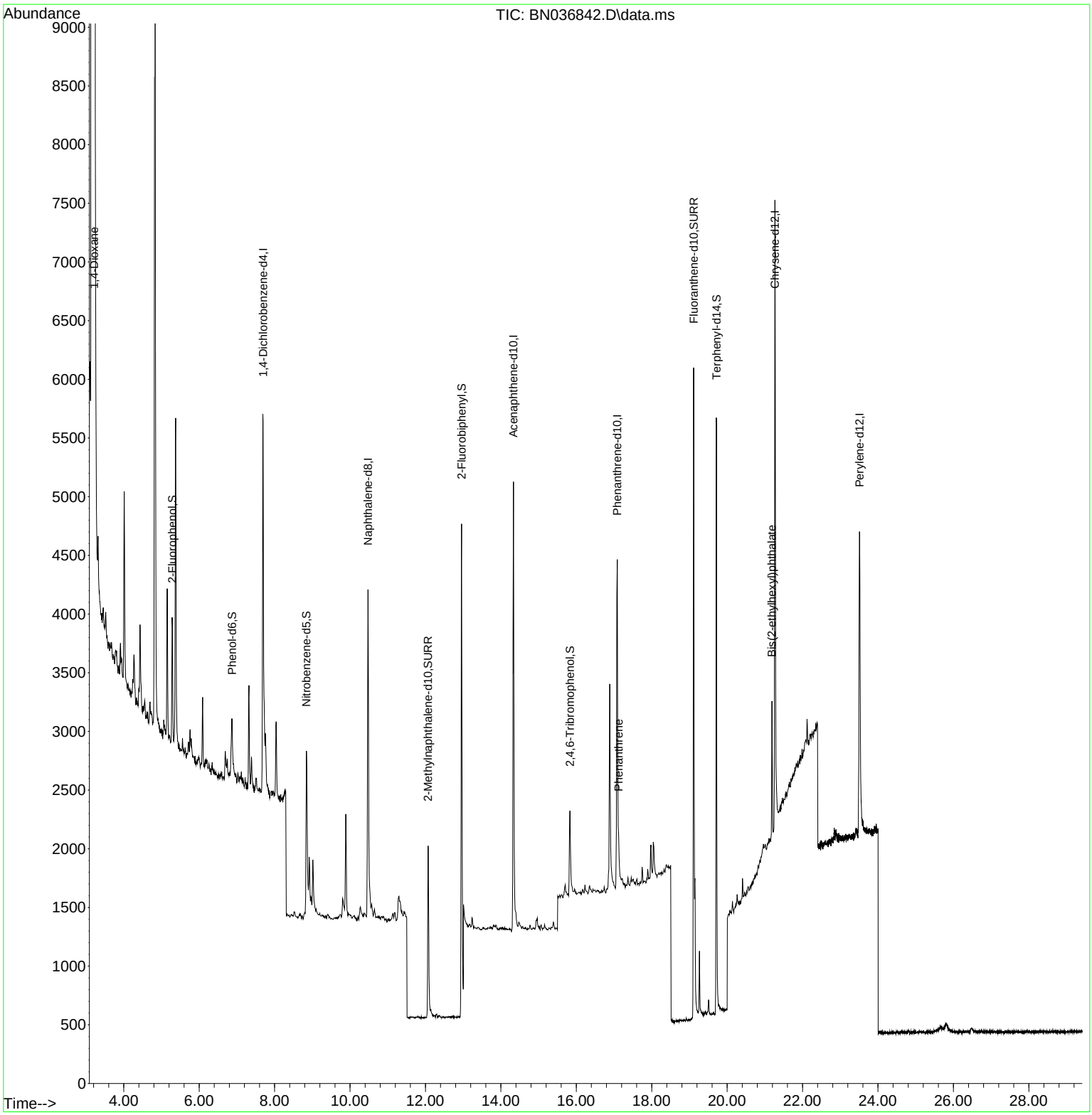
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1670	0.400	ng	0.00
7) Naphthalene-d8	10.477	136	4185	0.400	ng	0.00
13) Acenaphthene-d10	14.334	164	2430	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5085	0.400	ng	0.01
29) Chrysene-d12	21.268	240	4539	0.400	ng	0.00
35) Perylene-d12	23.511	264	4155	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	770	0.198	ng	0.00
5) Phenol-d6	6.872	99	545	0.113	ng	0.00
8) Nitrobenzene-d5	8.843	82	1507	0.331	ng	0.00
11) 2-Methylnaphthalene-d10	12.070	152	2477	0.398	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	529	0.480	ng	0.00
15) 2-Fluorobiphenyl	12.958	172	6138	0.434	ng	0.00
27) Fluoranthene-d10	19.113	212	6590	0.506	ng	0.00
31) Terphenyl-d14	19.717	244	5322	0.489	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	13527	7.302	ng	98
25) Phenanthrene	17.124	178	308	0.020	ng	# 86
34) Bis(2-ethylhexyl)phtha...	21.187	149	1089	0.097	ng	98

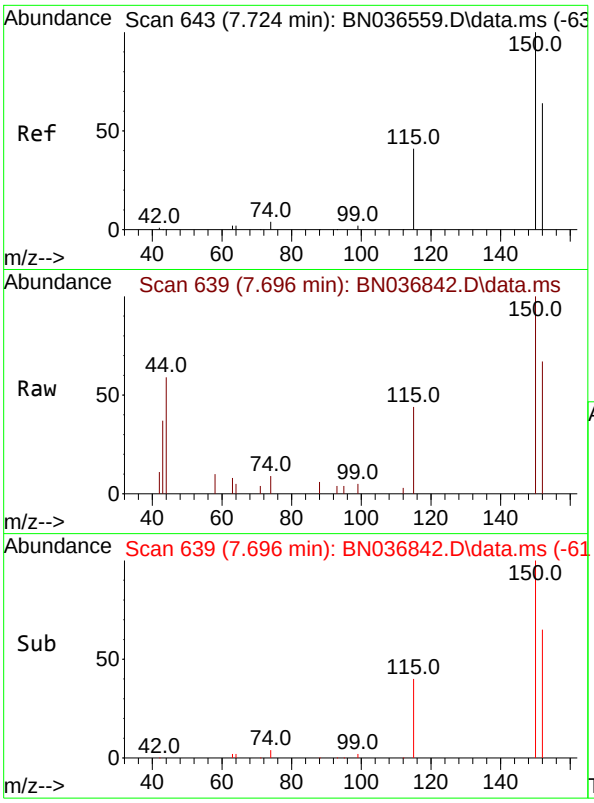
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036842.D
Acq On : 04 Apr 2025 19:10
Operator : RC/JU
Sample : Q1731-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Quant Time: Apr 04 22:49:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration



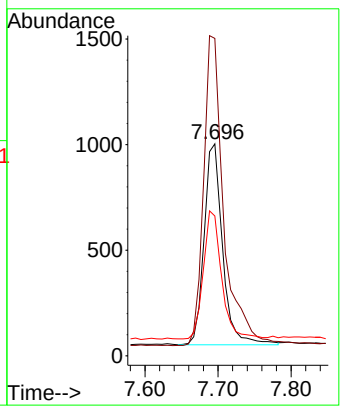


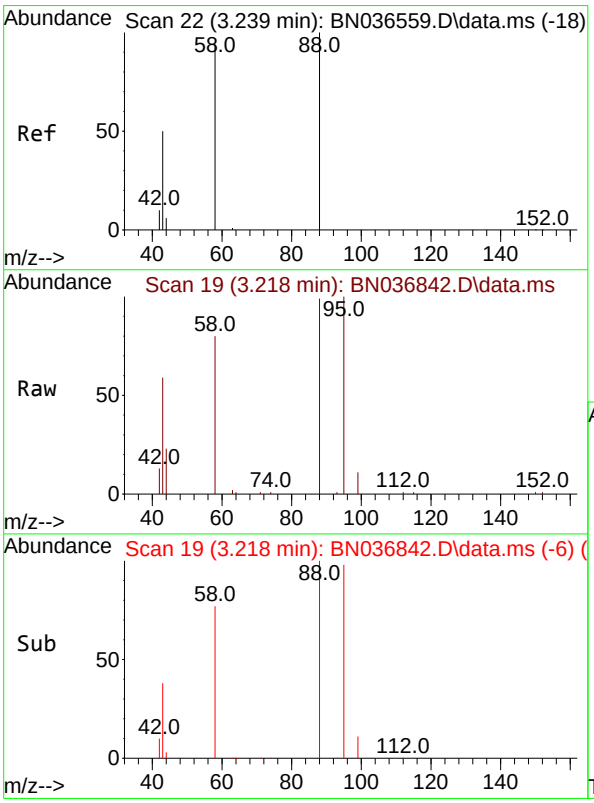
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. 0.008 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Tgt Ion:152 Resp: 1670

Ion	Ratio	Lower	Upper
152	100		
150	149.7	123.7	185.5
115	65.9	54.3	81.5

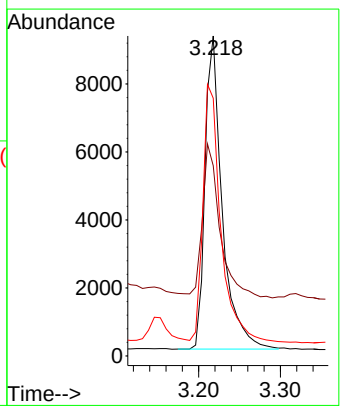


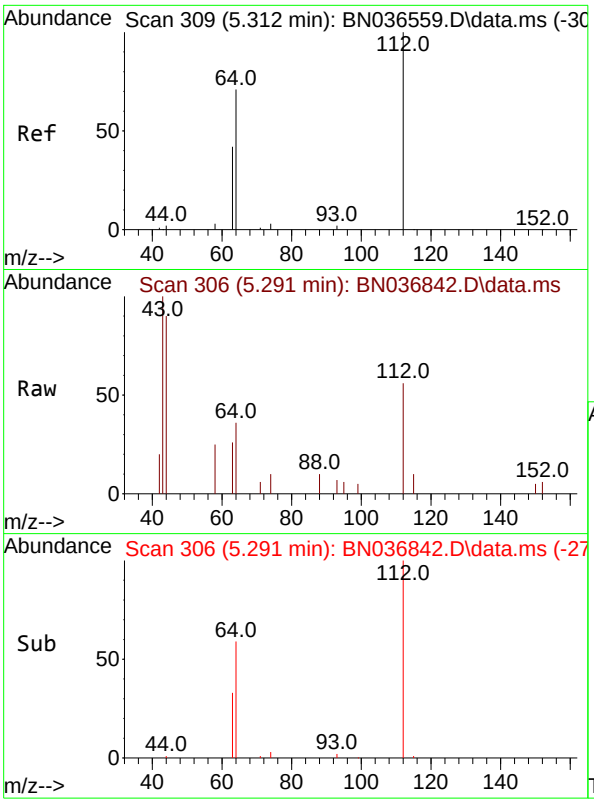


#2
1,4-Dioxane
Concen: 7.302 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.007 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Tgt Ion: 88 Resp: 13527

Ion	Ratio	Lower	Upper
88	100		
43	50.4	37.8	56.8
58	84.9	67.4	101.2



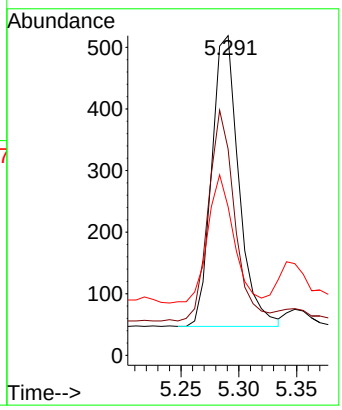


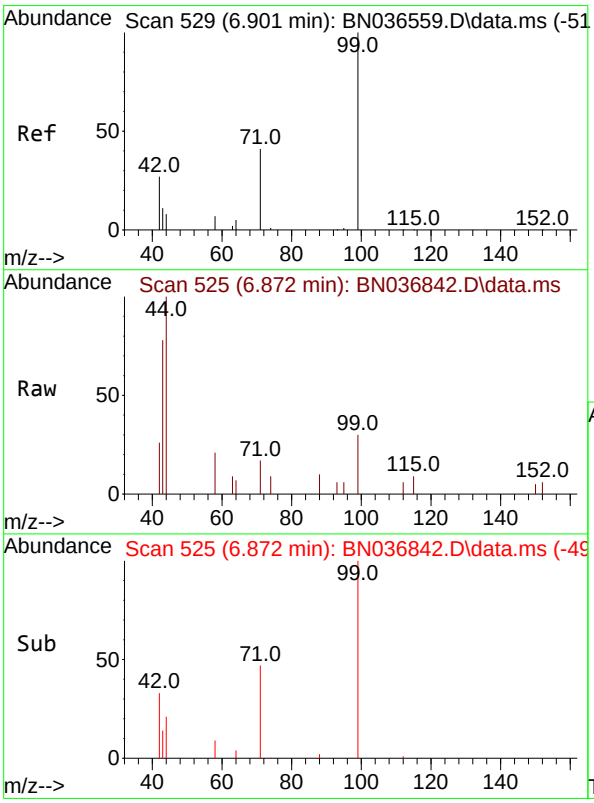
#4
2-Fluorophenol
Concen: 0.198 ng
RT: 5.291 min Scan# 3
Delta R.T. 0.007 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Tgt Ion:112 Resp: 770

Ion	Ratio	Lower	Upper
112	100		
64	69.7	53.1	79.7
63	42.9	31.8	47.8

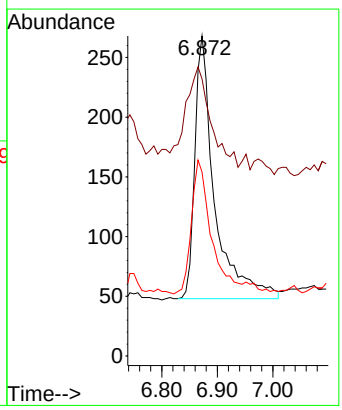


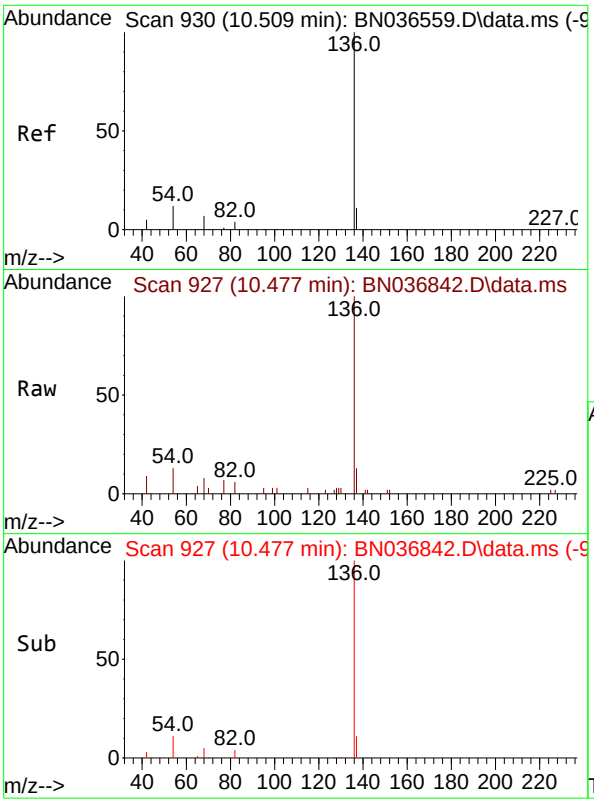


#5
Phenol-d6
Concen: 0.113 ng
RT: 6.872 min Scan# 525
Delta R.T. 0.007 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Tgt Ion: 99 Resp: 545

Ion	Ratio	Lower	Upper
99	100		
42	48.3	26.5	39.7#
71	50.8	34.1	51.1



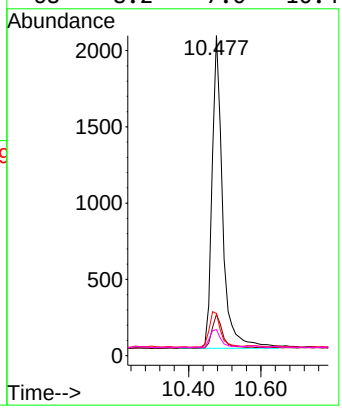


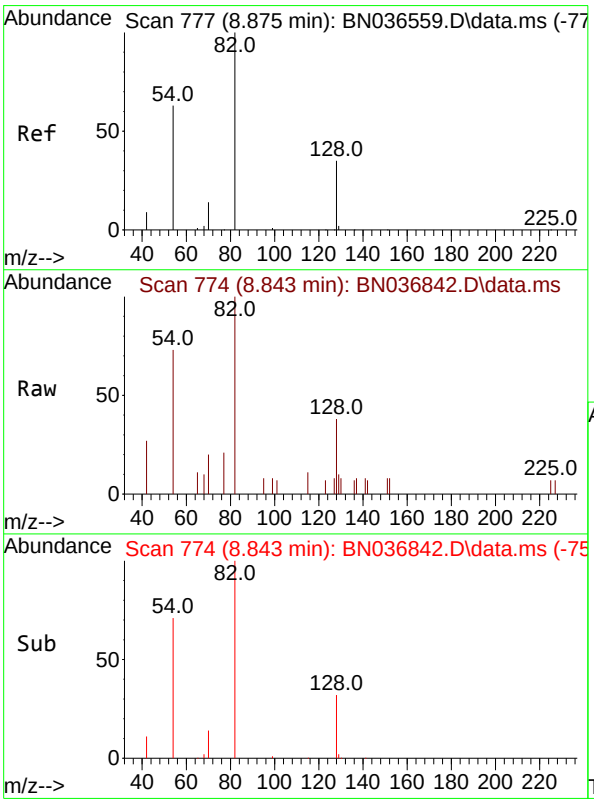
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Tgt Ion:136 Resp: 4185

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	13.2	11.5	17.3
68	8.2	7.0	10.4

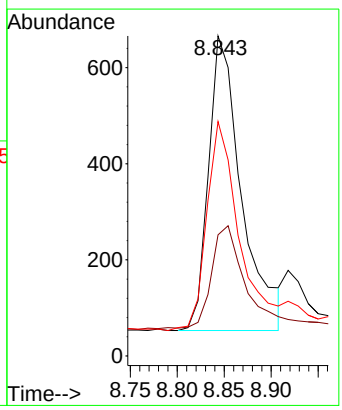


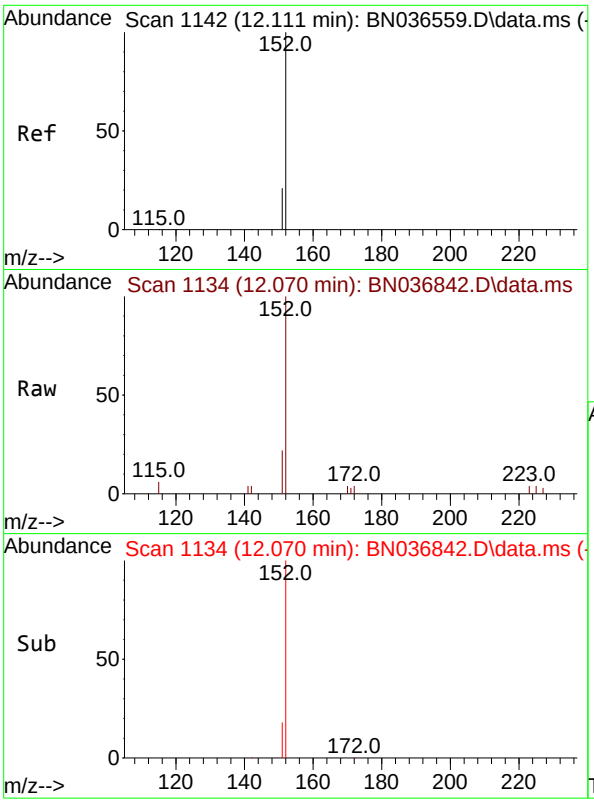


#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.843 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Tgt Ion: 82 Resp: 1507

Ion	Ratio	Lower	Upper
82	100		
128	37.8	30.6	45.8
54	73.3	52.2	78.4



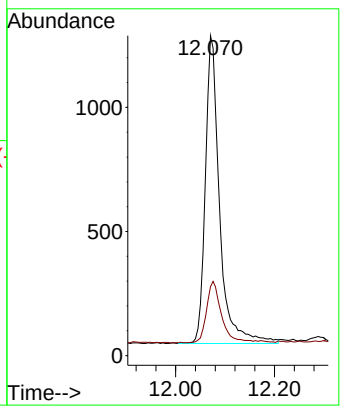


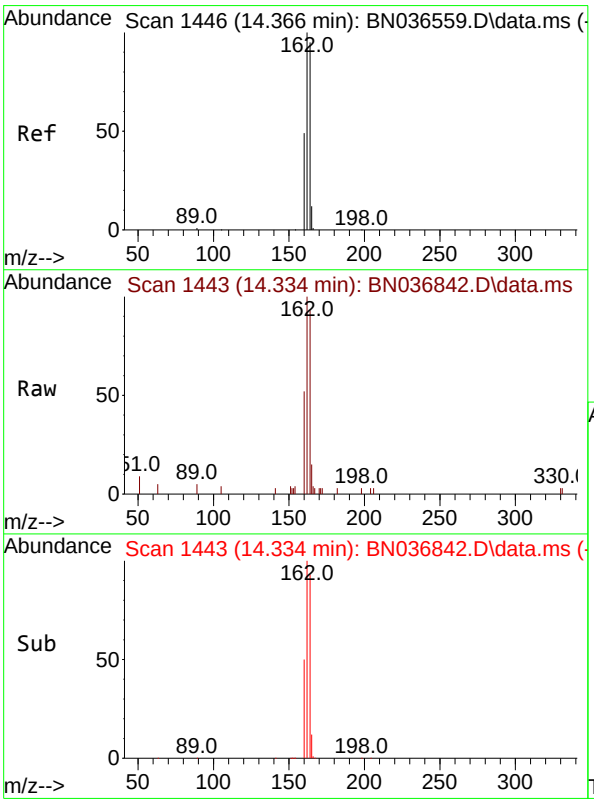
#11
2-Methylnaphthalene-d10
Concen: 0.398 ng
RT: 12.070 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Tgt Ion:152 Resp: 2477

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

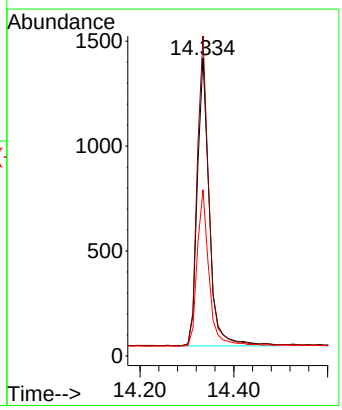


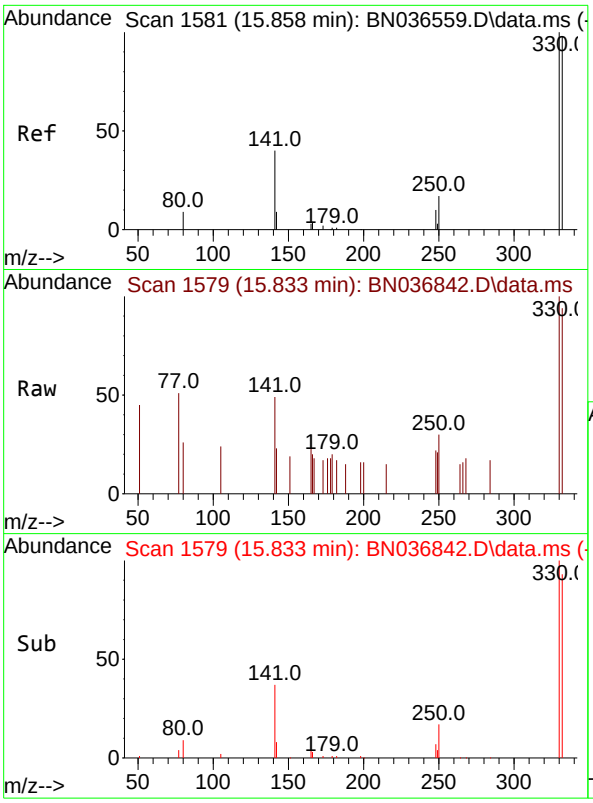


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Tgt Ion:164 Resp: 2430

Ion	Ratio	Lower	Upper
164	100		
162	107.4	84.2	126.2
160	55.8	42.2	63.2



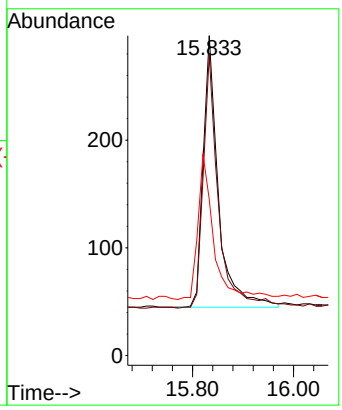


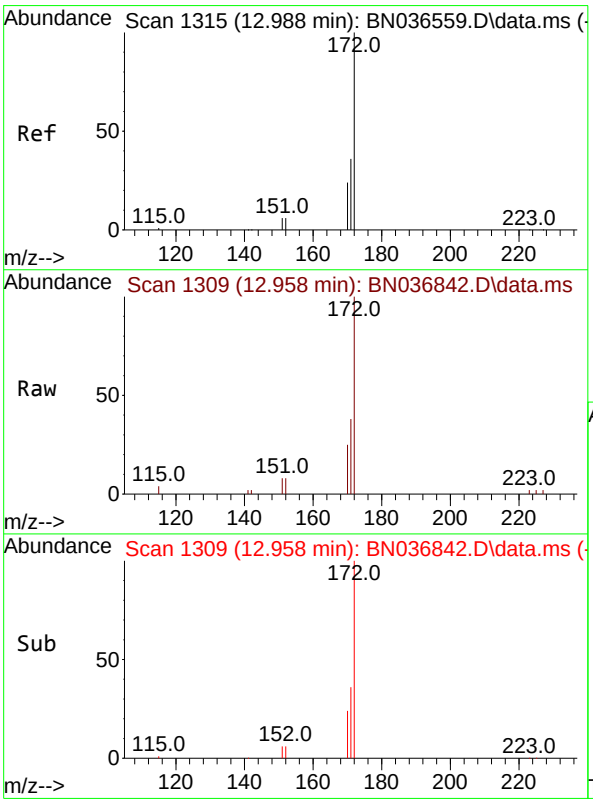
#14
2,4,6-Tribromophenol
Concen: 0.480 ng
RT: 15.833 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Tgt Ion:330 Resp: 529

Ion	Ratio	Lower	Upper
330	100		
332	93.4	75.2	112.8
141	56.3	43.4	65.2

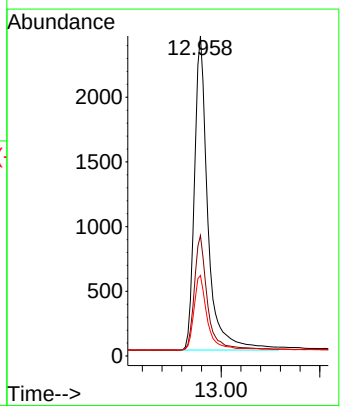


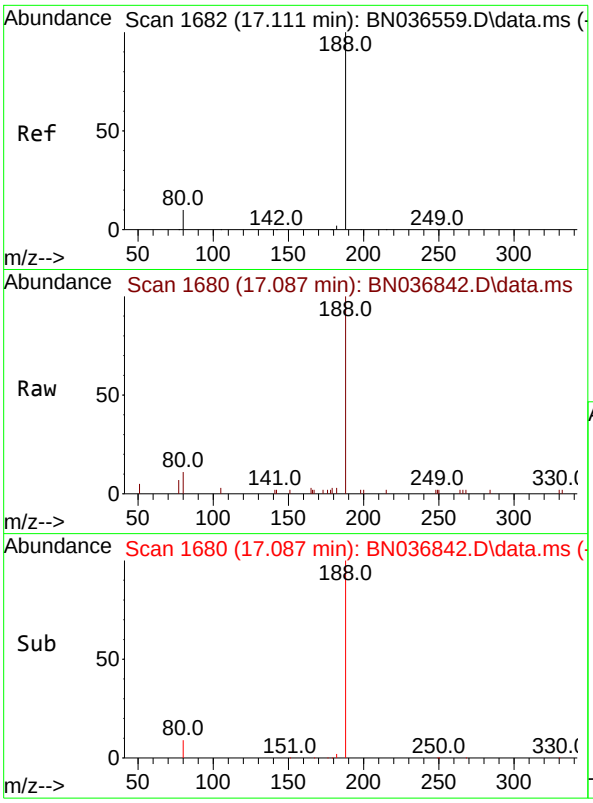


#15
2-Fluorobiphenyl
Concen: 0.434 ng
RT: 12.958 min Scan# 1309
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Tgt Ion:172 Resp: 6138

Ion	Ratio	Lower	Upper
172	100		
171	37.7	29.5	44.3
170	25.1	20.2	30.4



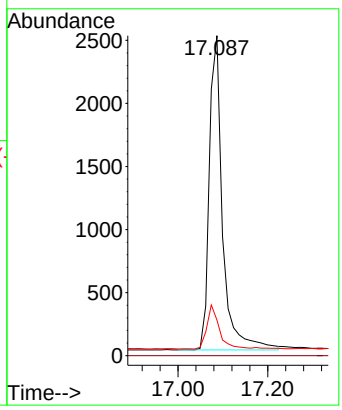


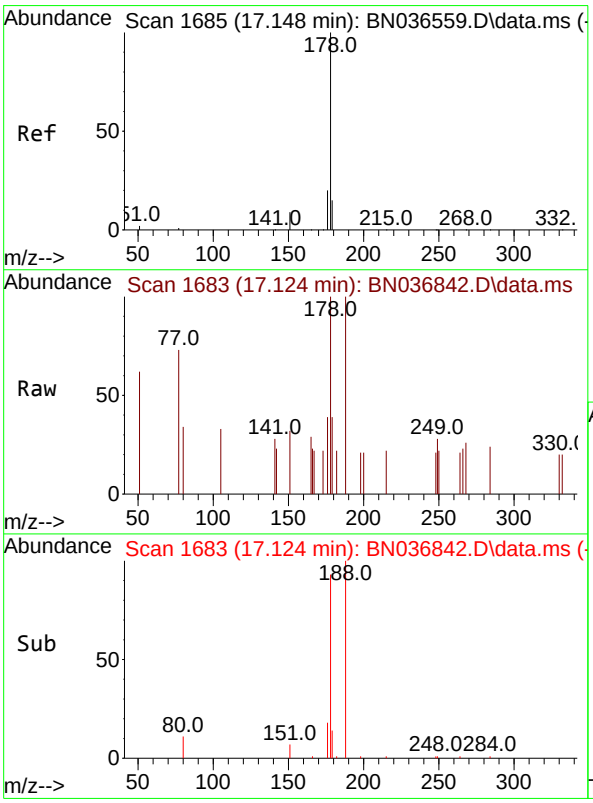
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Tgt Ion:188 Resp: 5085

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.2	8.8	13.2

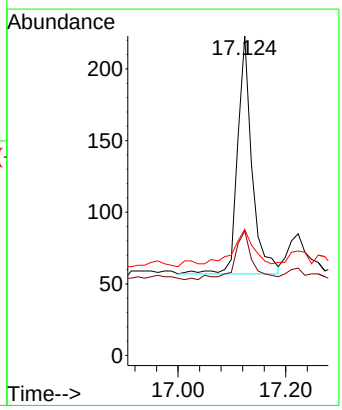


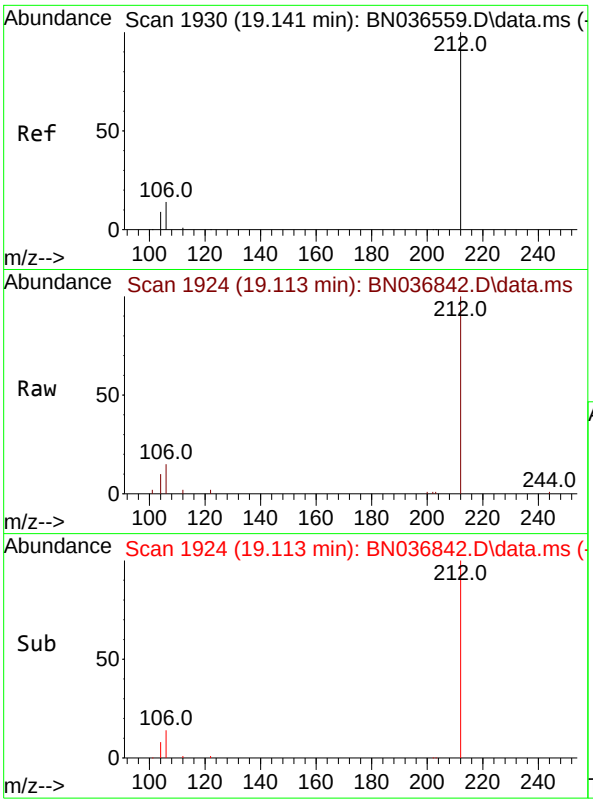


#25
Phenanthrene
Concen: 0.020 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Tgt Ion:178 Resp: 308

Ion	Ratio	Lower	Upper
178	100		
176	25.3	15.9	23.9#
179	22.4	12.2	18.4#



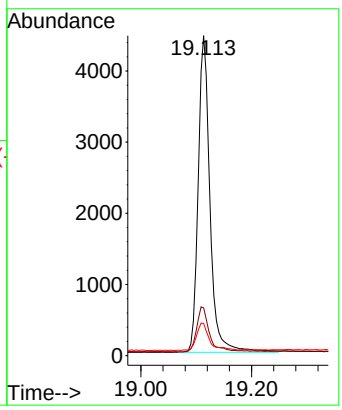


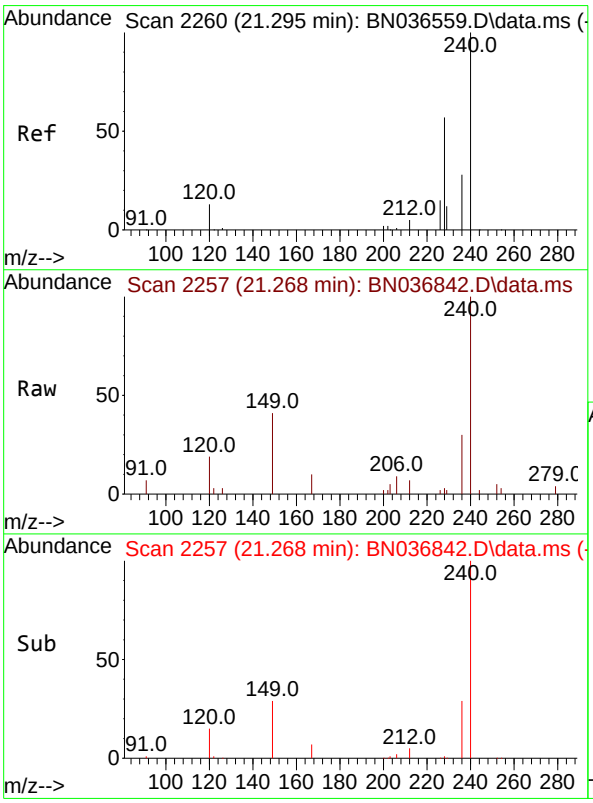
#27
Fluoranthene-d10
Concen: 0.506 ng
RT: 19.113 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Tgt Ion:212 Resp: 6590

Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.8	17.6
104	9.4	7.3	10.9

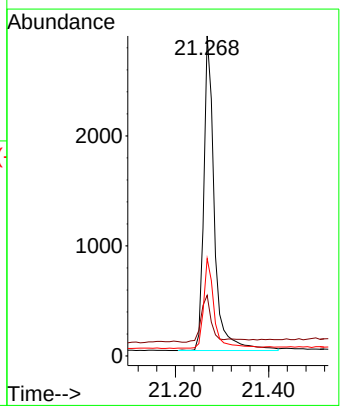


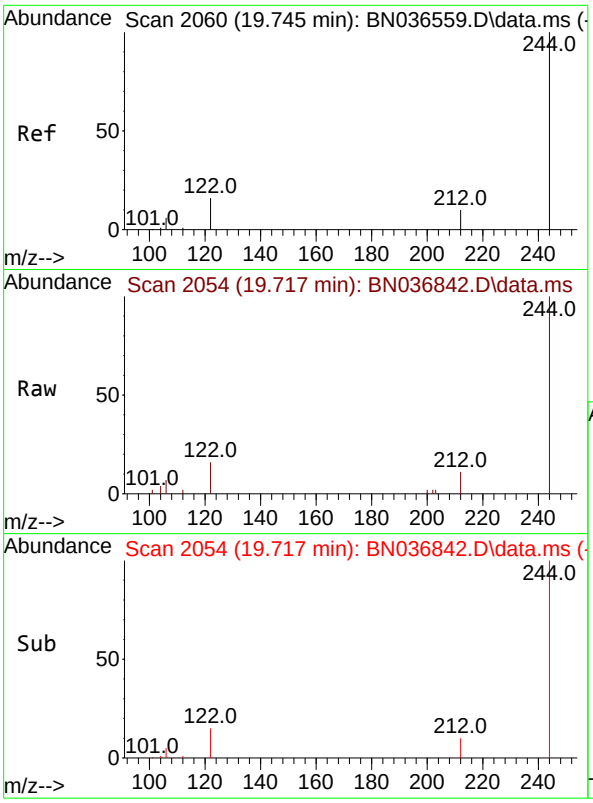


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Tgt Ion:240 Resp: 4539

Ion	Ratio	Lower	Upper
240	100		
120	18.9	14.6	22.0
236	30.4	24.1	36.1



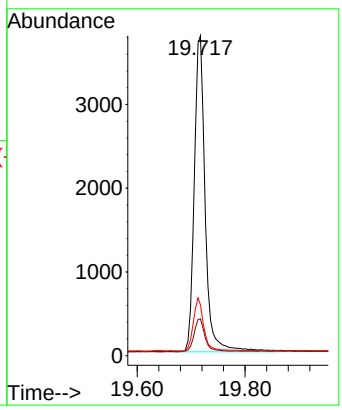


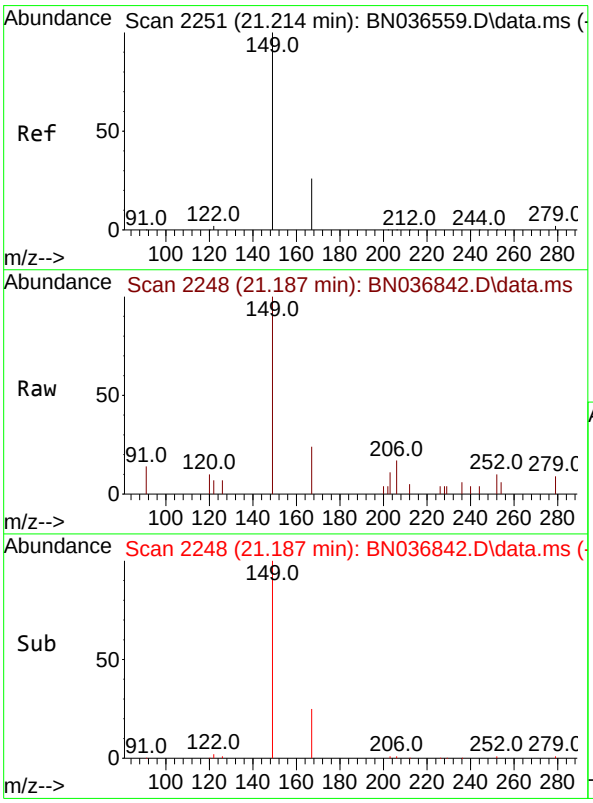
#31
Terphenyl-d14
Concen: 0.489 ng
RT: 19.717 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Tgt Ion:244 Resp: 5322

Ion	Ratio	Lower	Upper
244	100		
212	11.5	9.6	14.4
122	15.9	13.9	20.9

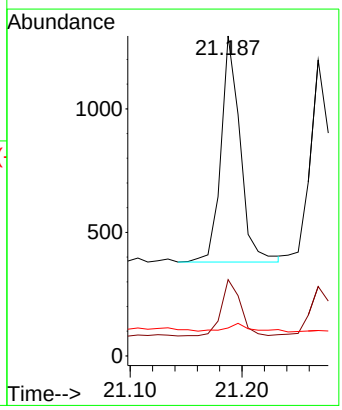


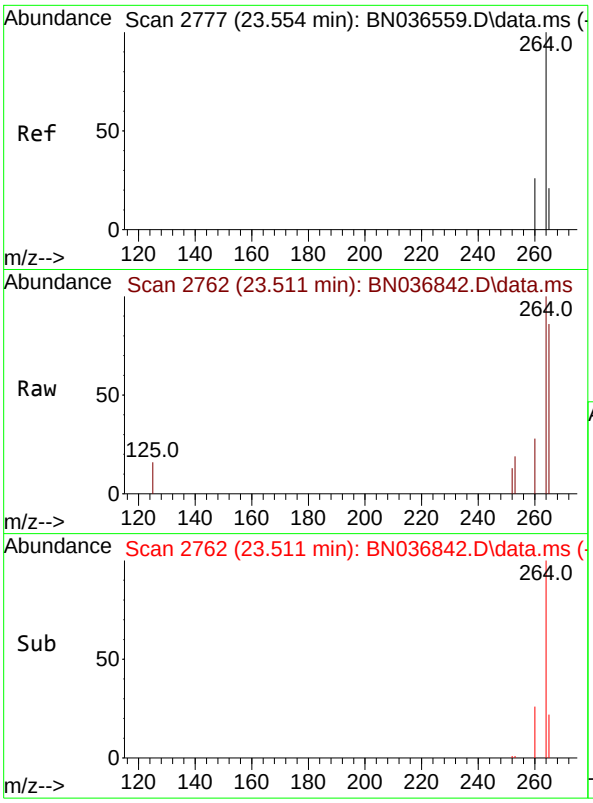


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 21.187 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Tgt Ion:149 Resp: 1089

Ion	Ratio	Lower	Upper
149	100		
167	24.9	20.7	31.1
279	5.1	3.6	5.4



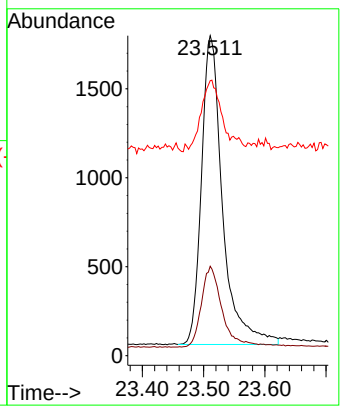


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.511 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036842.D
Acq: 04 Apr 2025 19:10

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325

Tgt Ion:264 Resp: 4155

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.6	33.8
265	85.9	88.1	132.1#



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/03/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/03/25
Client Sample ID:	RMW-03B-90-040325DL	SDG No.:	Q1731
Lab Sample ID:	Q1731-04DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036849.D	5	04/04/25 11:35	04/07/25 10:22	PB167468

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	9.50	D	0.35	1.00	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.47		30 (20) - 150 (139)	117%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.60		30 (30) - 150 (150)	149%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		30 (27) - 130 (154)	109%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		30 (25) - 130 (149)	101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	30 (54) - 130 (175)	145%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1420	7.695			
1146-65-2	Naphthalene-d8	3370	10.487			
15067-26-2	Acenaphthene-d10	2090	14.334			
1517-22-2	Phenanthrene-d10	4260	17.086			
1719-03-5	Chrysene-d12	3830	21.277			
1520-96-3	Perylene-d12	3500	23.519			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036849.D
Acq On : 07 Apr 2025 10:22
Operator : RC/JU
Sample : Q1731-04DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Quant Time: Apr 07 10:46:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

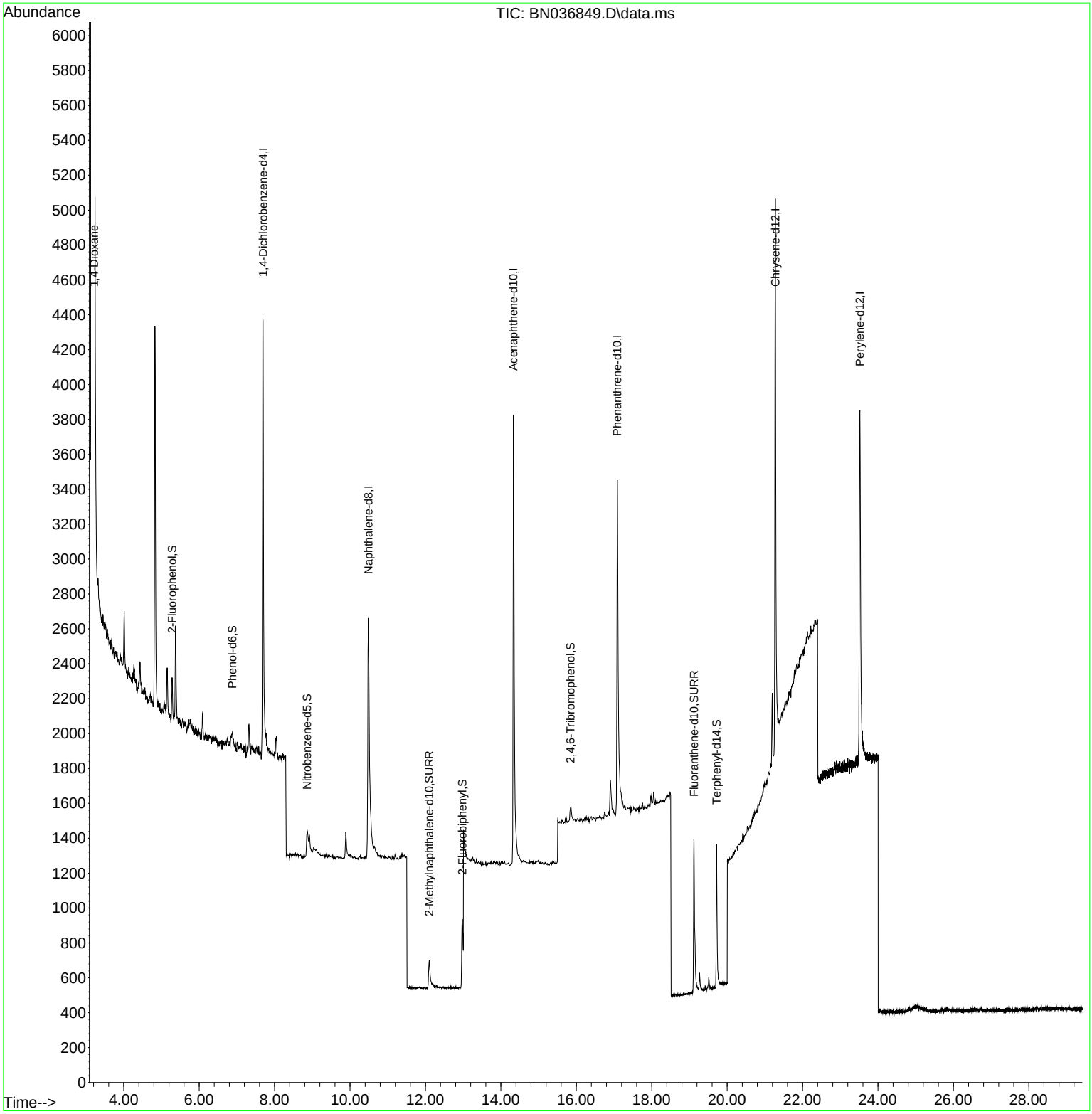
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1423	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	3367	0.400	ng	# 0.01
13) Acenaphthene-d10	14.334	164	2092	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4259	0.400	ng	# 0.01
29) Chrysene-d12	21.277	240	3832	0.400	ng	0.00
35) Perylene-d12	23.519	264	3500	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	163	0.049	ng	0.00
5) Phenol-d6	6.879	99	106	0.026	ng	0.01
8) Nitrobenzene-d5	8.864	82	318	0.087	ng	0.02
11) 2-Methylnaphthalene-d10	12.101	152	469	0.094	ng	0.03
14) 2,4,6-Tribromophenol	15.845	330	110	0.116	ng	0.01
15) 2-Fluorobiphenyl	12.978	172	982	0.081	ng	0.02
27) Fluoranthene-d10	19.122	212	1303	0.119	ng	0.00
31) Terphenyl-d14	19.722	244	1067	0.116	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	2931	1.857	ng	96

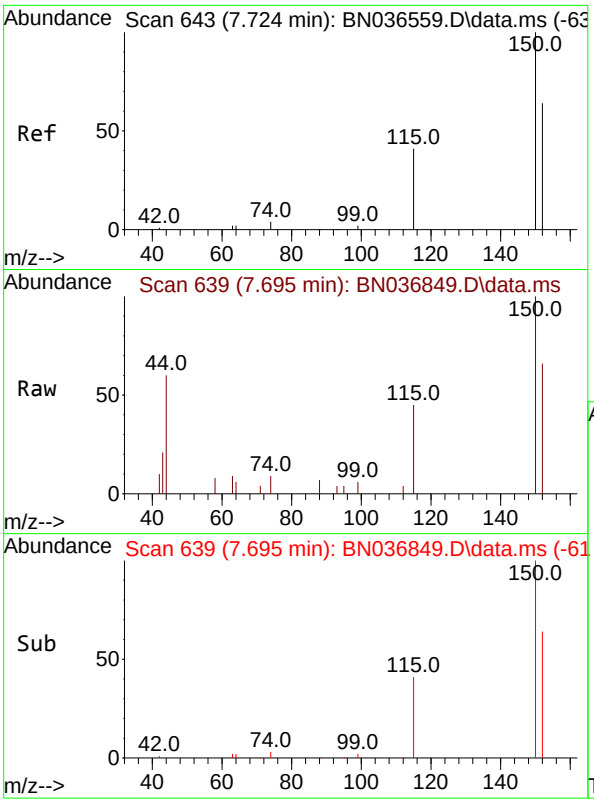
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036849.D
Acq On : 07 Apr 2025 10:22
Operator : RC/JU
Sample : Q1731-04DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Quant Time: Apr 07 10:46:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration



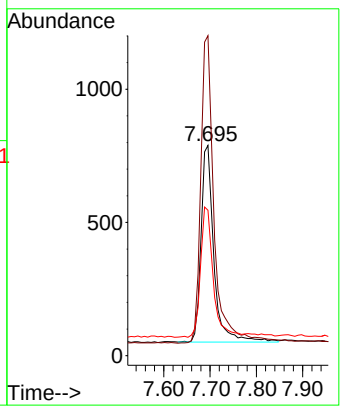


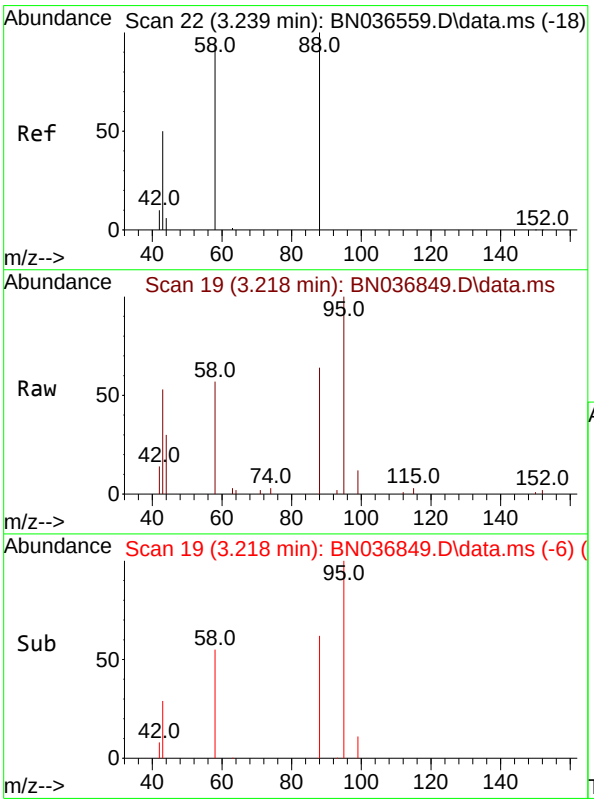
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Tgt Ion:152 Resp: 1423

Ion	Ratio	Lower	Upper
152	100		
150	152.2	123.7	185.5
115	69.2	54.3	81.5

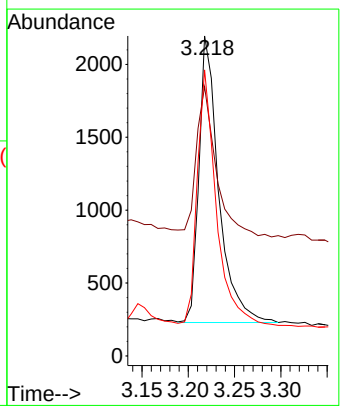


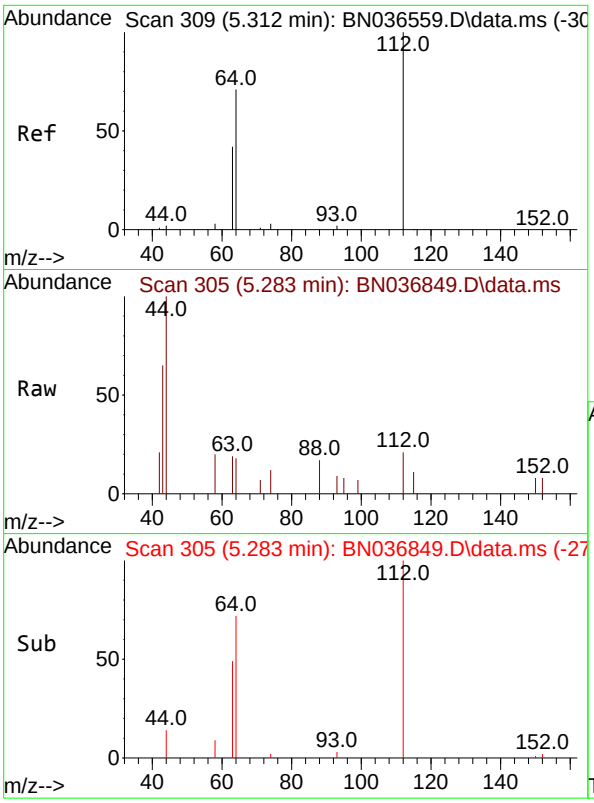


#2
1,4-Dioxane
Concen: 1.857 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.007 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Tgt Ion: 88 Resp: 2931

Ion	Ratio	Lower	Upper
88	100		
43	52.9	37.8	56.8
58	86.1	67.4	101.2



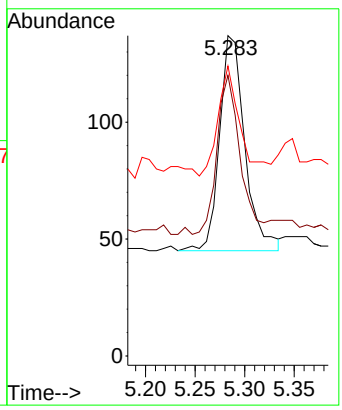


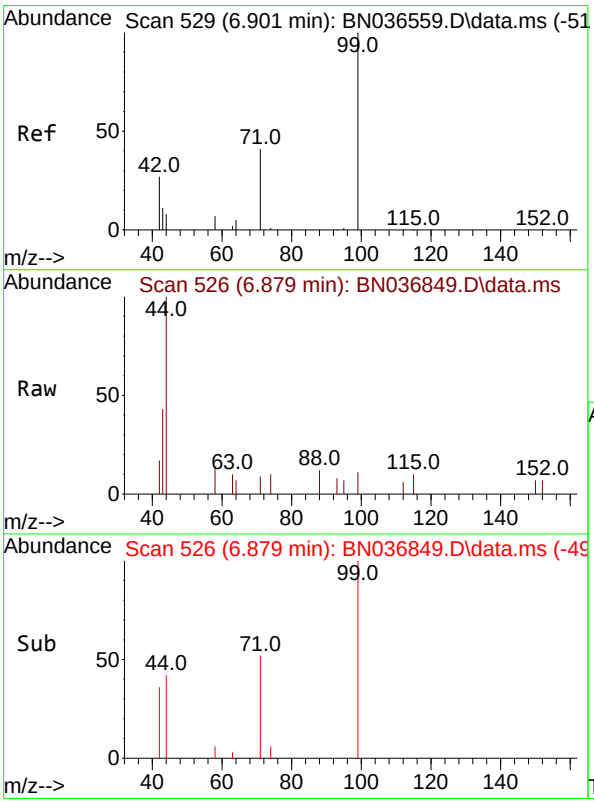
#4
2-Fluorophenol
Concen: 0.049 ng
RT: 5.283 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Tgt Ion:112 Resp: 163

Ion	Ratio	Lower	Upper
112	100		
64	68.1	53.1	79.7
63	41.7	31.8	47.8

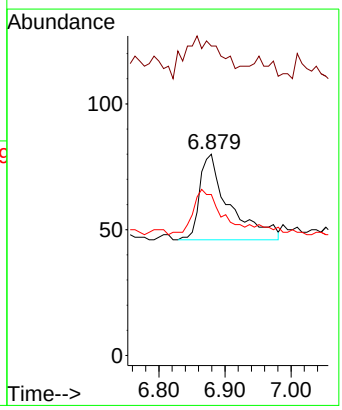


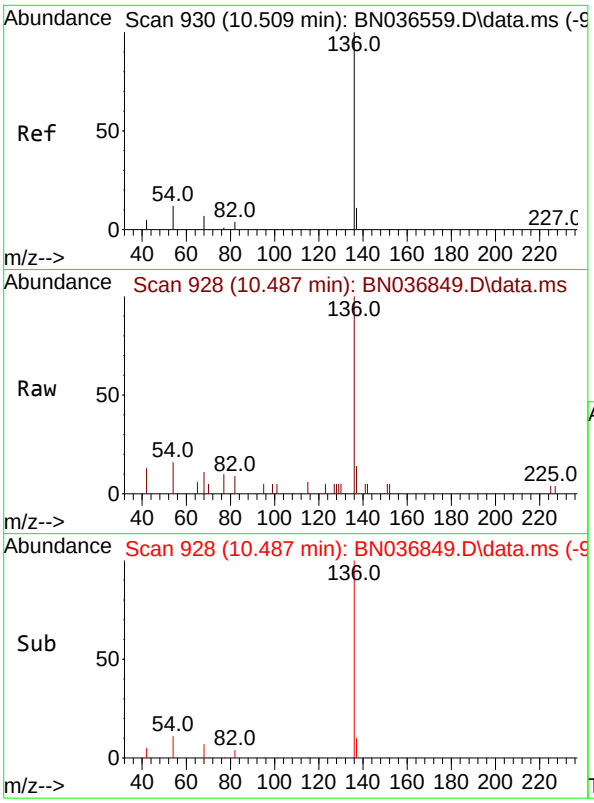


#5
Phenol-d6
Concen: 0.026 ng
RT: 6.879 min Scan# 526
Delta R.T. 0.014 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Tgt Ion: 99 Resp: 106

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



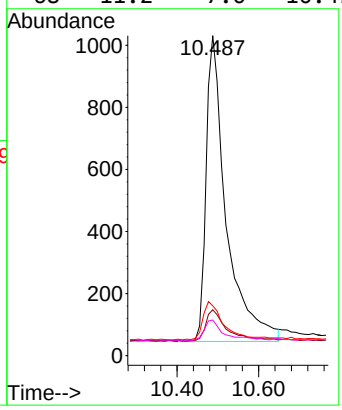


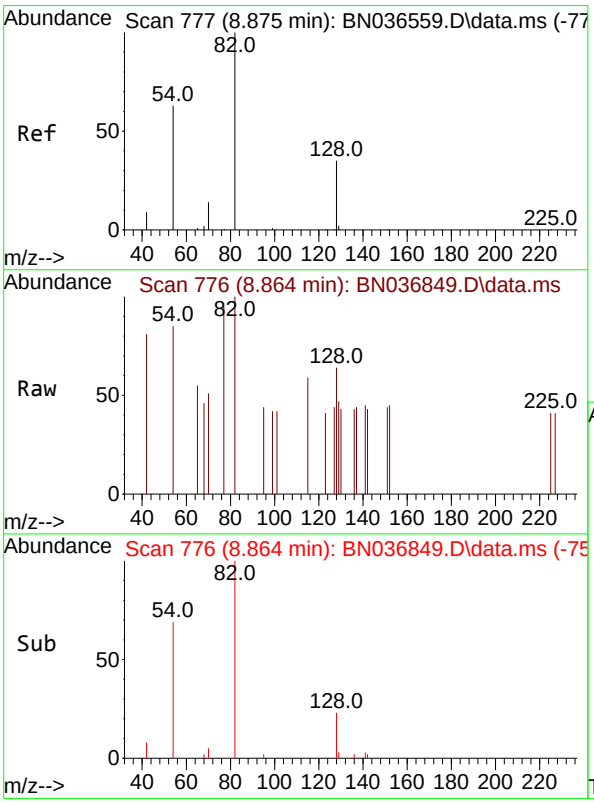
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Tgt Ion:136 Resp: 3367

Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.3	15.5
54	15.6	11.5	17.3
68	11.2	7.0	10.4#

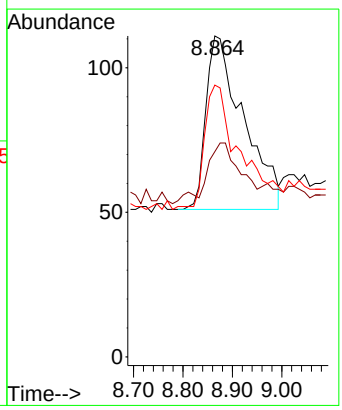


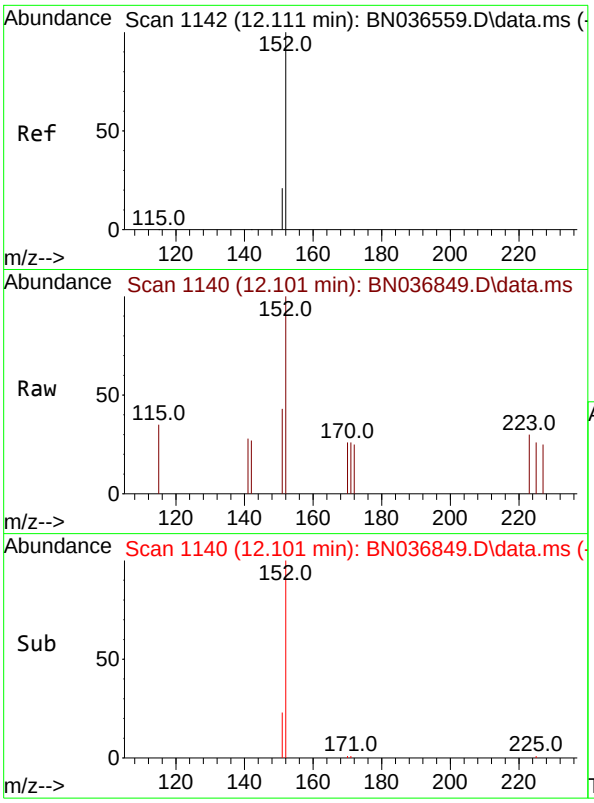


#8
Nitrobenzene-d5
Concen: 0.087 ng
RT: 8.864 min Scan# 776
Delta R.T. 0.021 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Tgt Ion: 82 Resp: 318

Ion	Ratio	Lower	Upper
82	100		
128	64.0	30.6	45.8#
54	84.7	52.2	78.4#



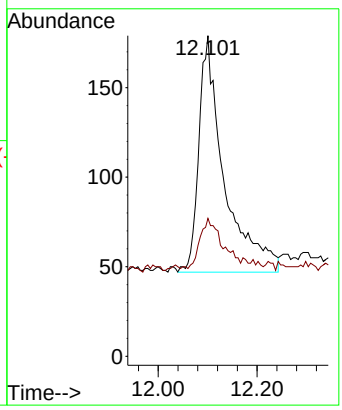


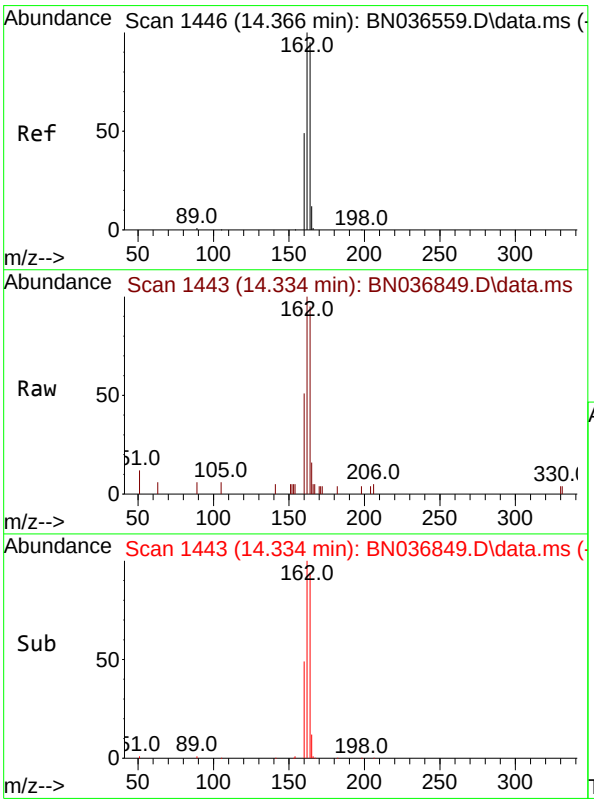
#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.101 min Scan# 11
Delta R.T. 0.030 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Tgt Ion:152 Resp: 469

Ion	Ratio	Lower	Upper
152	100		
151	18.6	17.0	25.6

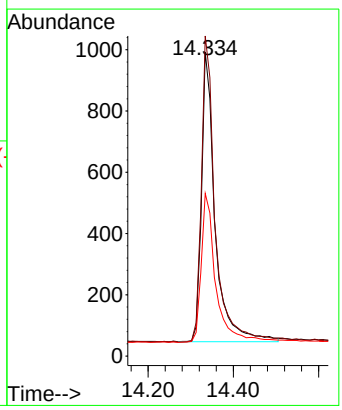


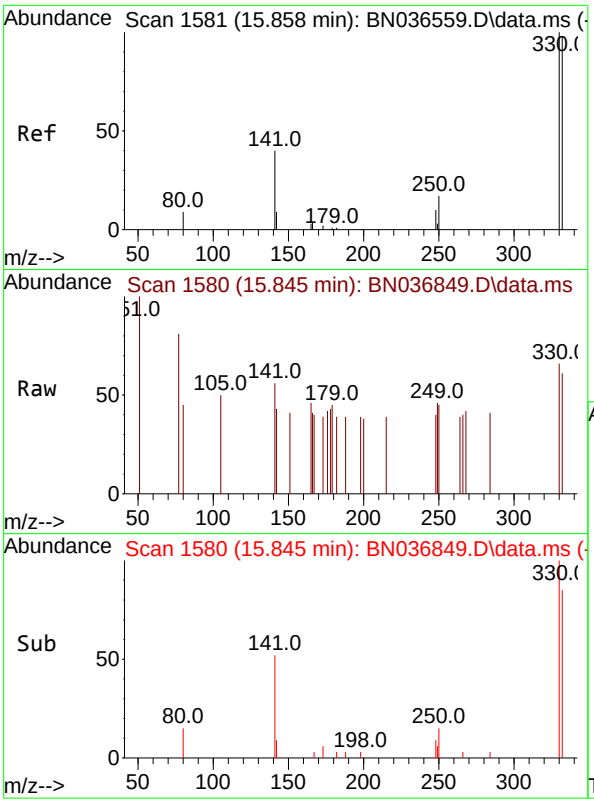


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Tgt Ion:164 Resp: 2092

Ion	Ratio	Lower	Upper
164	100		
162	105.3	84.2	126.2
160	53.5	42.2	63.2



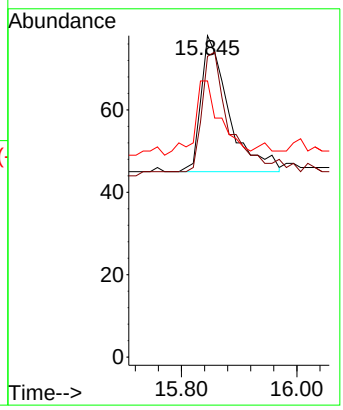


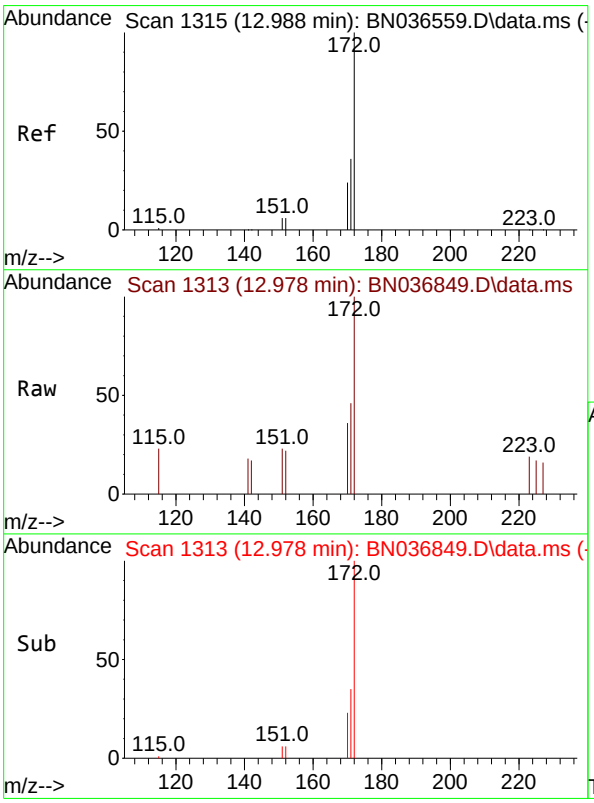
#14
2,4,6-Tribromophenol
Concen: 0.116 ng
RT: 15.845 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Tgt Ion:330 Resp: 110

Ion	Ratio	Lower	Upper
330	100		
332	83.6	75.2	112.8
141	0.0	43.4	65.2#

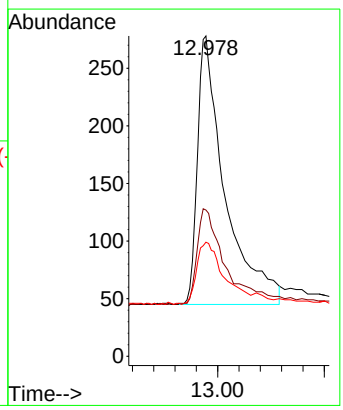


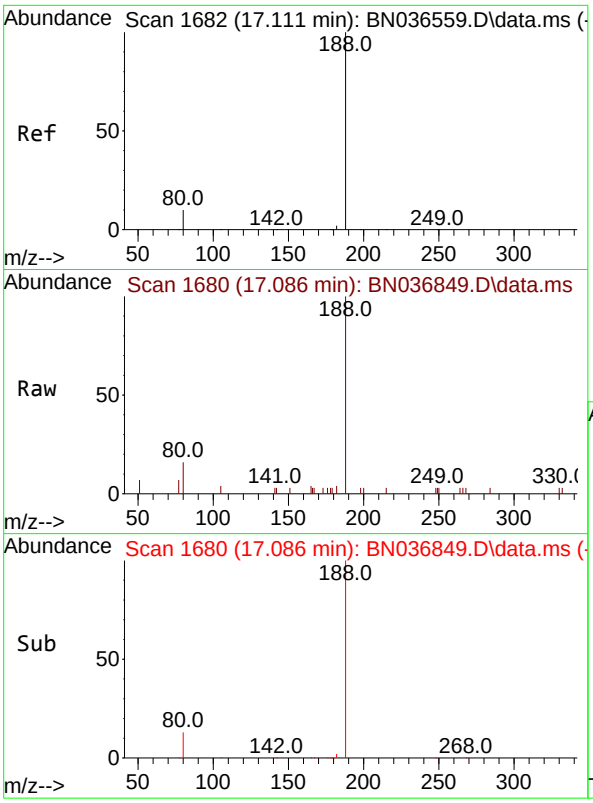


#15
2-Fluorobiphenyl
Concen: 0.081 ng
RT: 12.978 min Scan# 1313
Delta R.T. 0.020 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Tgt Ion:172 Resp: 982

Ion	Ratio	Lower	Upper
172	100		
171	45.7	29.5	44.3#
170	35.6	20.2	30.4#



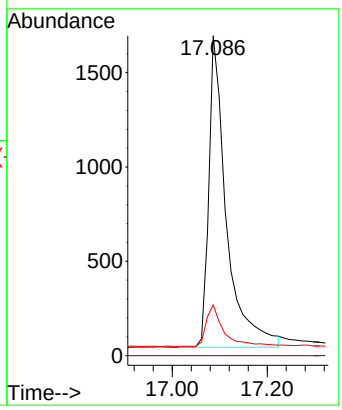


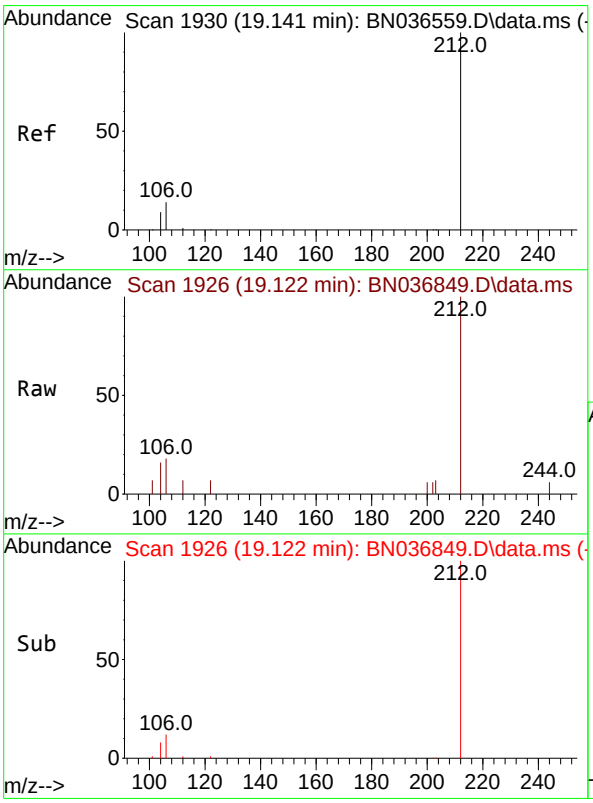
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Tgt Ion:188 Resp: 4259

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.9	8.8	13.2#

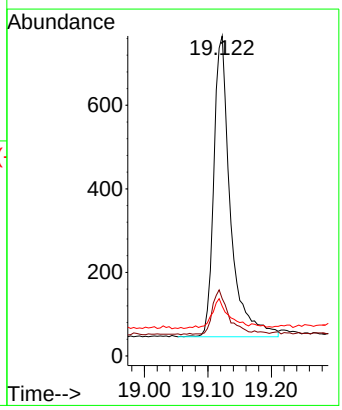


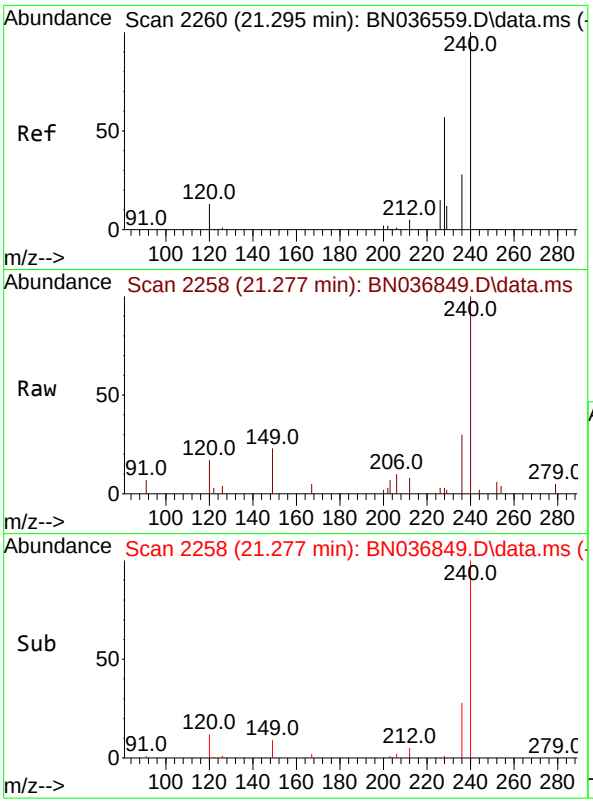


#27
Fluoranthene-d10
Concen: 0.119 ng
RT: 19.122 min Scan# 1926
Delta R.T. 0.009 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Tgt Ion:212 Resp: 1303

Ion	Ratio	Lower	Upper
212	100		
106	13.7	11.8	17.6
104	9.1	7.3	10.9



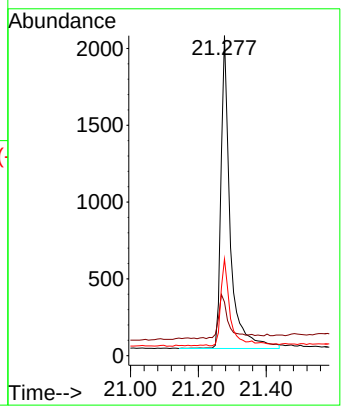


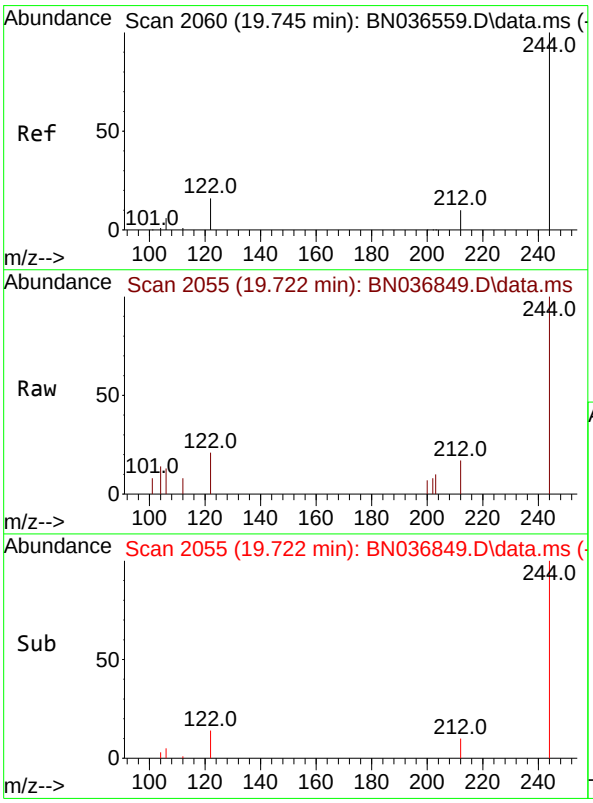
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Tgt Ion:240 Resp: 3832

Ion	Ratio	Lower	Upper
240	100		
120	16.8	14.6	22.0
236	30.2	24.1	36.1

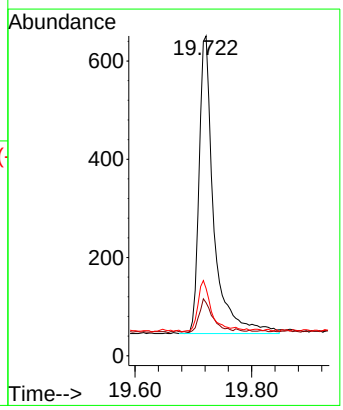


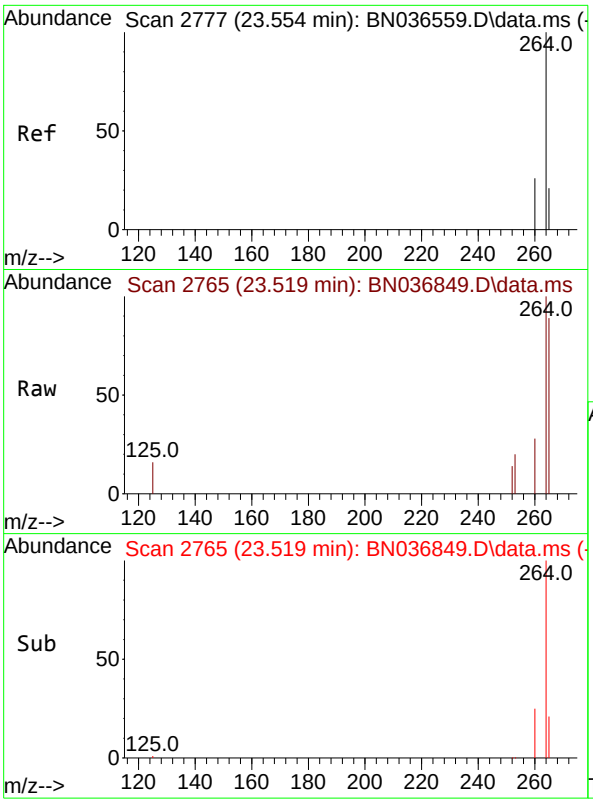


#31
Terphenyl-d14
Concen: 0.116 ng
RT: 19.722 min Scan# 2055
Delta R.T. 0.005 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Tgt Ion:244 Resp: 1067

Ion	Ratio	Lower	Upper
244	100		
212	16.6	9.6	14.4#
122	21.0	13.9	20.9#



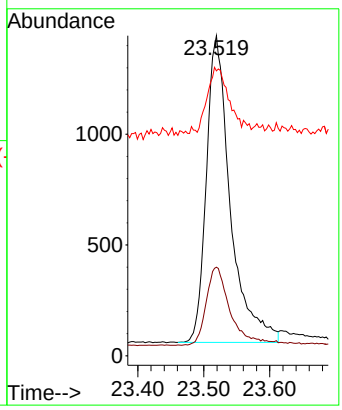


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036849.D
Acq: 07 Apr 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RMW-03B-90-040325DL

Tgt Ion:264 Resp: 3500

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	89.0	88.1	132.1



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/03/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/03/25
Client Sample ID:	EB01-040325	SDG No.:	Q1731
Lab Sample ID:	Q1731-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036843.D	1	04/04/25 11:35	04/04/25 19:46	PB167468

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.070	U	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.40		30 (20) - 150 (139)	100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.51		30 (30) - 150 (150)	128%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (27) - 130 (154)	88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		30 (25) - 130 (149)	103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		30 (54) - 130 (175)	120%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1620	7.696			
1146-65-2	Naphthalene-d8	4100	10.477			
15067-26-2	Acenaphthene-d10	2430	14.334			
1517-22-2	Phenanthrene-d10	5120	17.074			
1719-03-5	Chrysene-d12	4850	21.268			
1520-96-3	Perylene-d12	4310	23.508			

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\BN040425\
Data File : BN036843.D
Acq On : 04 Apr 2025 19:46
Operator : RC/JU
Sample : Q1731-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Quant Time: Apr 04 22:49:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

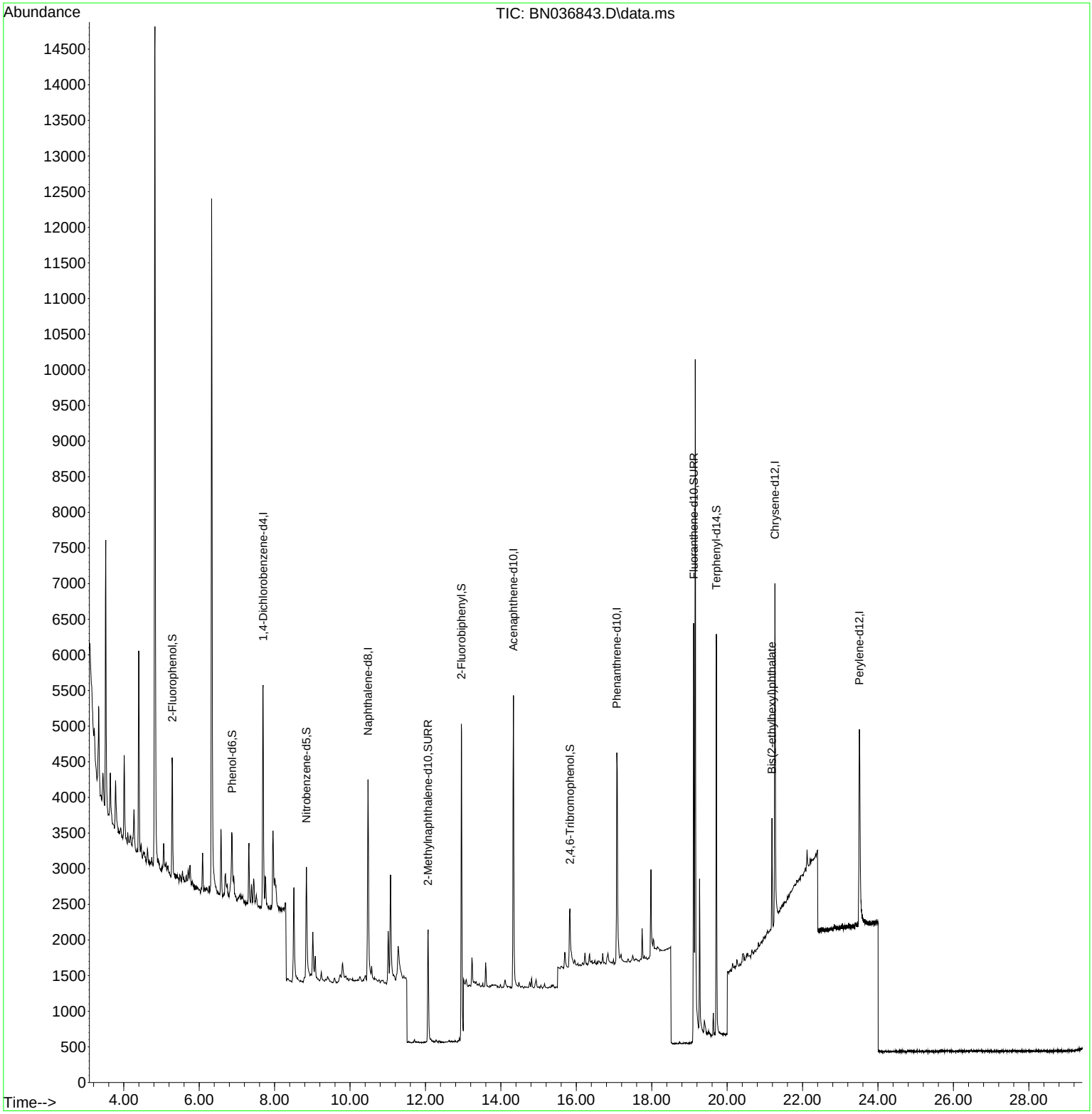
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1624	0.400	ng	0.00
7) Naphthalene-d8	10.477	136	4101	0.400	ng	0.00
13) Acenaphthene-d10	14.334	164	2430	0.400	ng	0.00
19) Phenanthrene-d10	17.074	188	5123	0.400	ng	# 0.00
29) Chrysene-d12	21.268	240	4847	0.400	ng	0.00
35) Perylene-d12	23.508	264	4314	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	1203	0.318	ng	0.00
5) Phenol-d6	6.872	99	962	0.206	ng	0.00
8) Nitrobenzene-d5	8.843	82	1575	0.353	ng	0.00
11) 2-Methylnaphthalene-d10	12.070	152	2439	0.400	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	565	0.512	ng	0.00
15) 2-Fluorobiphenyl	12.953	172	5843	0.413	ng	0.00
27) Fluoranthene-d10	19.113	212	6737	0.513	ng	0.00
31) Terphenyl-d14	19.712	244	5575	0.480	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.187	149	1349	0.112	ng	99

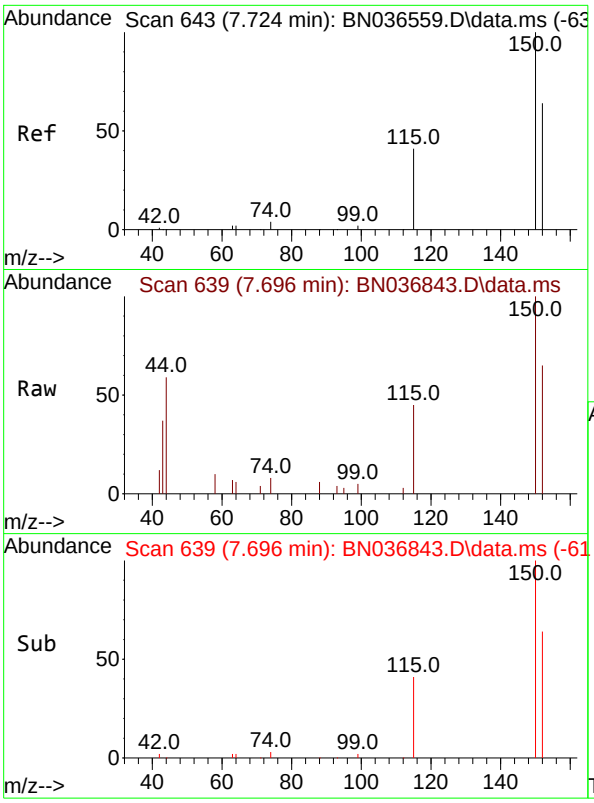
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036843.D
Acq On : 04 Apr 2025 19:46
Operator : RC/JU
Sample : Q1731-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Quant Time: Apr 04 22:49:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration



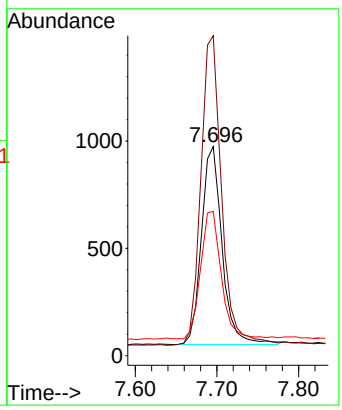


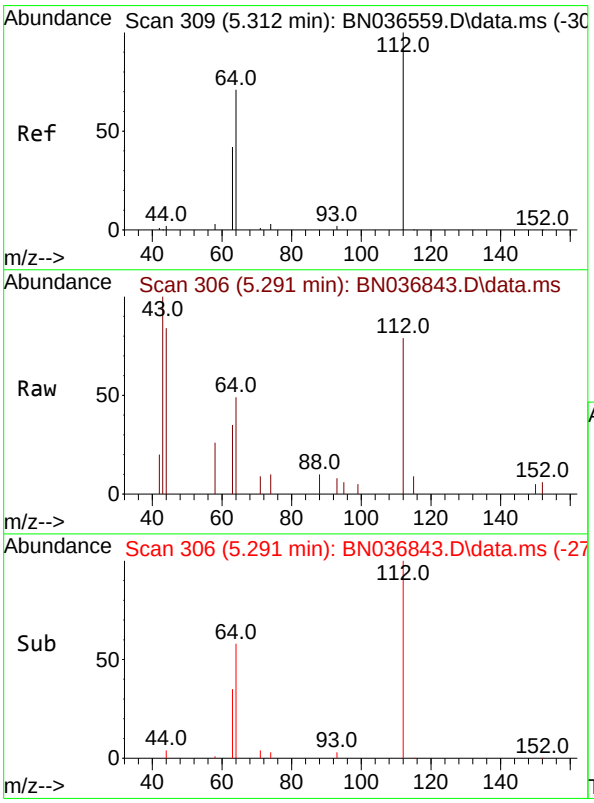
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. 0.008 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Tgt Ion:152 Resp: 1624

Ion	Ratio	Lower	Upper
152	100		
150	153.1	123.7	185.5
115	69.0	54.3	81.5

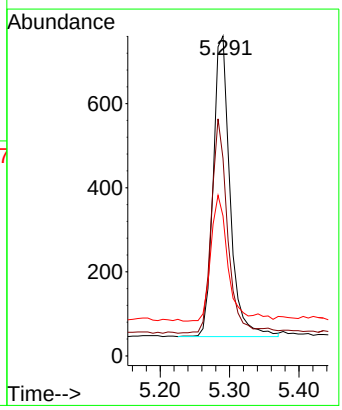


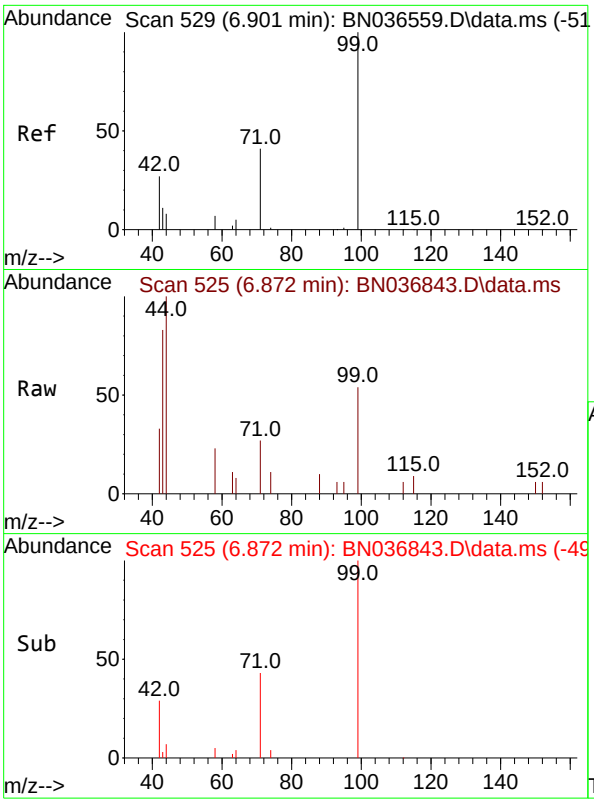


#4
2-Fluorophenol
Concen: 0.318 ng
RT: 5.291 min Scan# 306
Delta R.T. 0.007 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Tgt Ion:112 Resp: 1203

Ion	Ratio	Lower	Upper
112	100		
64	67.8	53.1	79.7
63	41.4	31.8	47.8



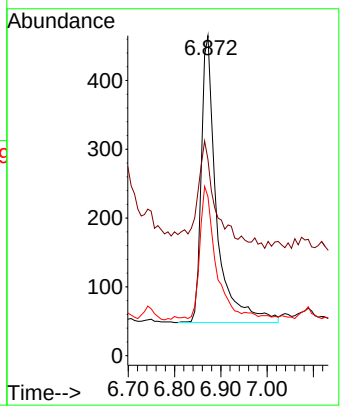


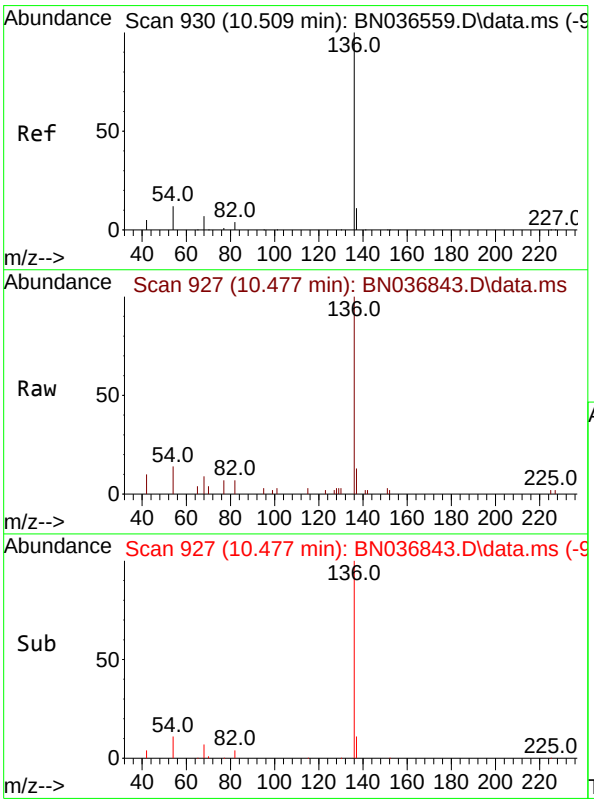
#5
Phenol-d6
Concen: 0.206 ng
RT: 6.872 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Tgt Ion: 99 Resp: 962

Ion	Ratio	Lower	Upper
99	100		
42	35.6	26.5	39.7
71	45.9	34.1	51.1

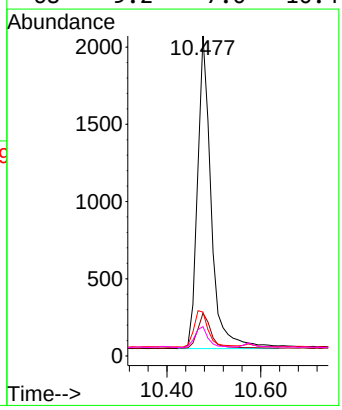


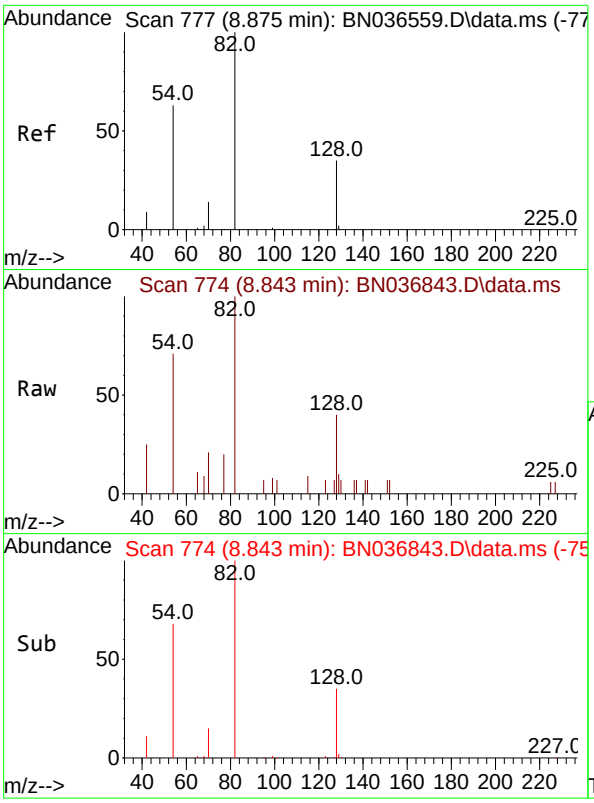


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 927
Delta R.T. -0.000 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Tgt Ion:136 Resp: 4101

Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	13.7	11.5	17.3
68	9.2	7.0	10.4



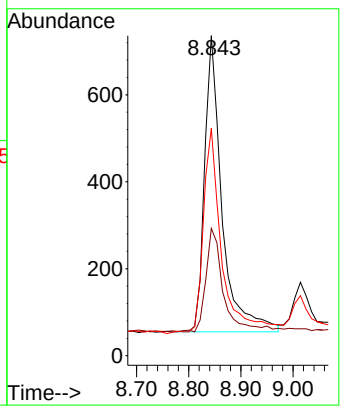


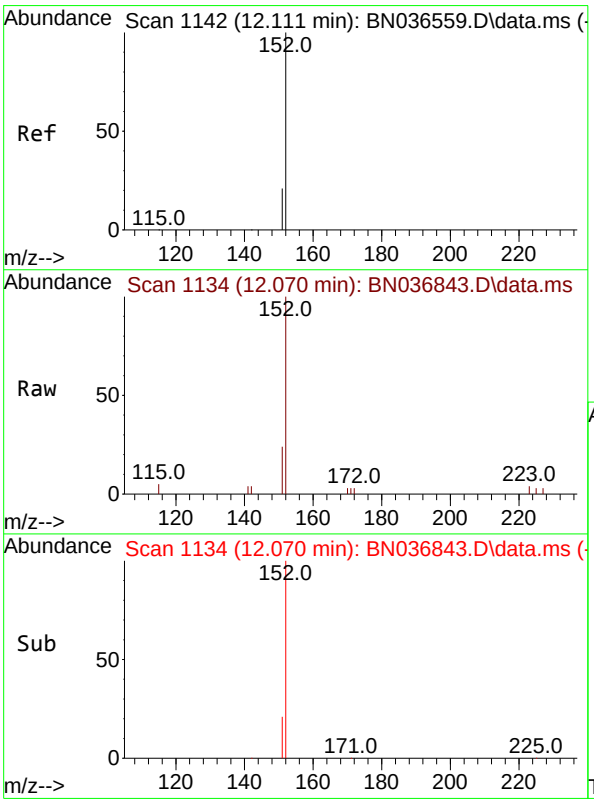
#8
Nitrobenzene-d5
Concen: 0.353 ng
RT: 8.843 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Tgt Ion: 82 Resp: 1575

Ion	Ratio	Lower	Upper
82	100		
128	39.8	30.6	45.8
54	71.1	52.2	78.4

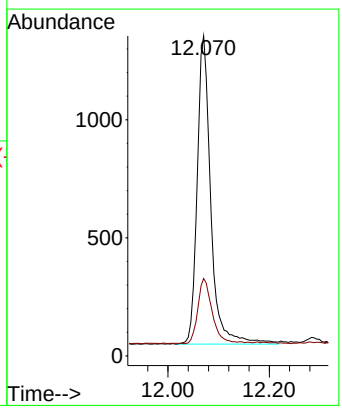


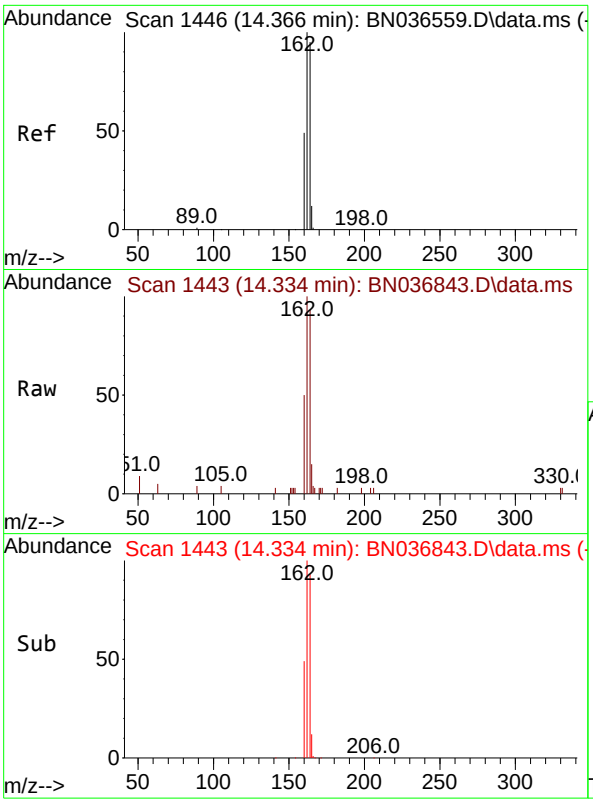


#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 12.070 min Scan# 1134
Delta R.T. -0.000 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Tgt Ion:152 Resp: 2439

Ion	Ratio	Lower	Upper
152	100		
151	22.5	17.0	25.6



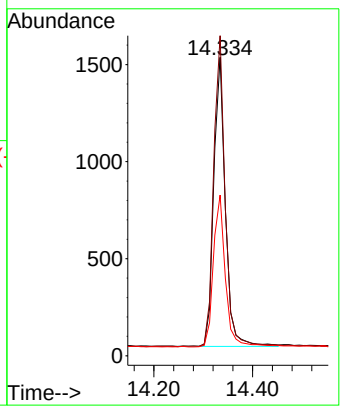


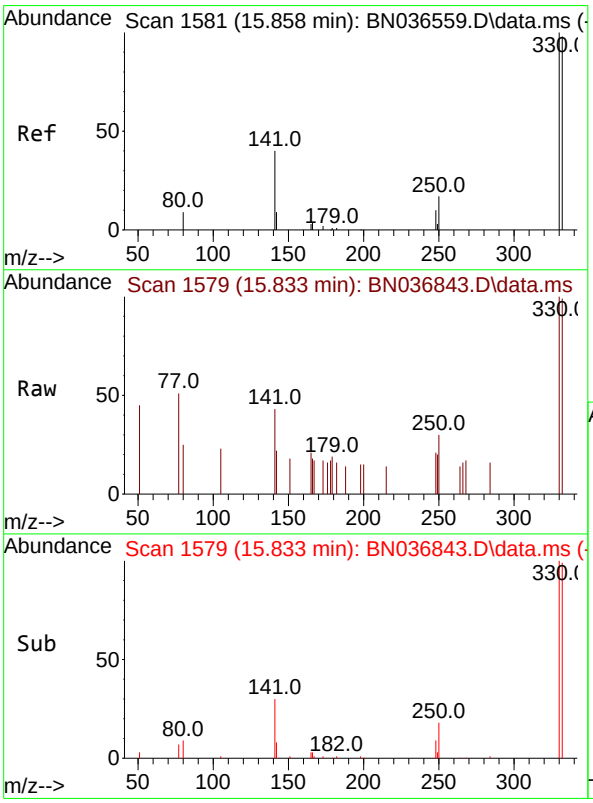
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Tgt Ion:164 Resp: 2430

Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.2
160	53.8	42.2	63.2

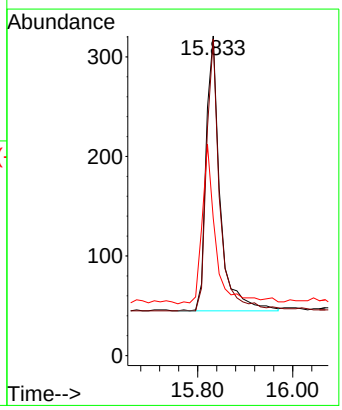


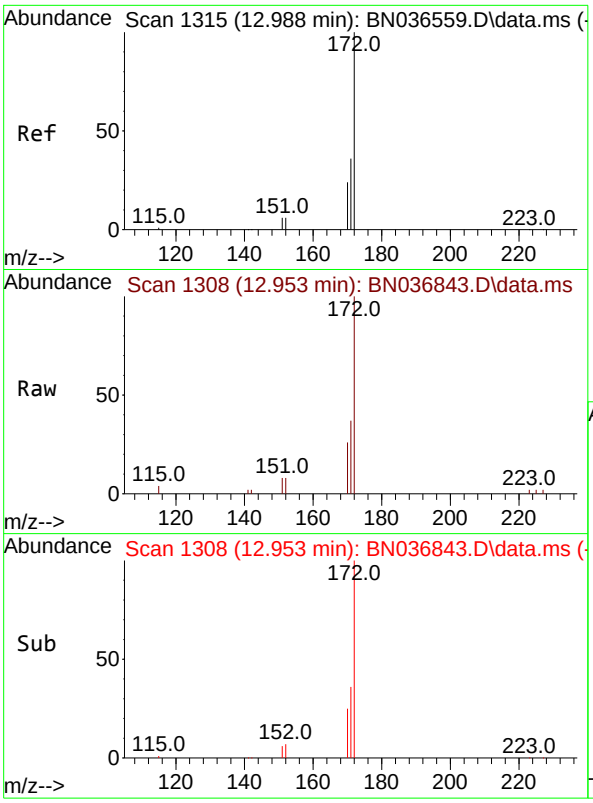


#14
2,4,6-Tribromophenol
Concen: 0.512 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Tgt Ion:330 Resp: 565

Ion	Ratio	Lower	Upper
330	100		
332	93.8	75.2	112.8
141	56.8	43.4	65.2



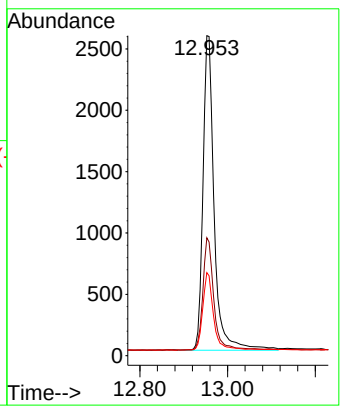


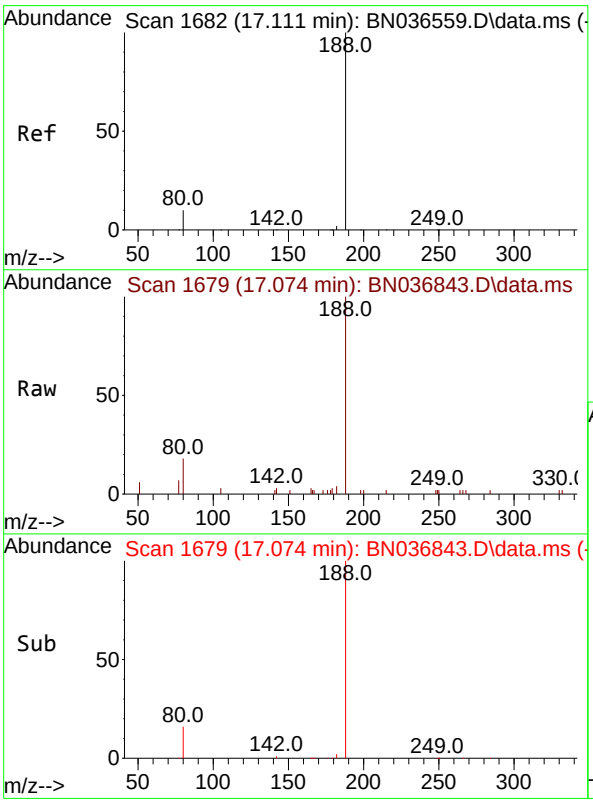
#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.953 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Tgt Ion:172 Resp: 5843

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.5	44.3
170	26.0	20.2	30.4

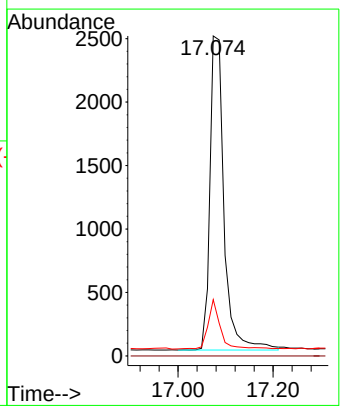


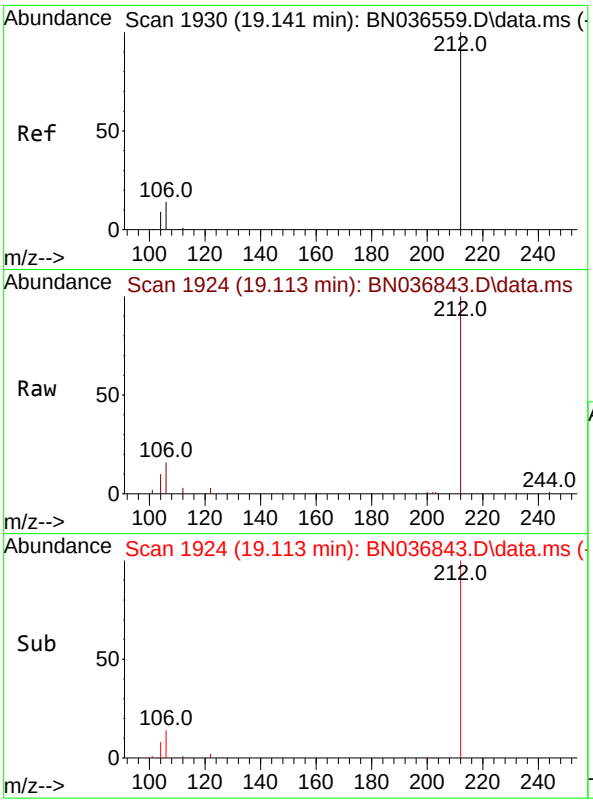


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.074 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Tgt Ion:188 Resp: 5123

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.6	8.8	13.2#



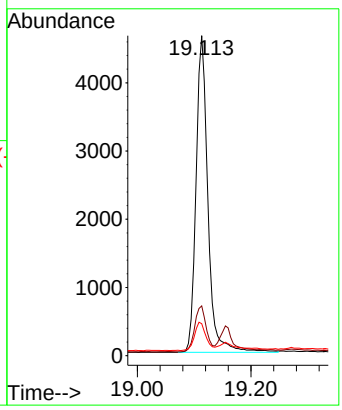


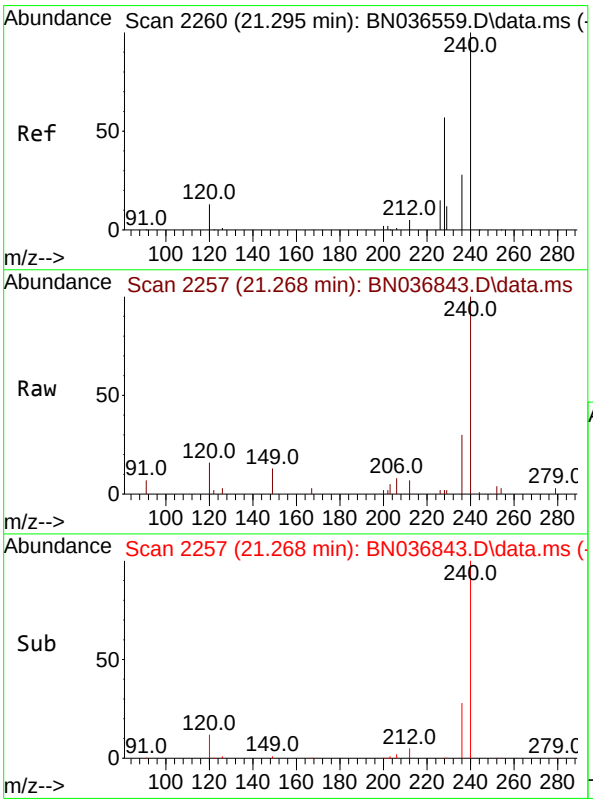
#27
Fluoranthene-d10
Concen: 0.513 ng
RT: 19.113 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Tgt Ion:212 Resp: 6737

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.6	7.3	10.9

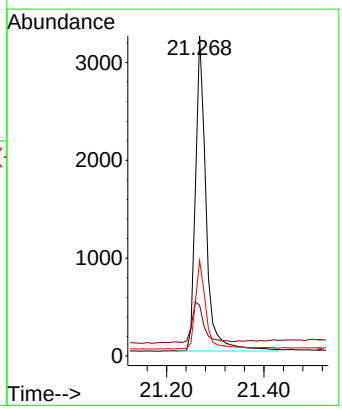


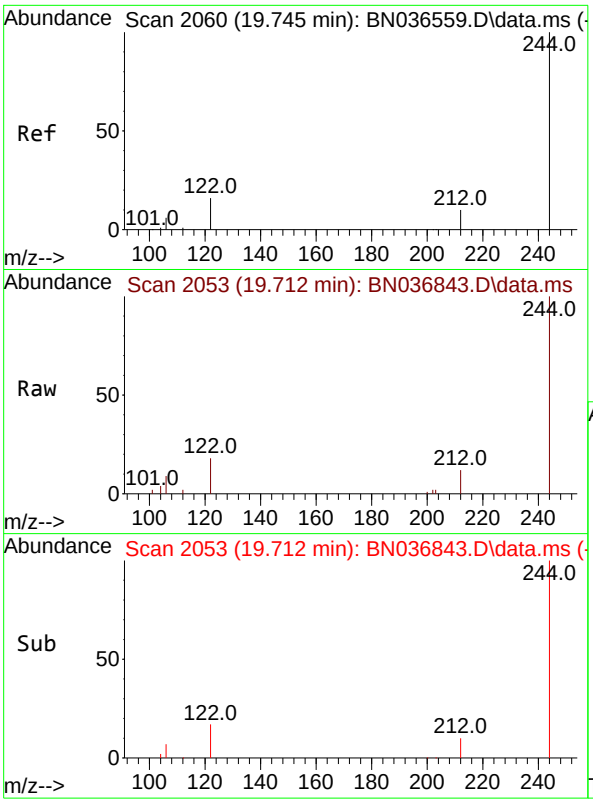


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Tgt Ion:240 Resp: 4847

Ion	Ratio	Lower	Upper
240	100		
120	15.9	14.6	22.0
236	29.8	24.1	36.1



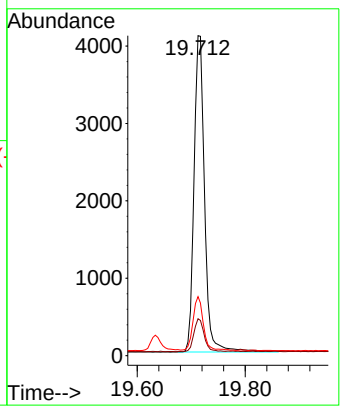


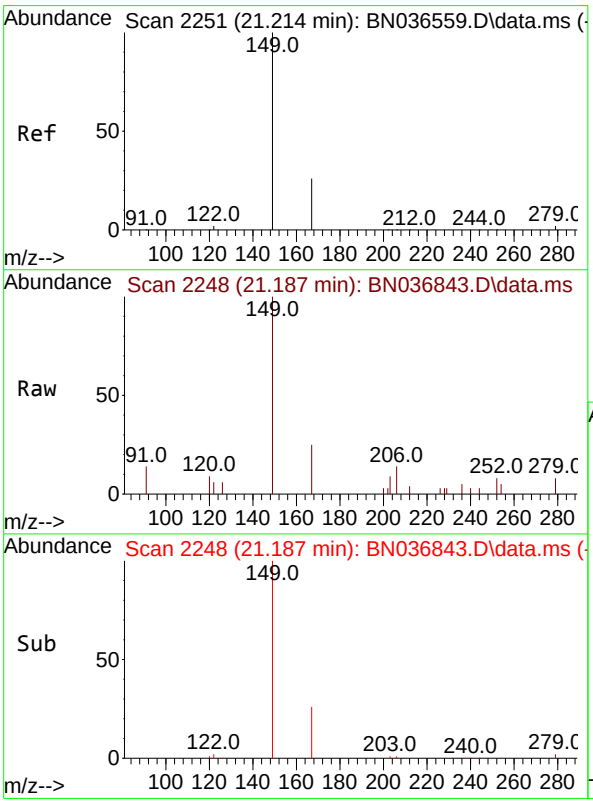
#31
Terphenyl-d14
Concen: 0.480 ng
RT: 19.712 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Tgt Ion:244 Resp: 5575

Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.6	14.4
122	18.4	13.9	20.9

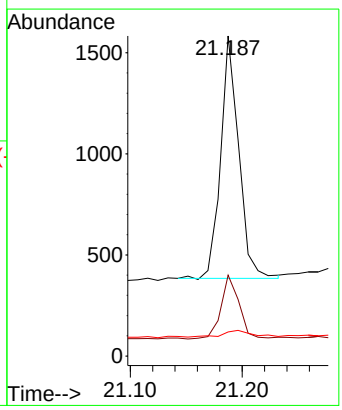


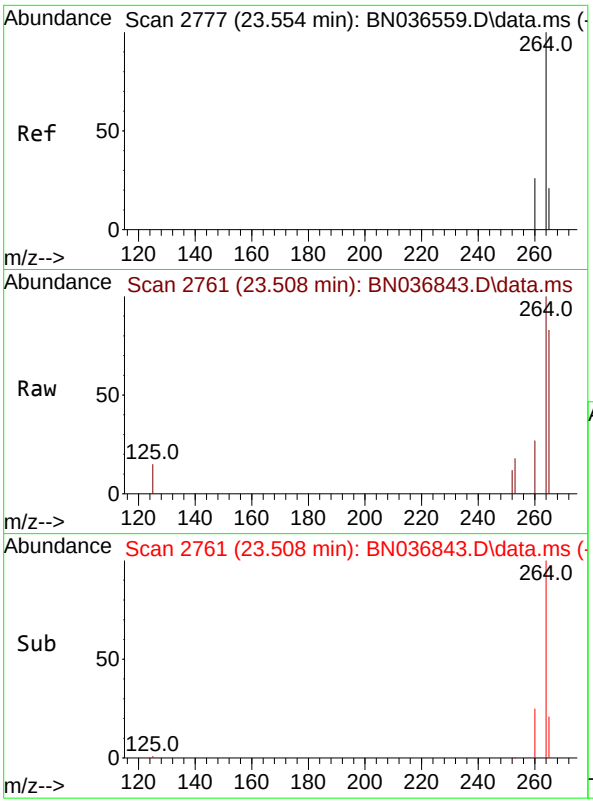


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.112 ng
RT: 21.187 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Tgt Ion:149 Resp: 1349

Ion	Ratio	Lower	Upper
149	100		
167	26.5	20.7	31.1
279	4.4	3.6	5.4



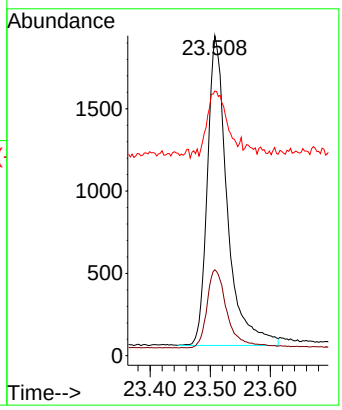


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.508 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036843.D
Acq: 04 Apr 2025 19:46

Instrument :
BNA_N
ClientSampleId :
EB01-040325

Tgt Ion:264 Resp: 4314

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.6	33.8
265	82.7	88.1	132.1#



CALIBRATION SUMMARY

Response Factor Report BNA_N

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

Calibration Files
0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.434	0.439	0.498	0.451	0.440	0.445	0.399	0.444	6.60
3)		n-Nitrosodimet...	1.112	0.874	0.935	0.841	0.850	0.883	0.789	0.898	11.64
4)	S	2-Fluorophenol	0.931	0.908	0.987	0.878	0.914	0.996	0.911	0.932	4.67
5)	S	Phenol-d6	1.243	1.057	1.128	1.067	1.133	1.254	1.180	1.152	6.79
6)		bis(2-Chloroet...	1.426	1.150	1.183	1.129	1.132	1.210	1.104	1.190	9.22
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.572	0.396	0.415	0.401	0.402	0.450	0.411	0.435	14.47
9)		Naphthalene	1.371	1.125	1.206	1.111	1.108	1.222	1.094	1.177	8.45
10)		Hexachlorobuta...	0.296	0.283	0.294	0.267	0.261	0.286	0.251	0.277	6.24
11)	SURR	2-Methylnaphth...	0.656	0.549	0.606	0.562	0.577	0.633	0.581	0.595	6.55
12)		2-Methylnaphth...	0.810	0.696	0.765	0.703	0.734	0.802	0.731	0.749	6.03
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.181	0.160	0.187	0.169	0.188	0.197	0.188	0.182	7.04
15)	S	2-Fluorobiphenyl	2.208	1.982	2.398	2.350	2.364	2.566	2.419	2.327	7.96
16)		Acenaphthylene	1.882	1.756	1.938	1.794	1.834	2.074	1.935	1.888	5.66
17)		Acenaphthene	1.257	1.159	1.281	1.171	1.199	1.339	1.243	1.236	5.17
18)		Fluorene	1.629	1.600	1.764	1.609	1.670	1.778	1.650	1.672	4.32
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.057	0.077	0.075	0.088	0.110	0.111	0.086	24.66
21)		4-Bromophenyl-...	0.243	0.227	0.274	0.238	0.241	0.278	0.253	0.251	7.53
22)		Hexachlorobenzene	0.306	0.288	0.336	0.295	0.283	0.322	0.289	0.303	6.58
23)		Atrazine	0.193	0.191	0.213	0.192	0.200	0.216	0.200	0.201	5.08
24)		Pentachlorophenol	0.140	0.116	0.137	0.122	0.135	0.161	0.155	0.138	11.76
25)		Phenanthrene	1.190	1.111	1.297	1.141	1.165	1.300	1.195	1.200	6.09
26)		Anthracene	1.026	0.971	1.147	1.033	1.075	1.215	1.112	1.083	7.60
27)	SURR	Fluoranthene-d10	1.037	0.955	1.116	0.956	1.025	1.087	1.000	1.025	5.98
28)		Fluoranthene	1.341	1.243	1.452	1.272	1.364	1.447	1.316	1.348	5.95
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.945	2.005	2.131	1.910	1.870	1.992	1.837	1.956	5.04
31)	S	Terphenyl-d14	0.962	0.965	1.028	0.924	0.915	0.987	0.926	0.958	4.23
32)		Benzo(a)anthra...	1.389	1.315	1.437	1.304	1.347	1.528	1.415	1.391	5.63
33)		Chrysene	1.486	1.509	1.610	1.507	1.462	1.616	1.448	1.520	4.44
34)		Bis(2-ethylhex...	1.196	1.100	1.044	0.865	0.946	0.912	0.870	0.990	12.74
35)	I	Perylene-d12	----------ISTD----------								

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

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

(#) = Out of Range

Quantitation Report (QT Reviewed)

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

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

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

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

ICAL Form

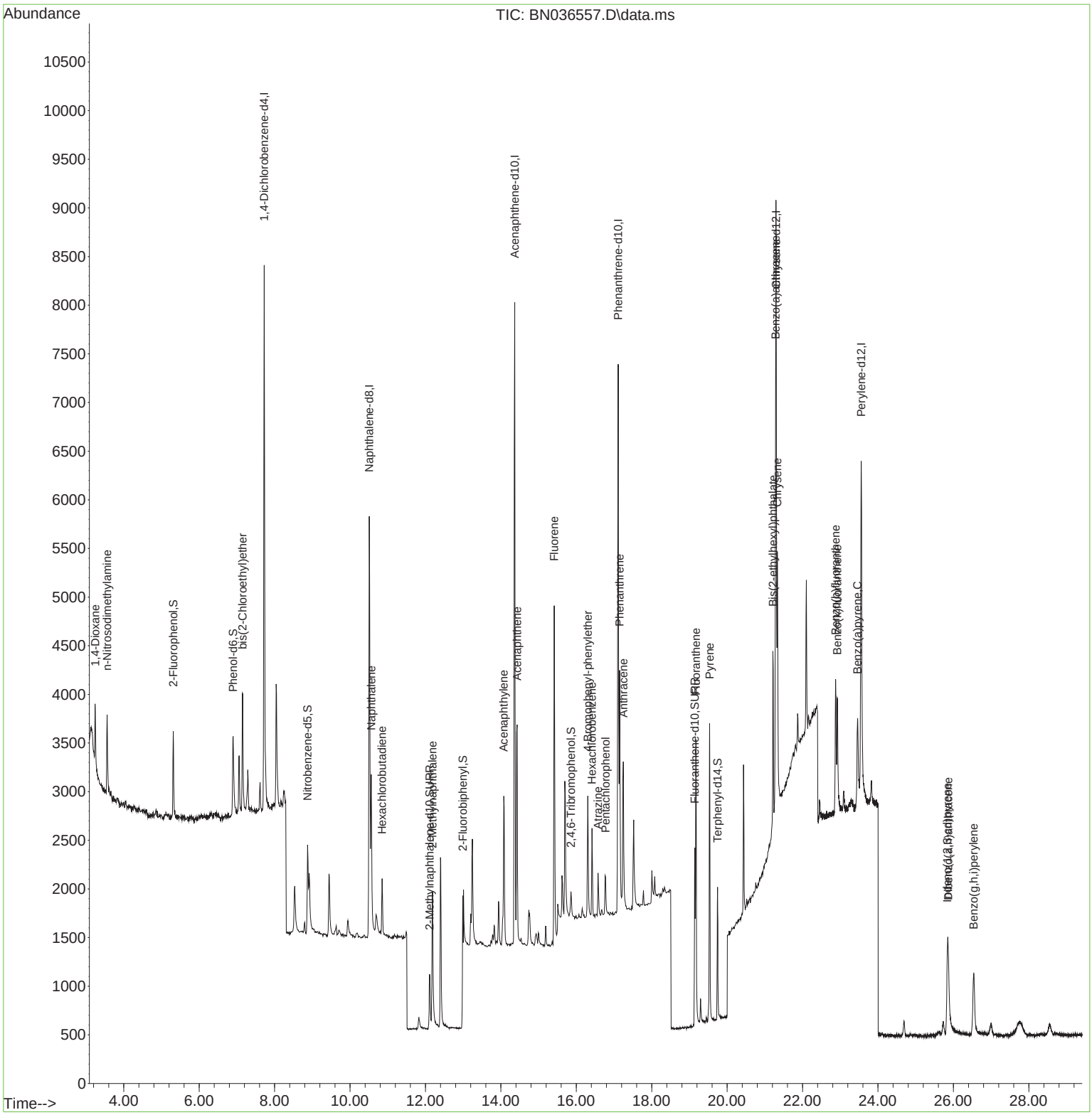
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

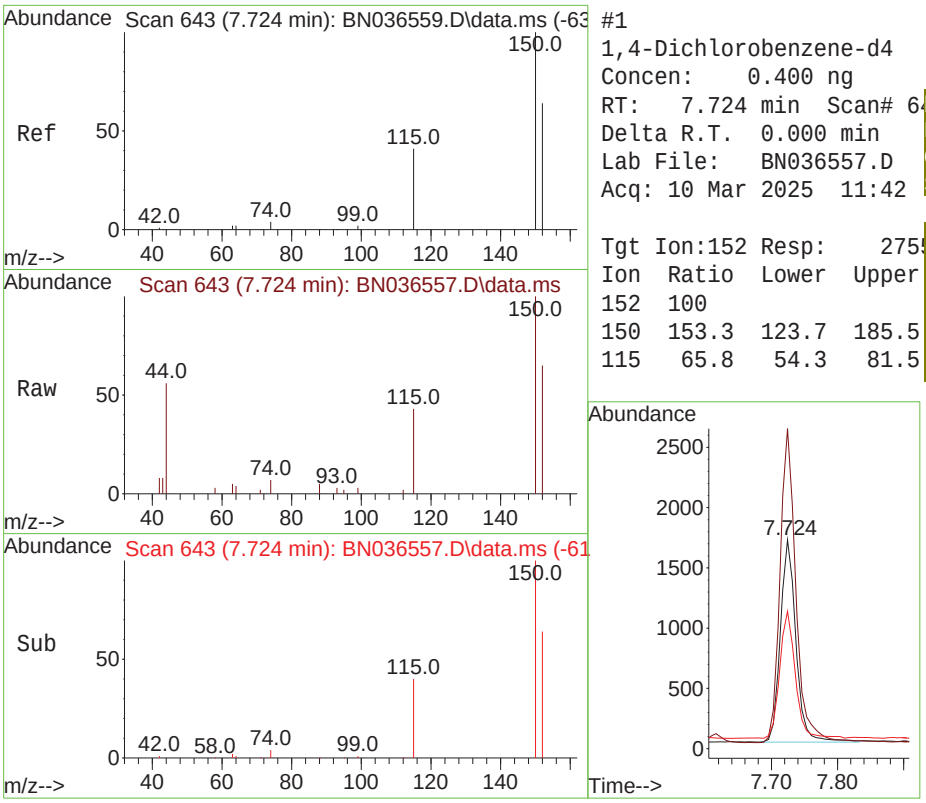
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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





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

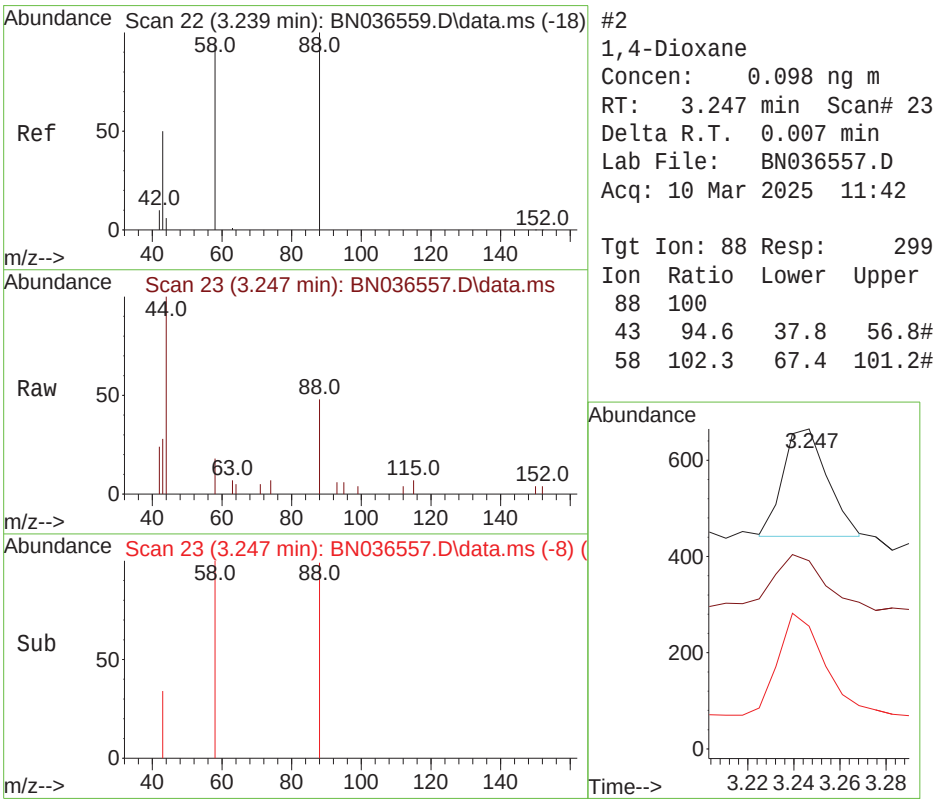
Tgt Ion:152 Resp: 275

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

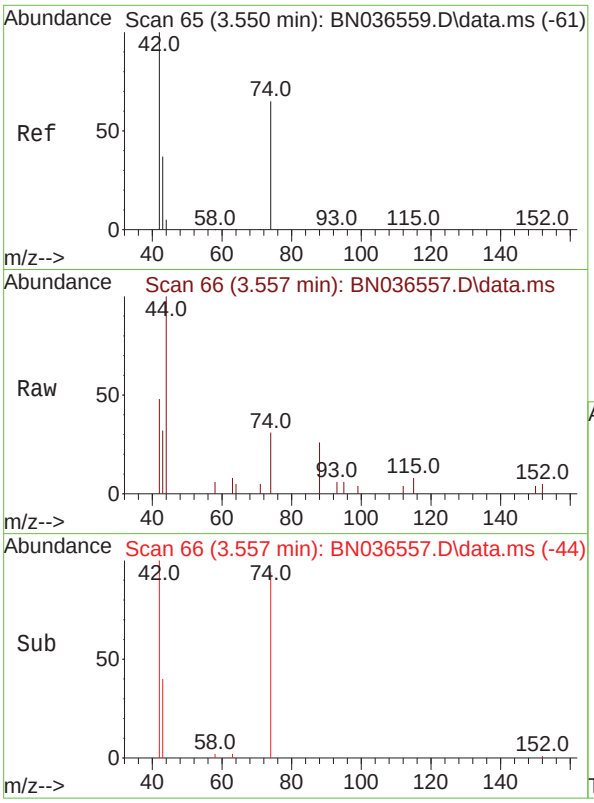
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



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

Tgt Ion: 88 Resp: 299

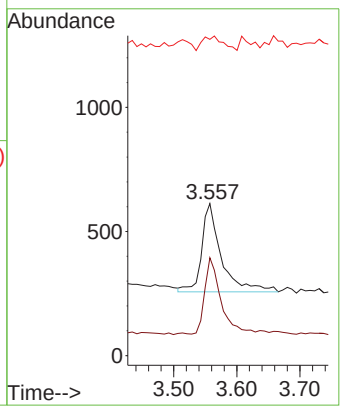
Ion	Ratio	Lower	Upper
88	100		
43	94.6	37.8	56.8#
58	102.3	67.4	101.2#



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

Tgt Ion: 42 Resp: 76

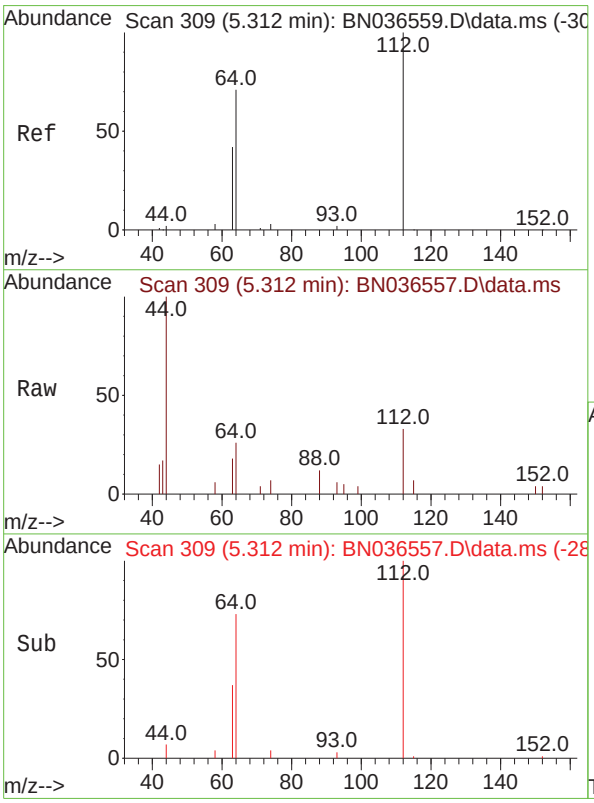
Ion	Ratio	Lower	Upper
42	100		
74	73.0	60.6	90.8
44	16.6	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

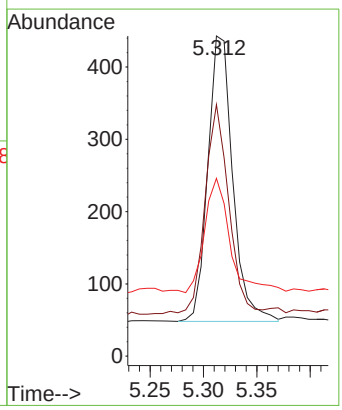
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

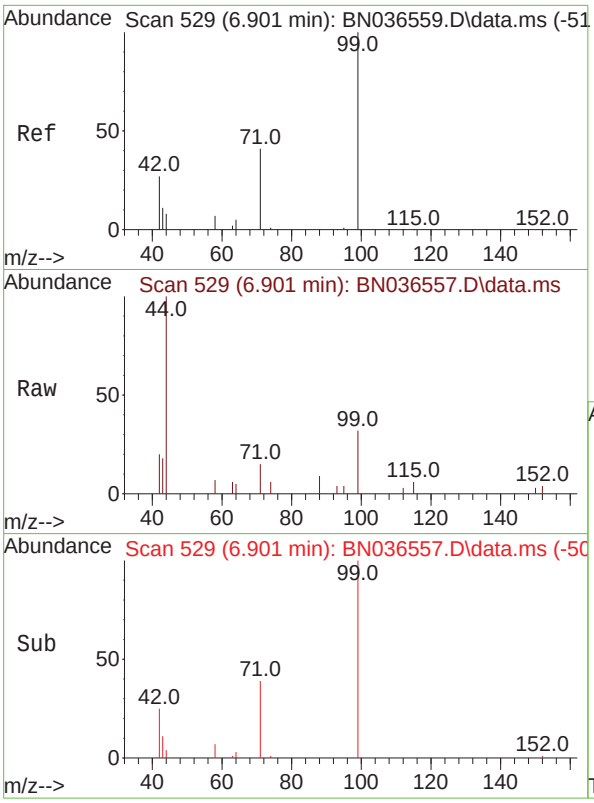


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:112 Resp: 641

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

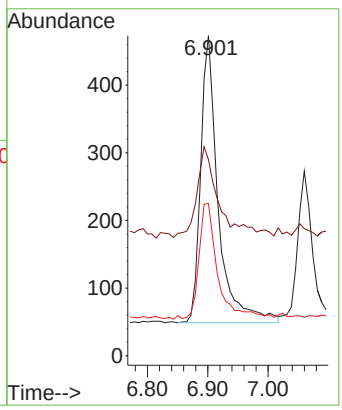




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 99 Resp: 85

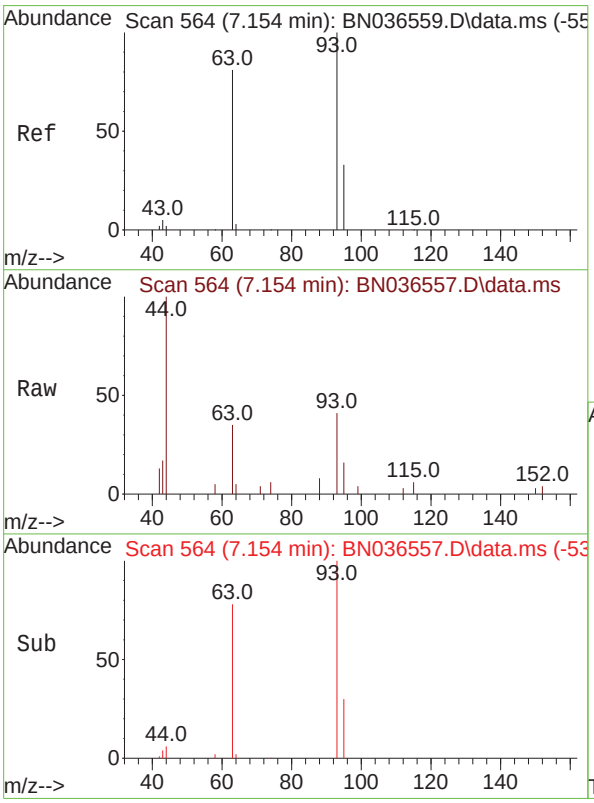
Ion	Ratio	Lower	Upper
99	100		
42	39.8	26.5	39.7#
71	42.8	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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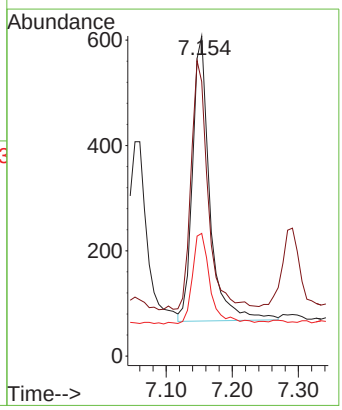
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

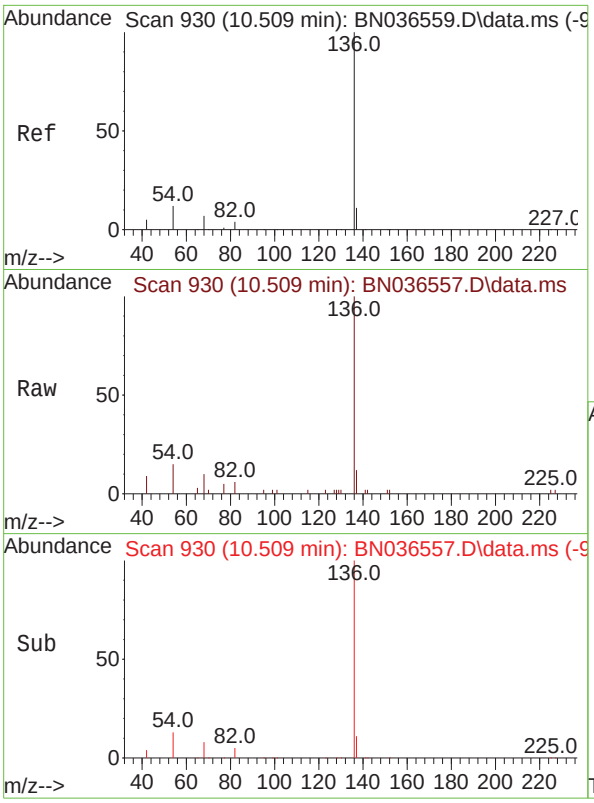


#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 93 Resp: 982

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

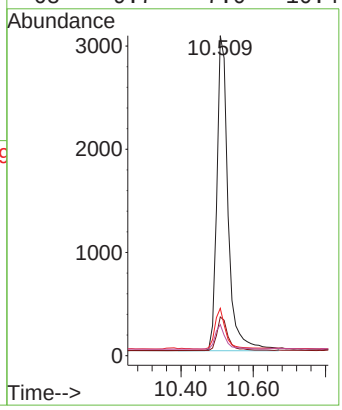




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:136 Resp: 657

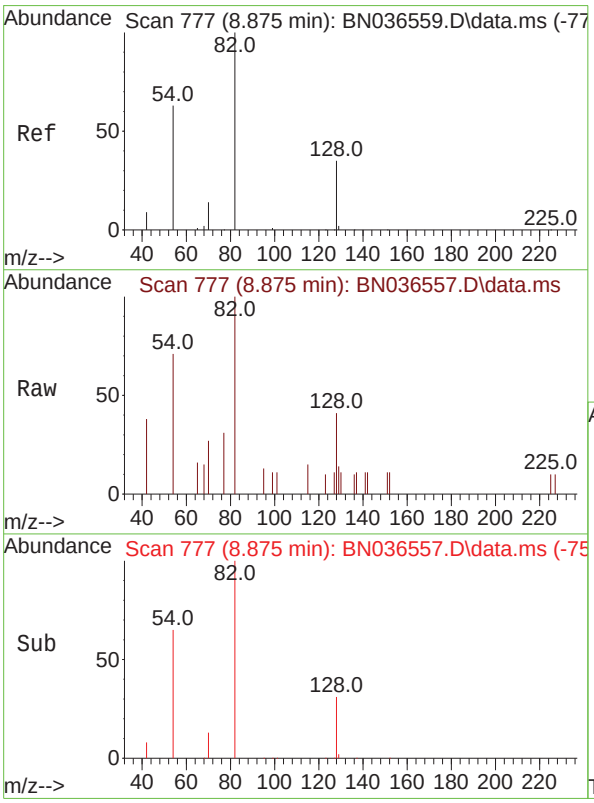
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	14.8	11.5	17.3
68	9.7	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

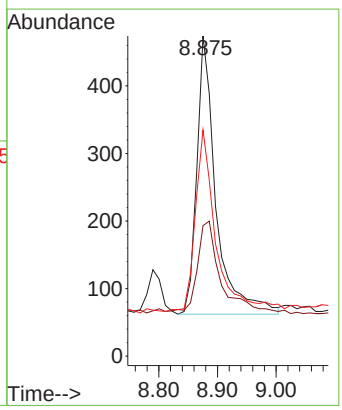
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

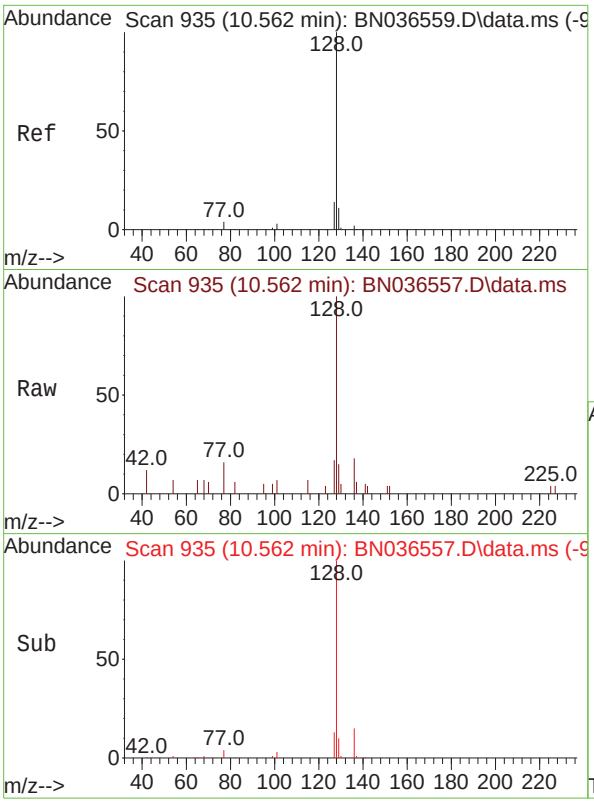


#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 82 Resp: 940

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

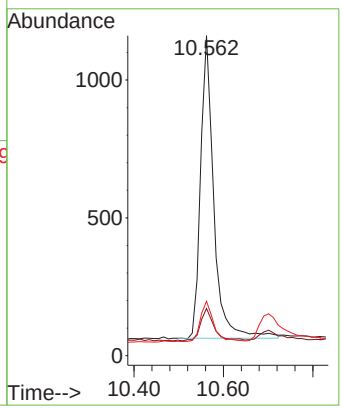




#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:128 Resp: 225

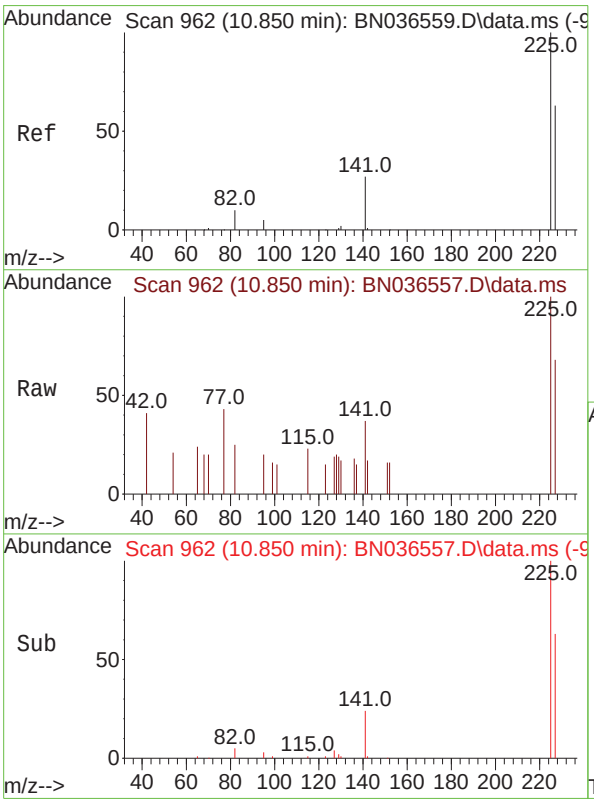
Ion	Ratio	Lower	Upper
128	100		
129	14.7	9.8	14.6#
127	17.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

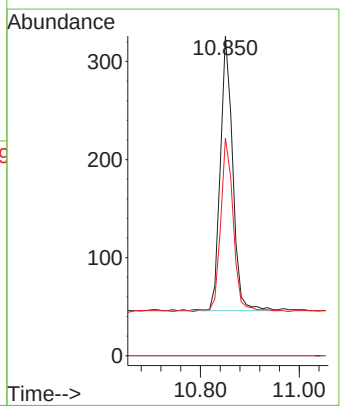
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

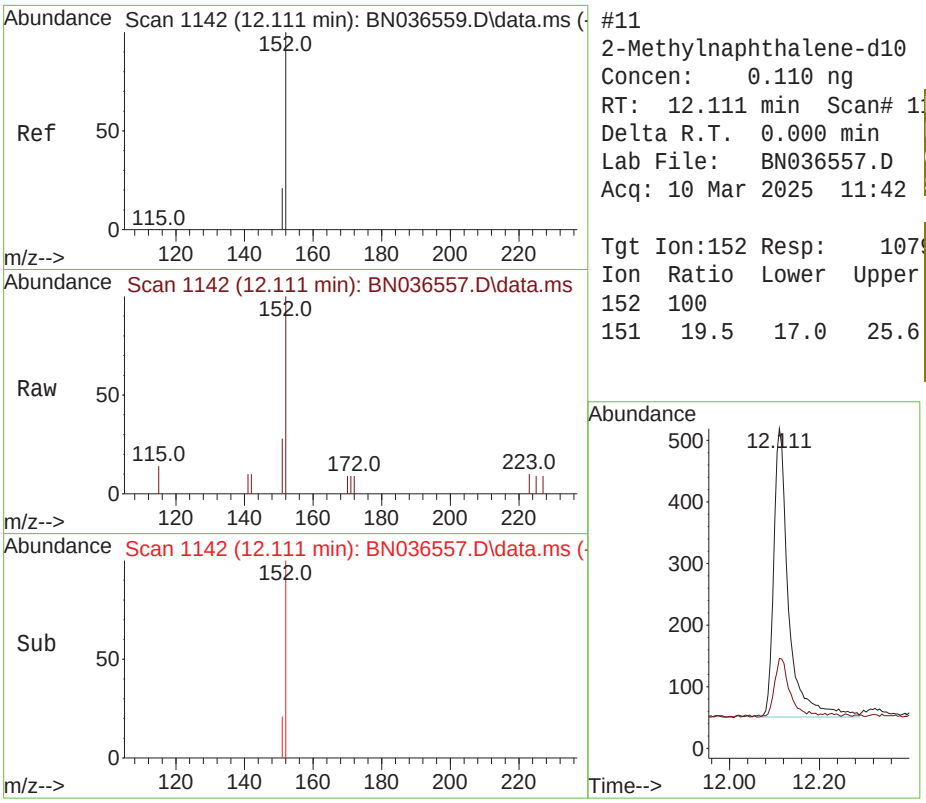


#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:225 Resp: 486

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





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

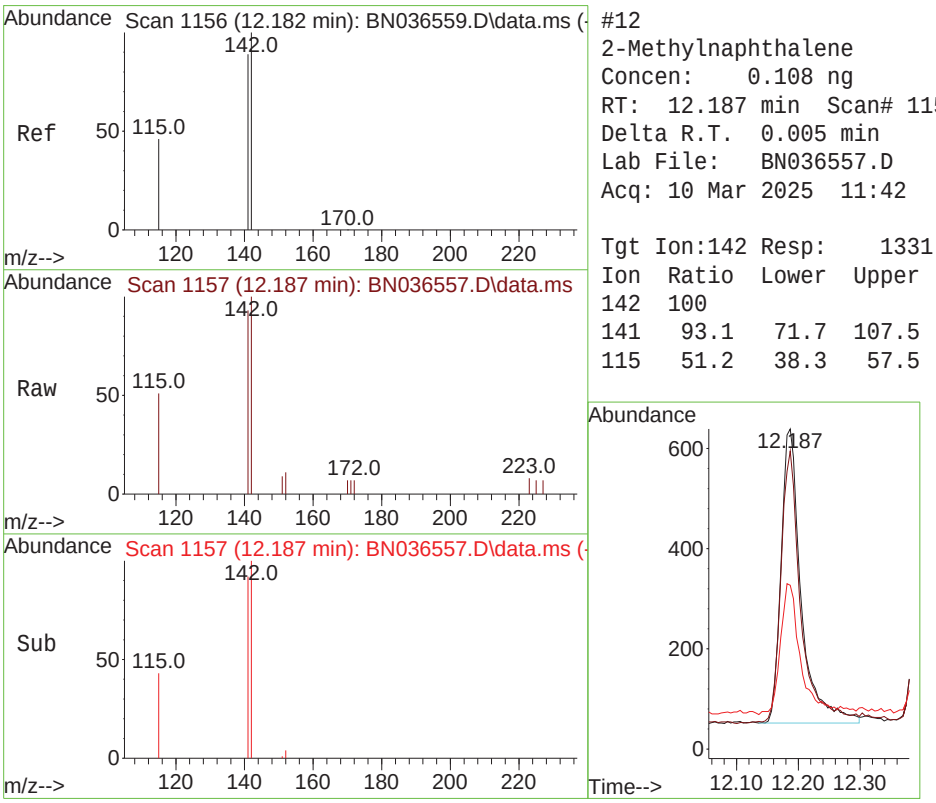
Tgt Ion:152 Resp: 107

Ion	Ratio	Lower	Upper
152	100		
151	19.5	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

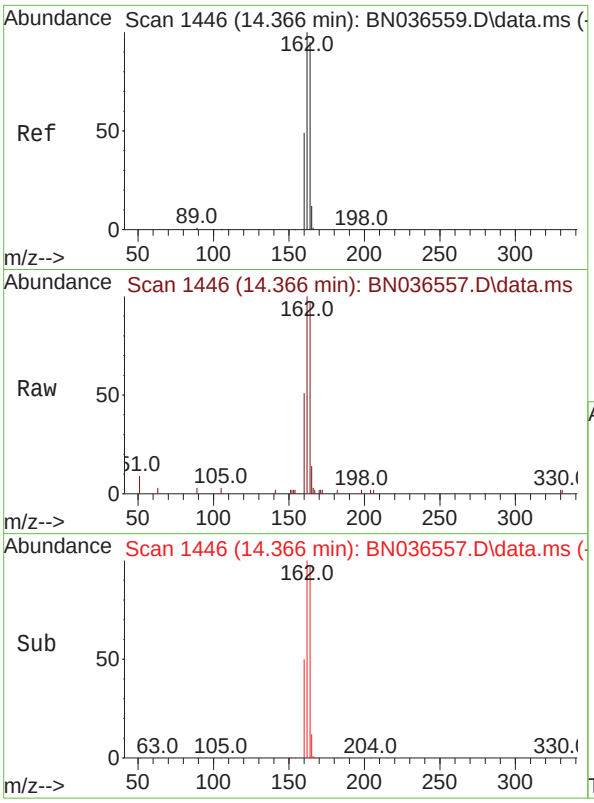
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



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

Tgt Ion:142 Resp: 1331

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



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

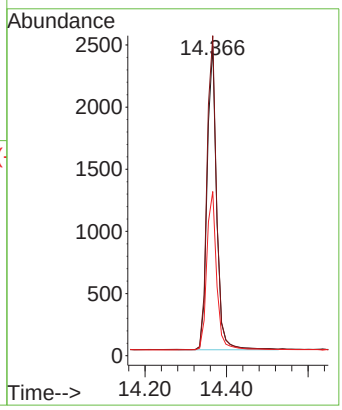
Tgt Ion:164 Resp: 395

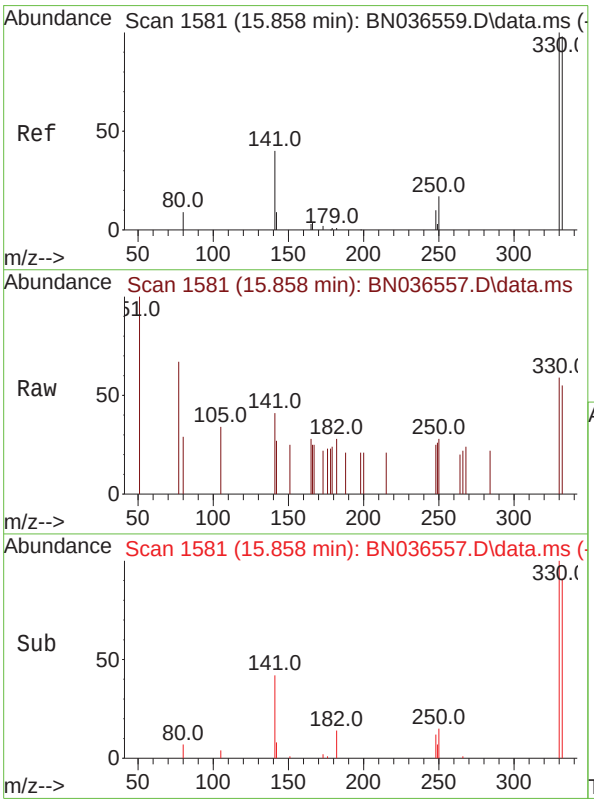
Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.2	126.2
160	53.0	42.2	63.2

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

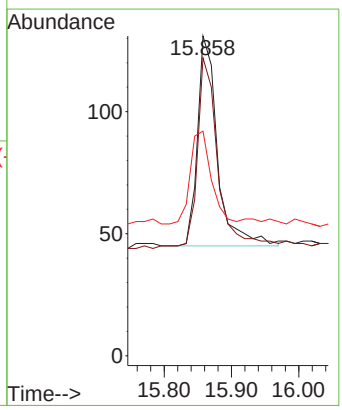


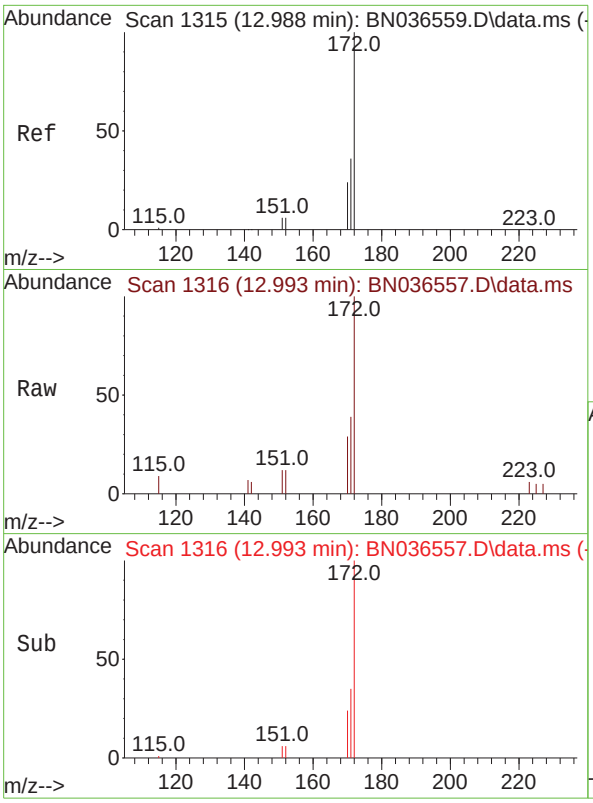


#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179

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

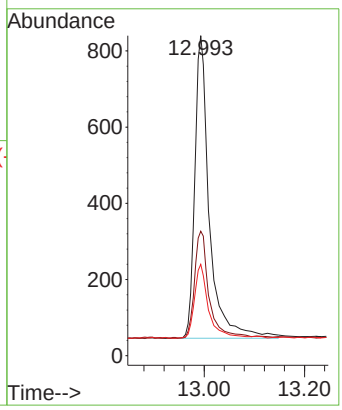




#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:172 Resp: 218

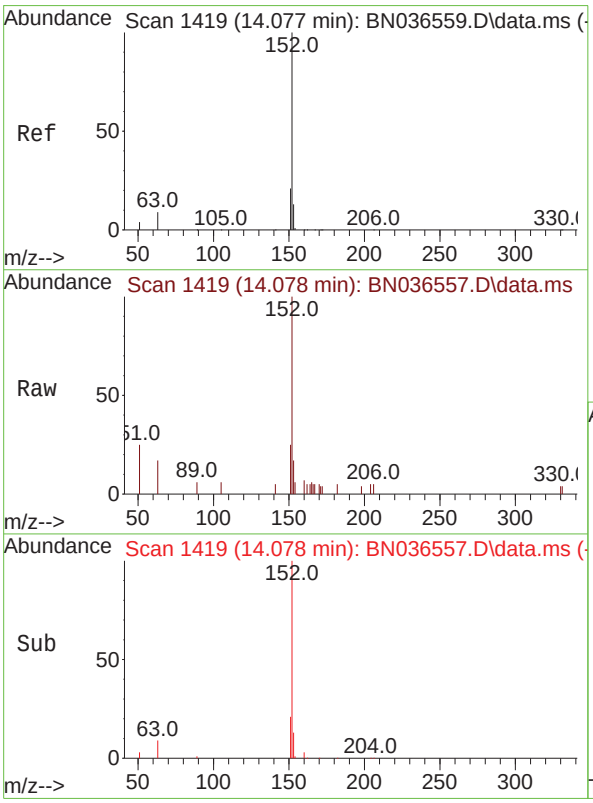
Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.5	44.3
170	28.6	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

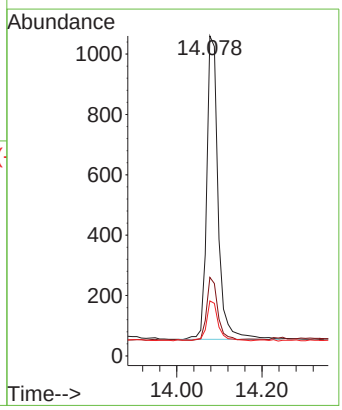
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

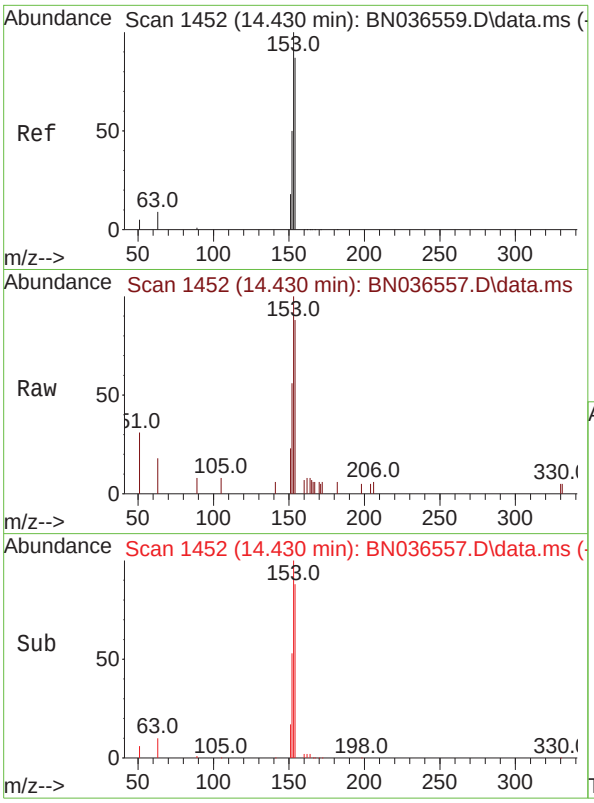


#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 1862

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

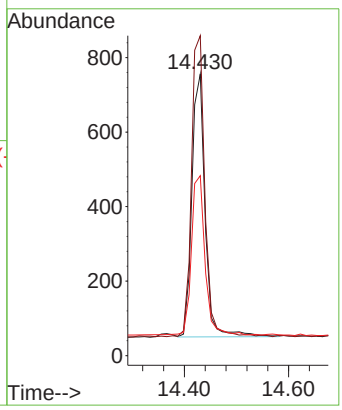




#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:154 Resp: 124

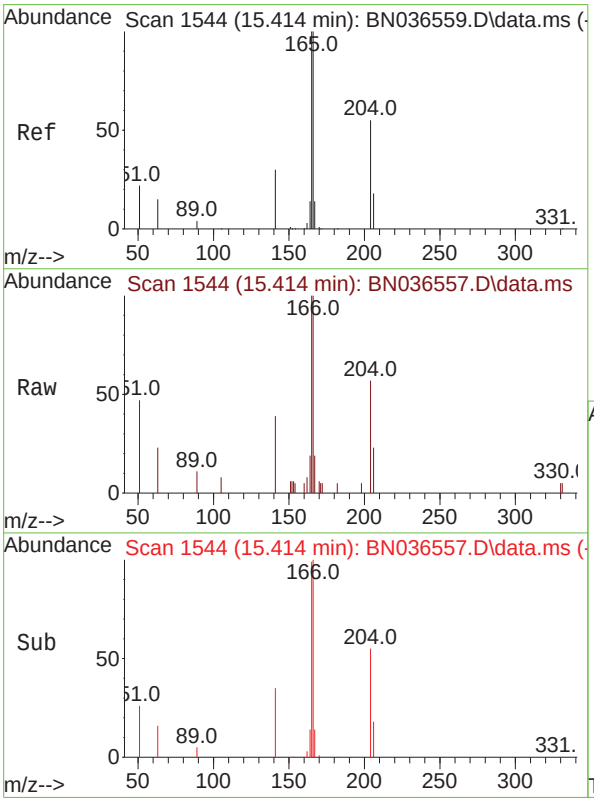
Ion	Ratio	Lower	Upper
154	100		
153	115.9	94.1	141.1
152	62.5	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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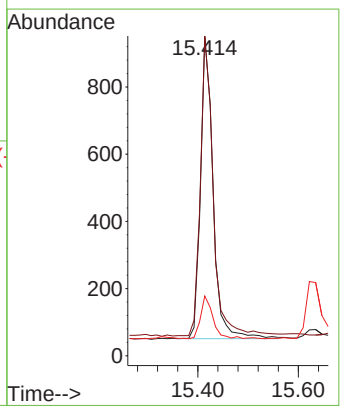
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

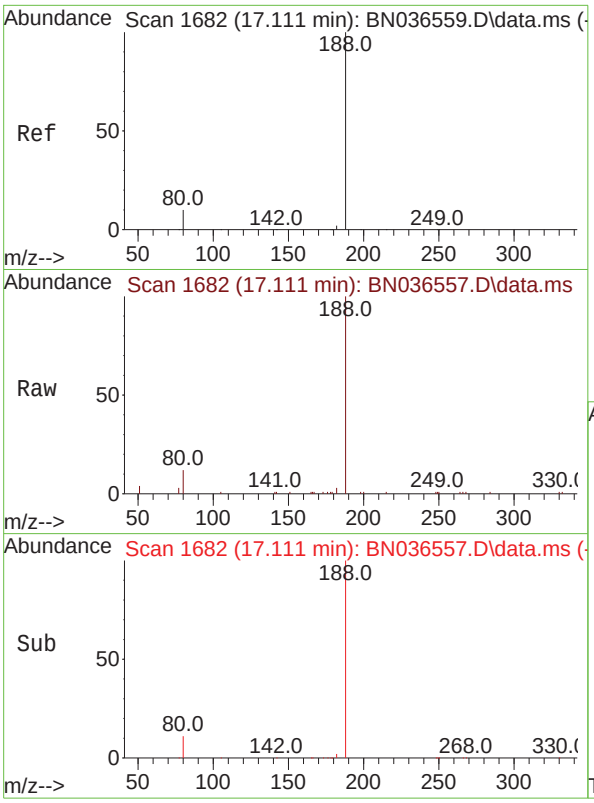


#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:166 Resp: 1612

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

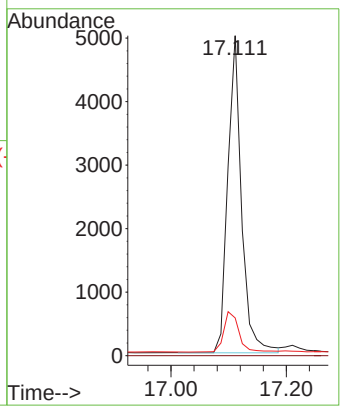




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:188 Resp: 826

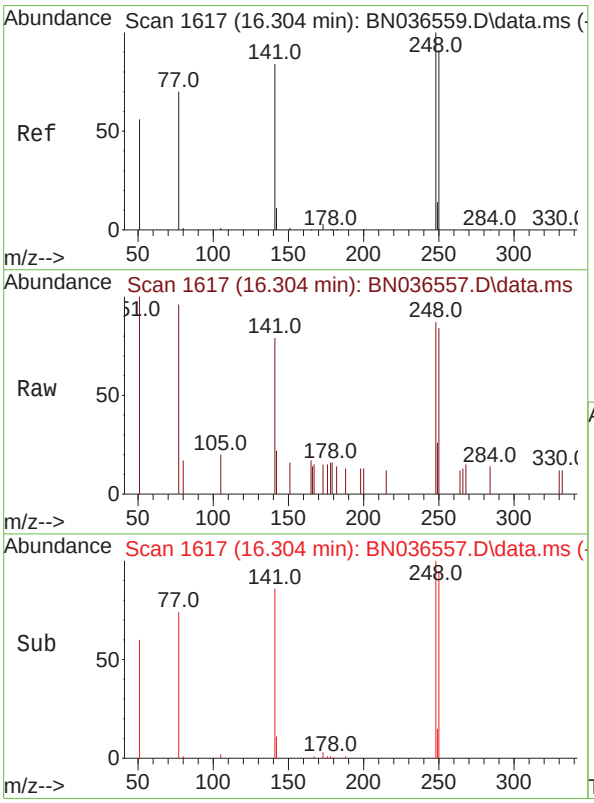
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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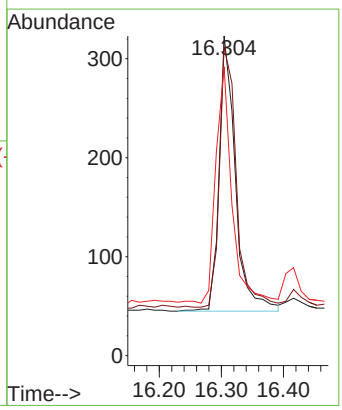
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

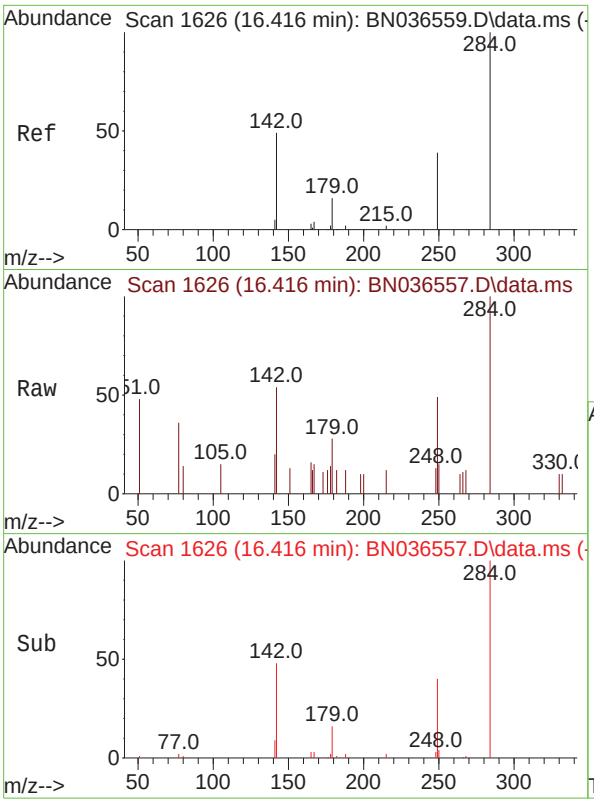


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:248 Resp: 502

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

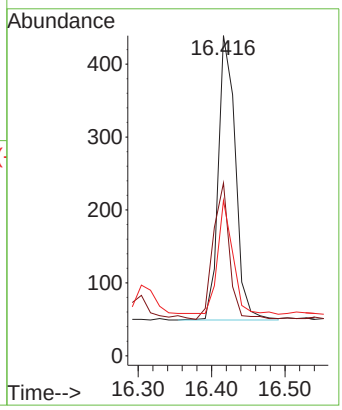




#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:284 Resp: 63

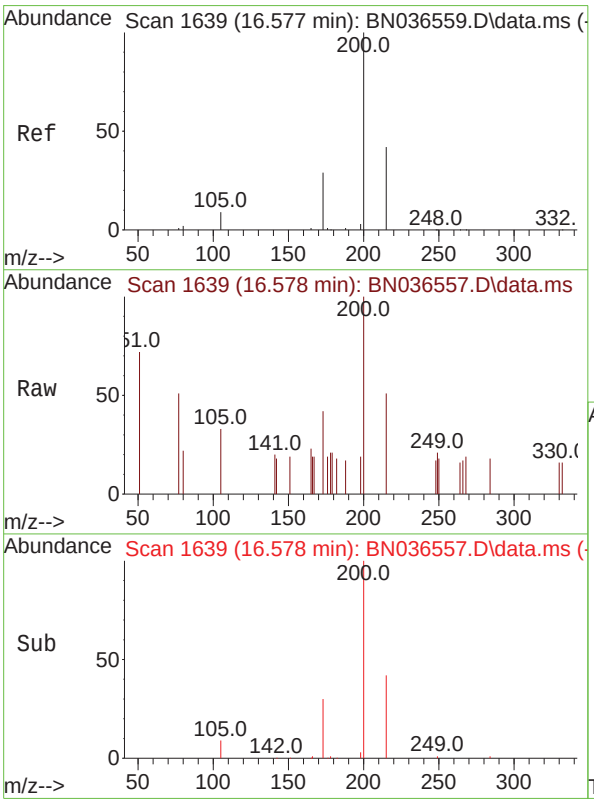
Ion	Ratio	Lower	Upper
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

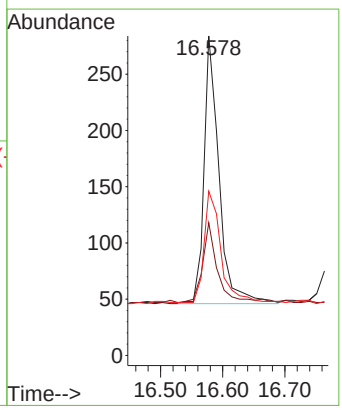
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

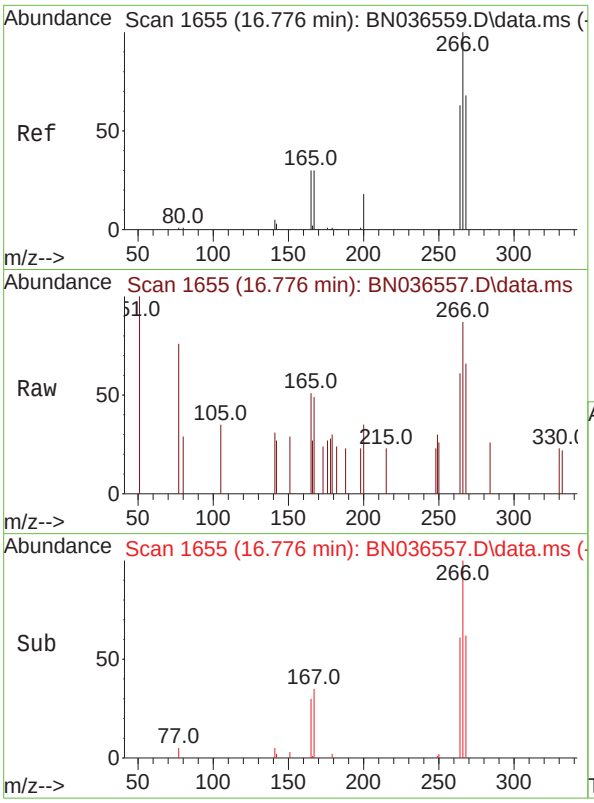


#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:200 Resp: 400

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

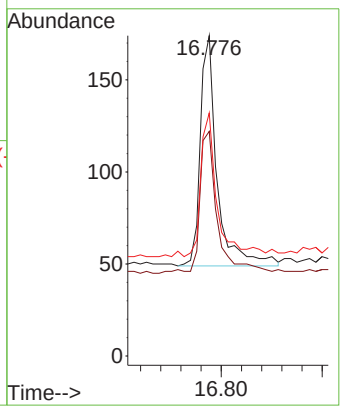




#24
Pentachlorophenol
Concen: 0.102 ng
RT: 16.776 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:266 Resp: 29

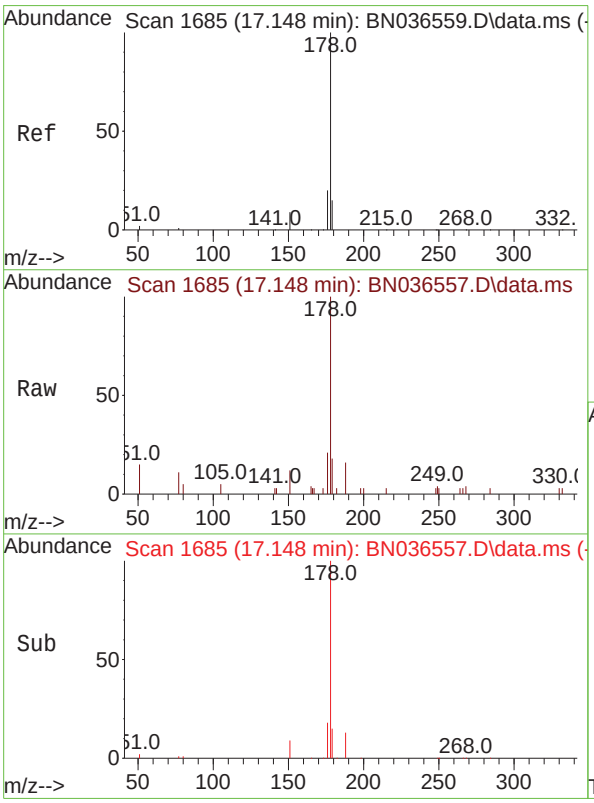
Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	62.8	50.9	76.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

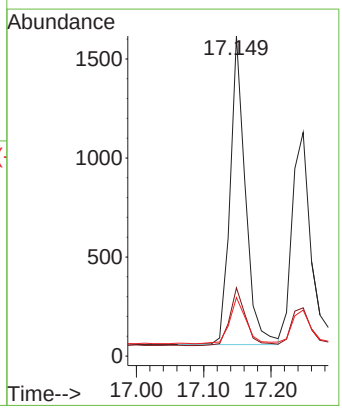
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

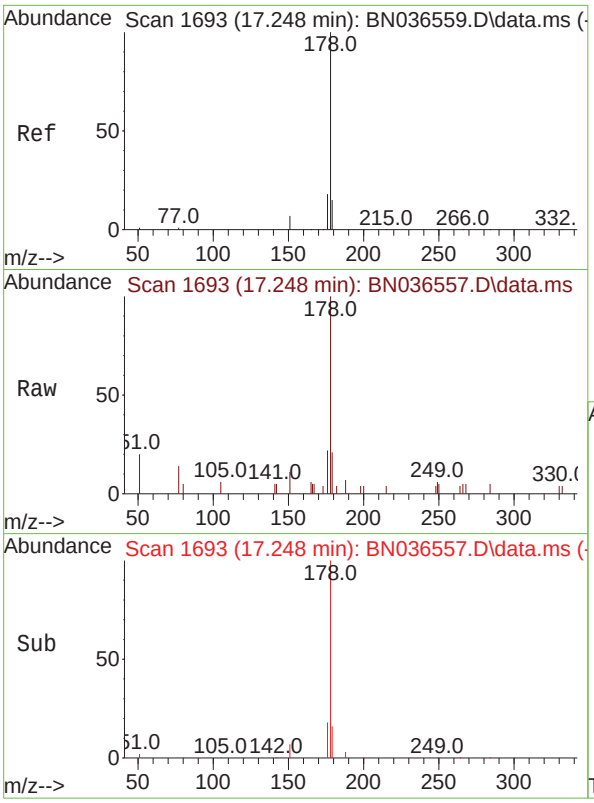


#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 2459

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

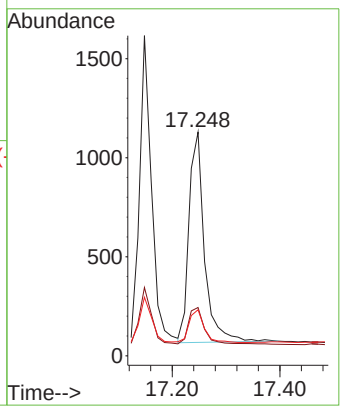




#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 212

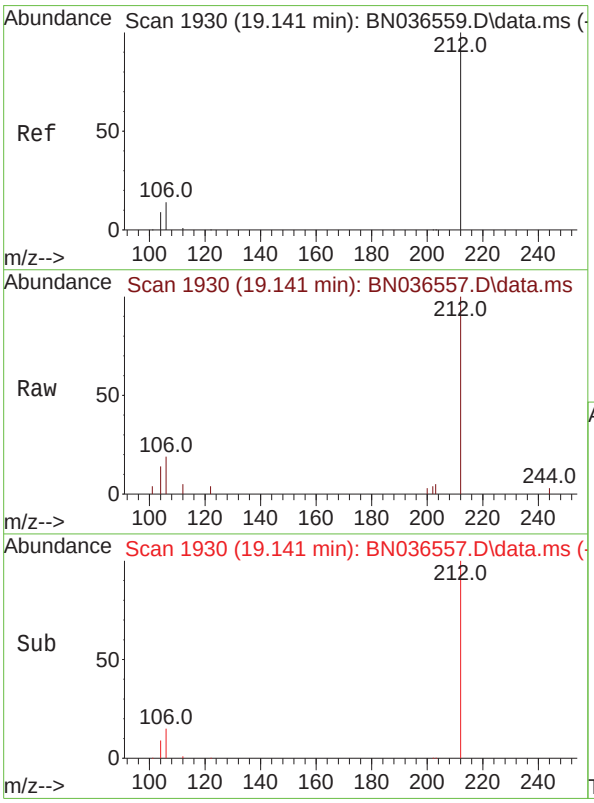
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

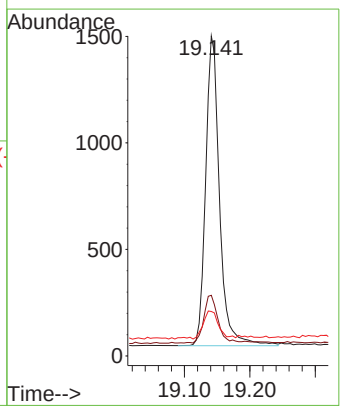
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

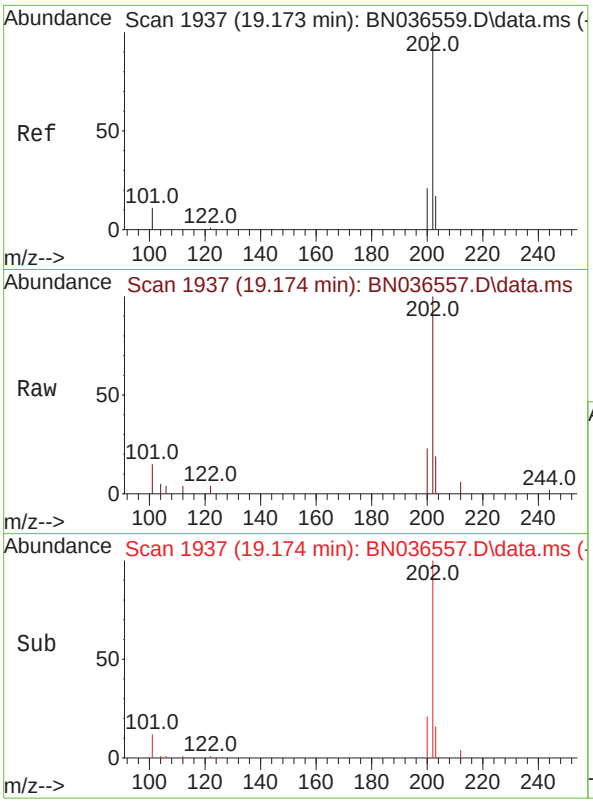


#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:212 Resp: 2144

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

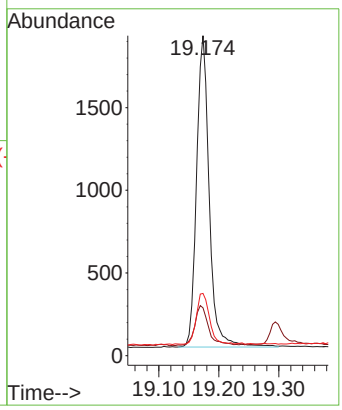




#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 277

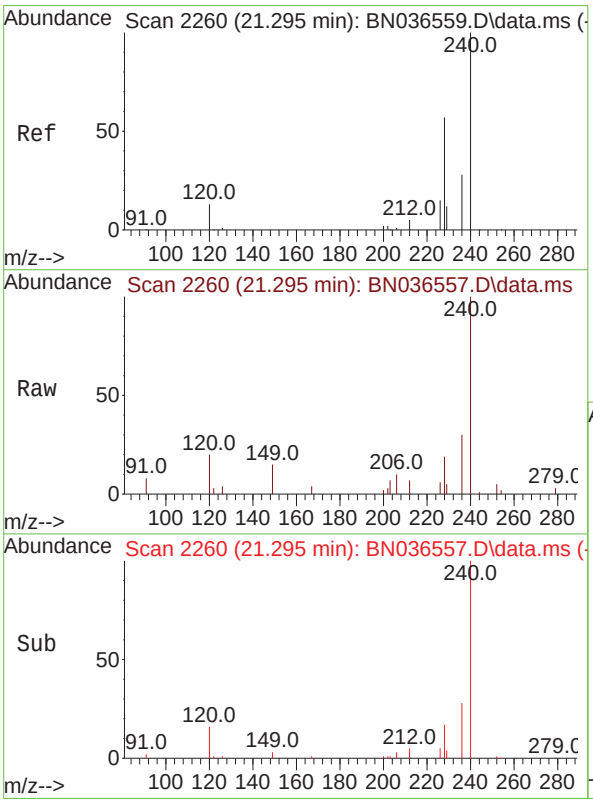
Ion	Ratio	Lower	Upper
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

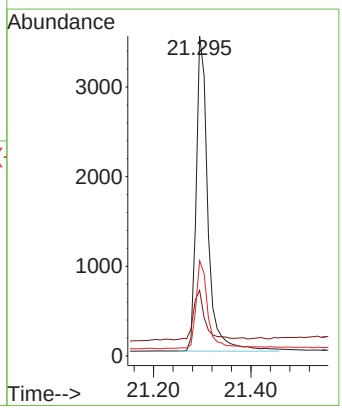
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

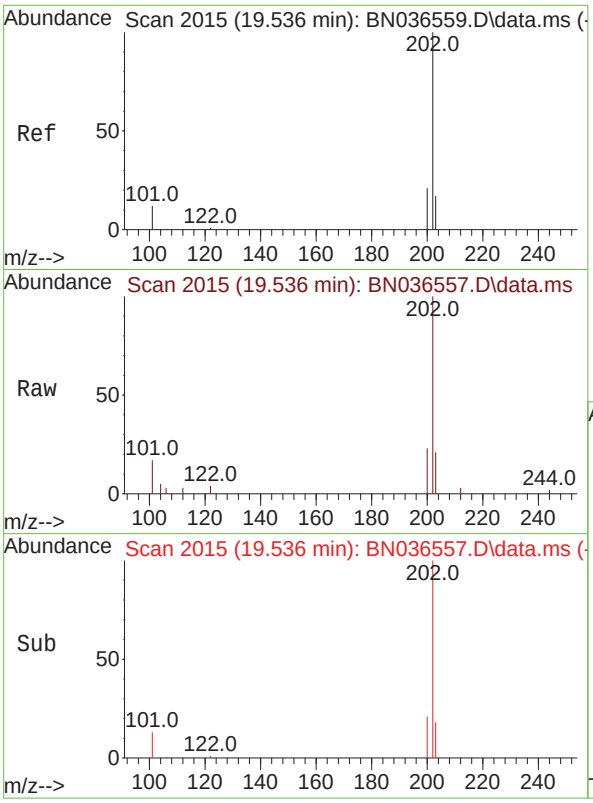


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:240 Resp: 5886

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

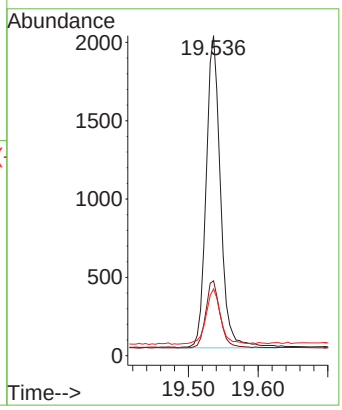




#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 286

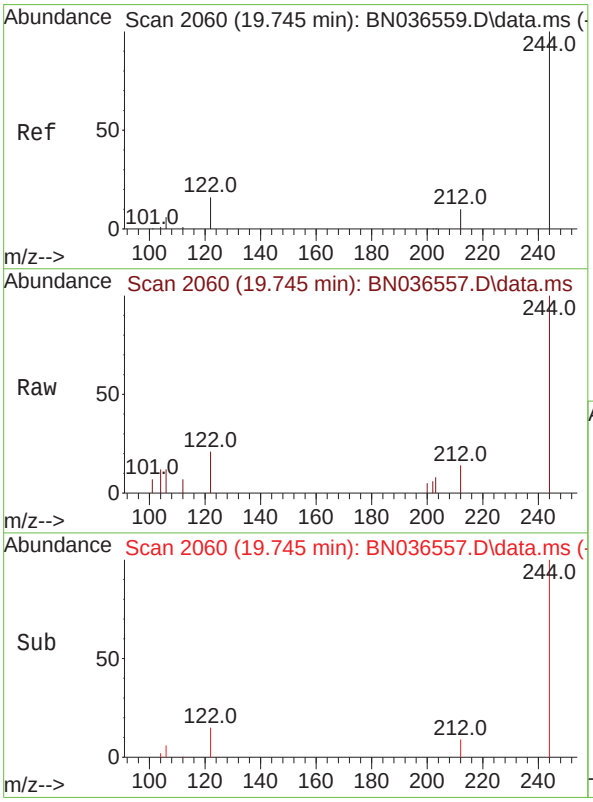
Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

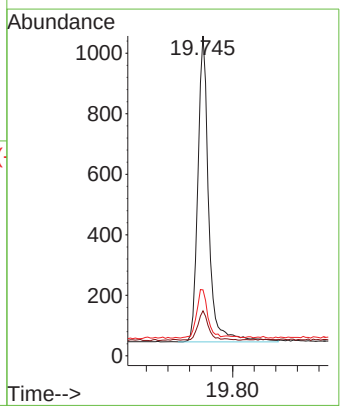
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

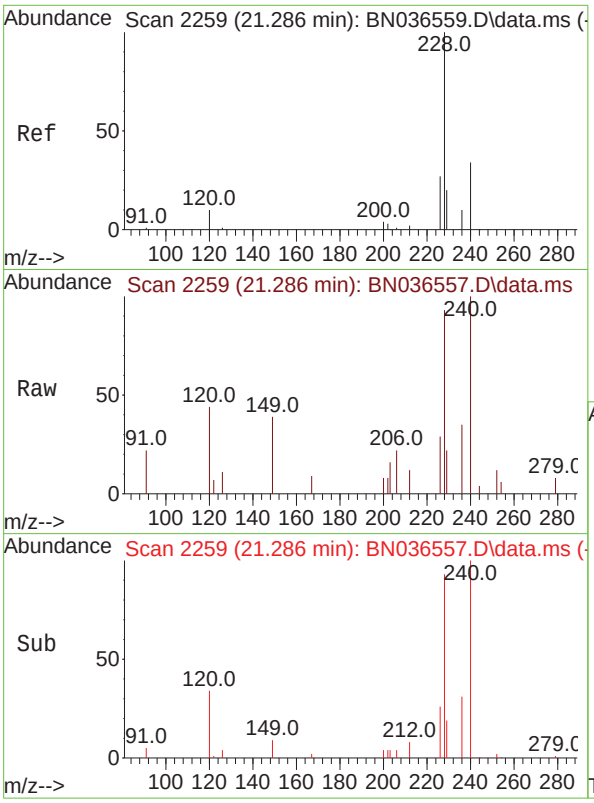


#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:244 Resp: 1416

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

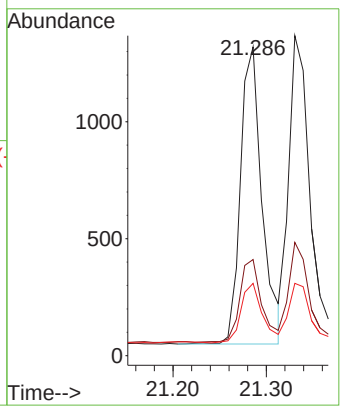




#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.286 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 204

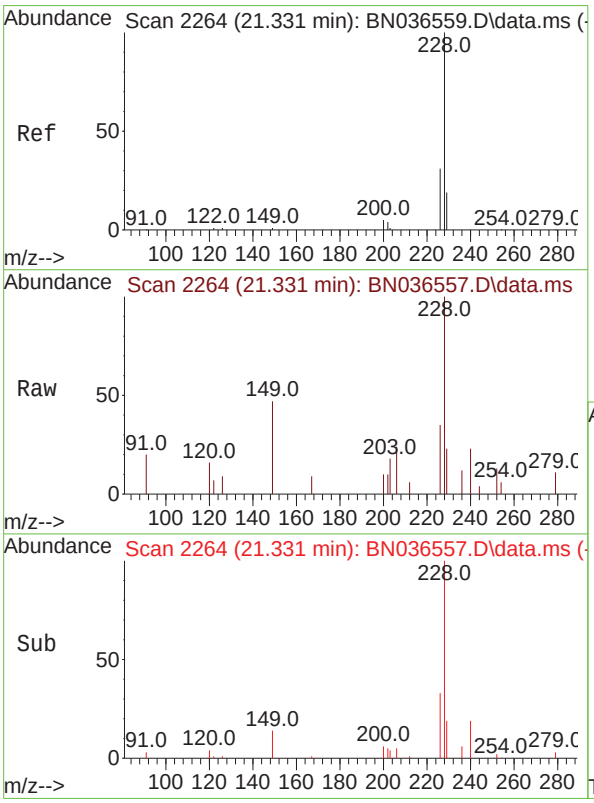
Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

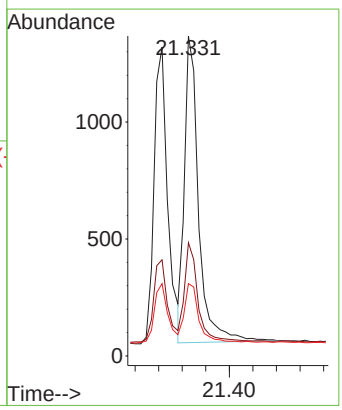
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

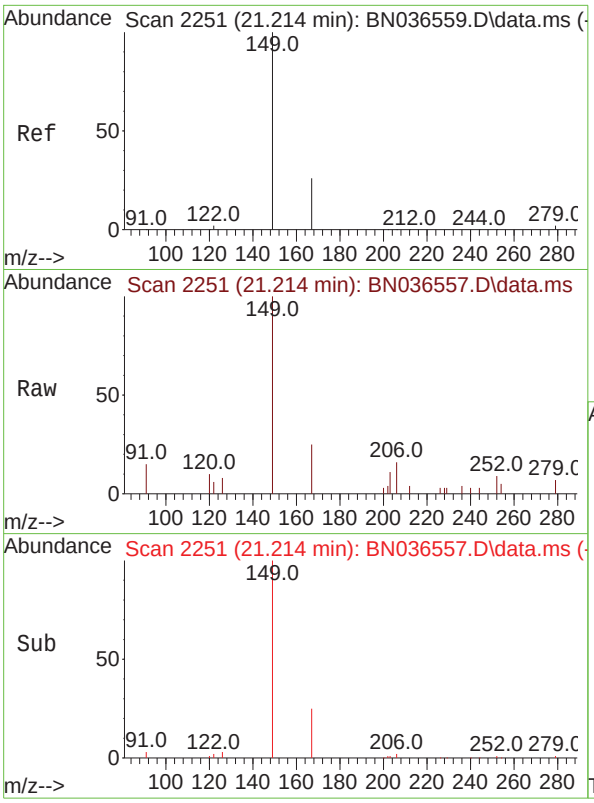


#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 2187

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





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

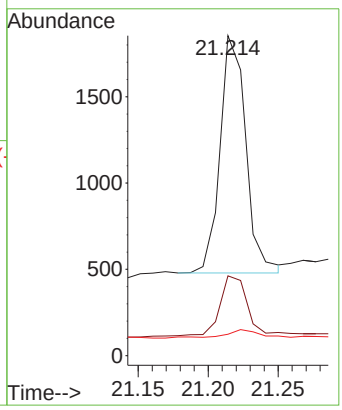
Tgt Ion:149 Resp: 176

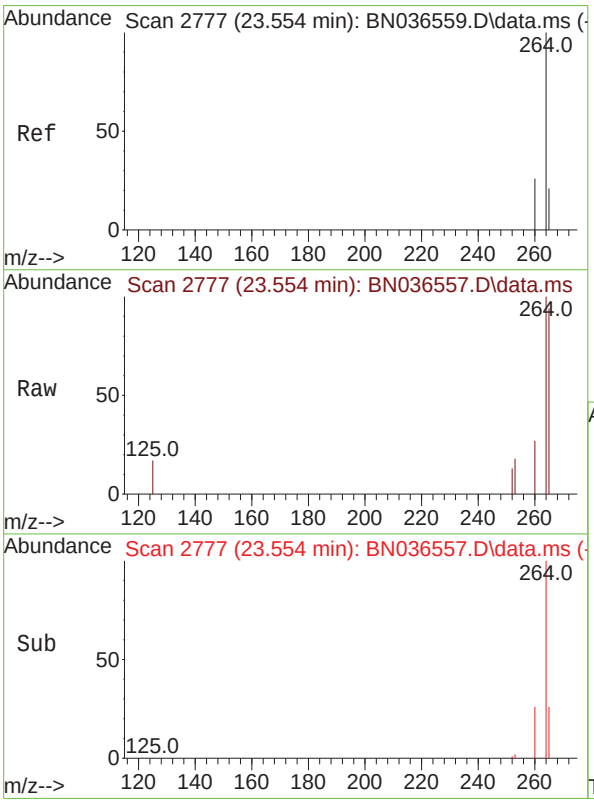
Ion	Ratio	Lower	Upper
149	100		
167	27.9	20.7	31.1
279	4.9	3.6	5.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

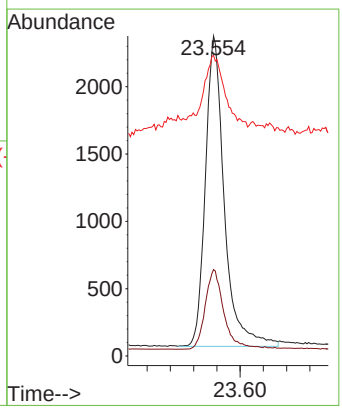


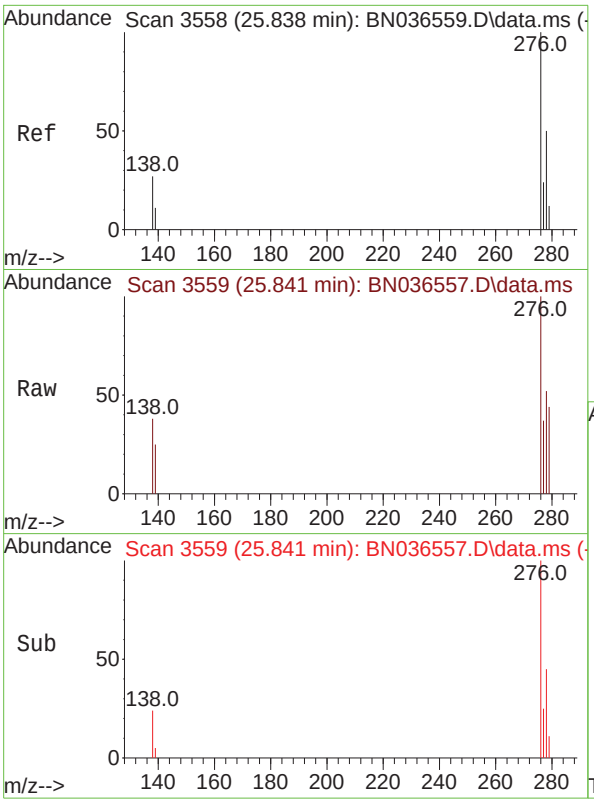


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:264 Resp: 5207

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

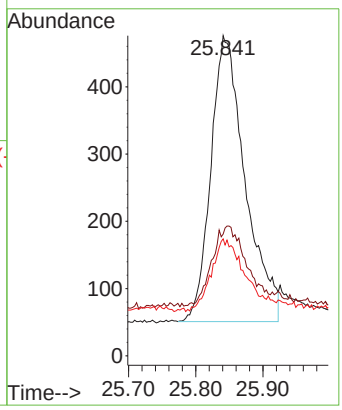




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 151

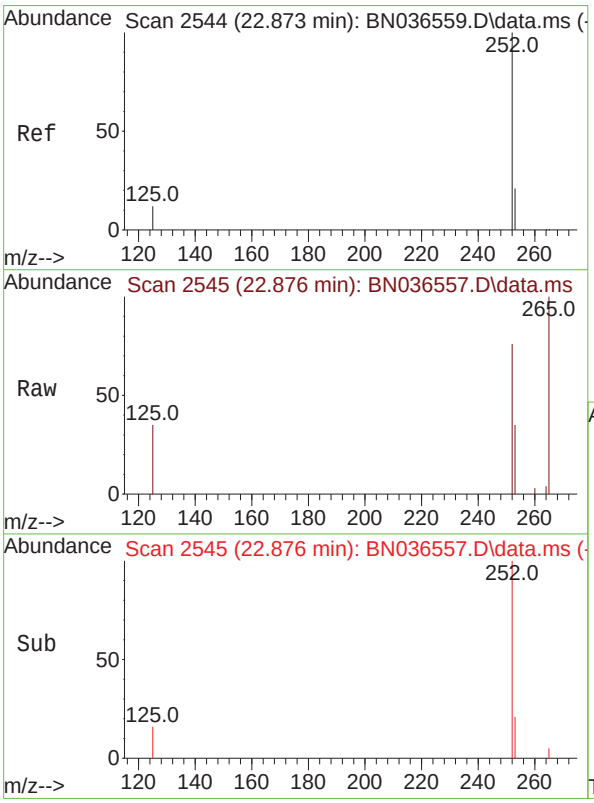
Ion	Ratio	Lower	Upper
276	100		
138	27.6	23.4	35.2
277	24.2	20.0	30.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

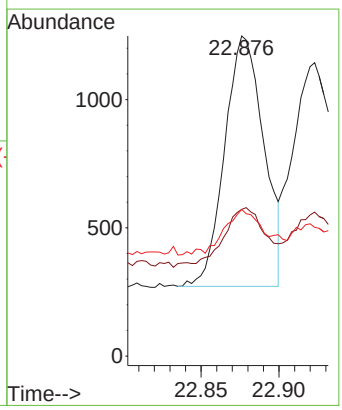
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

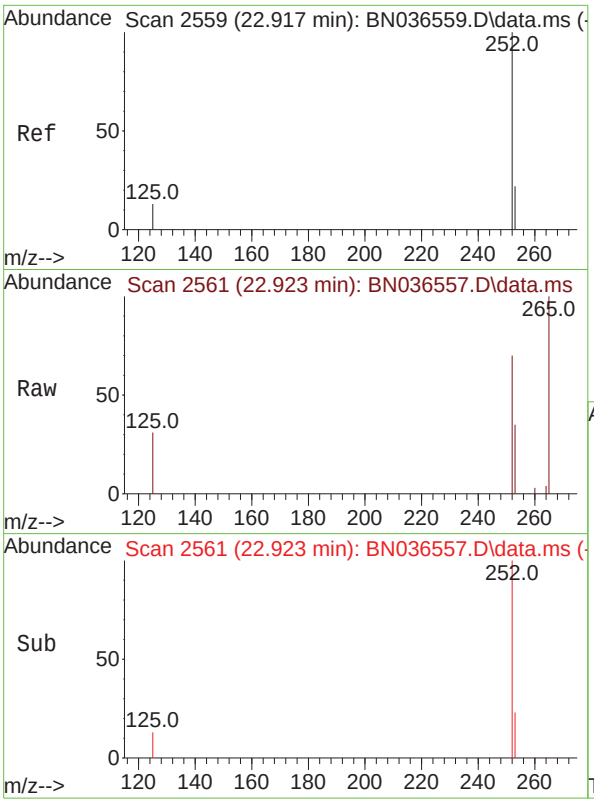


#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2545
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1707

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





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

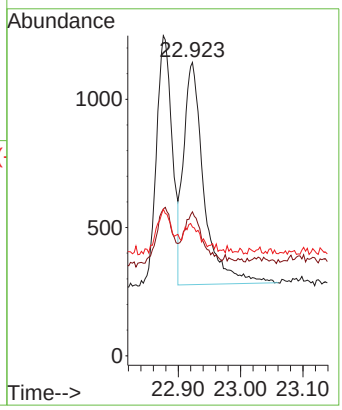
Tgt Ion:252 Resp: 195

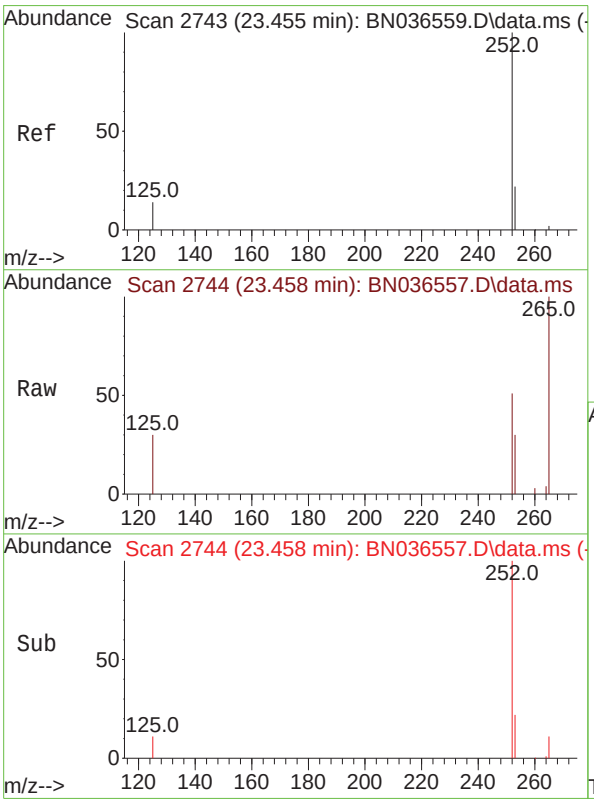
Ion	Ratio	Lower	Upper
252	100		
253	49.0	24.6	36.8#
125	43.9	17.8	26.8#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

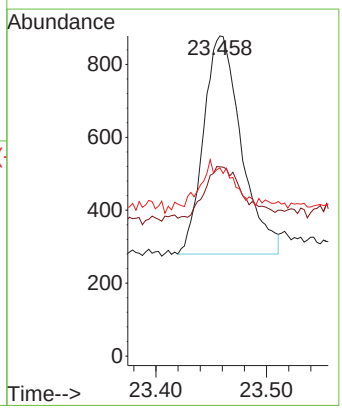


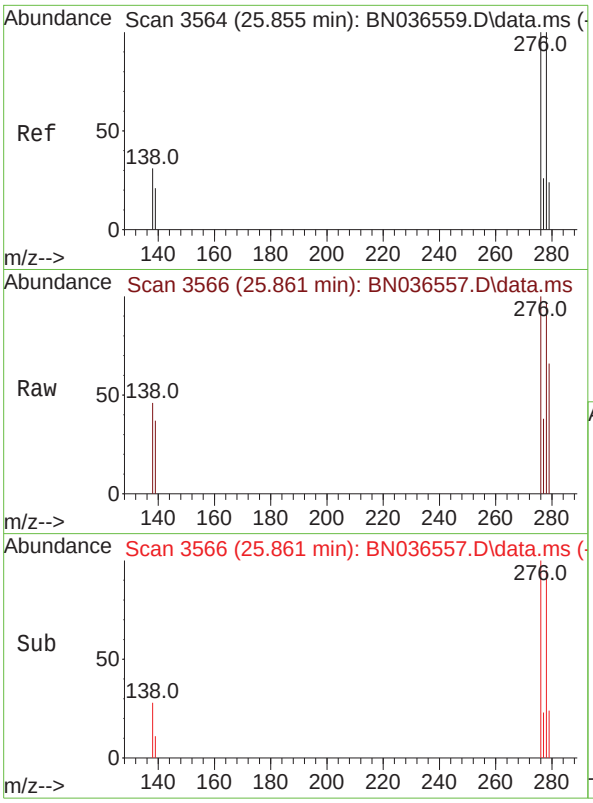


#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2744
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1419

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

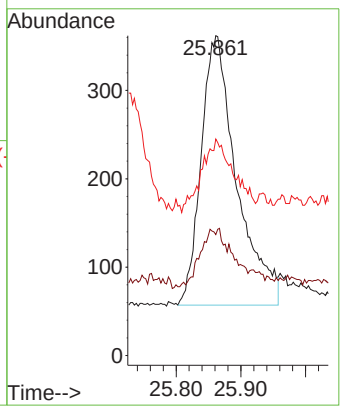




#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:278 Resp: 116

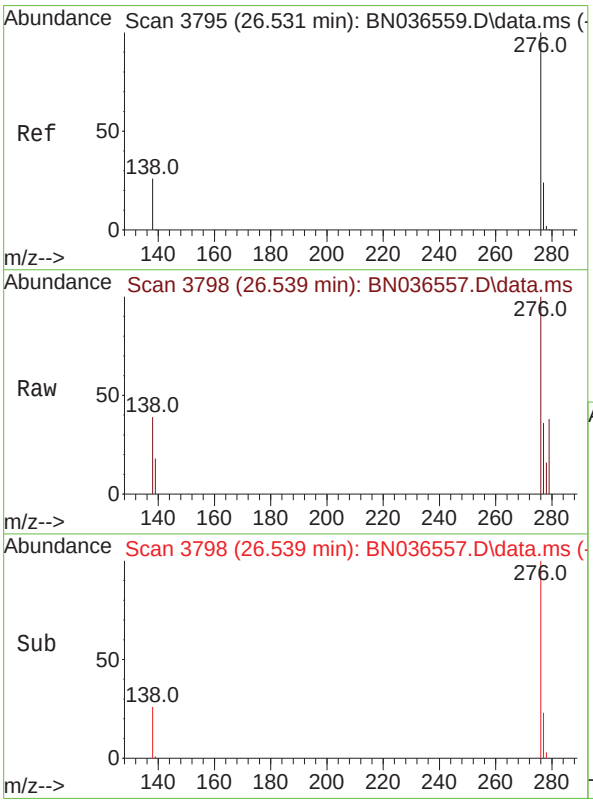
Ion	Ratio	Lower	Upper
278	100		
139	37.8	20.8	31.2#
279	67.7	28.8	43.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

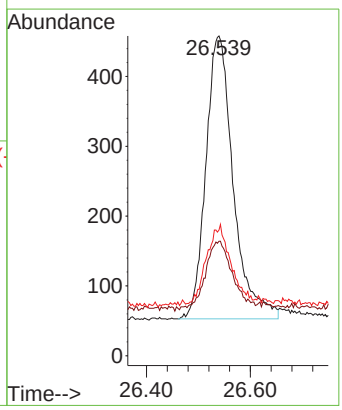
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



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

Tgt Ion:276 Resp: 1482

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



ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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

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

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

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

ICAL Form

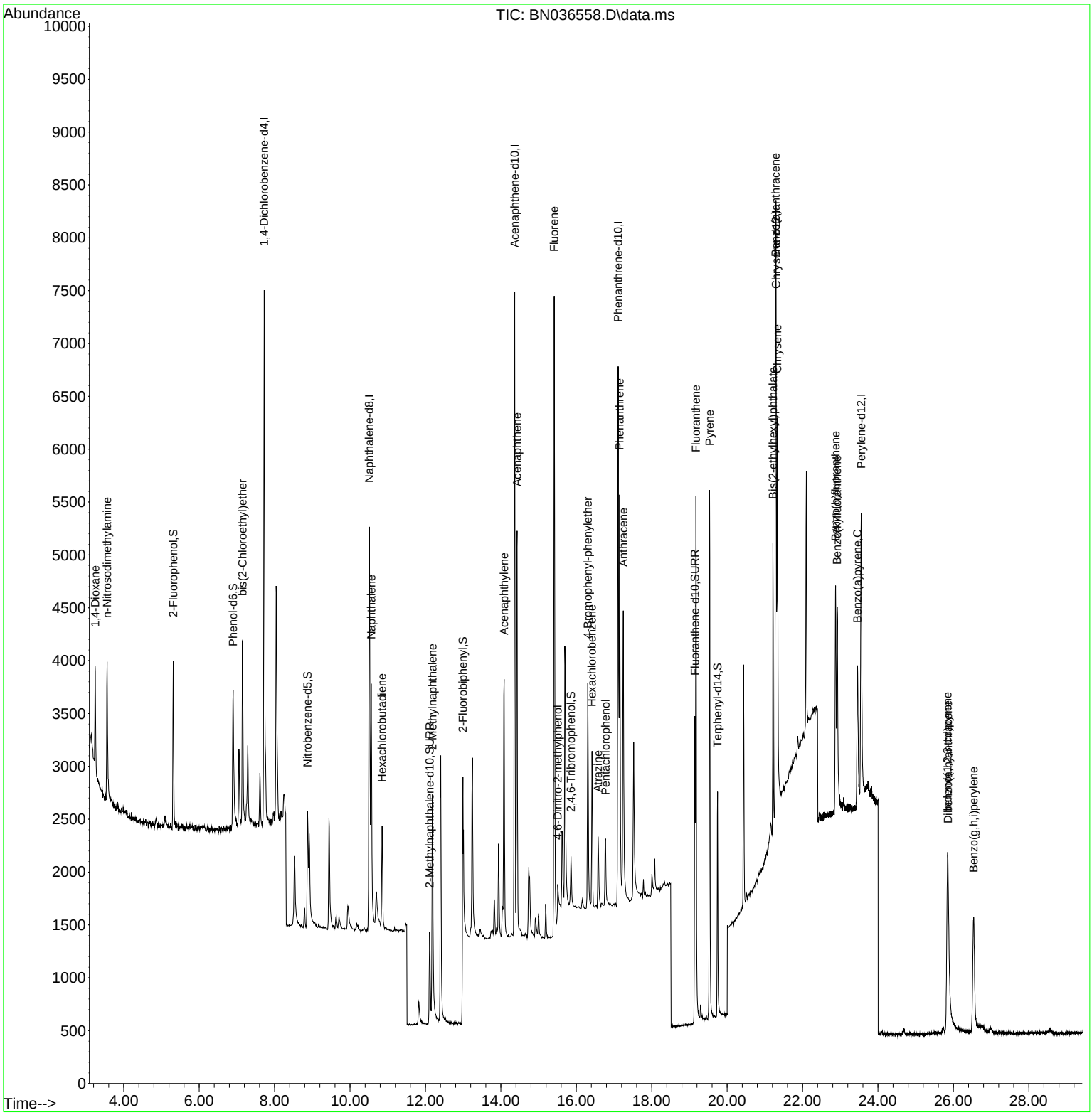
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

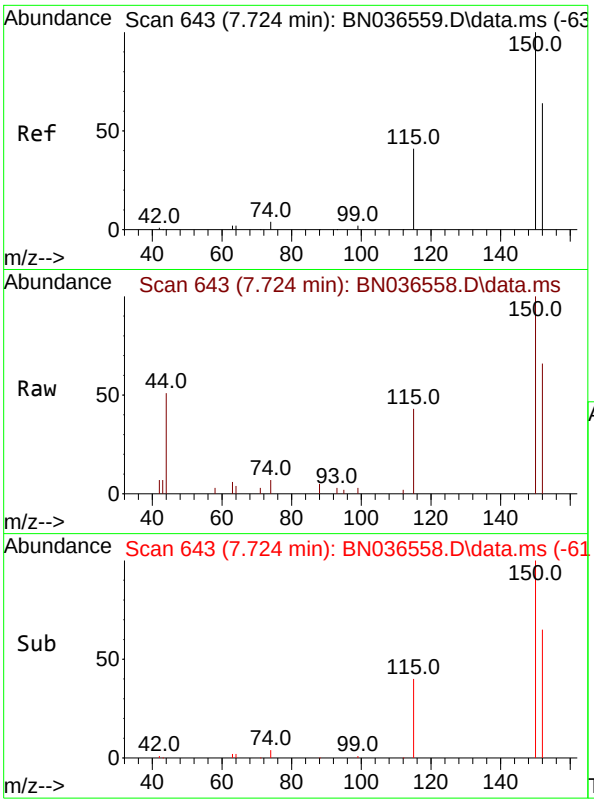
Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

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

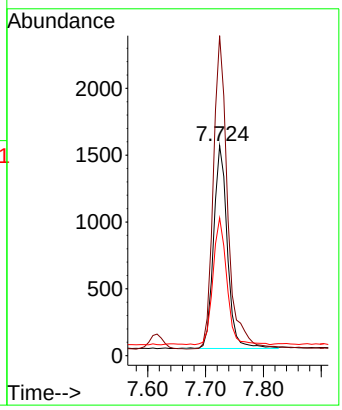




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 250

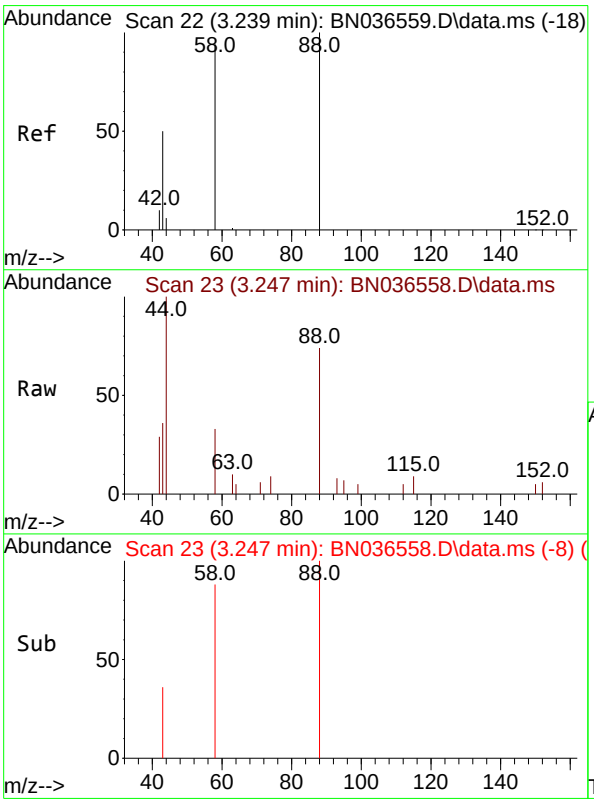
Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.7	185.5
115	65.5	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

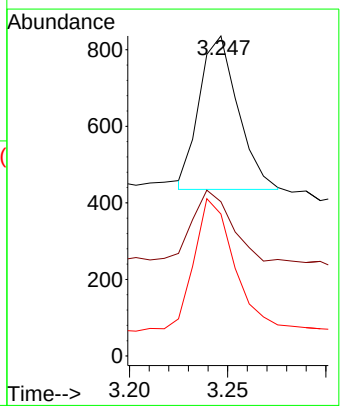
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

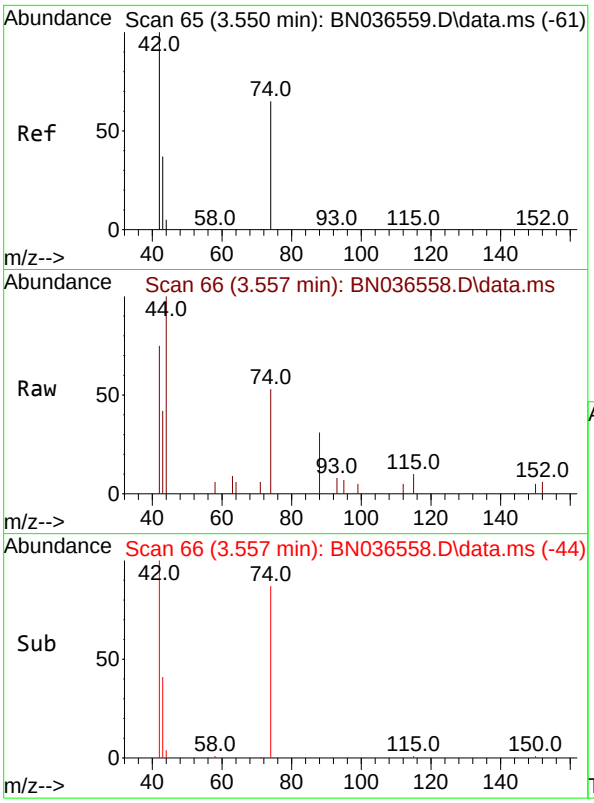


#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 550

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

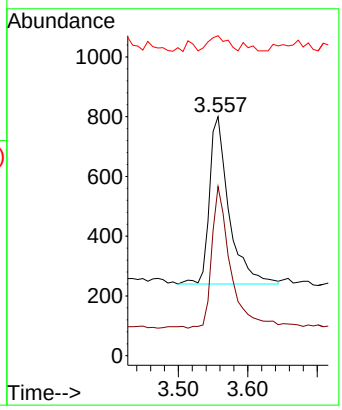




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 42 Resp: 109

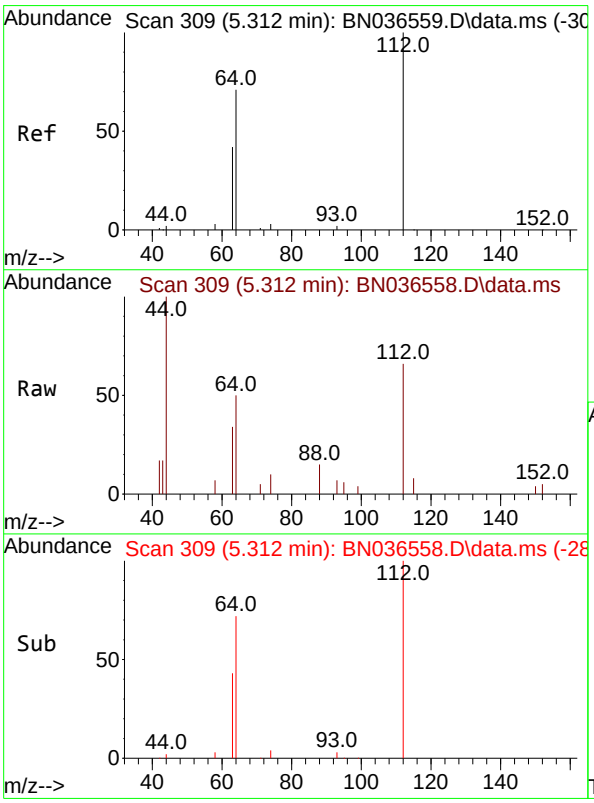
Ion	Ratio	Lower	Upper
42	100		
74	83.2	60.6	90.8
44	8.5	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

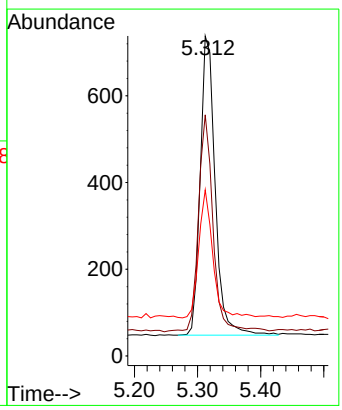
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

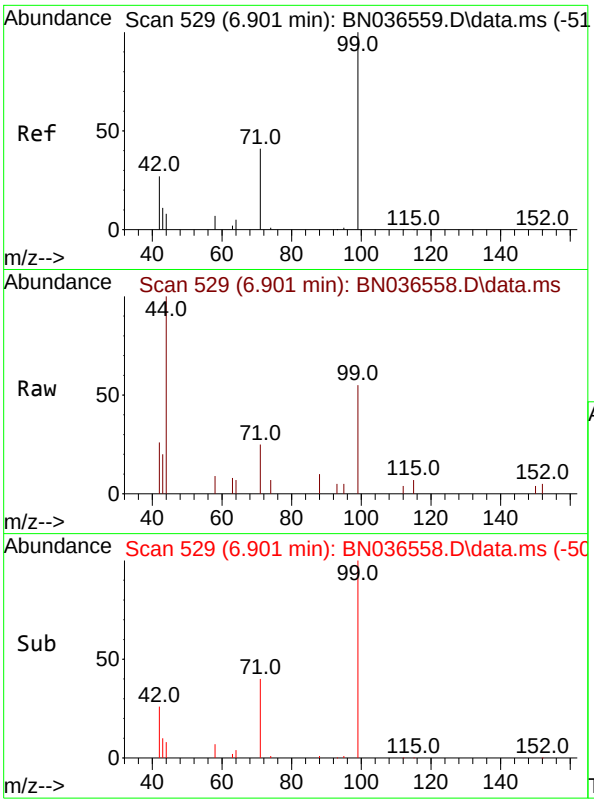


#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137

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

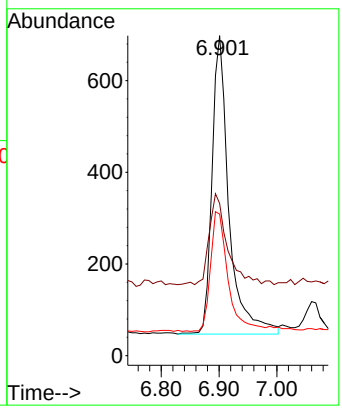




#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 99 Resp: 132

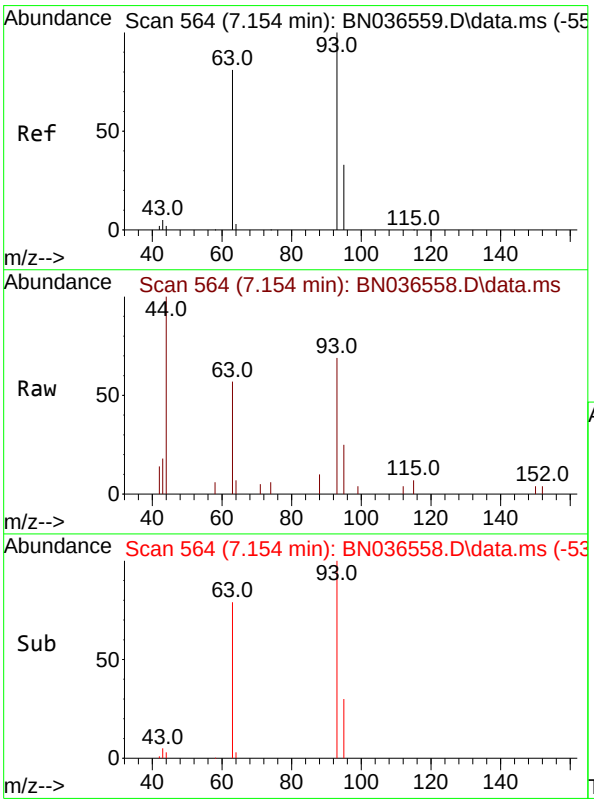
Ion	Ratio	Lower	Upper
99	100		
42	32.7	26.5	39.7
71	41.3	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

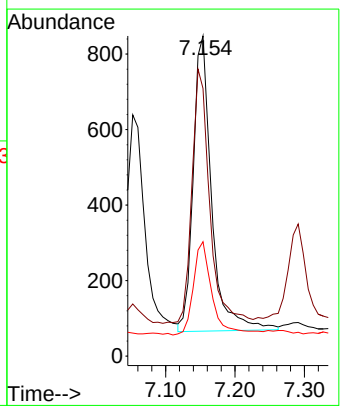
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

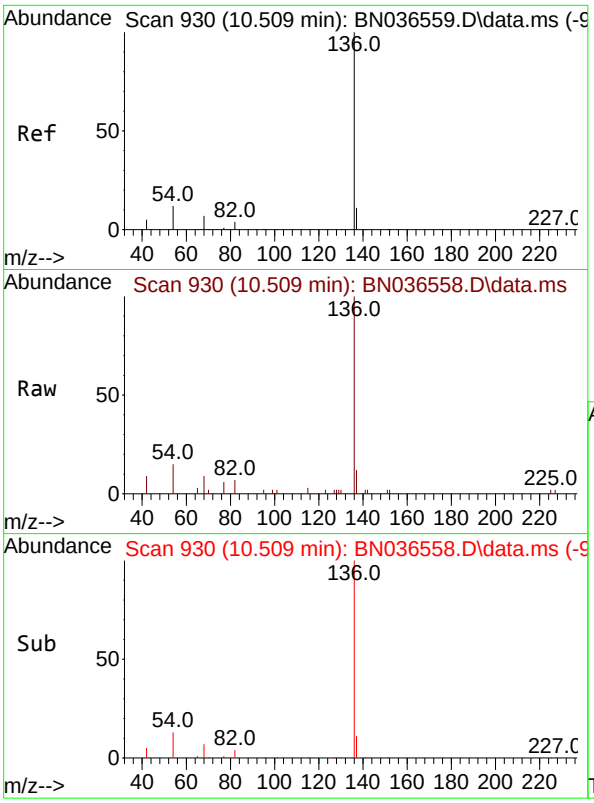


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 93 Resp: 1440

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

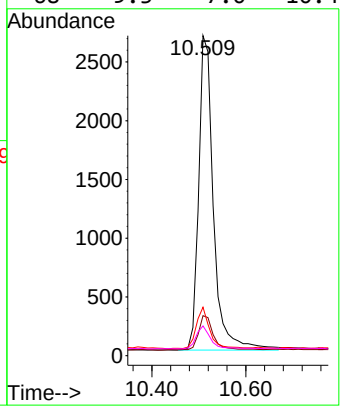




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:136 Resp: 584

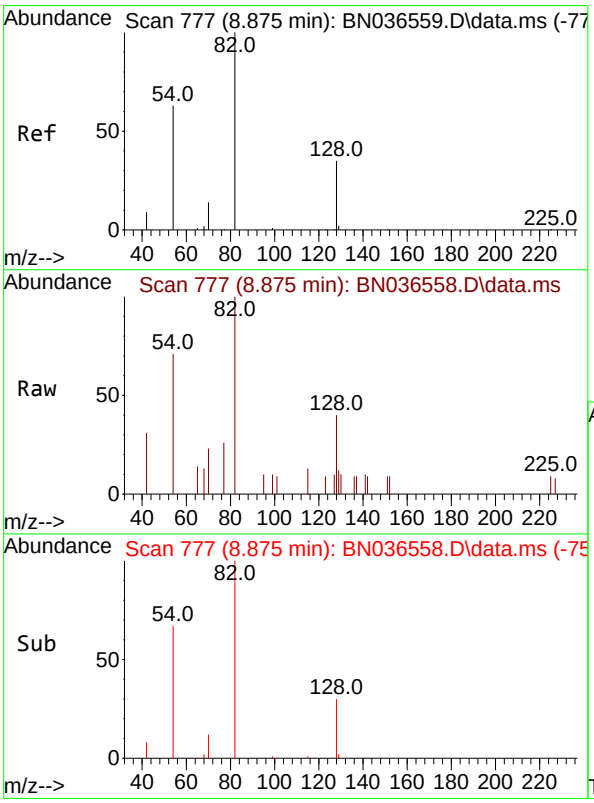
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	15.1	11.5	17.3
68	9.3	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

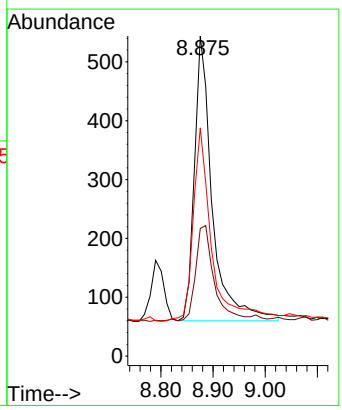
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

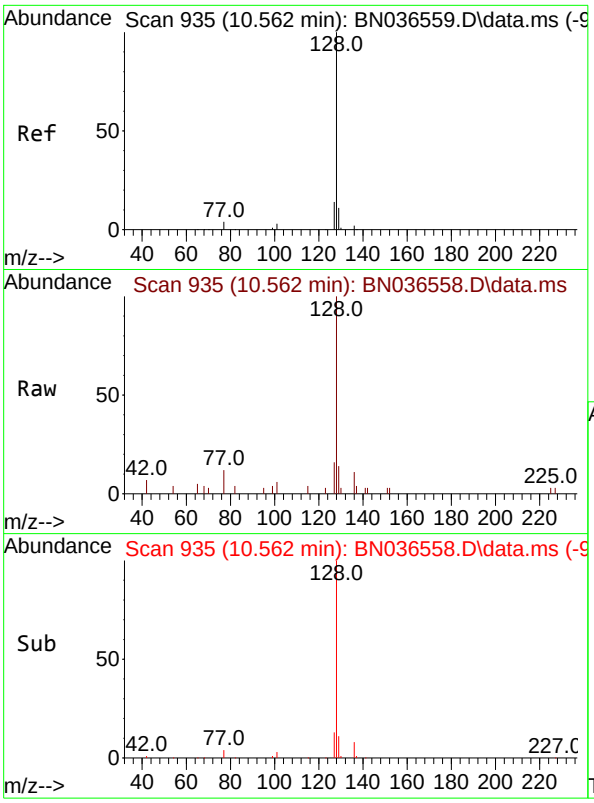


#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156

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

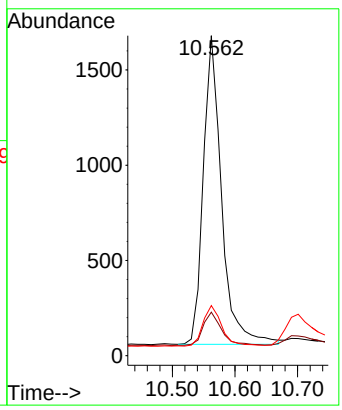




#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:128 Resp: 328

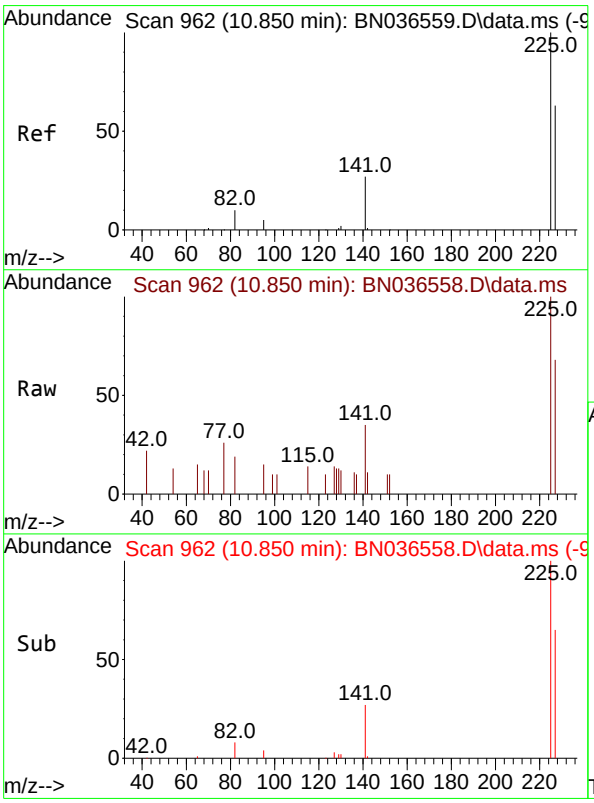
Ion	Ratio	Lower	Upper
128	100		
129	13.6	9.8	14.6
127	15.7	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

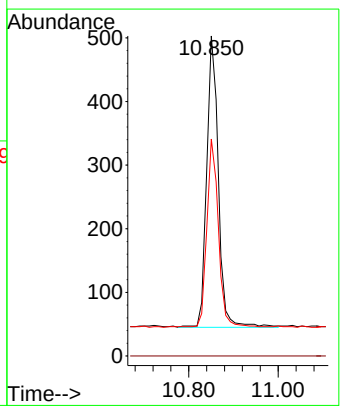
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

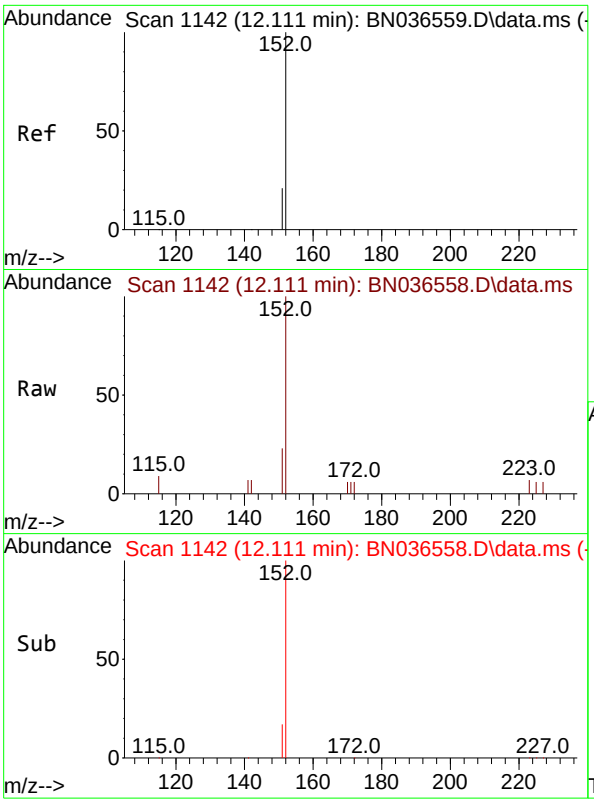


#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:225 Resp: 828

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

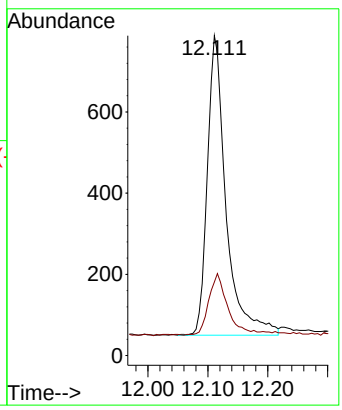




#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 160

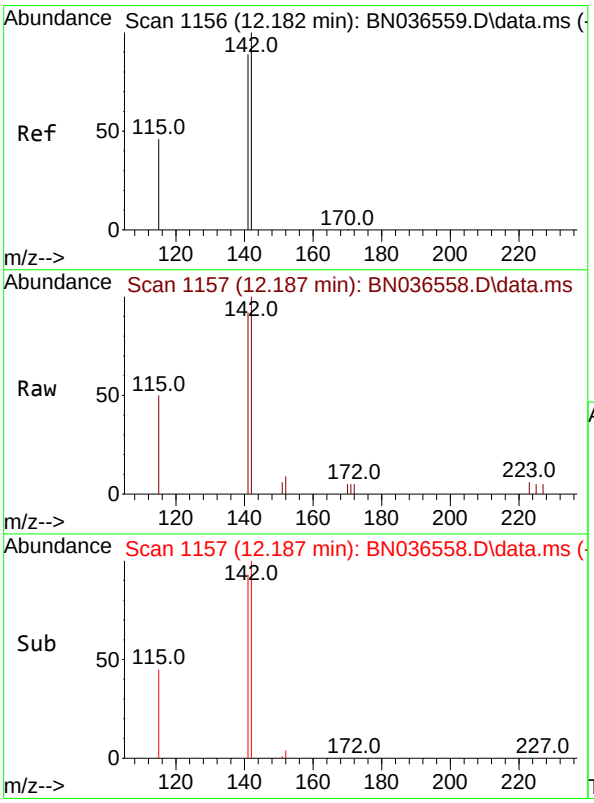
Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

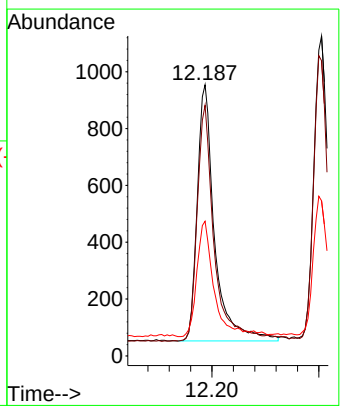
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

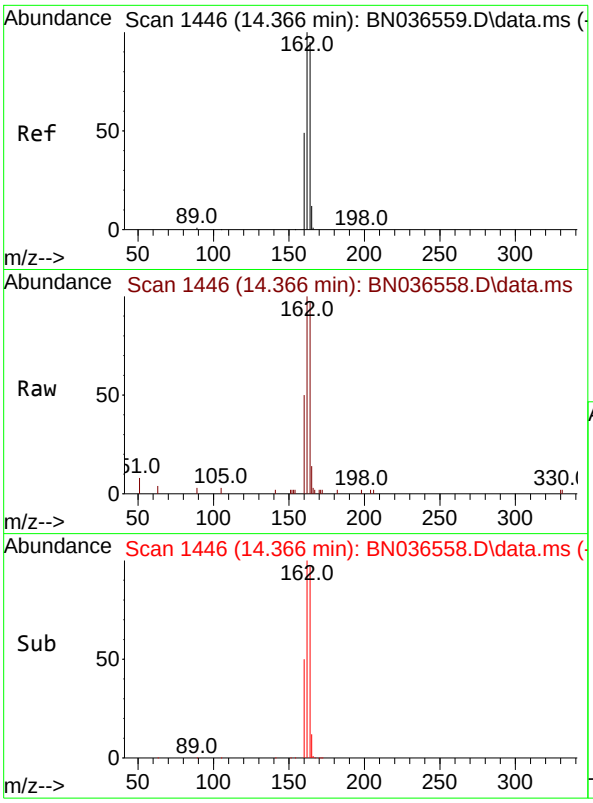


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:142 Resp: 2034

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

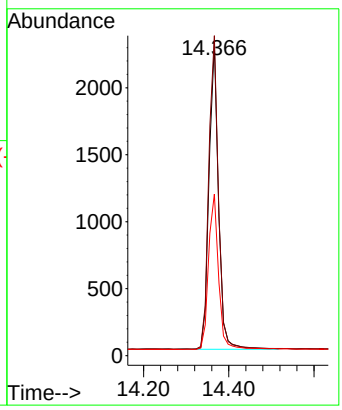




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:164 Resp: 351

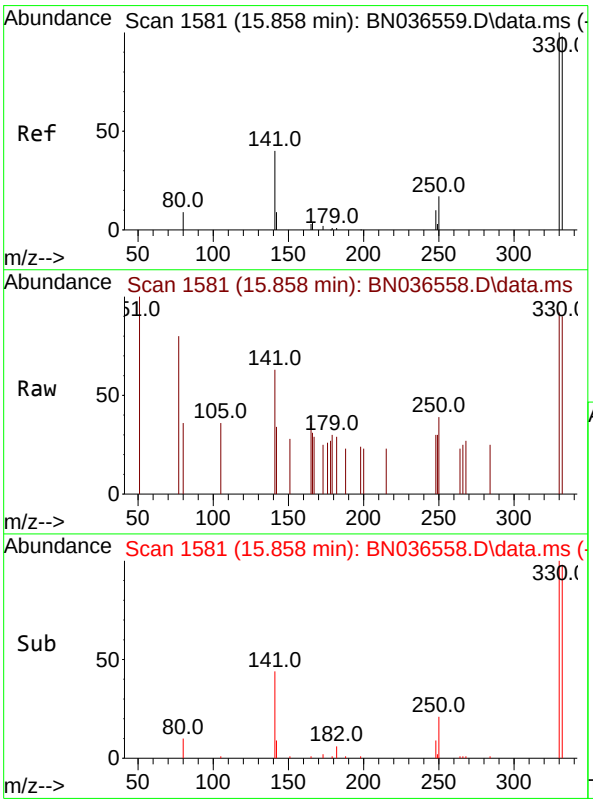
Ion	Ratio	Lower	Upper
164	100		
162	102.6	84.2	126.2
160	51.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

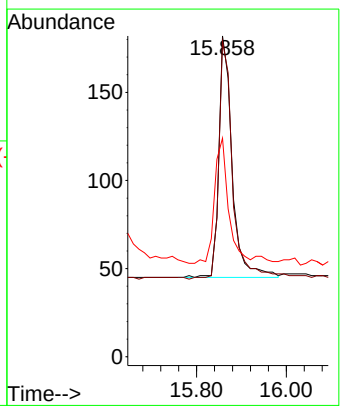
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

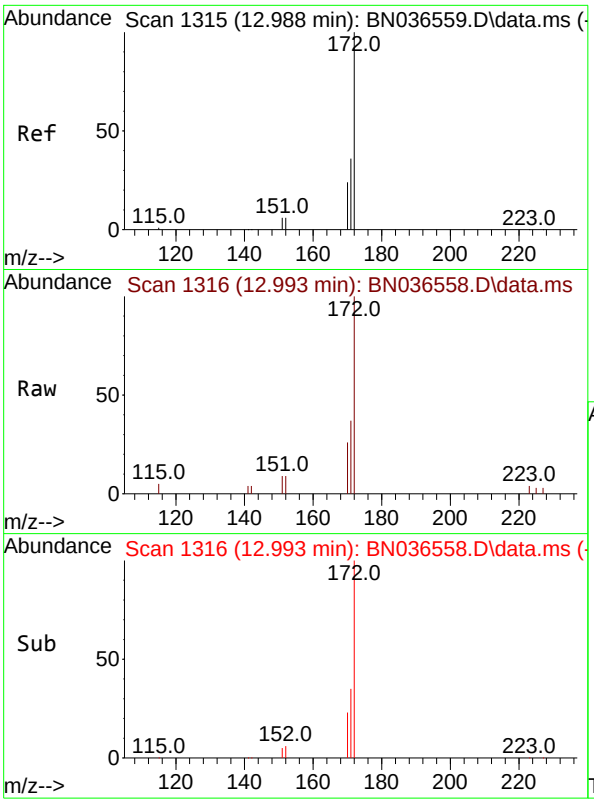


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:330 Resp: 282

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

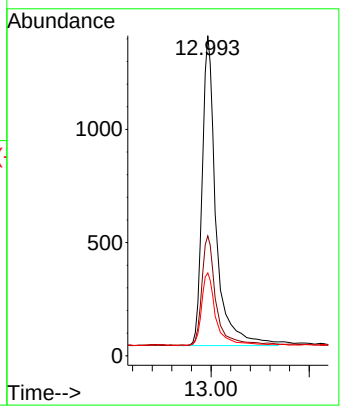




#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:172 Resp: 348

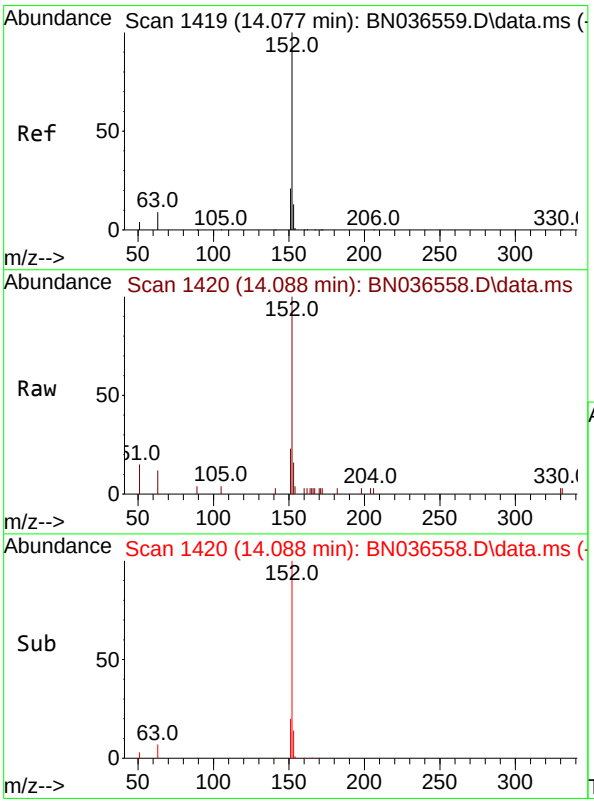
Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.9	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

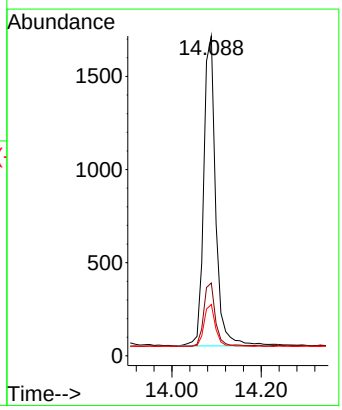
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

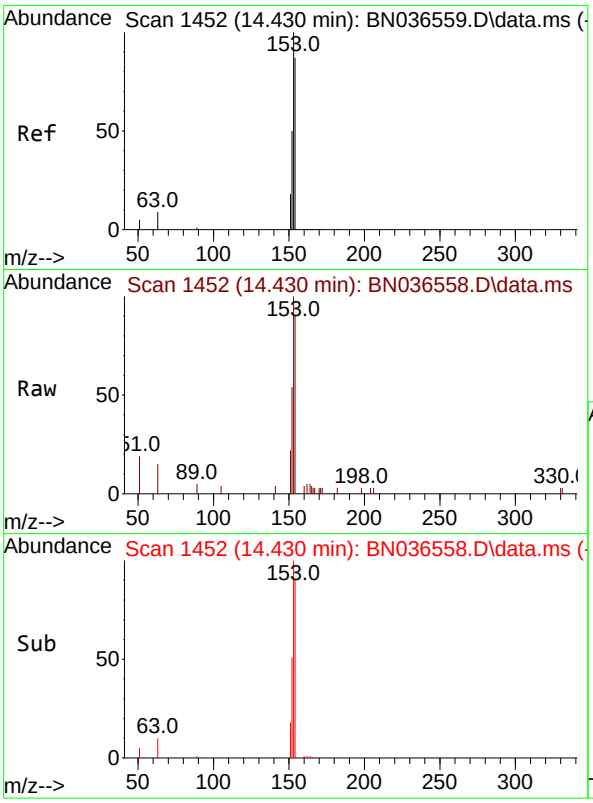


#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 3087

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

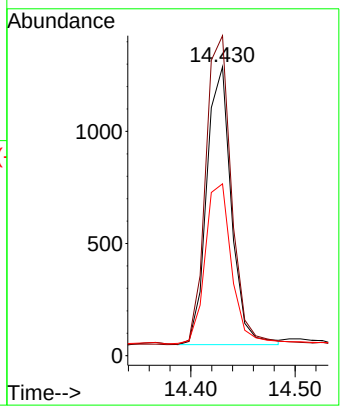




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:154 Resp: 203

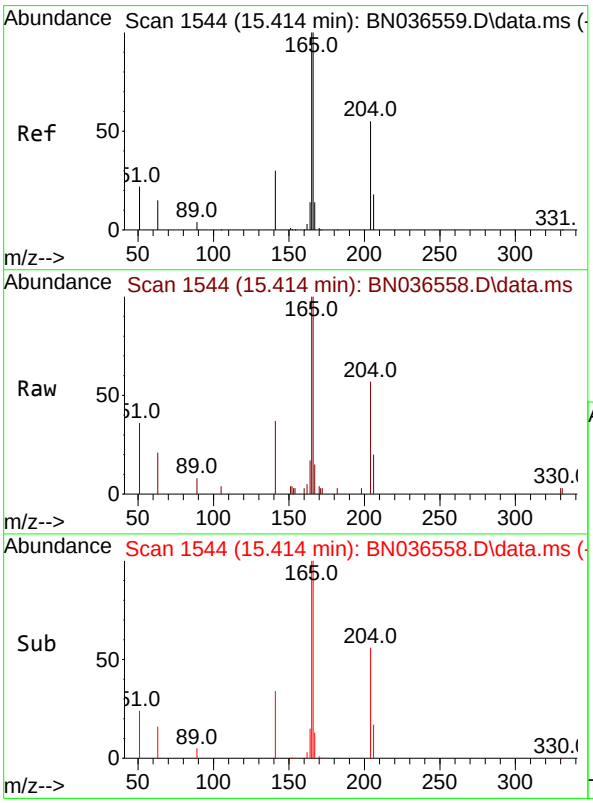
Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	63.1	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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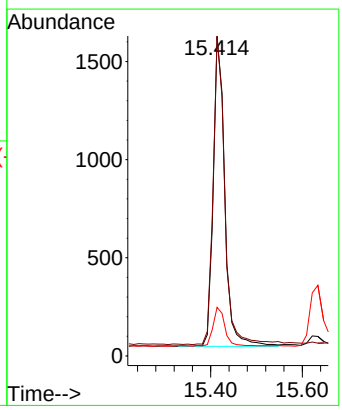
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

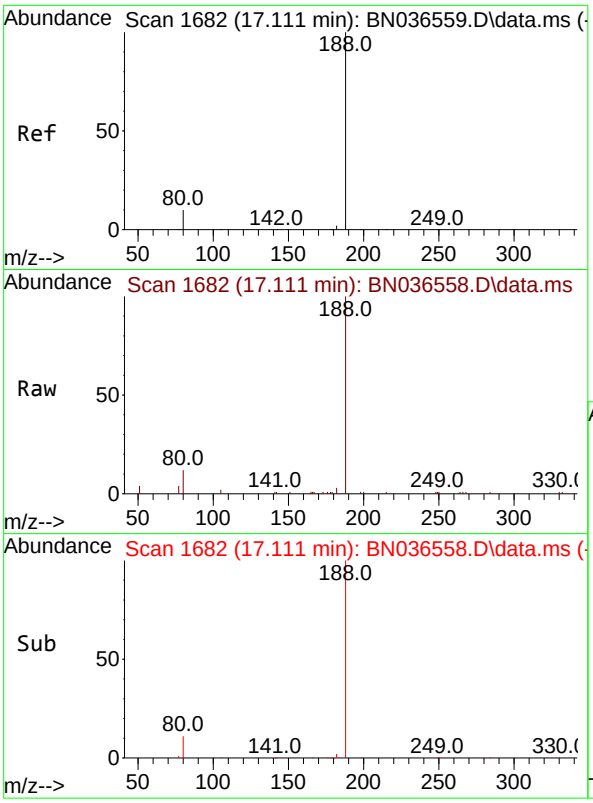


#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813

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

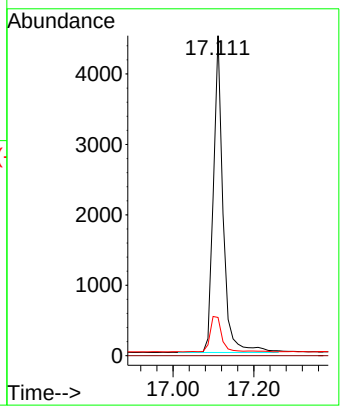




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:188 Resp: 750

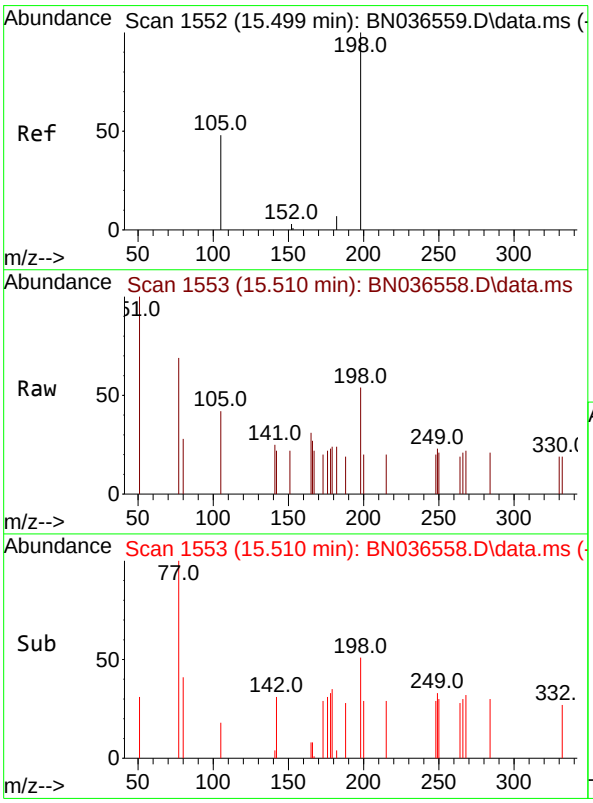
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

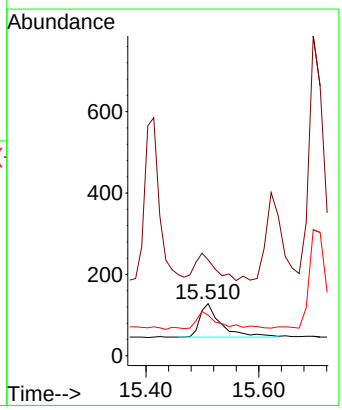
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

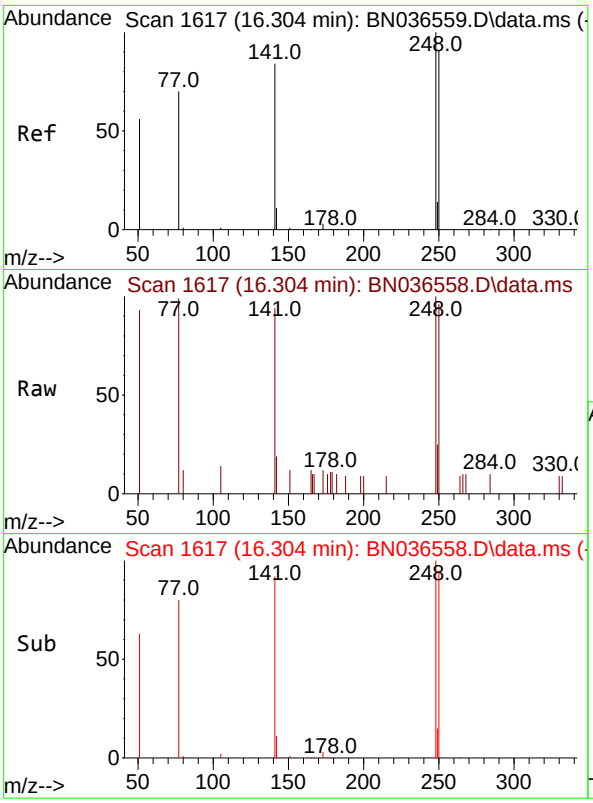


#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:198 Resp: 214

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





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

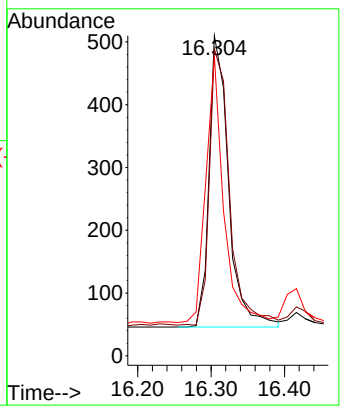
Tgt Ion:248 Resp: 85

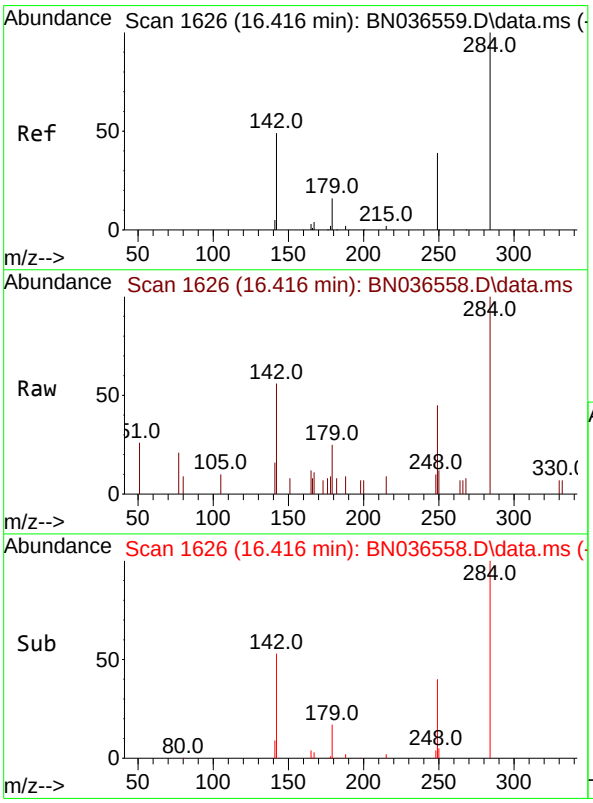
Ion	Ratio	Lower	Upper
248	100		
250	95.9	73.0	109.6
141	93.7	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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

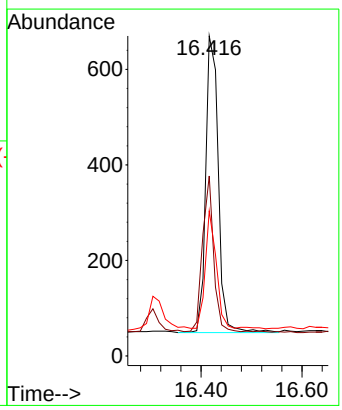


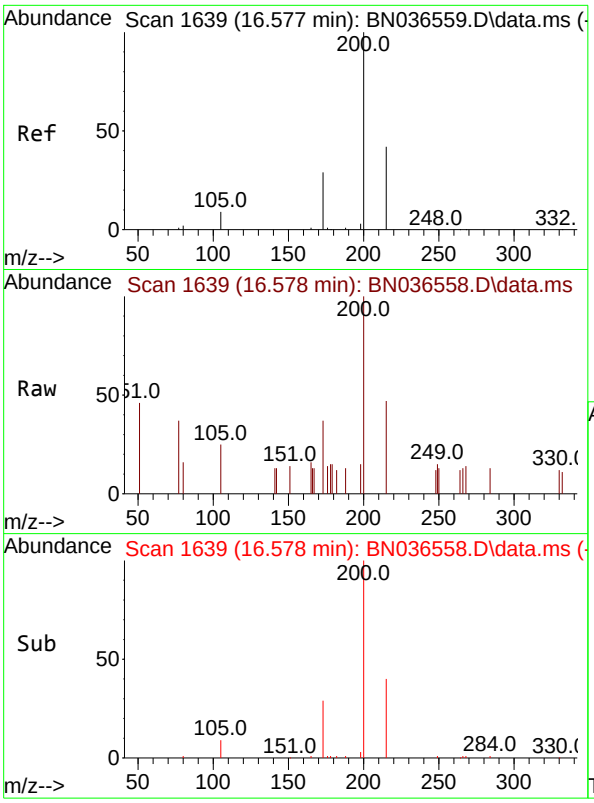


#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:284 Resp: 1079

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

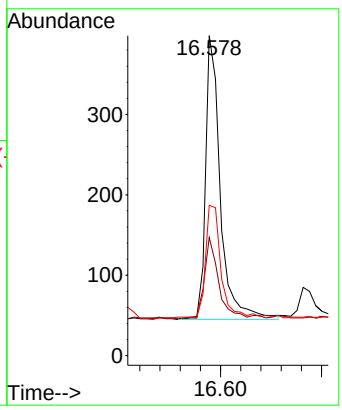




#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:200 Resp: 71(

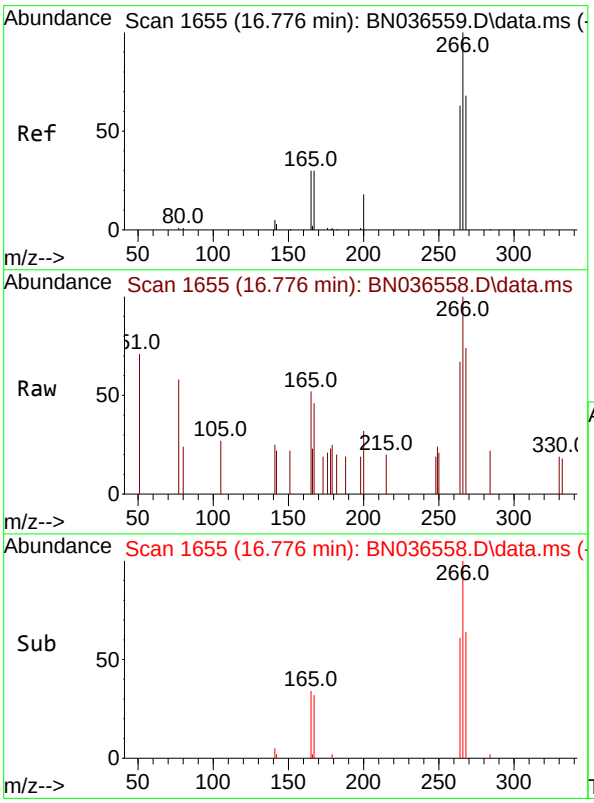
Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.0	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

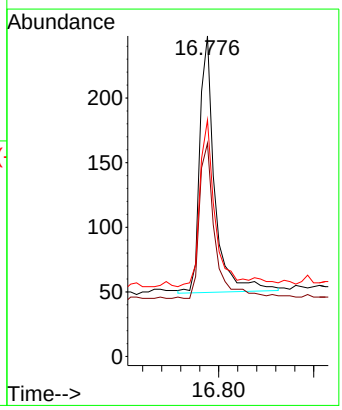
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

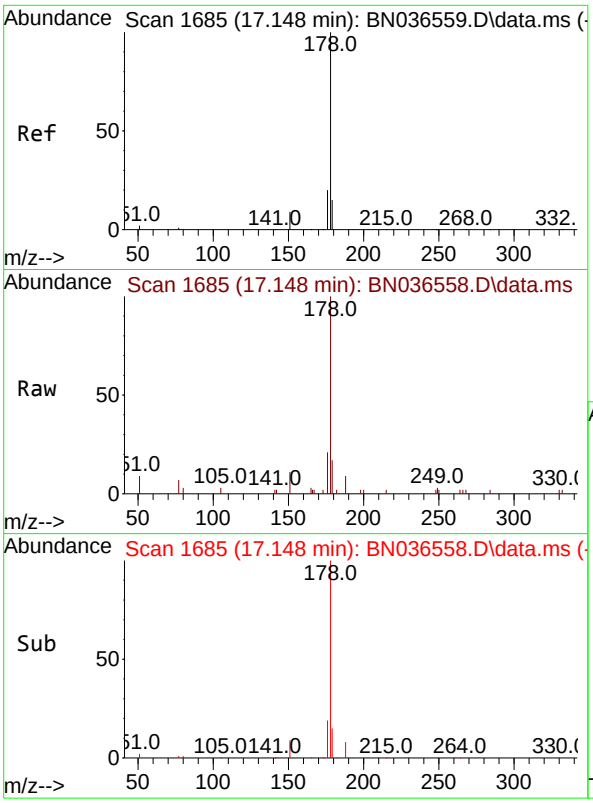


#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:266 Resp: 435

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

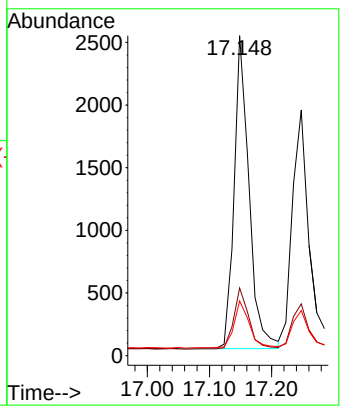




#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 417

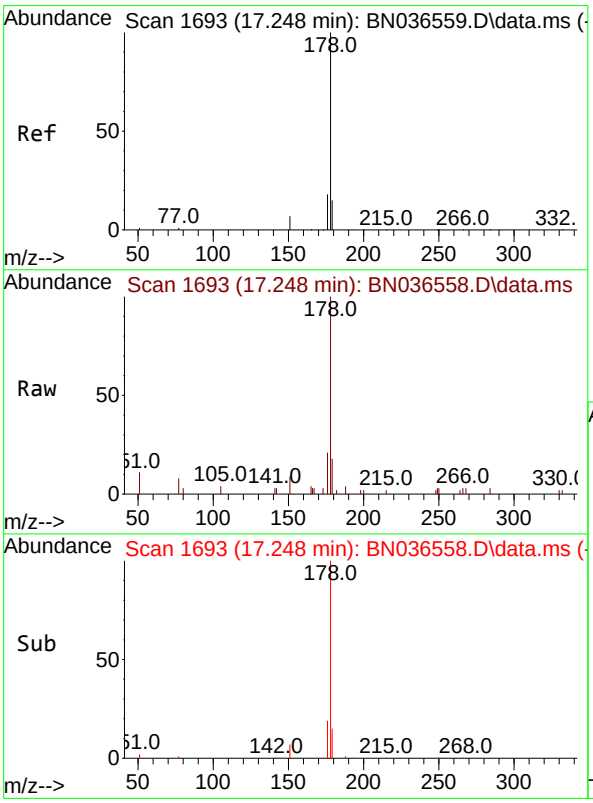
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.5	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

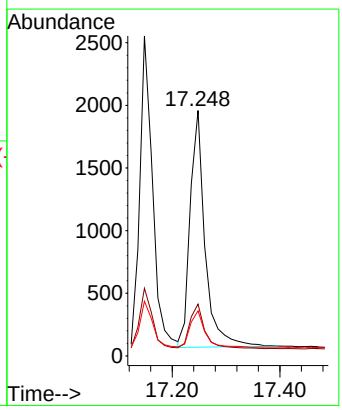
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

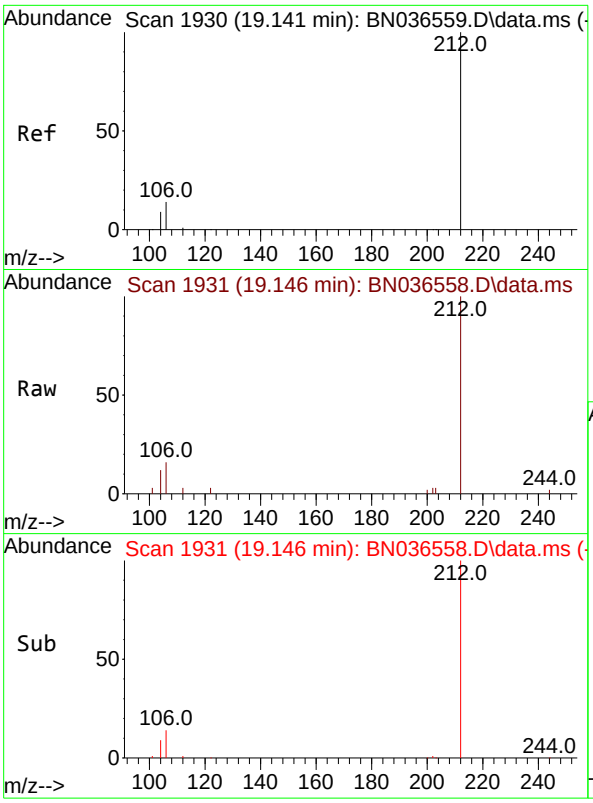


#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645

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





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

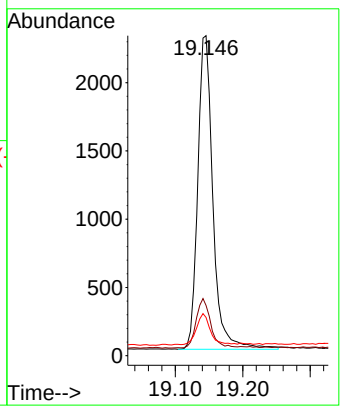
Tgt Ion:212 Resp: 358

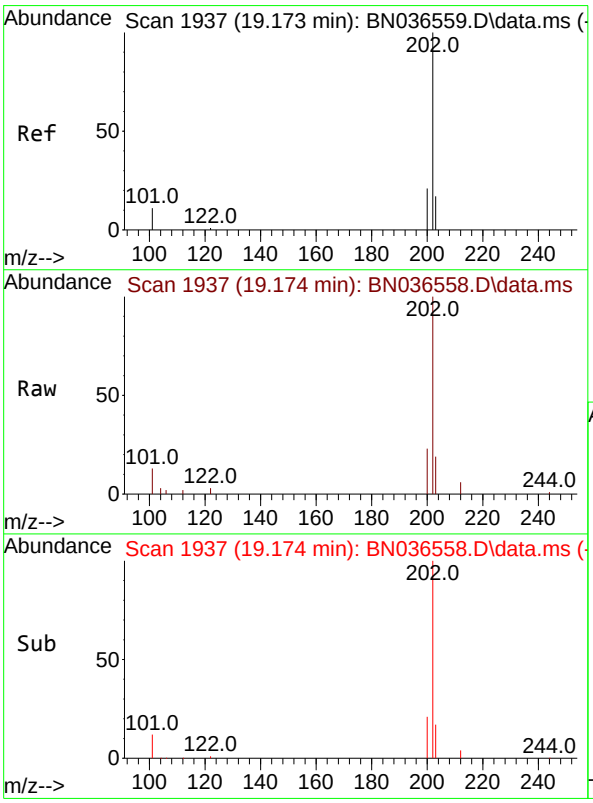
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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

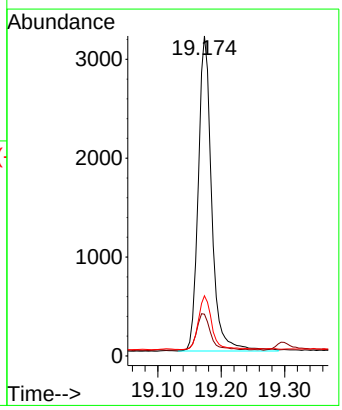


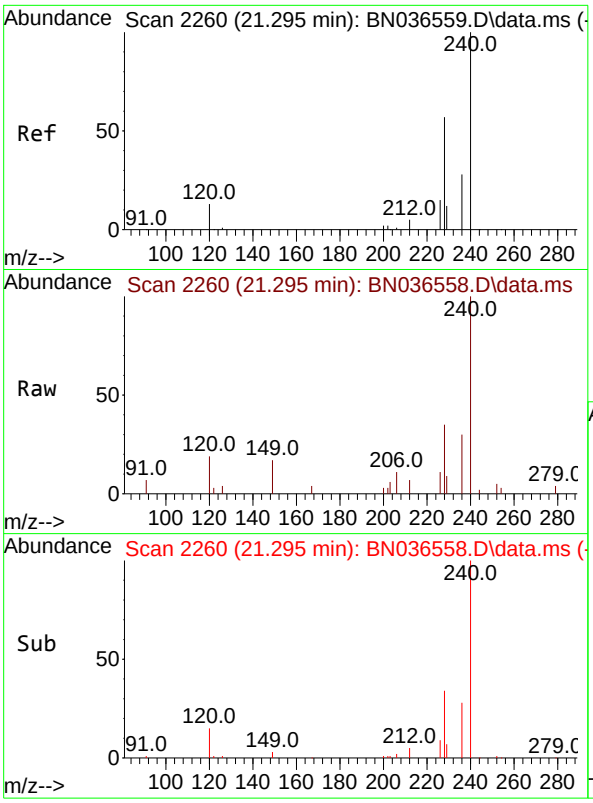


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4666

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





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

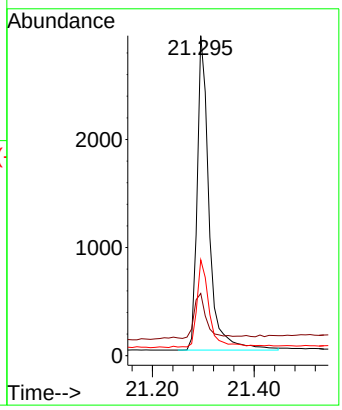
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

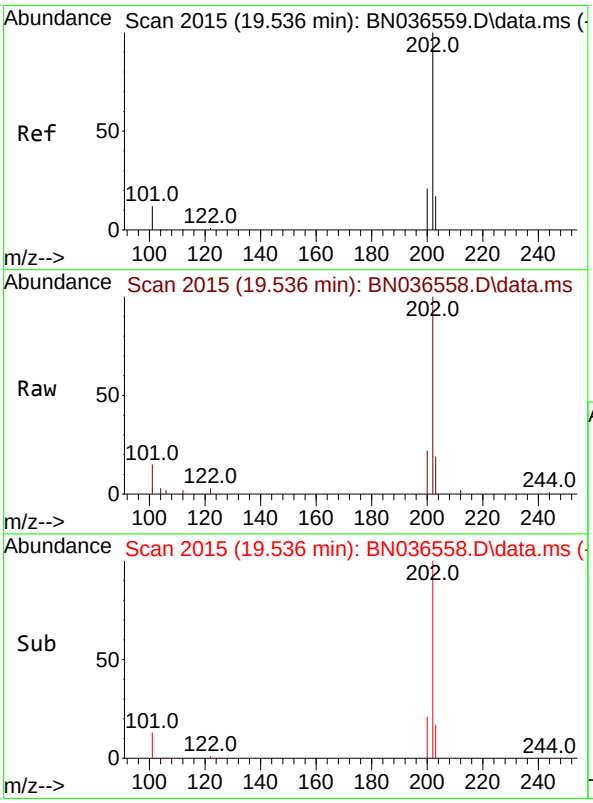
Tgt Ion:240 Resp: 473

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

Manual Integrations APPROVED

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

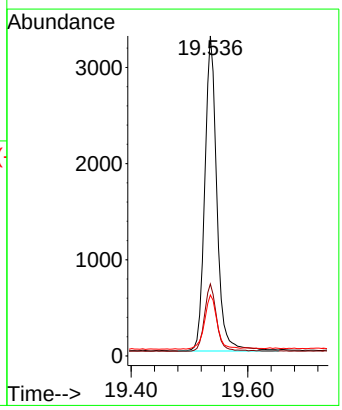


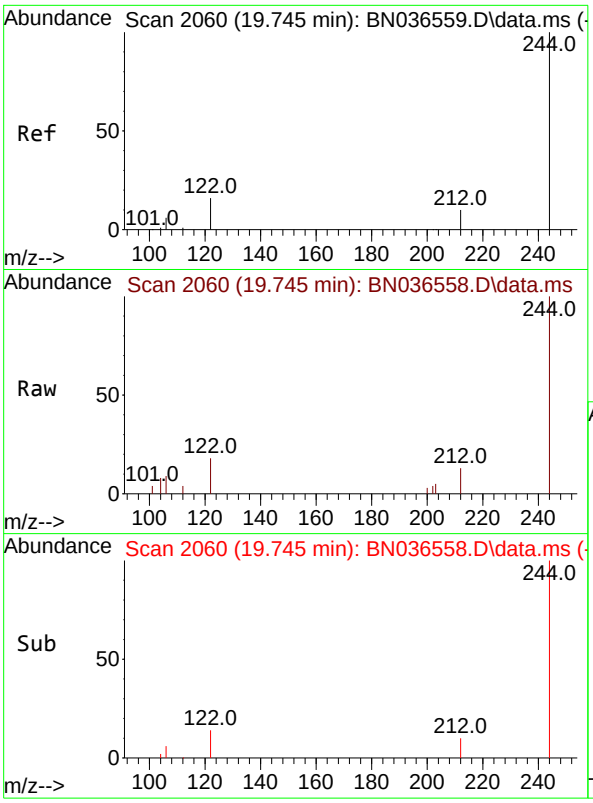


#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4742

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

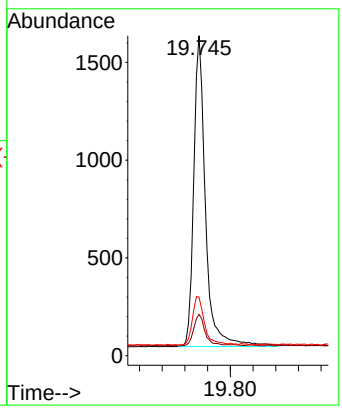




#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:244 Resp: 228

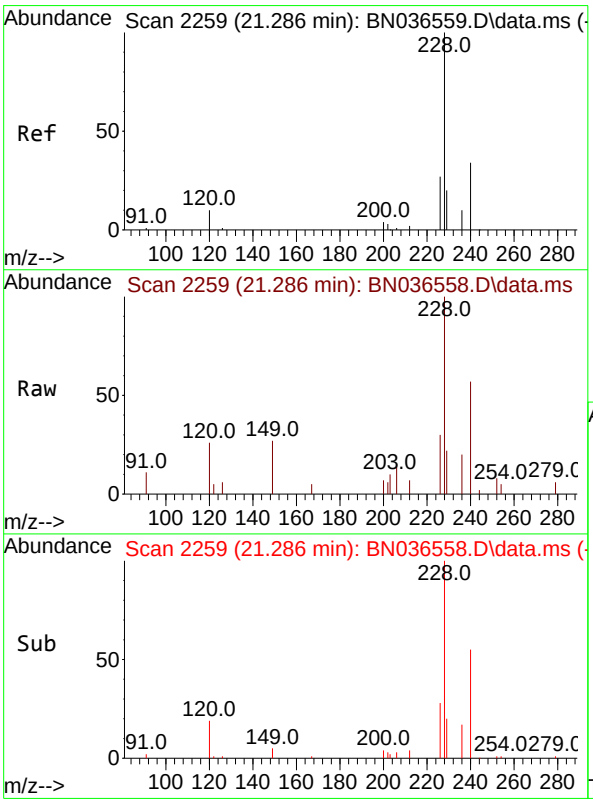
Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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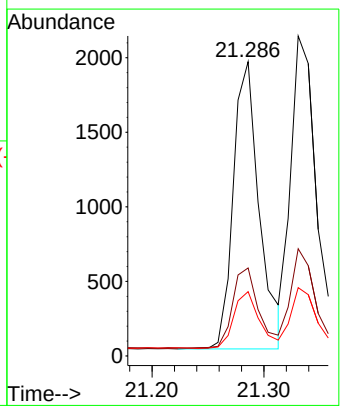
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

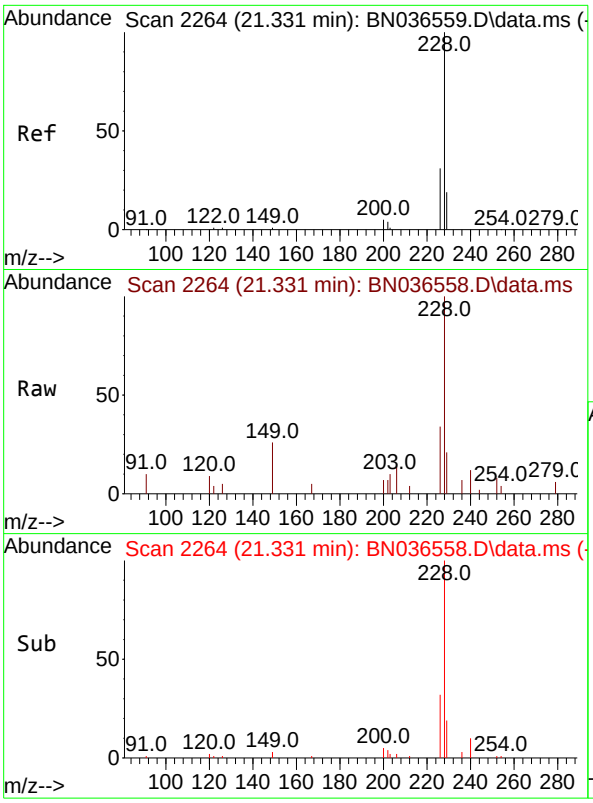


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 3111

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

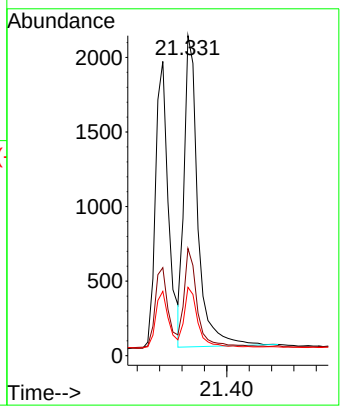




#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 356

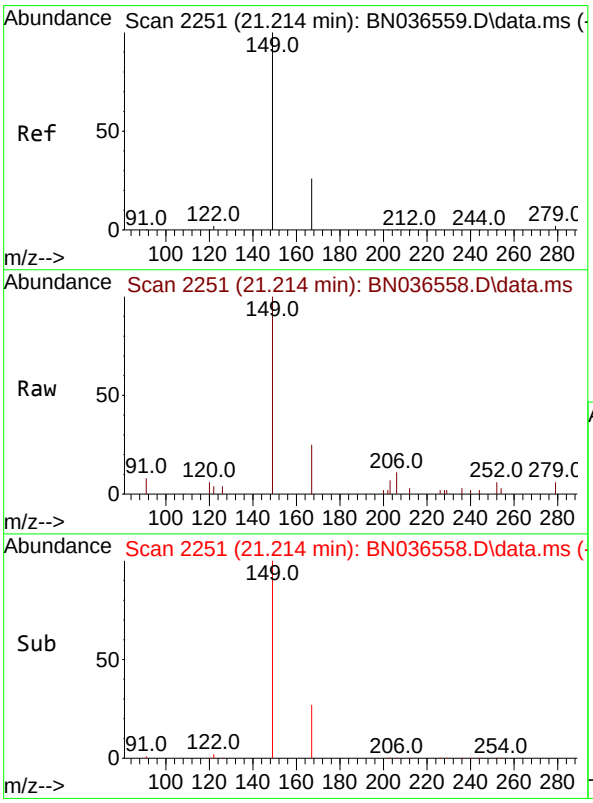
Ion	Ratio	Lower	Upper
228	100		
226	33.5	25.3	37.9
229	21.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

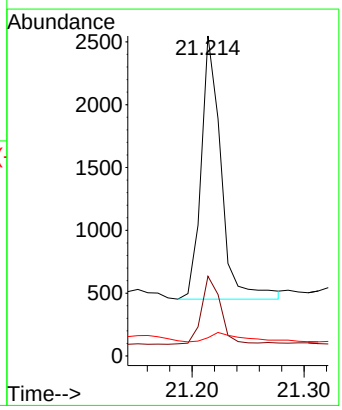
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

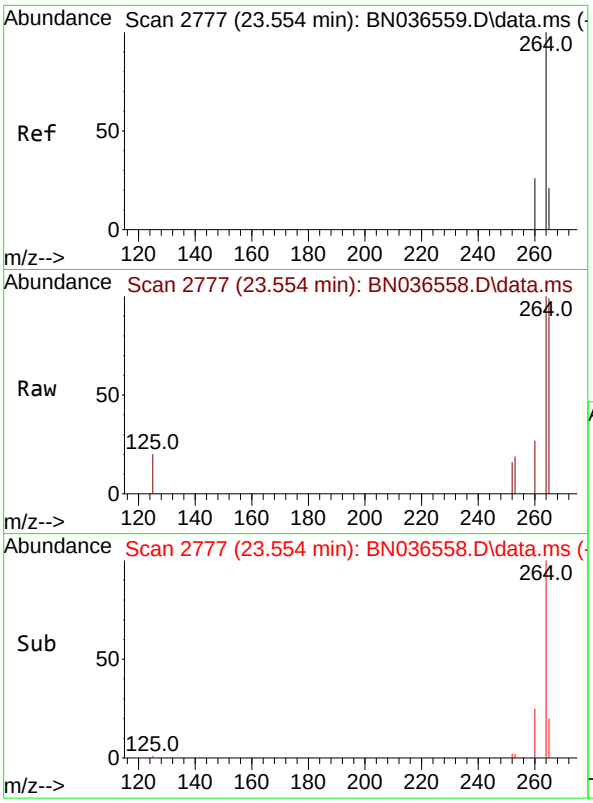


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:149 Resp: 2601

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

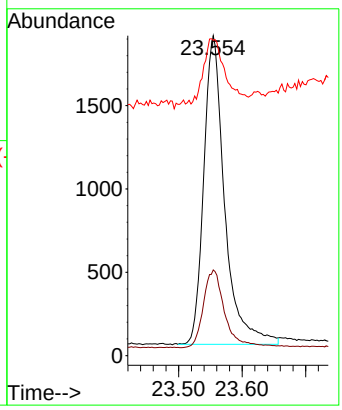




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:264 Resp: 424

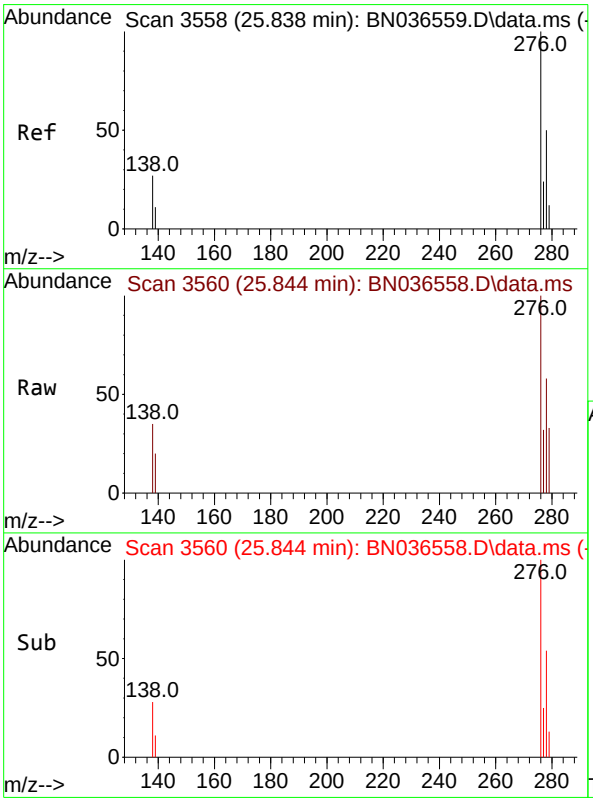
Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	98.5	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

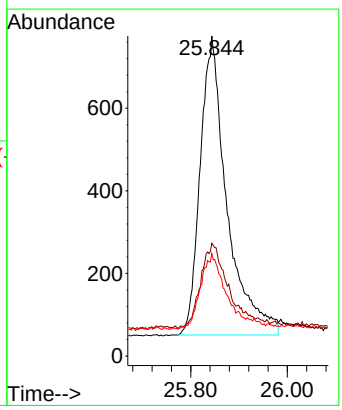
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

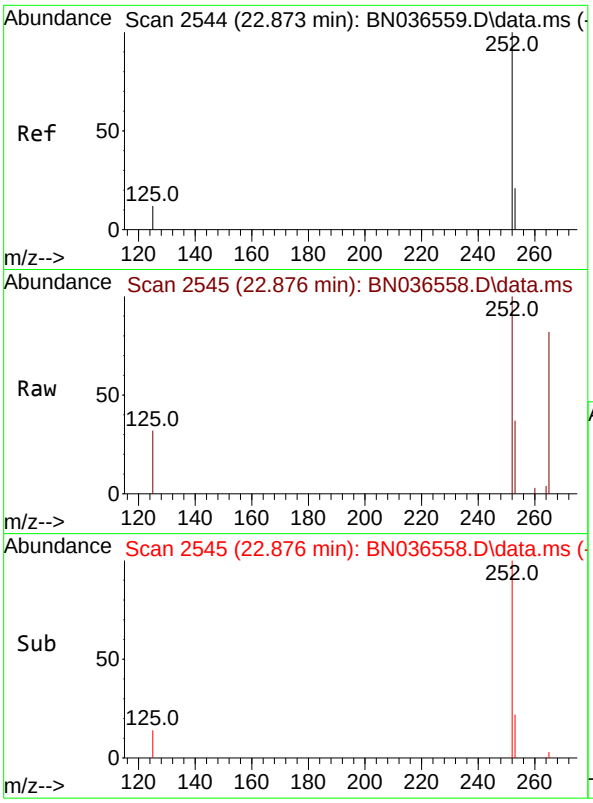


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 2790

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





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

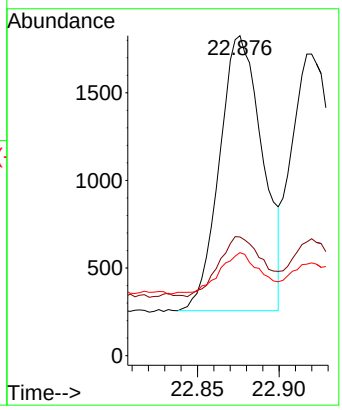
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

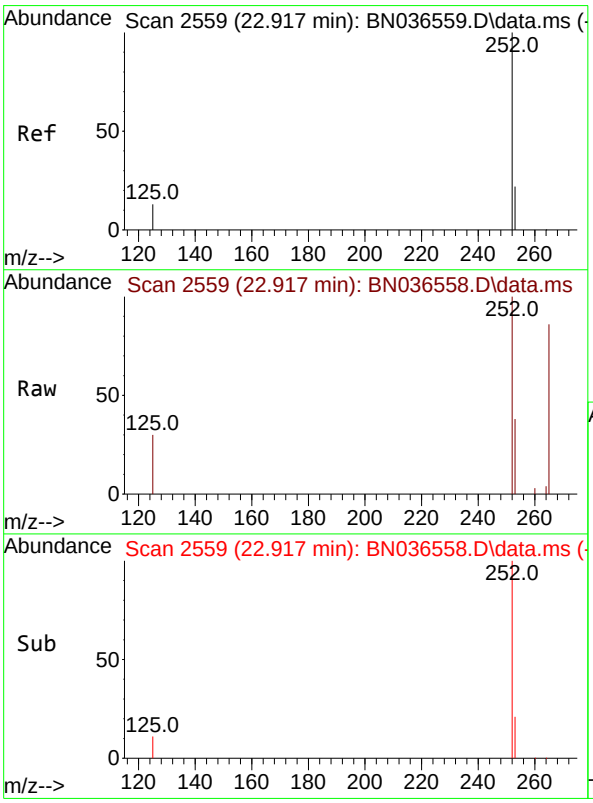
Tgt Ion:252 Resp: 288

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

Manual Integrations
APPROVED

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

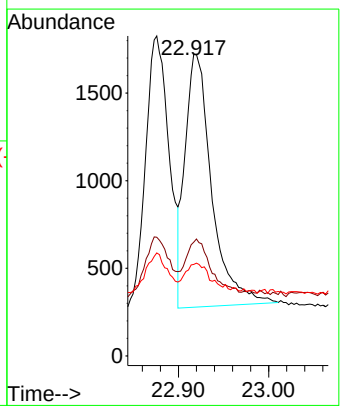


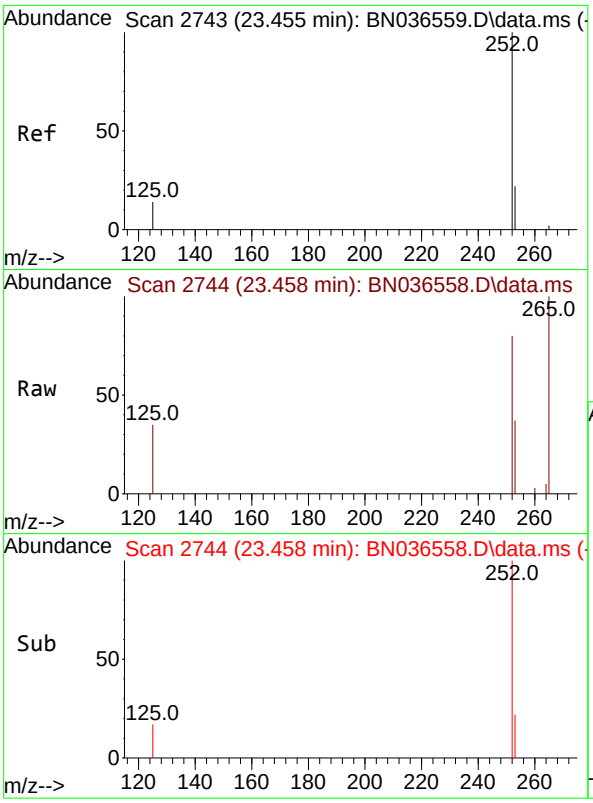


#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 2962

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

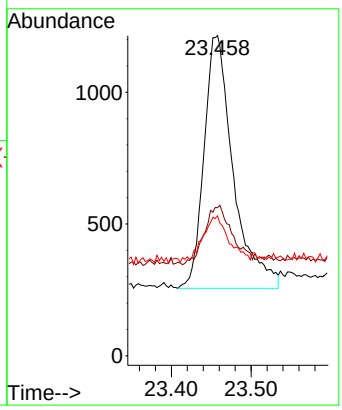




#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 244

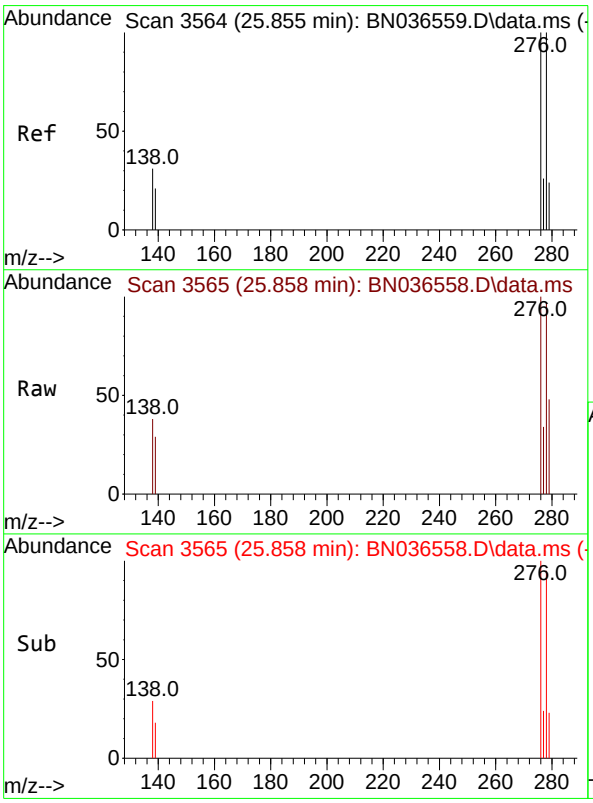
Ion	Ratio	Lower	Upper
252	100		
253	46.3	27.8	41.8#
125	43.7	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

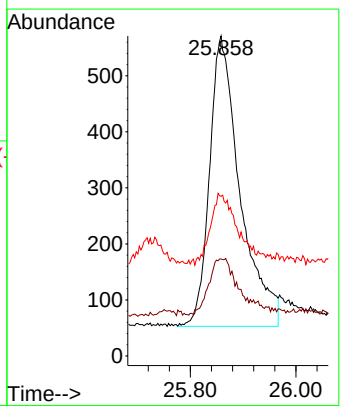
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

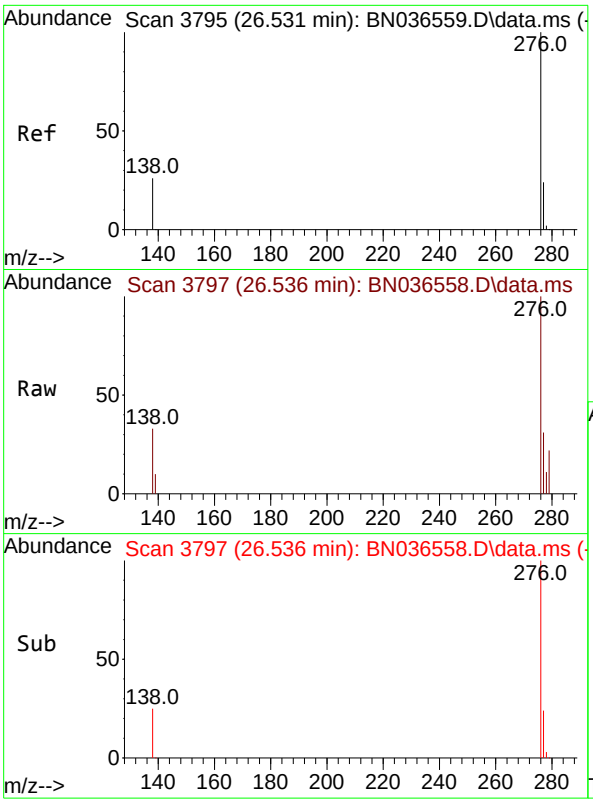


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:278 Resp: 2080

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

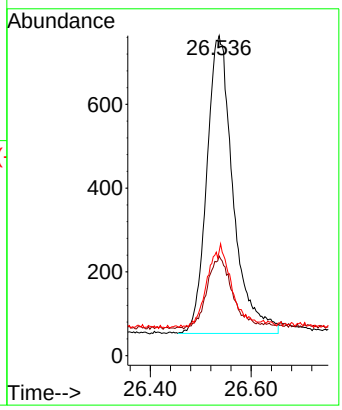




#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 257

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

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

Quantitation Report (QT Reviewed)

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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

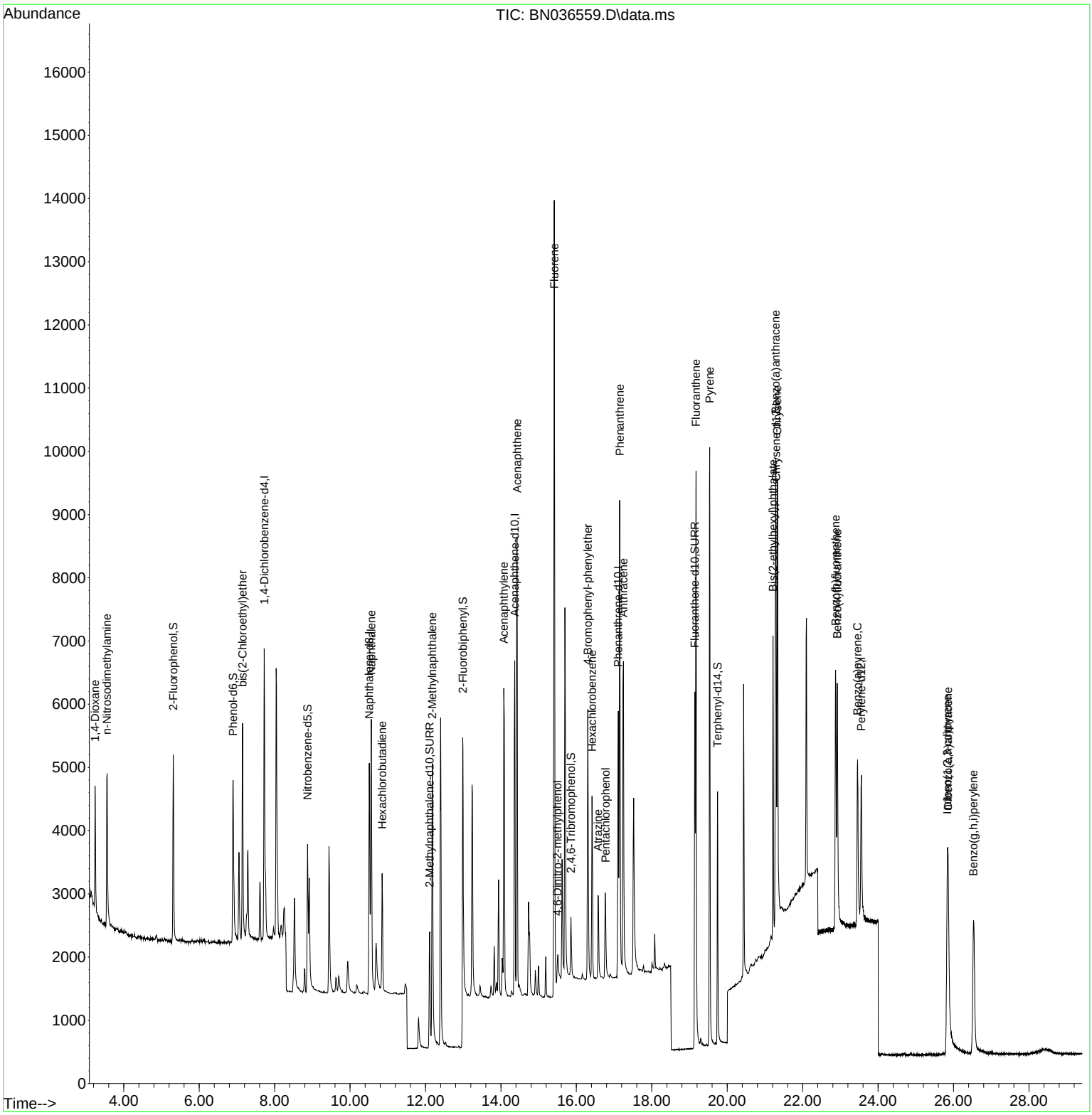
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng		0.00
29) Chrysene-d12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

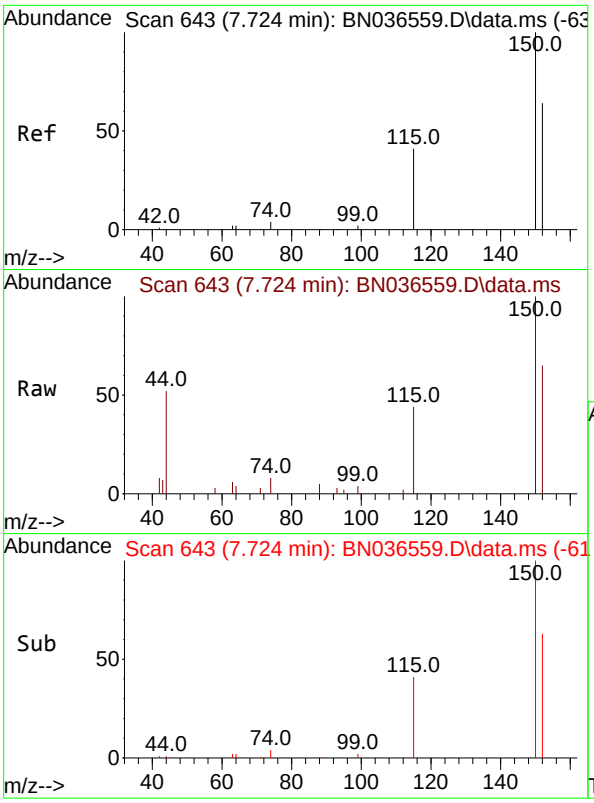
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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



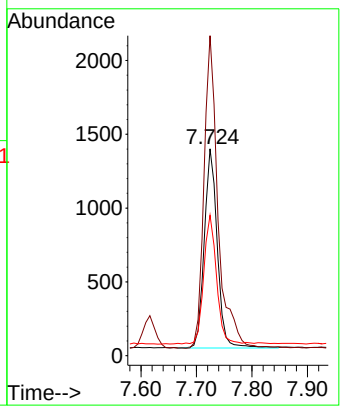


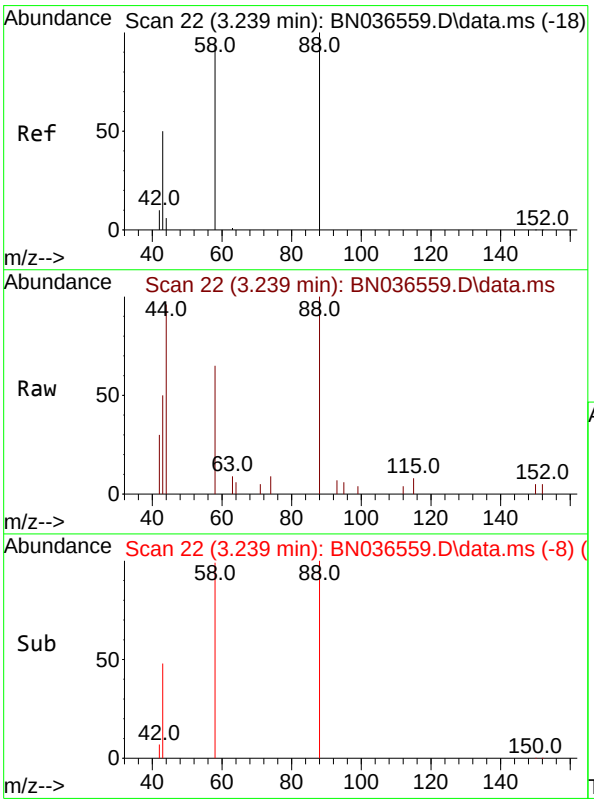
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2207

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

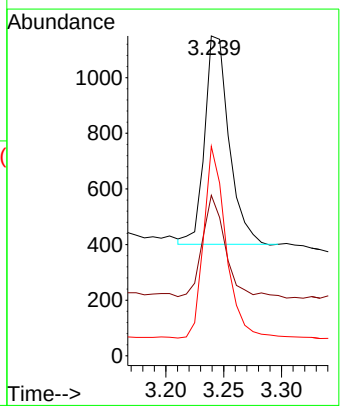


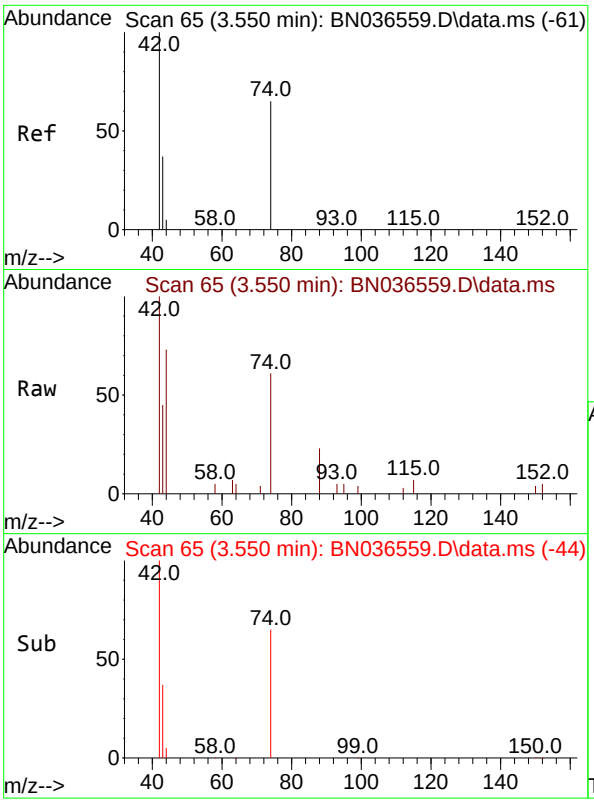


#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 88 Resp: 1099

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



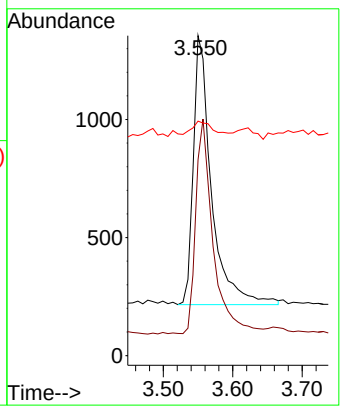


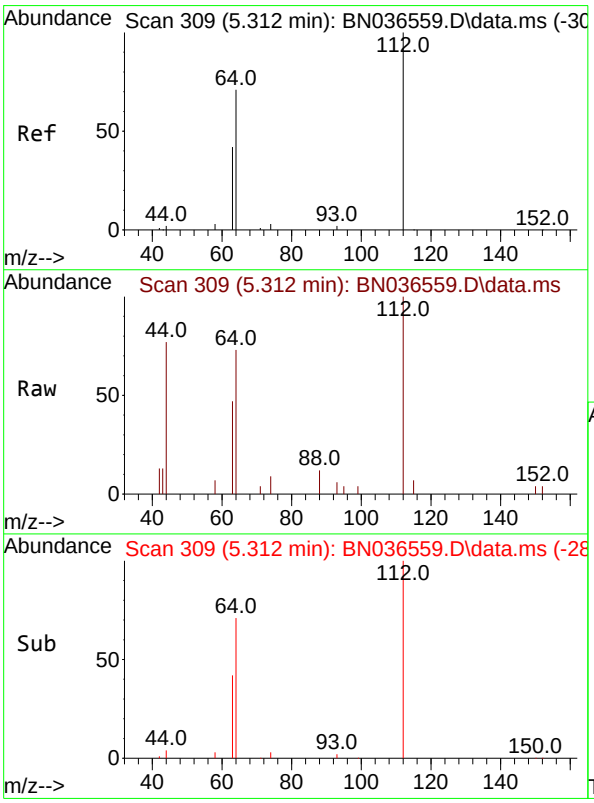
#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 2063

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

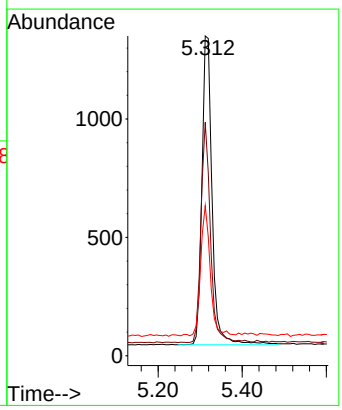


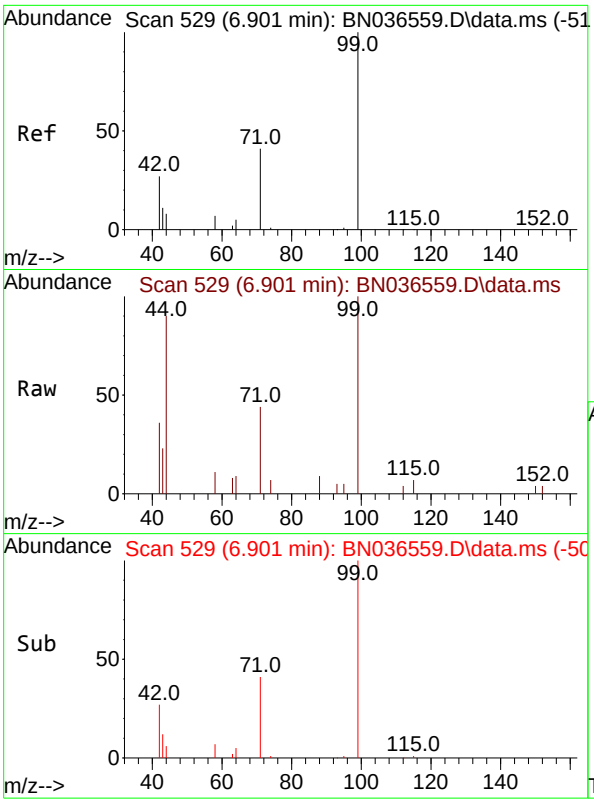


#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:112 Resp: 2178

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



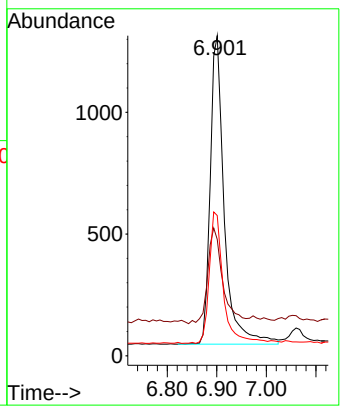


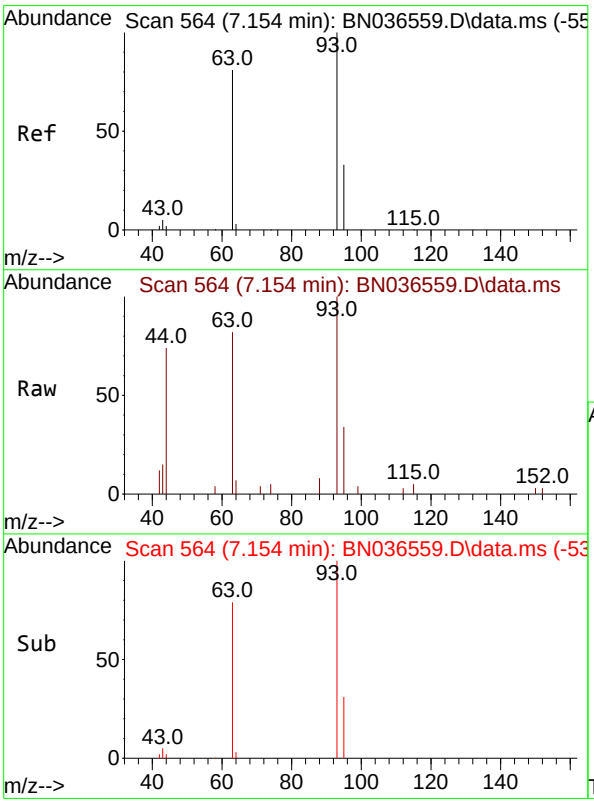
#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2489

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

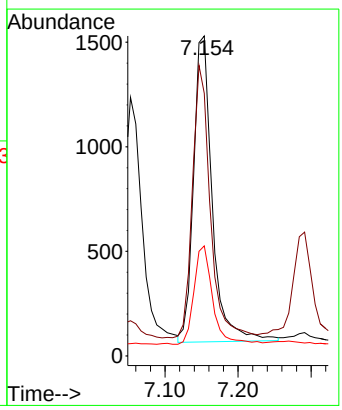


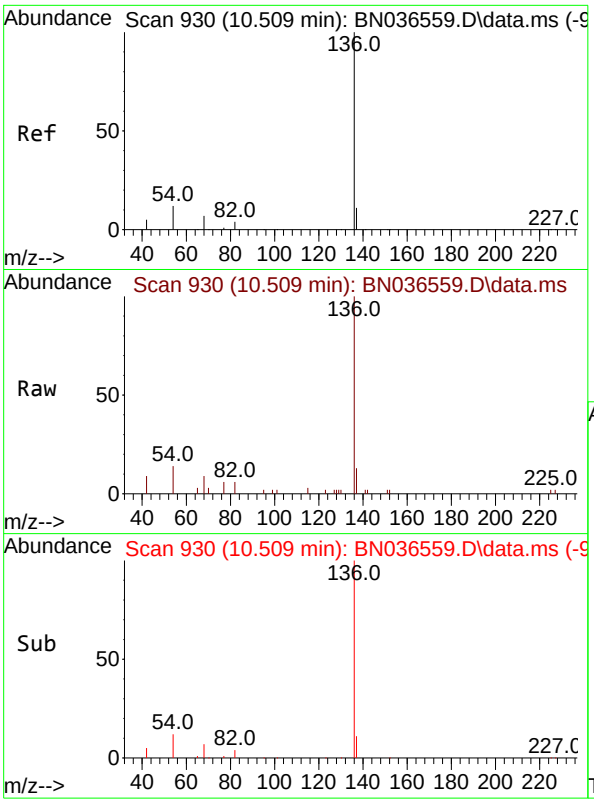


#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 93 Resp: 2610

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



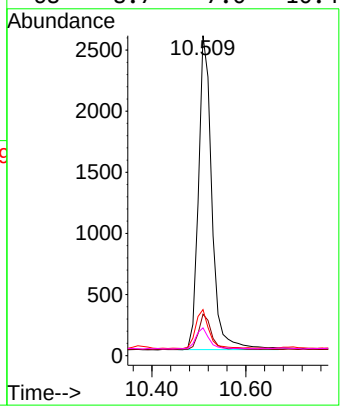


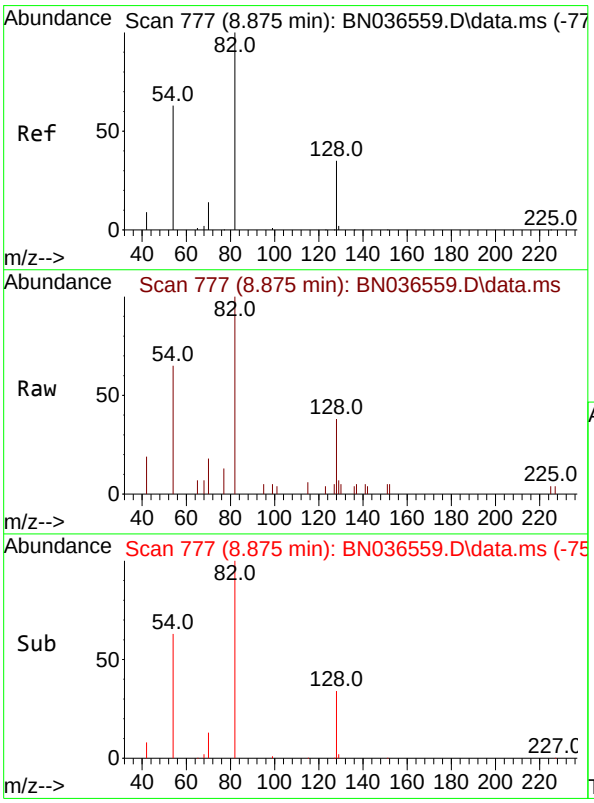
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5091

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

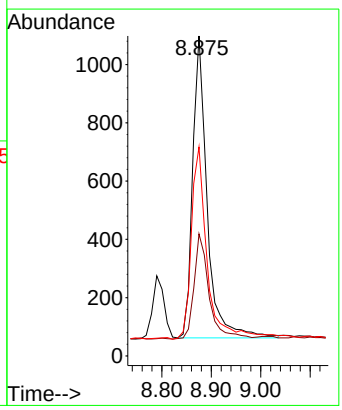


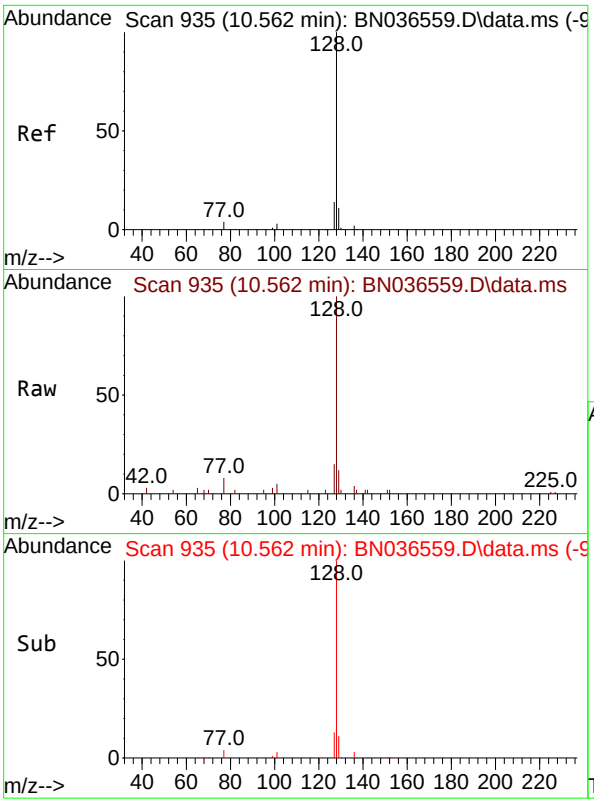


#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 82 Resp: 2113

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



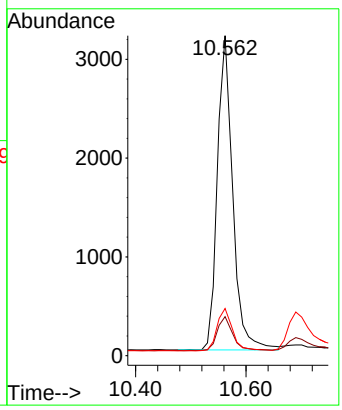


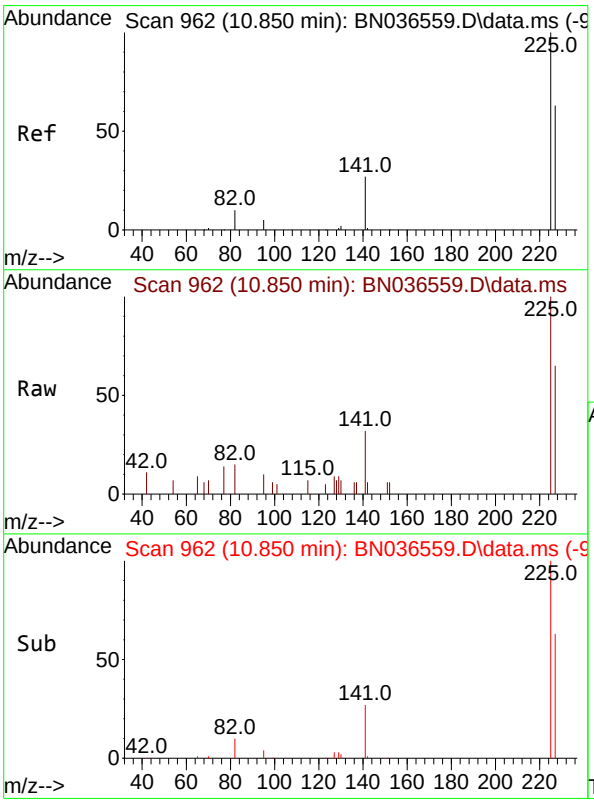
#9
Naphthalene
Concen: 0.410 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 6139

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

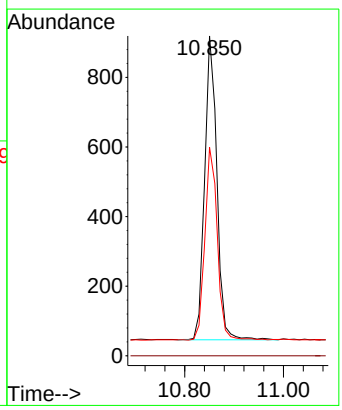


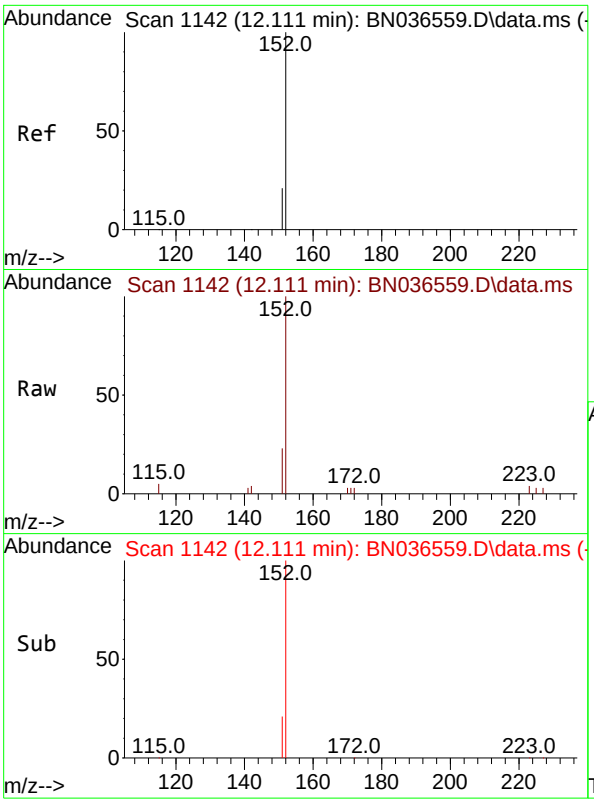


#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:225 Resp: 1498

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



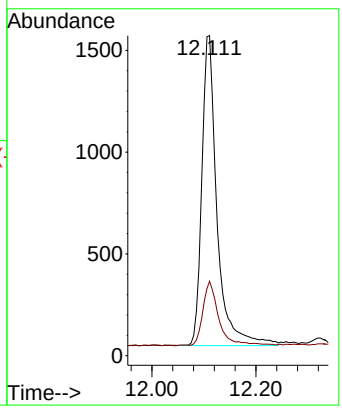


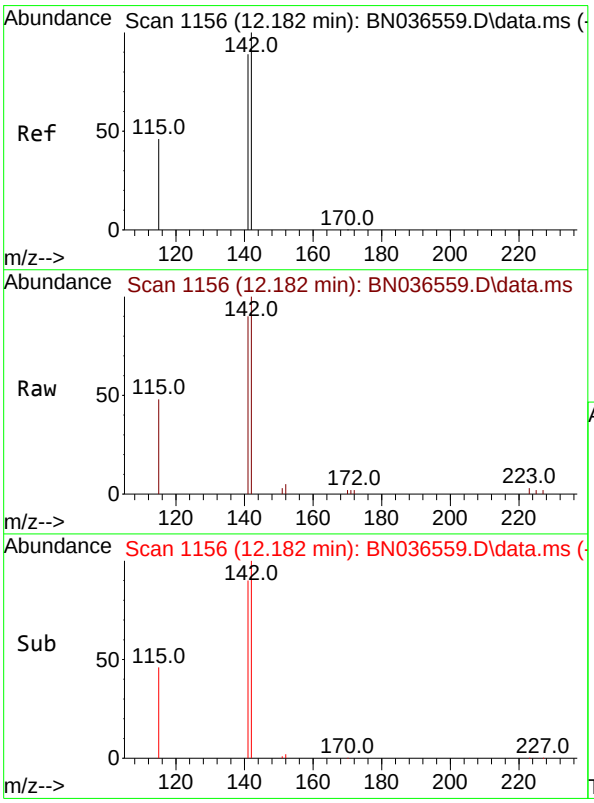
#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3085

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

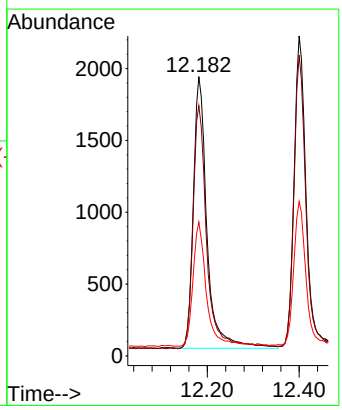


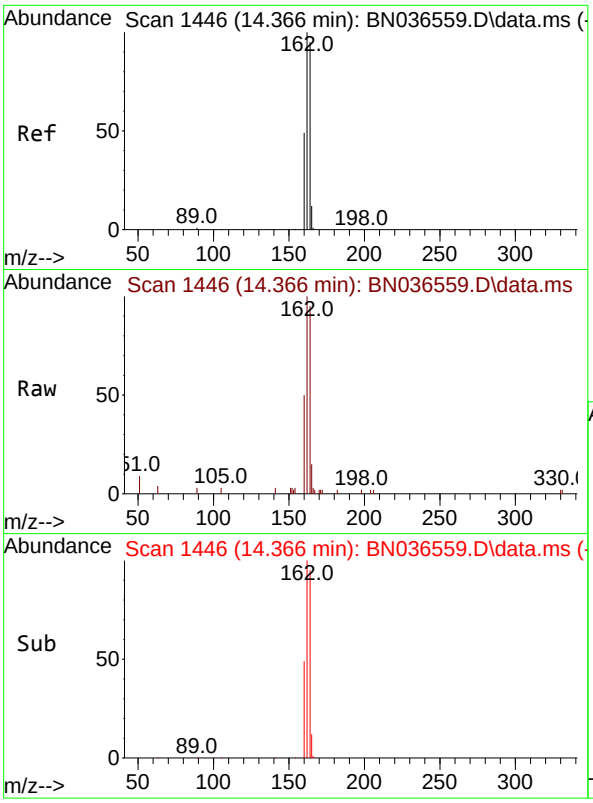


#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:142 Resp: 3897

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



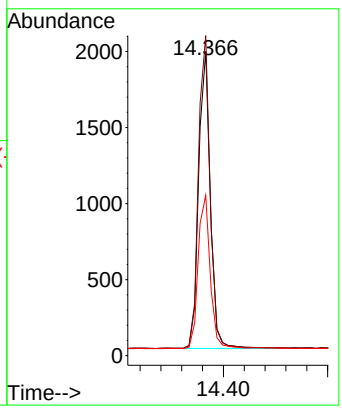


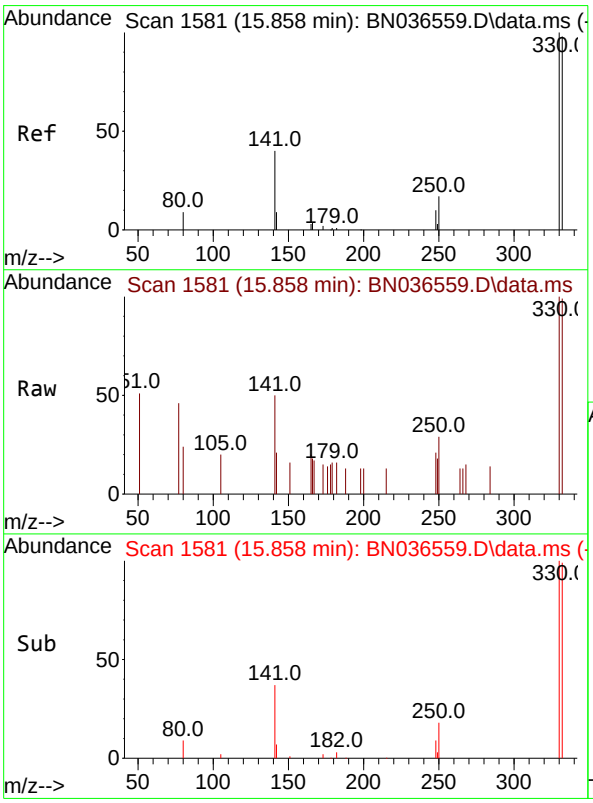
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3026

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

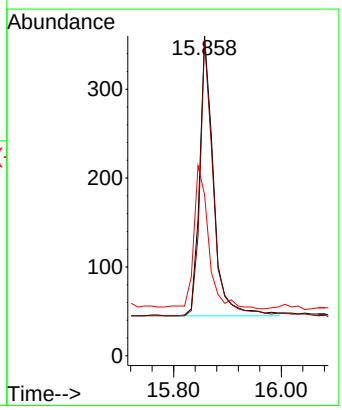


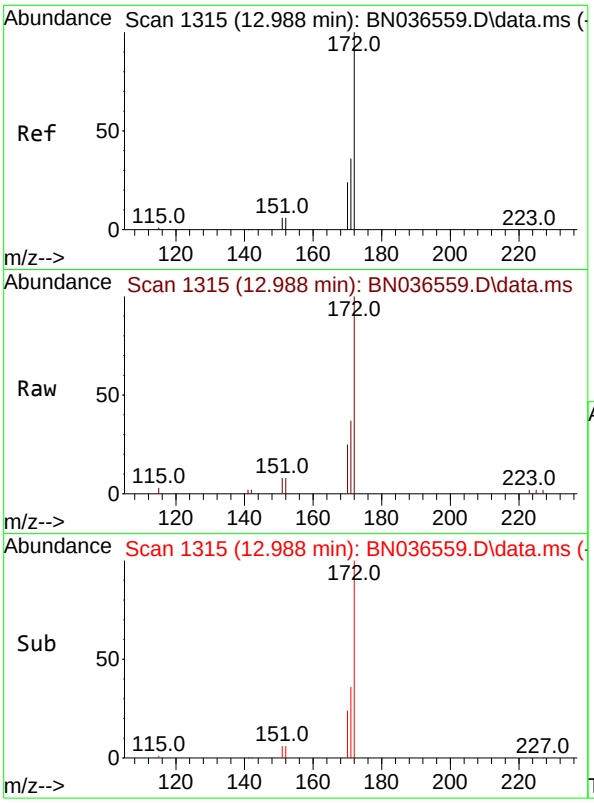


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:330 Resp: 567

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



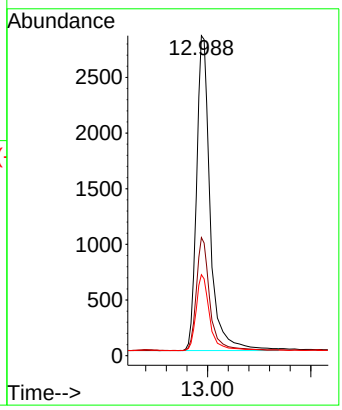


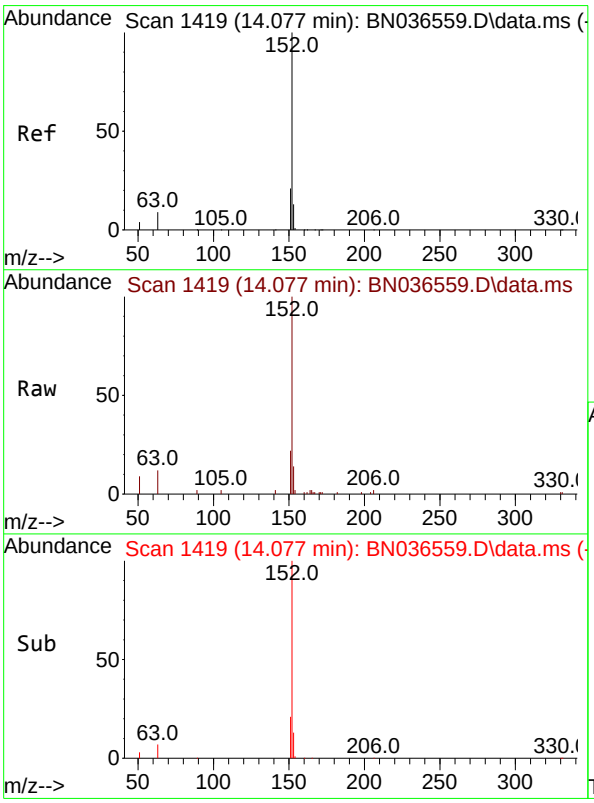
#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 7257

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

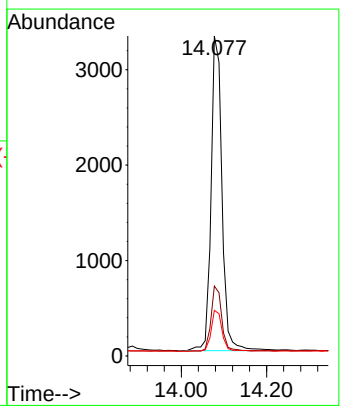


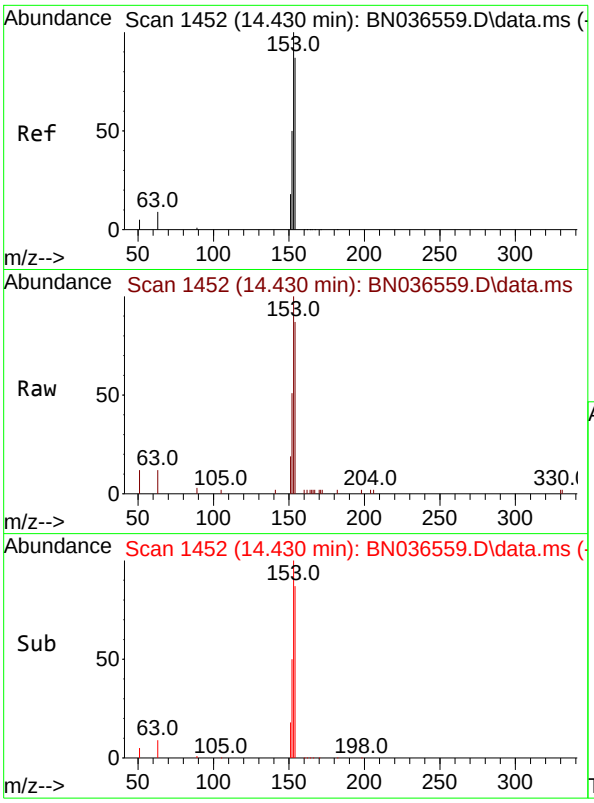


#16
Acenaphthylene
Concen: 0.411 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:152 Resp: 5865

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



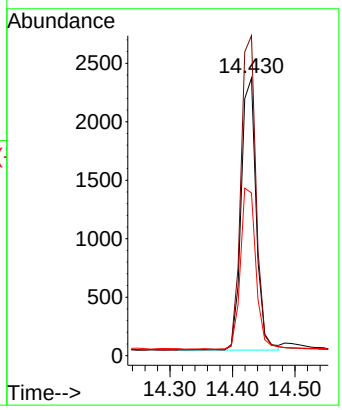


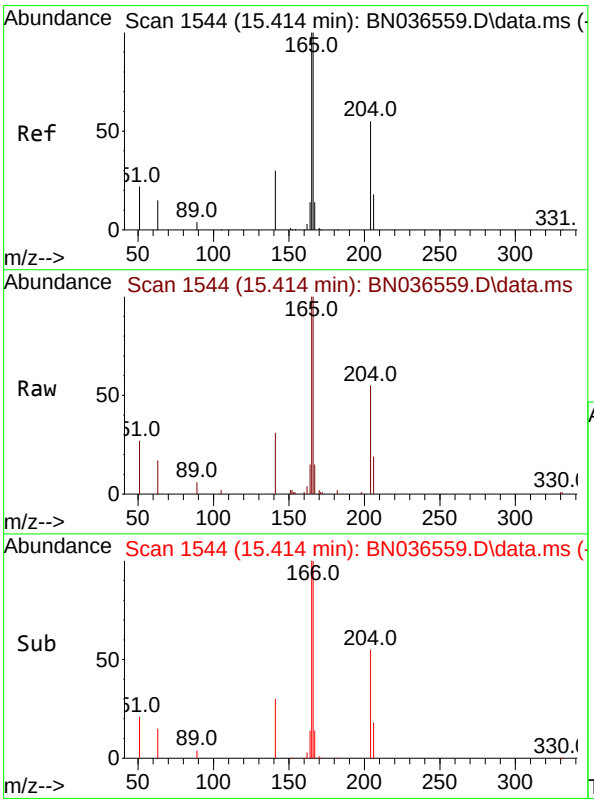
#17
Acenaphthene
Concen: 0.415 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 3877

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

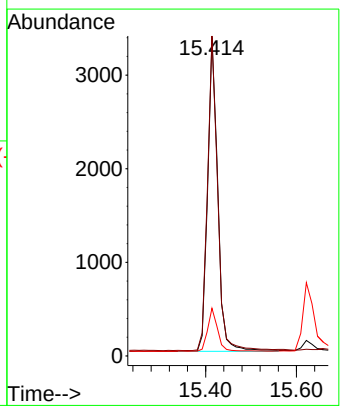


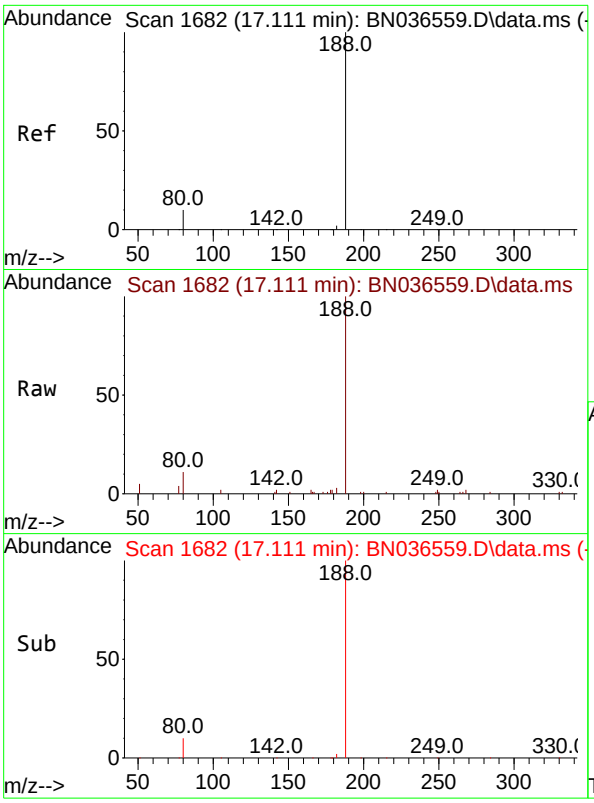


#18
Fluorene
Concen: 0.422 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:166 Resp: 5338

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



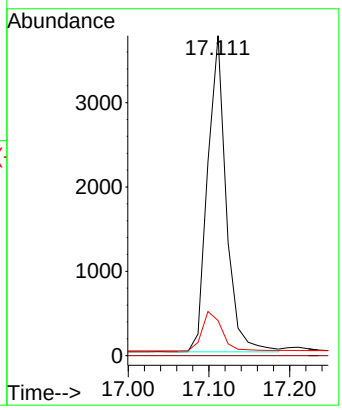


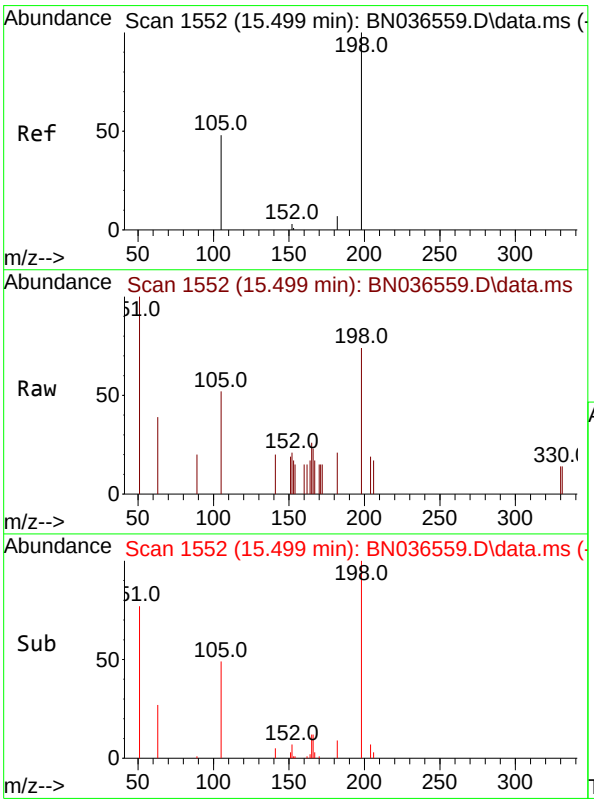
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 6005

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

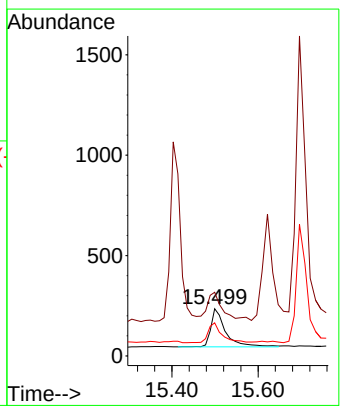


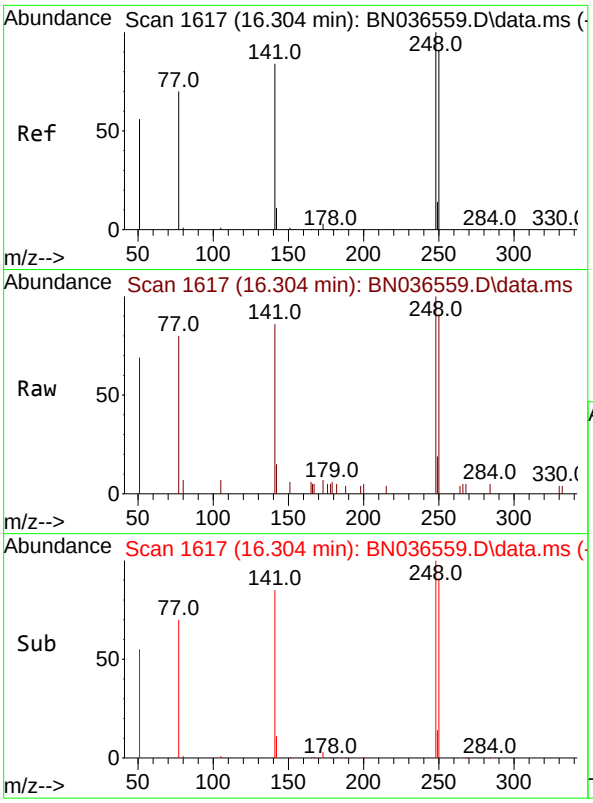


#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:198 Resp: 462

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



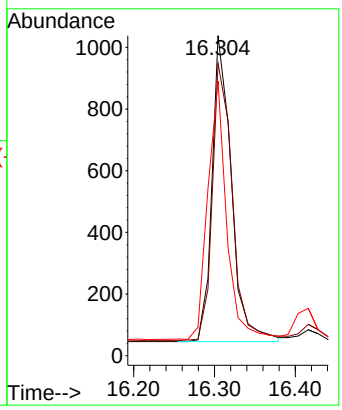


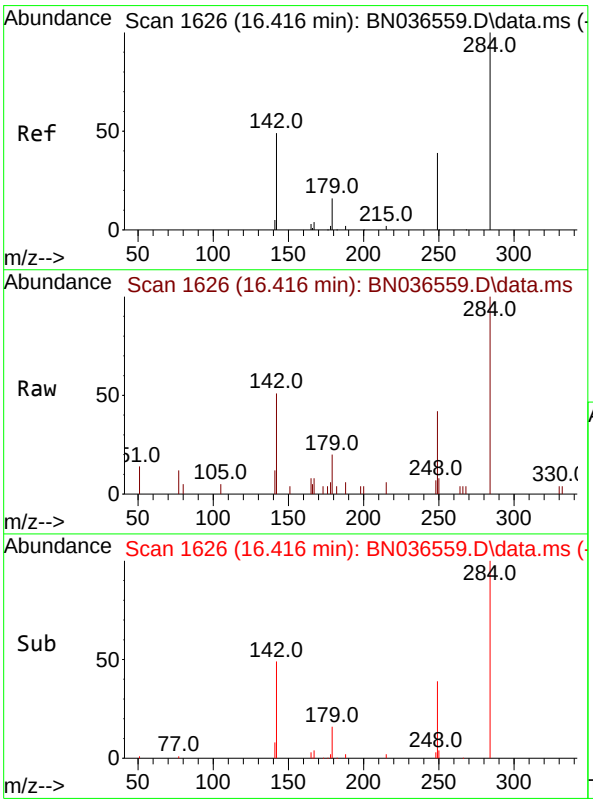
#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 1644

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

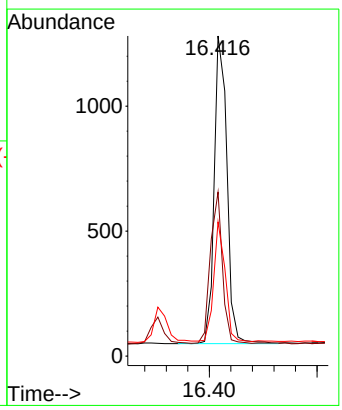


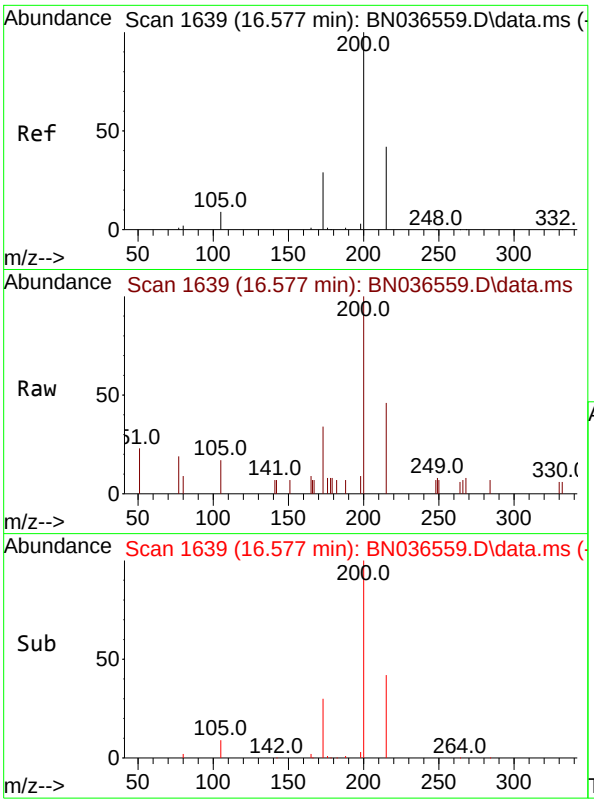


#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:284 Resp: 2018

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



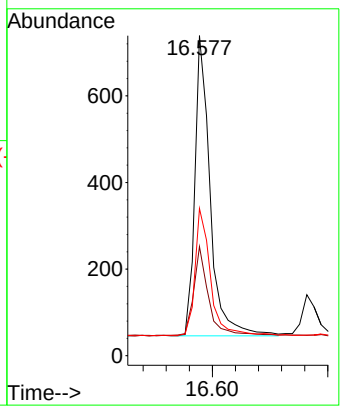


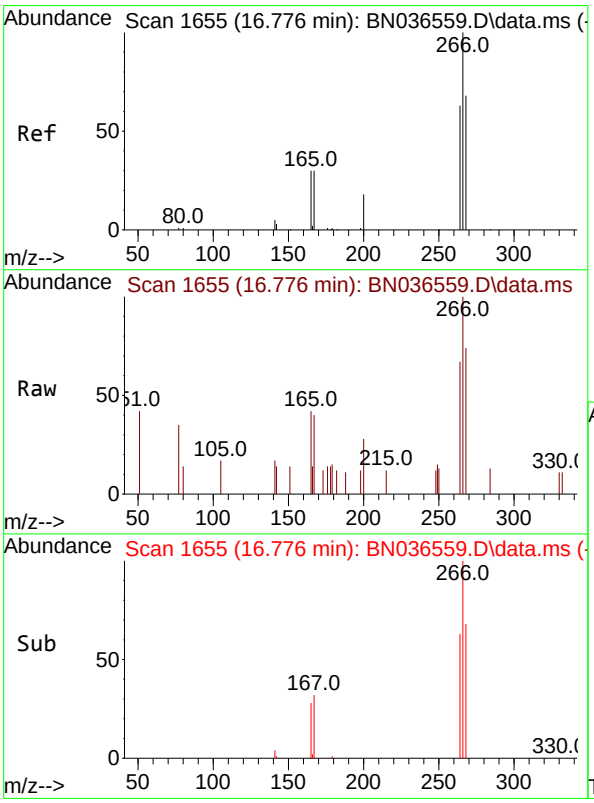
#23
Atrazine
Concen: 0.424 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1279

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

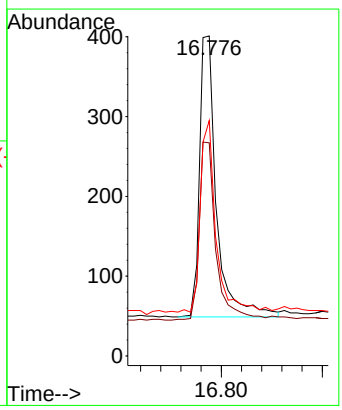


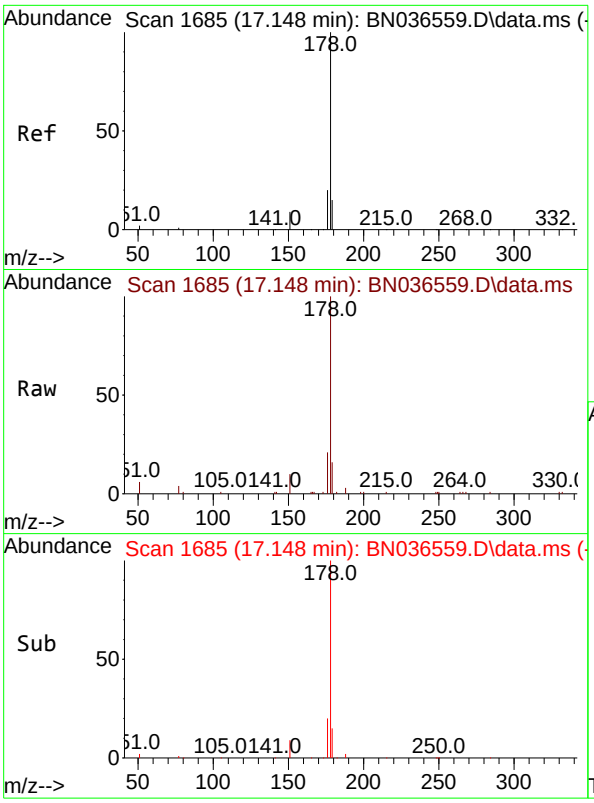


#24
Pentachlorophenol
Concen: 0.396 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:266 Resp: 821

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



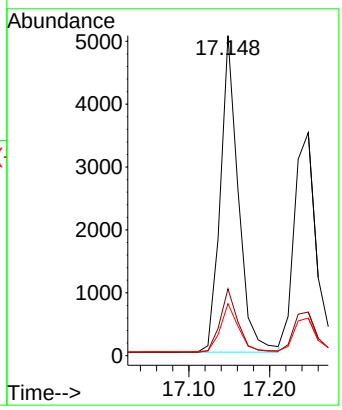


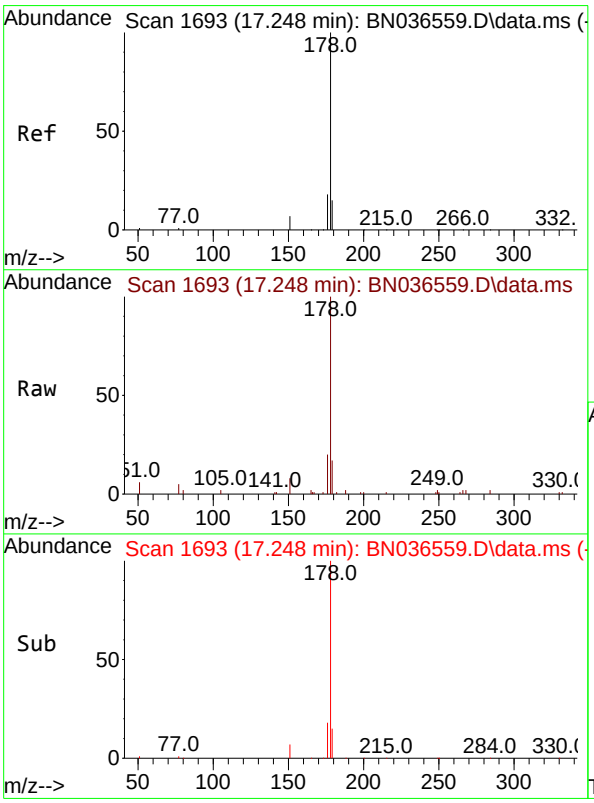
#25
Phenanthrene
Concen: 0.432 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 7786

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

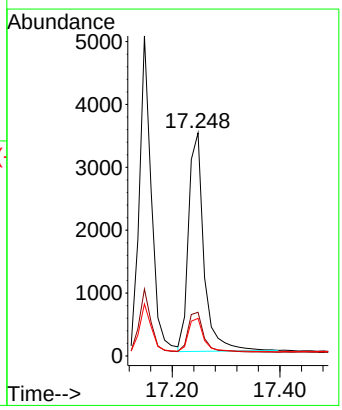


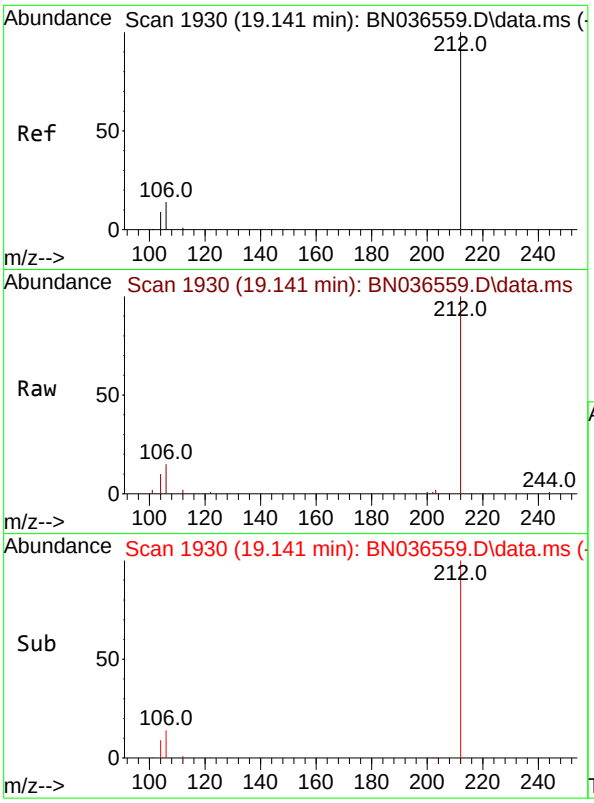


#26
Anthracene
Concen: 0.424 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:178 Resp: 6886

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



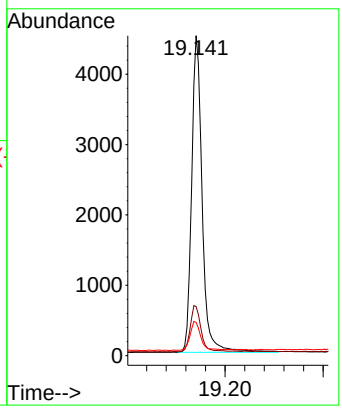


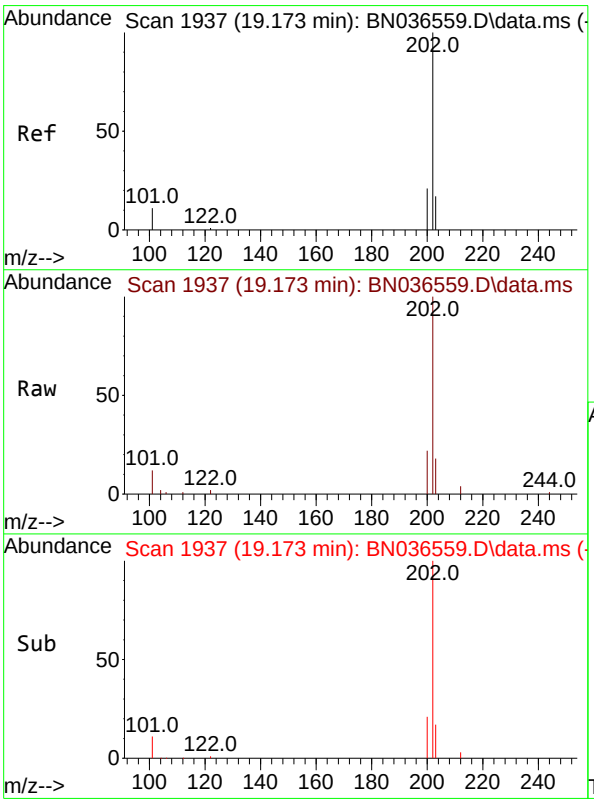
#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 6699

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

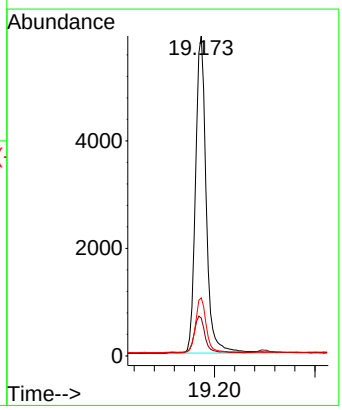


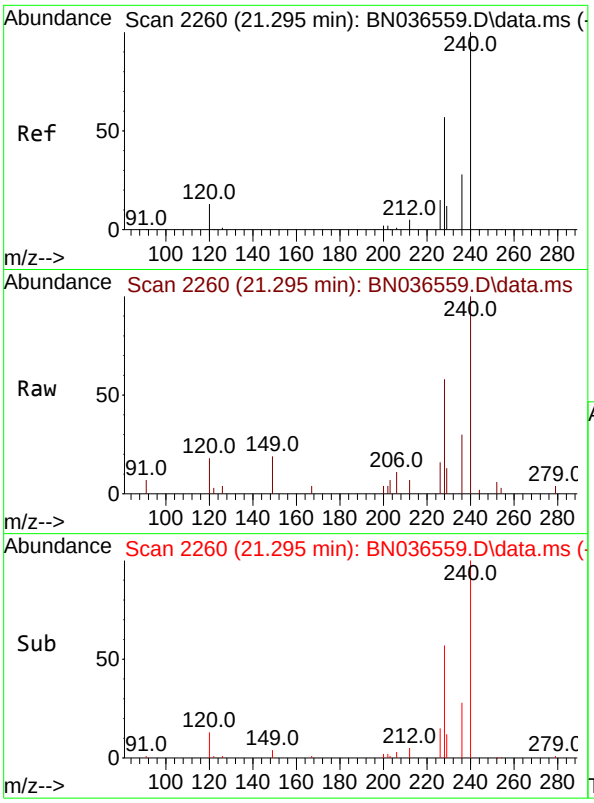


#28
Fluoranthene
Concen: 0.431 ng
RT: 19.173 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:202 Resp: 8717

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



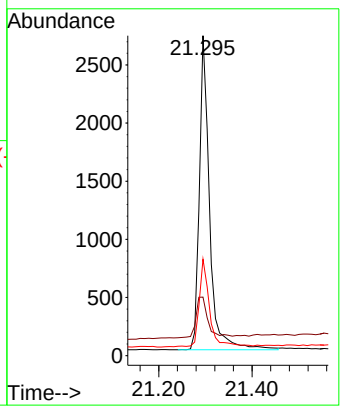


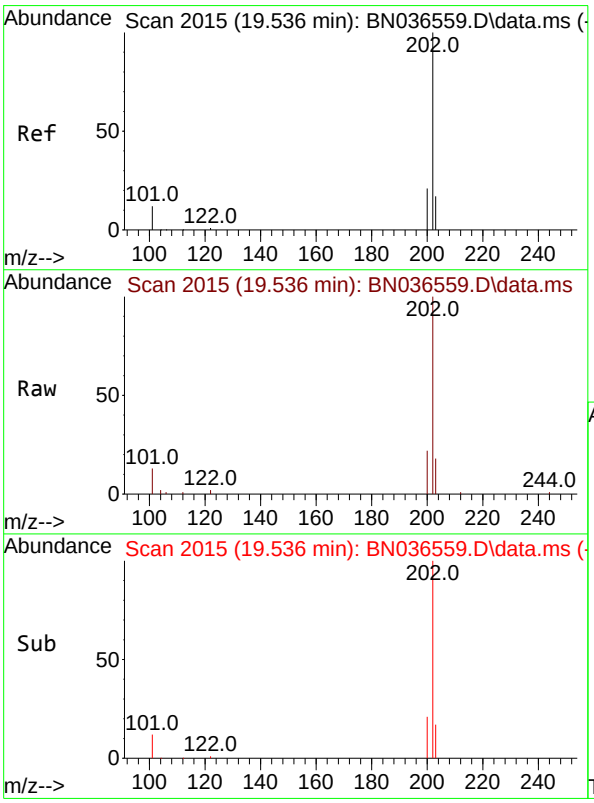
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 4110

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

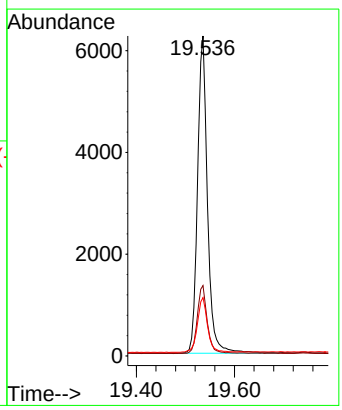


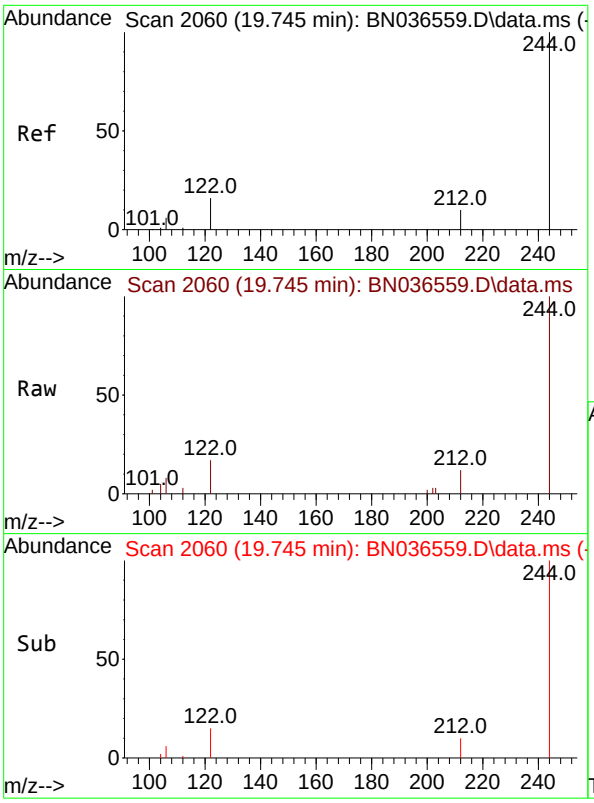


#30
Pyrene
Concen: 0.436 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:202 Resp: 8759

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



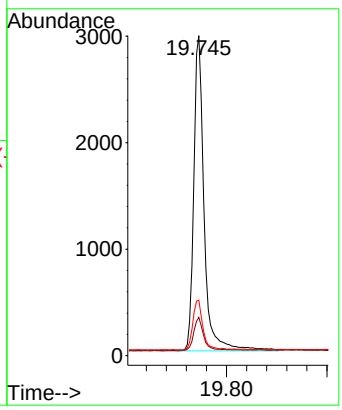


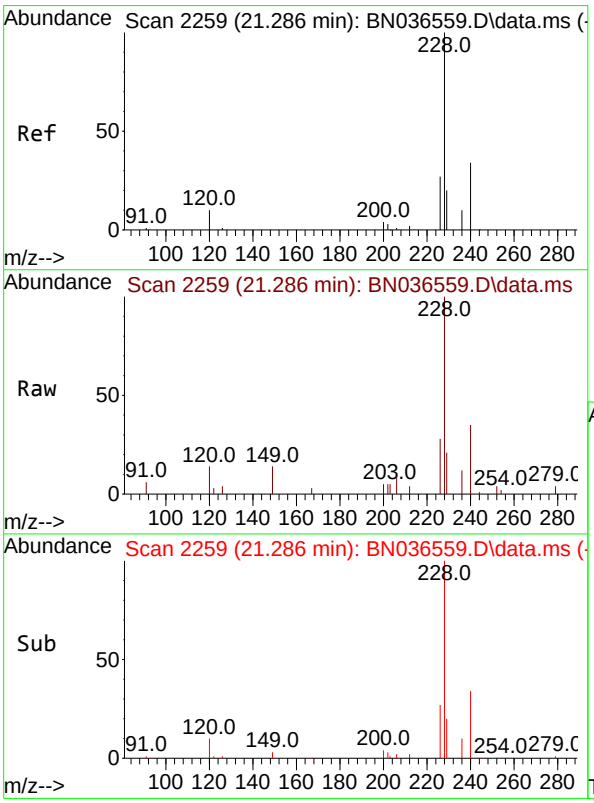
#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 4226

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

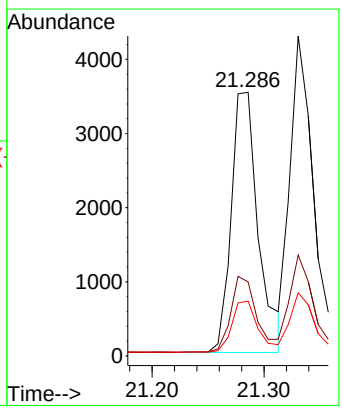


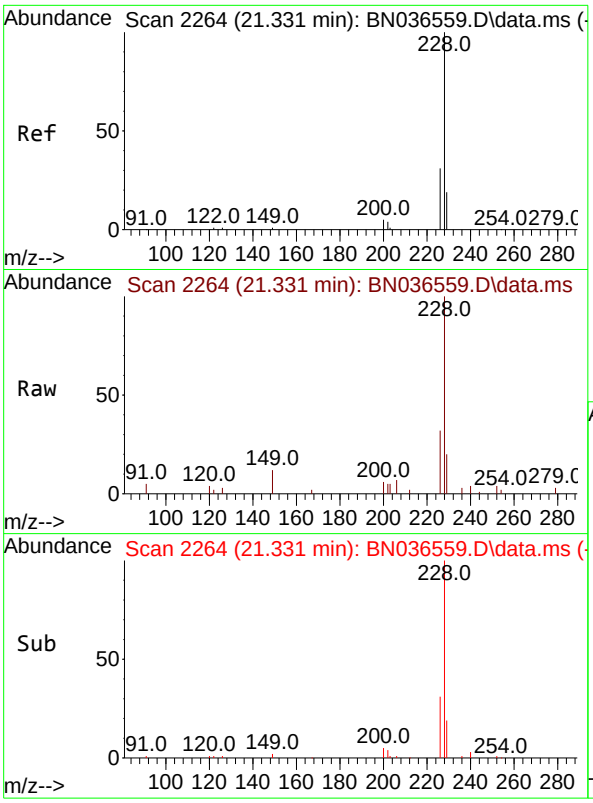


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:228 Resp: 5908

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



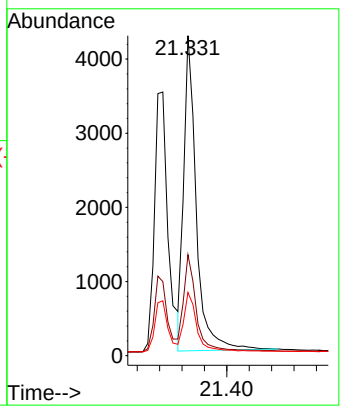


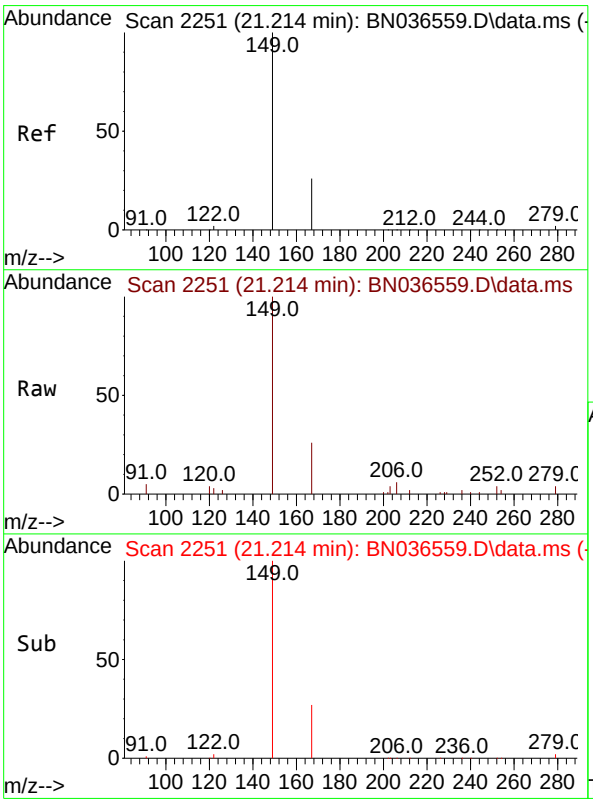
#33
Chrysene
Concen: 0.424 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 6617

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

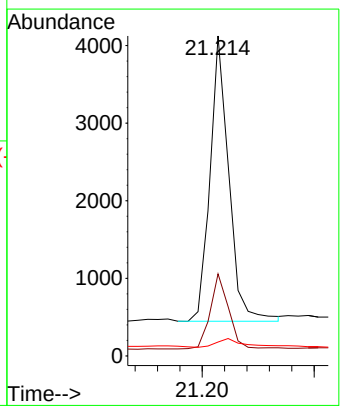


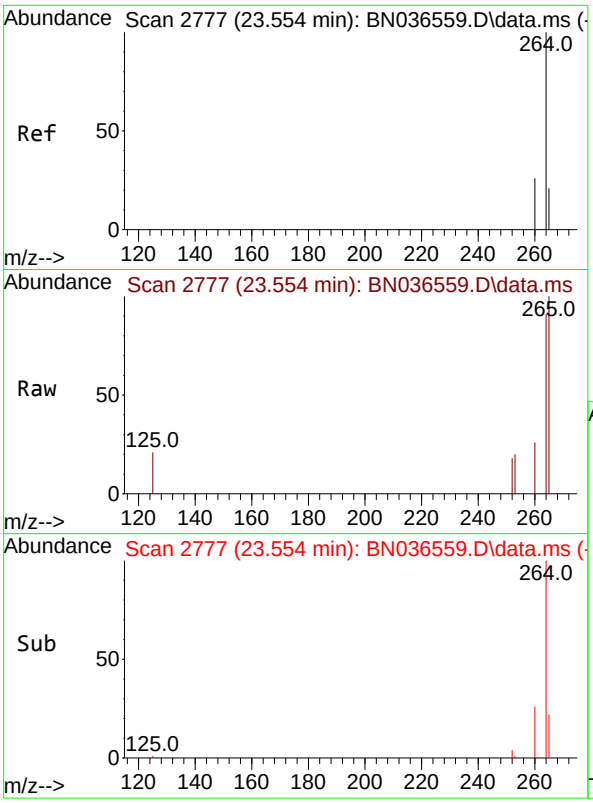


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:149 Resp: 4291

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



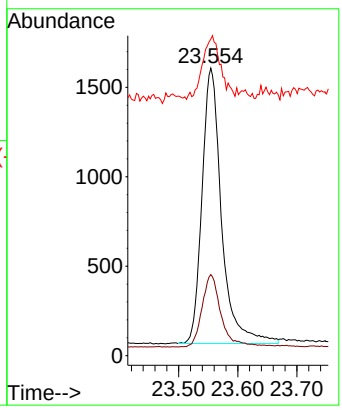


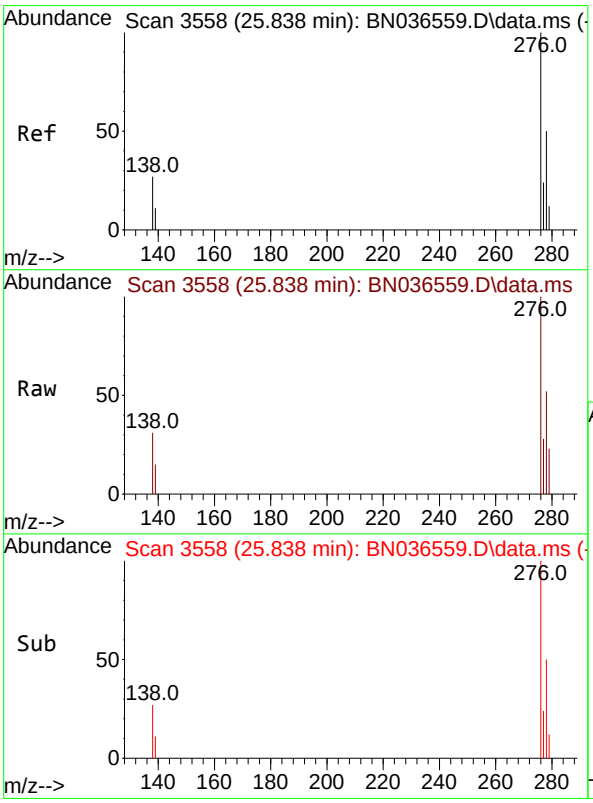
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 3539

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

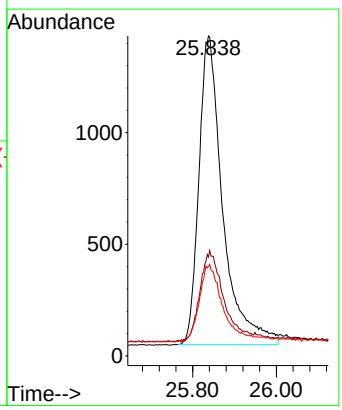


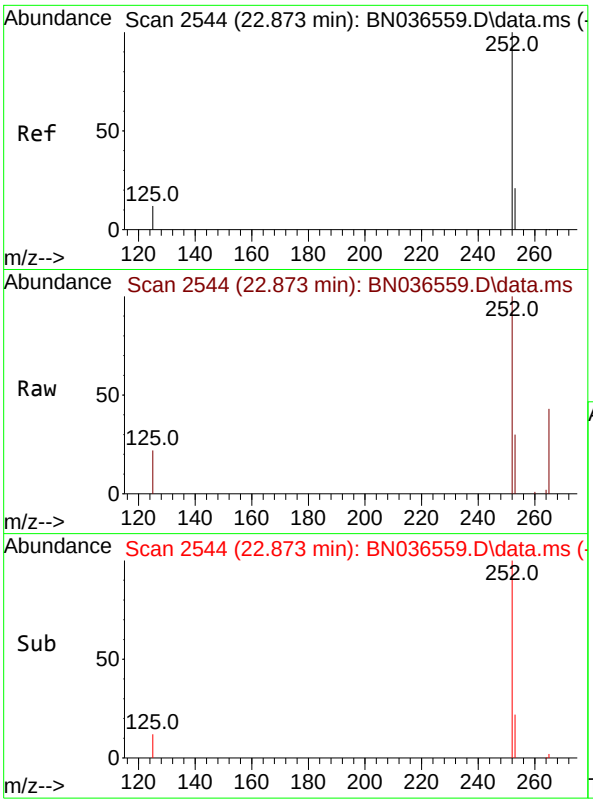


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:276 Resp: 5470

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



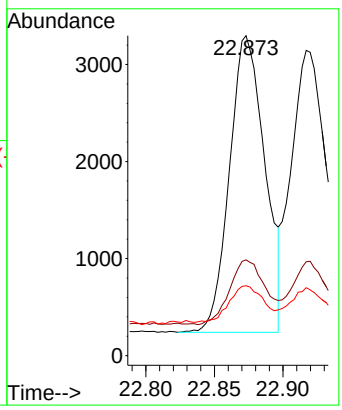


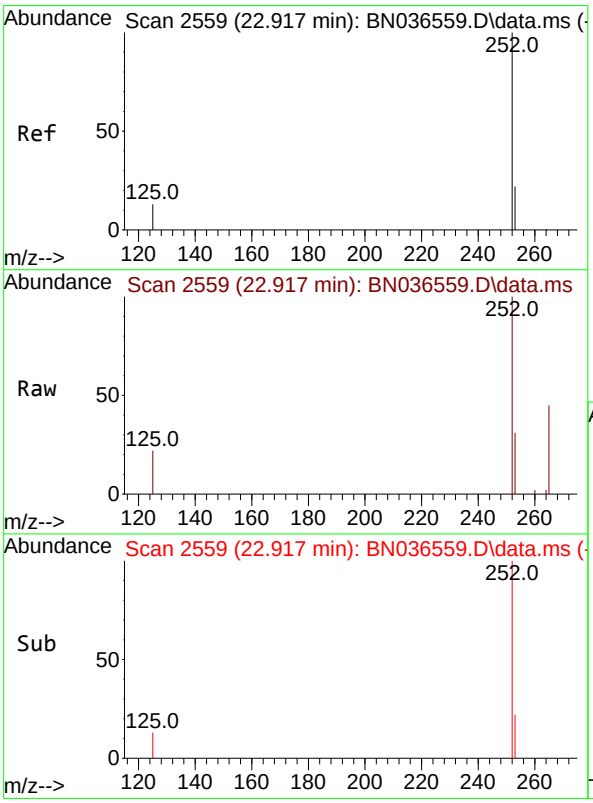
#37
Benzo(b)fluoranthene
Concen: 0.425 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 5475

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

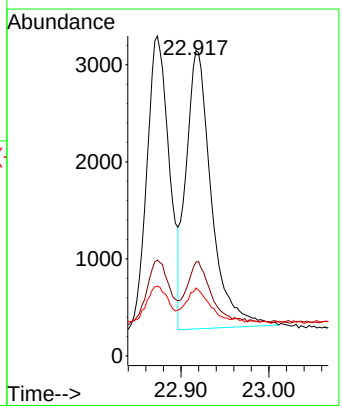


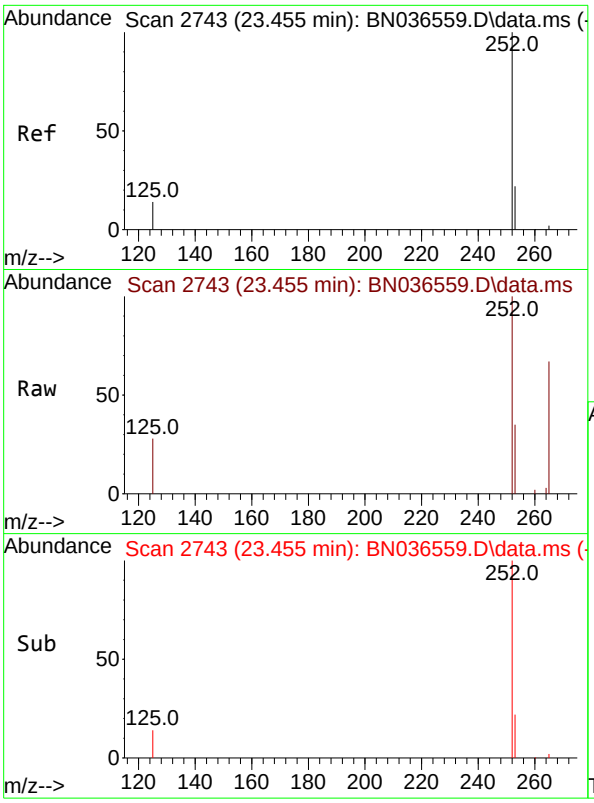


#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:252 Resp: 5732

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



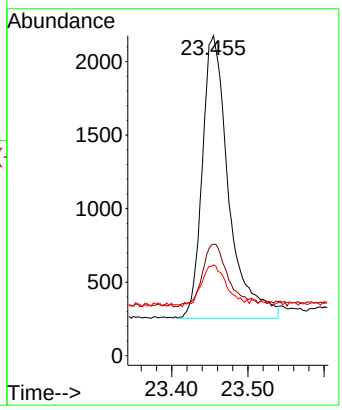


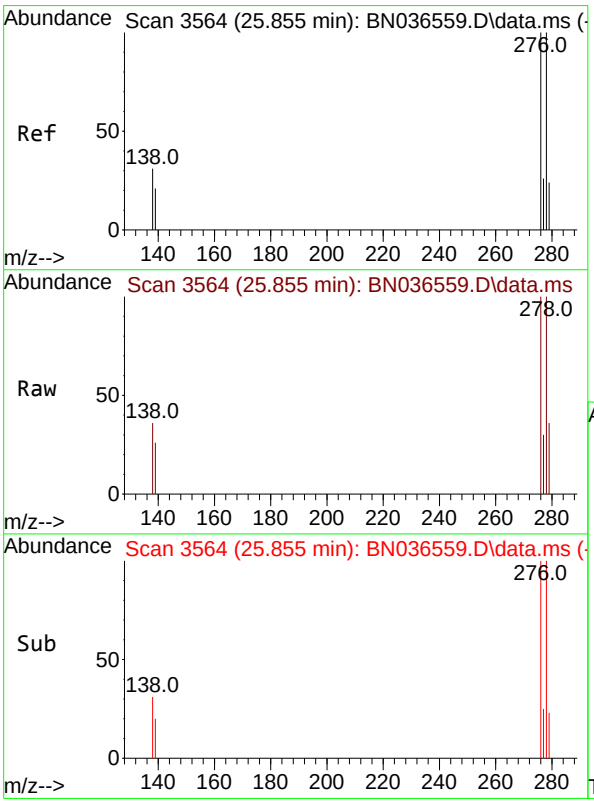
#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 4612

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

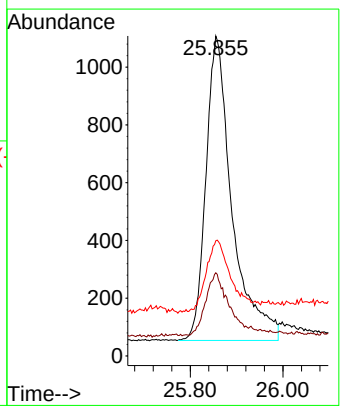


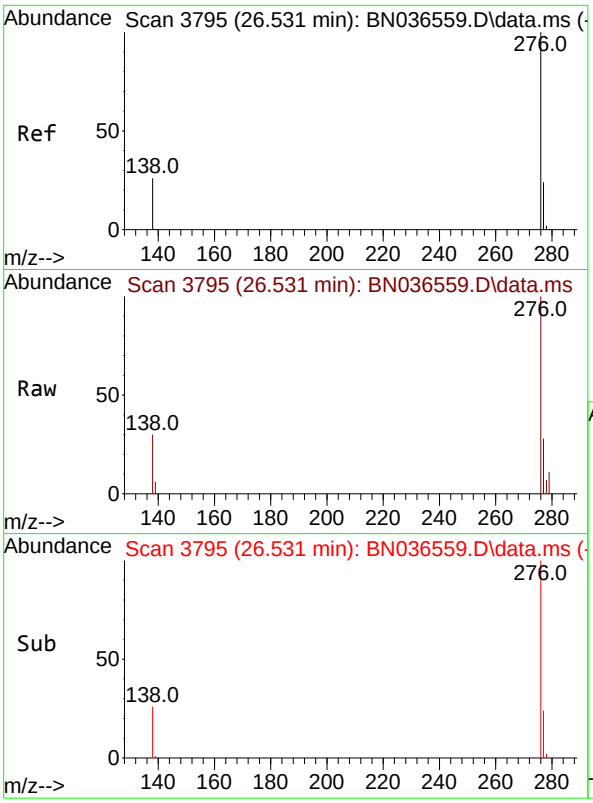


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:278 Resp: 4117

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



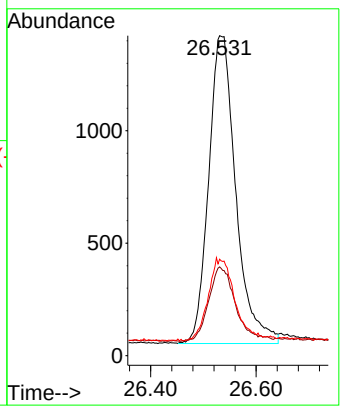


#41
Benzo(g,h,i)perylene
Concen: 0.430 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 4891

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



Quantitation Report (QT Reviewed)

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

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

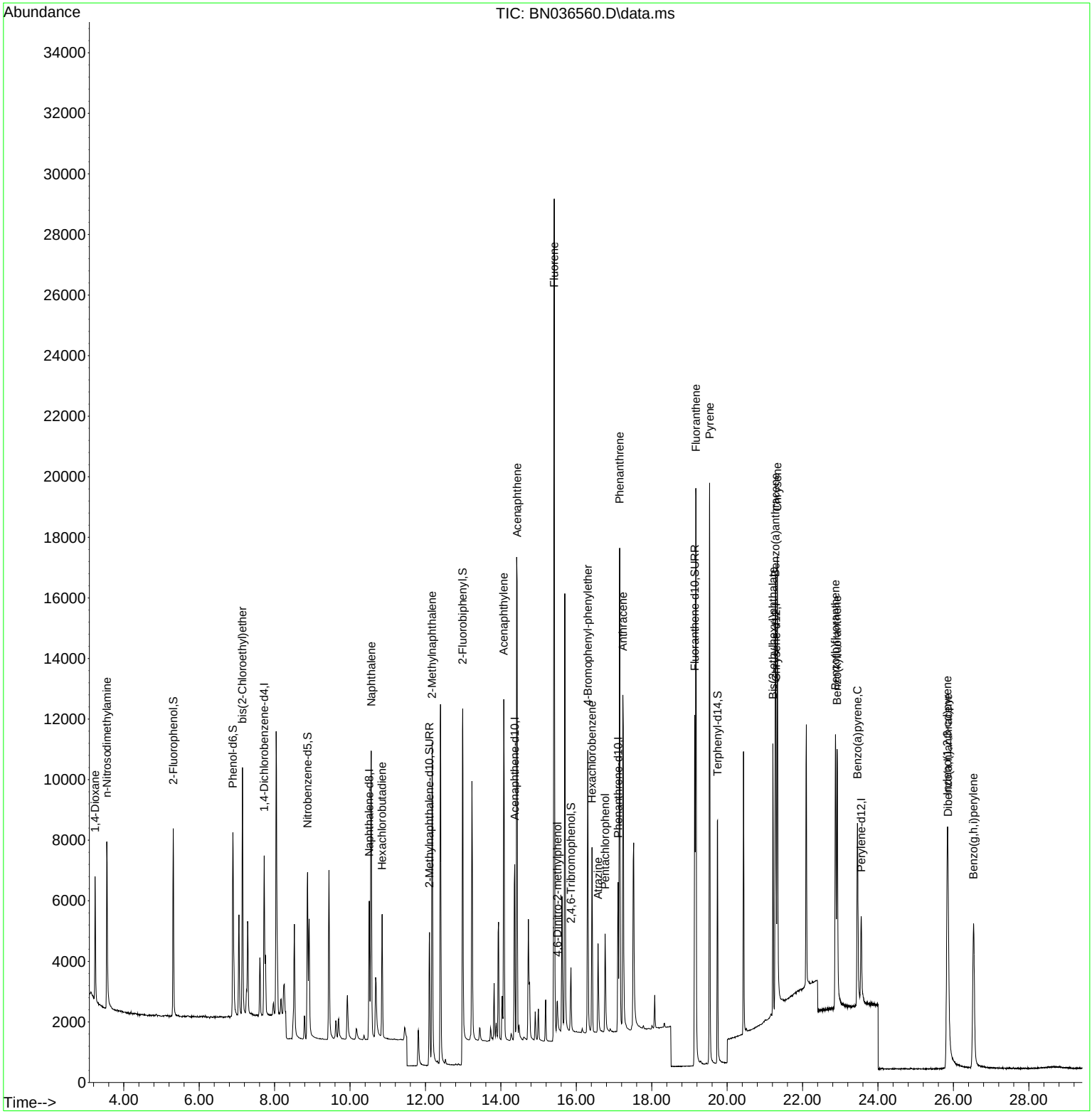
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng		0.00
29) Chrysene-d12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

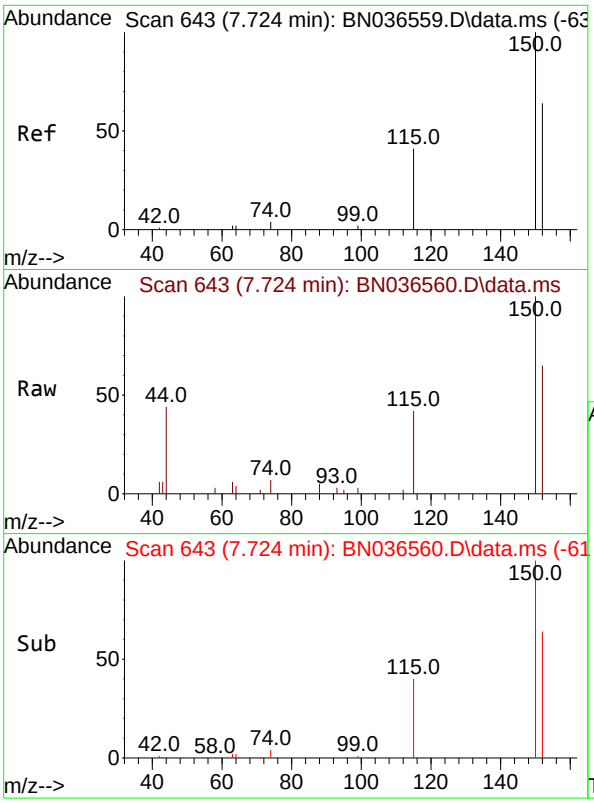
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

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



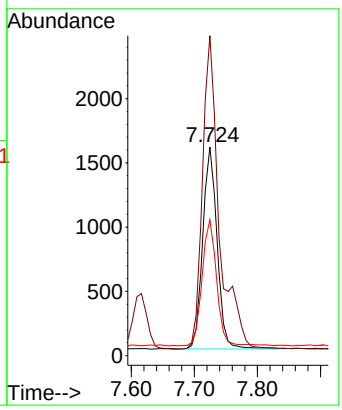


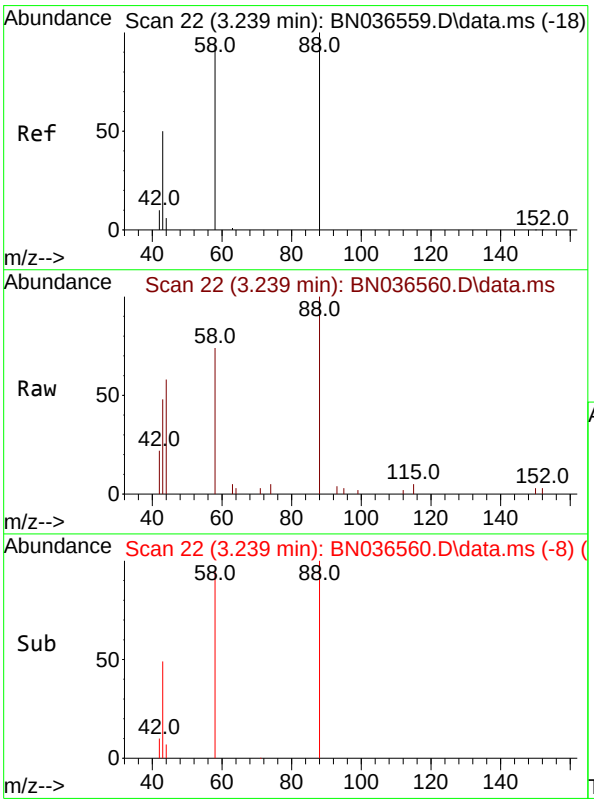
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2495

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

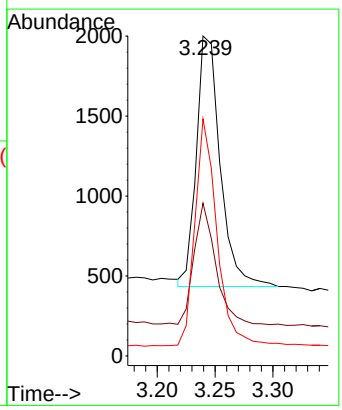


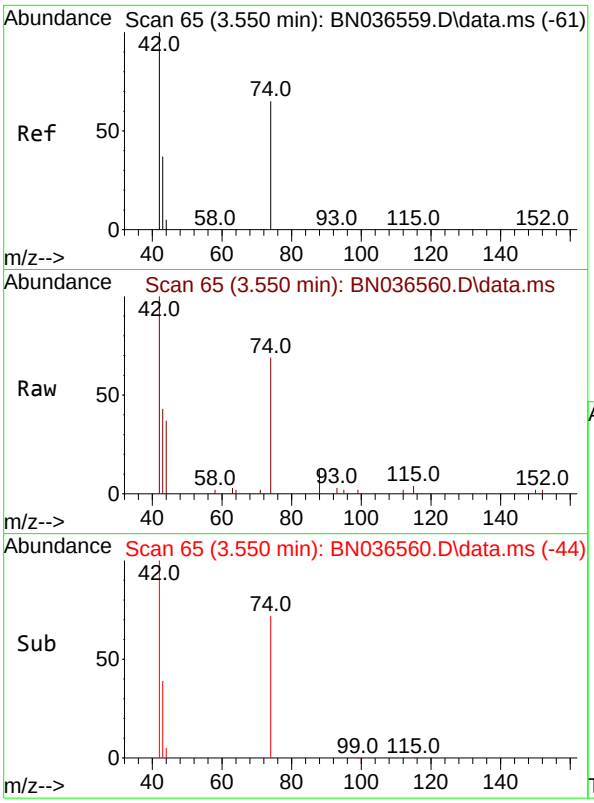


#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 88 Resp: 2251

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



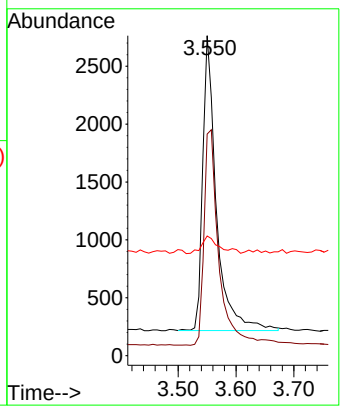


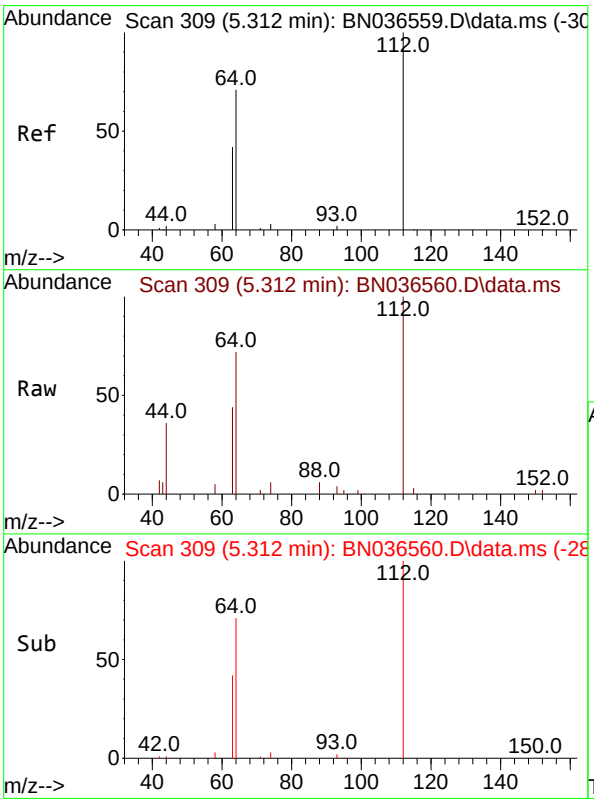
#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 4197

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

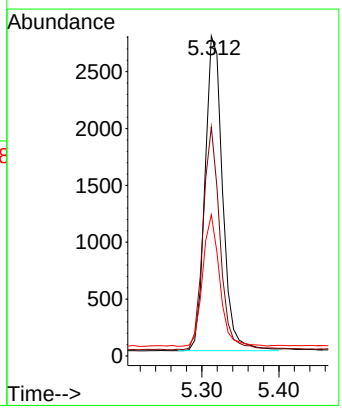


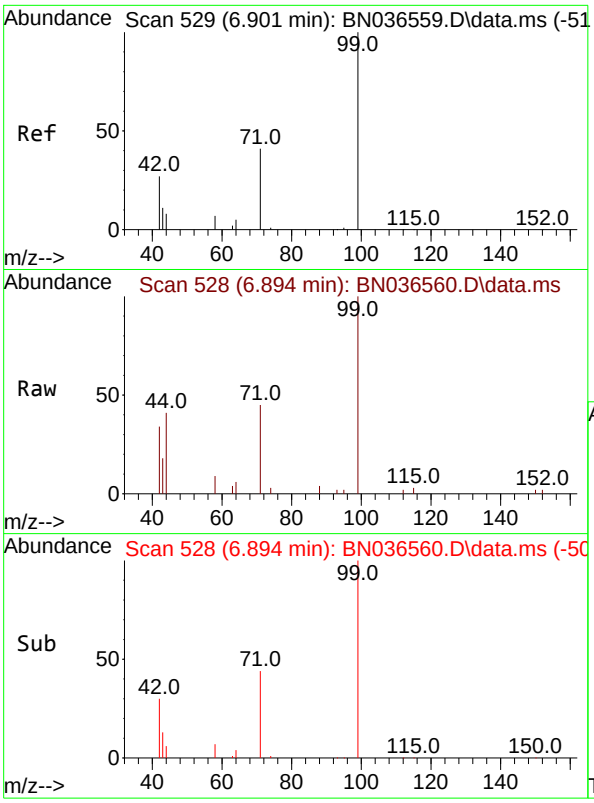


#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:112 Resp: 4381

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



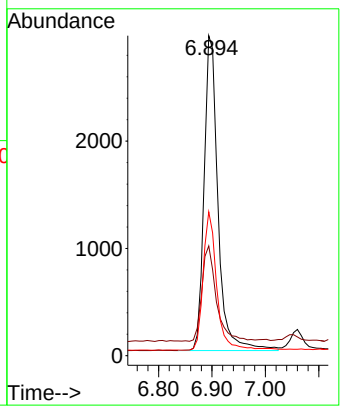


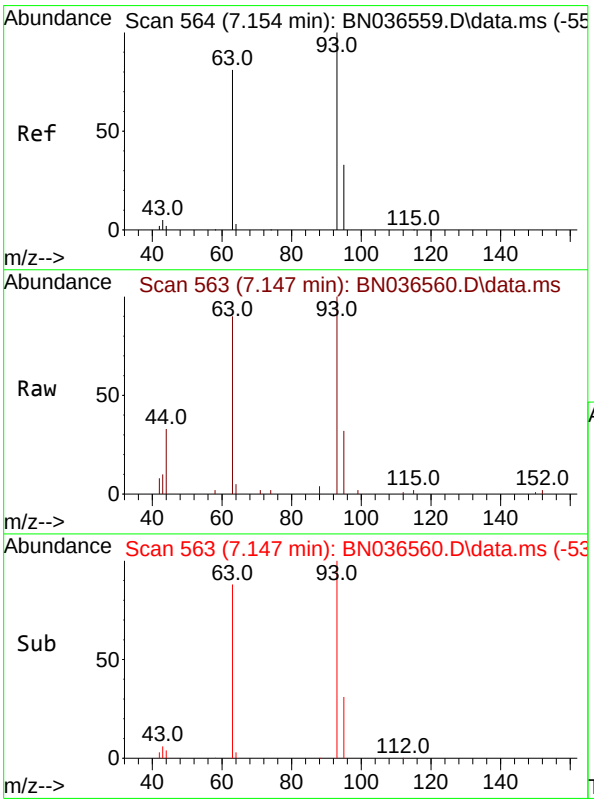
#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 5324

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

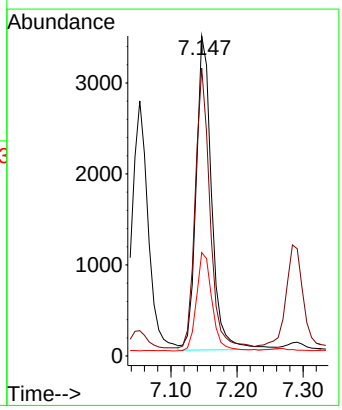


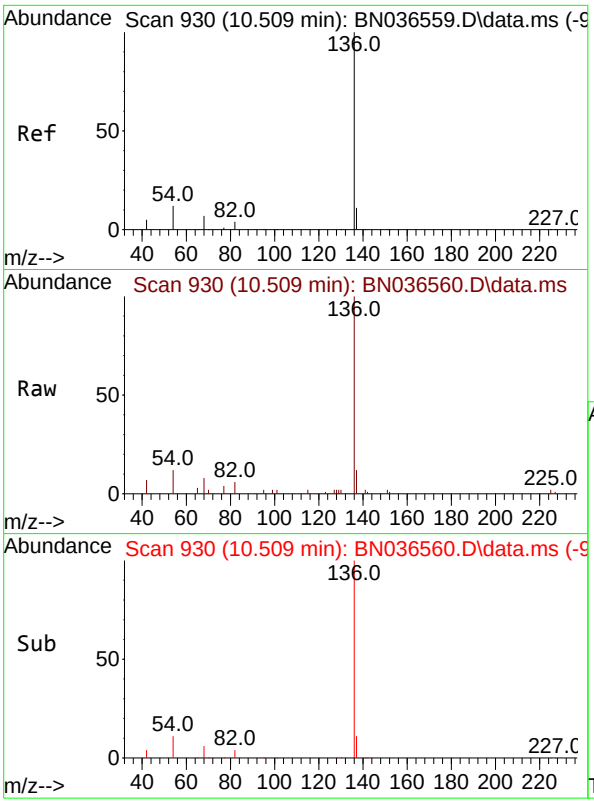


#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 93 Resp: 5632

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



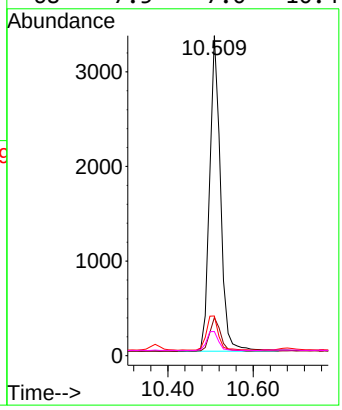


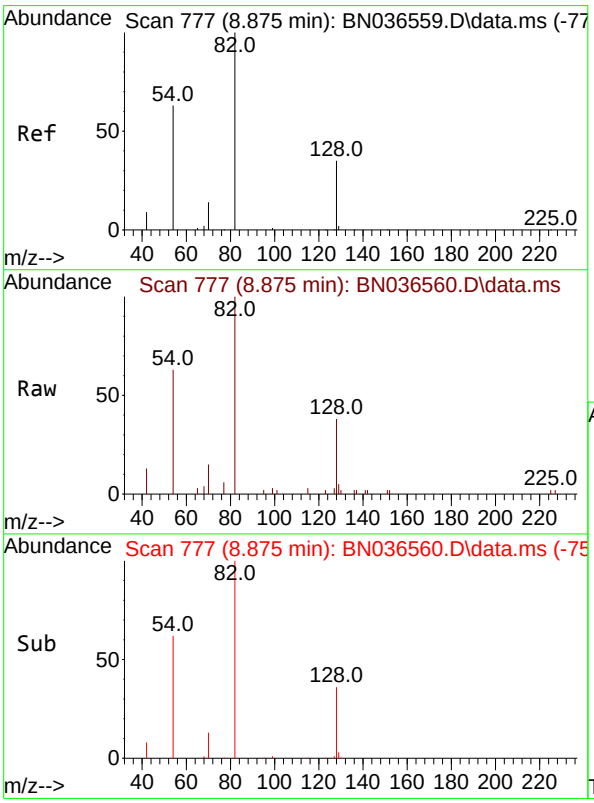
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5884

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

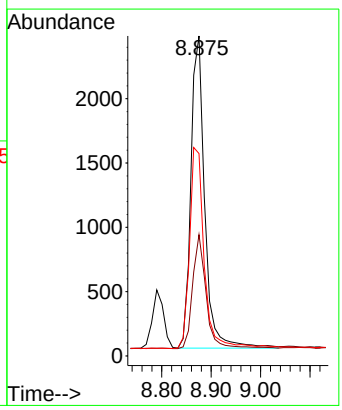


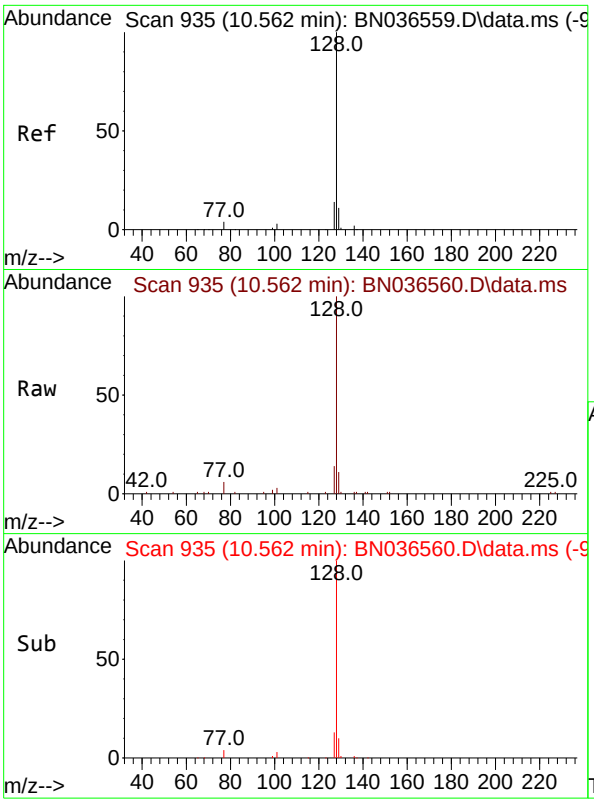


#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 82 Resp: 4717

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



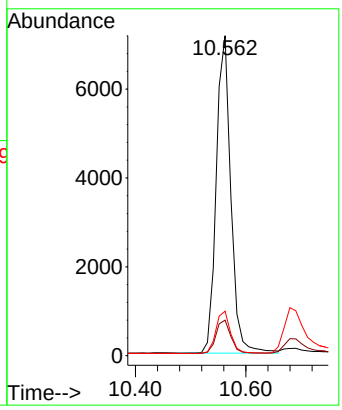


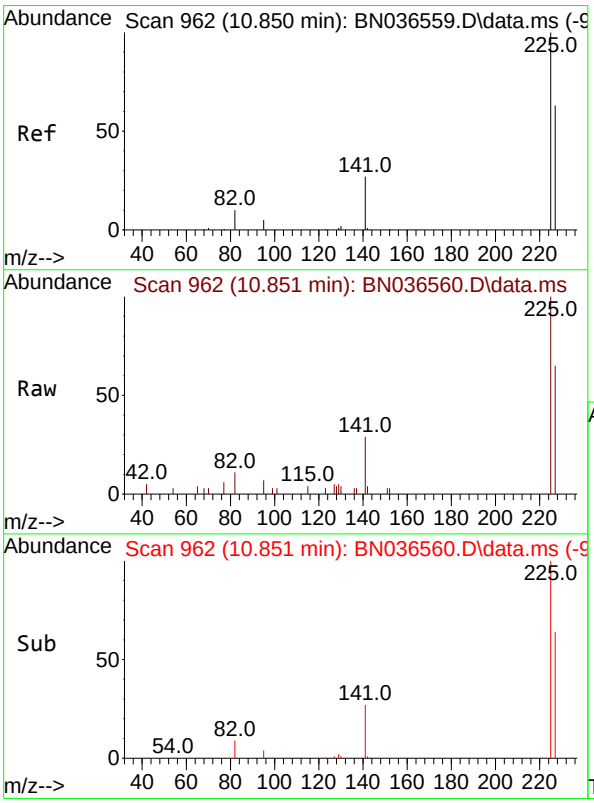
#9
Naphthalene
Concen: 0.756 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 13078

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

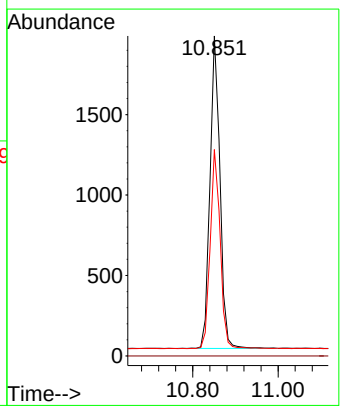


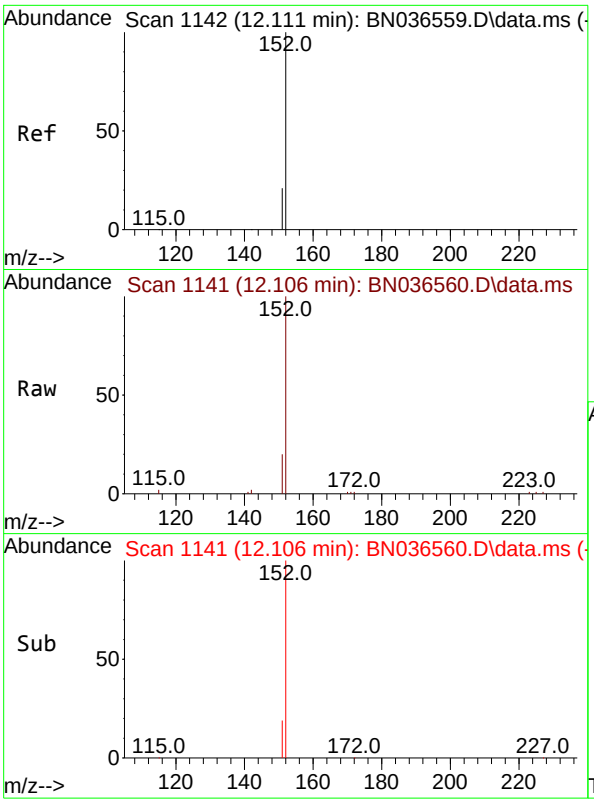


#10
Hexachlorobutadiene
Concen: 0.772 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:225 Resp: 3147

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



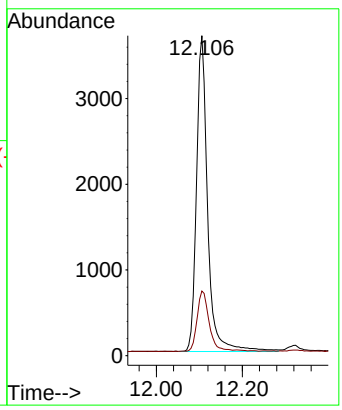


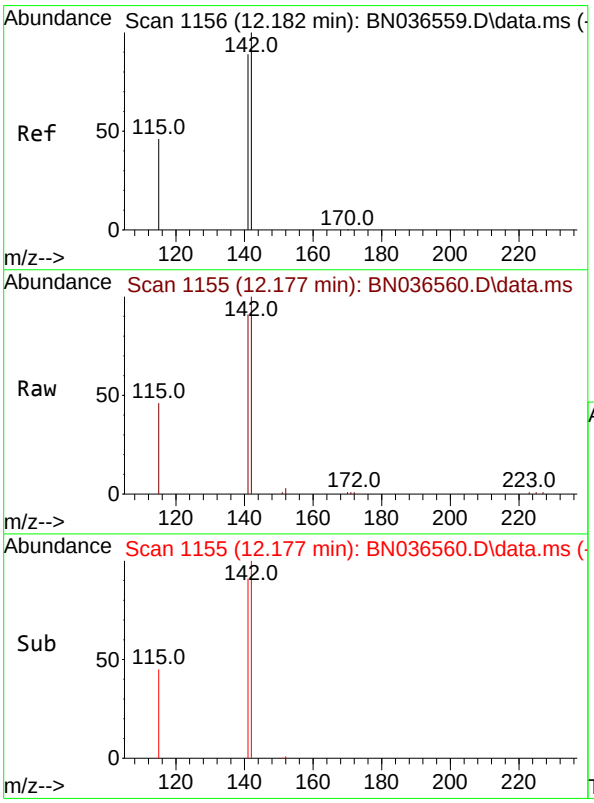
#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6616

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

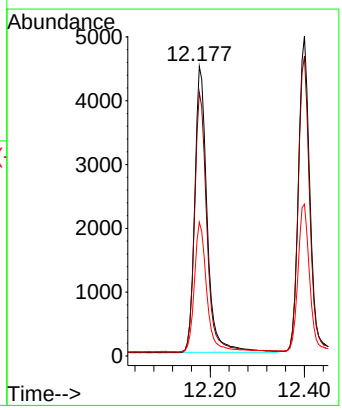


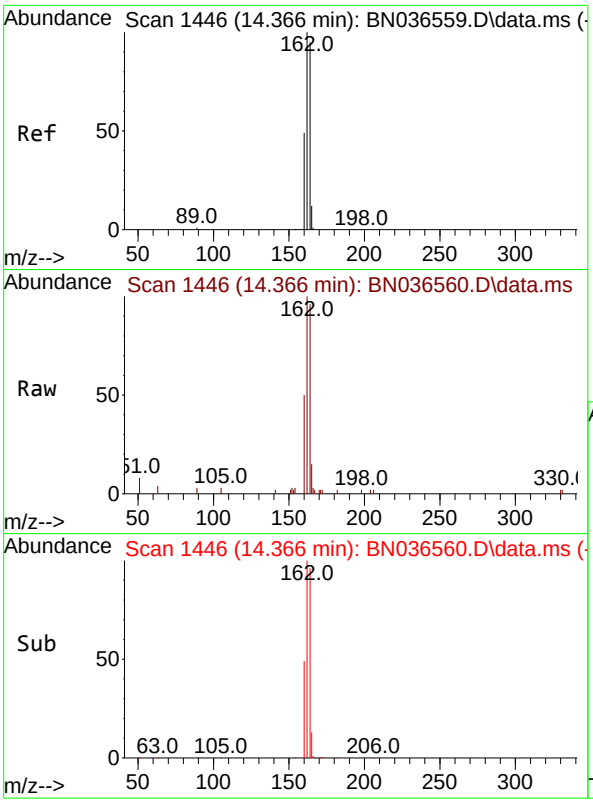


#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:142 Resp: 8272

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



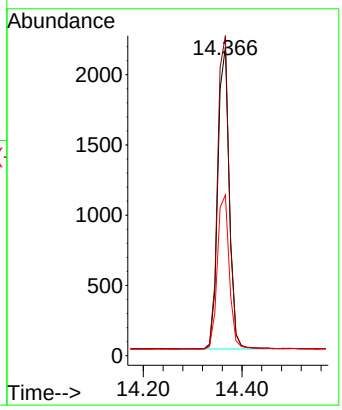


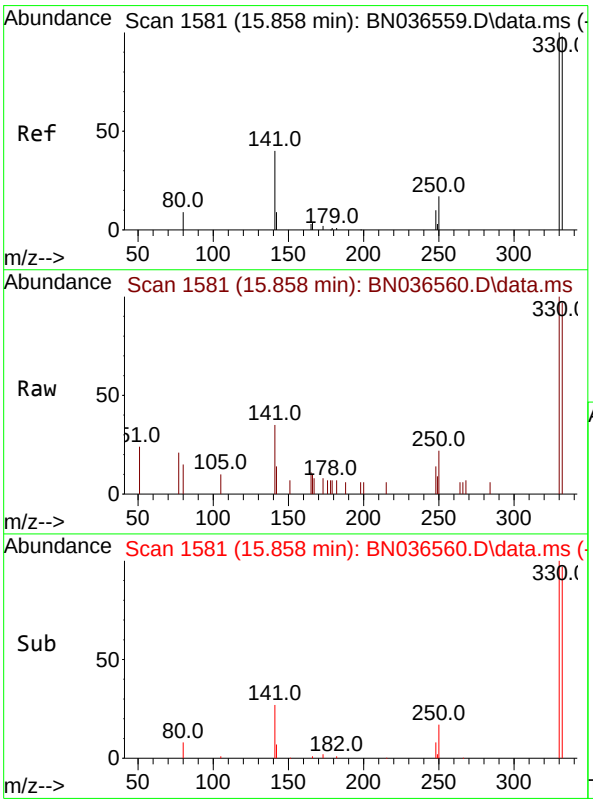
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3456

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

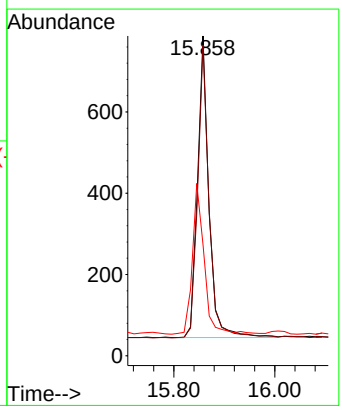


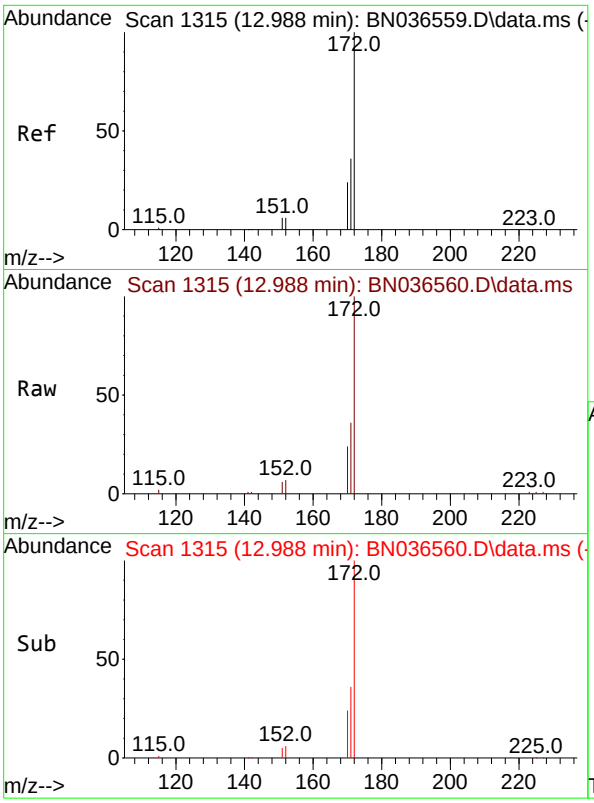


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:330 Resp: 1166

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



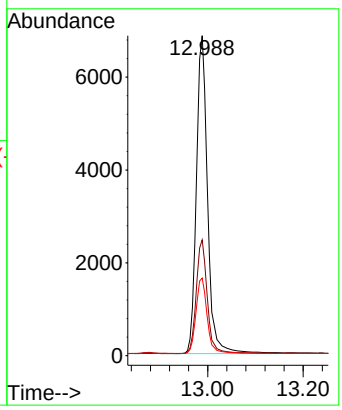


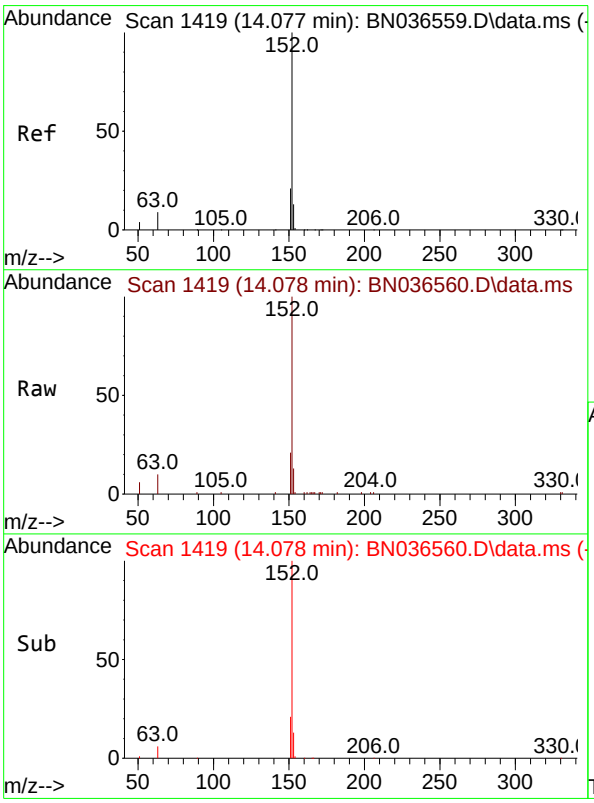
#15
2-Fluorobiphenyl
Concen: 0.808 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 16243

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

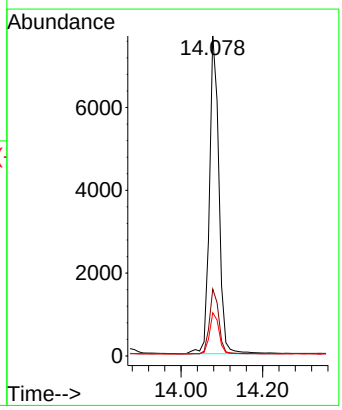


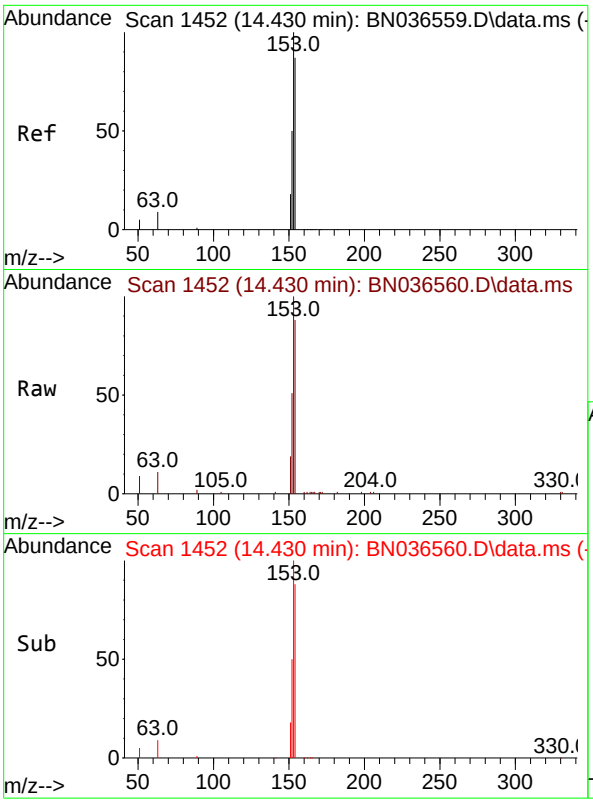


#16
Acenaphthylene
Concen: 0.760 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:152 Resp: 12403

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



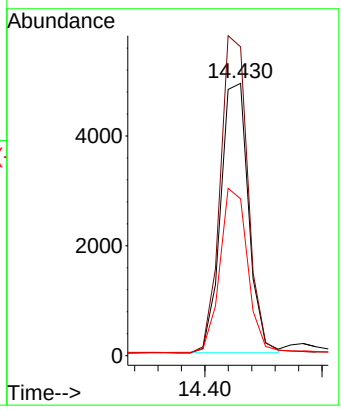


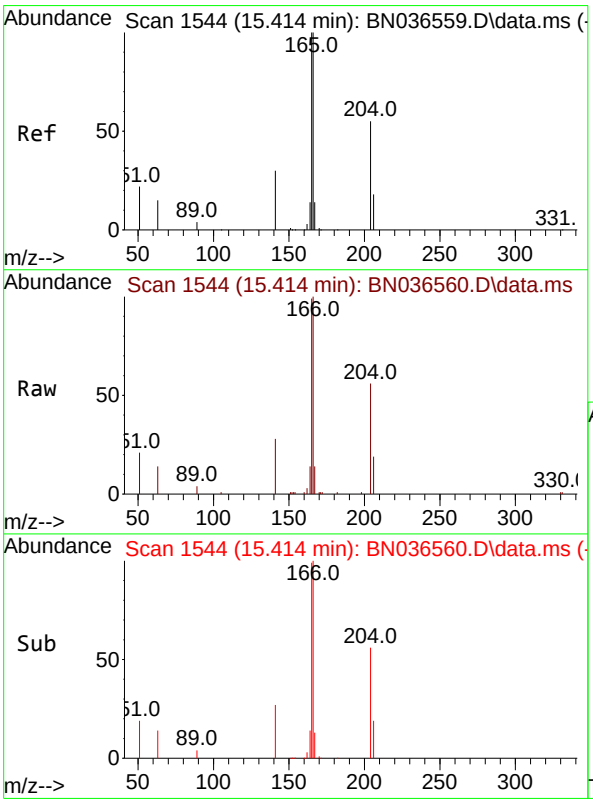
#17
Acenaphthene
Concen: 0.758 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 8096

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

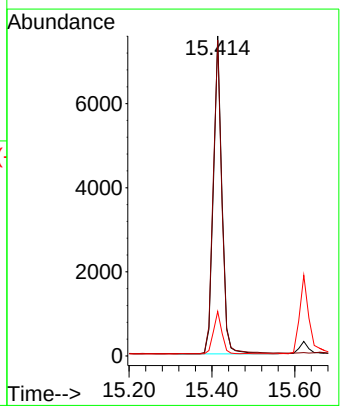


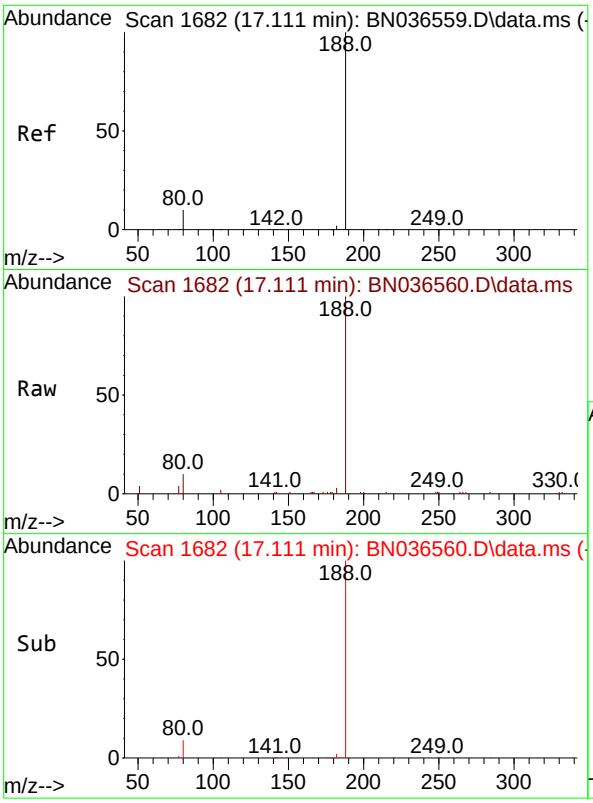


#18
Fluorene
Concen: 0.770 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:166 Resp: 11120

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



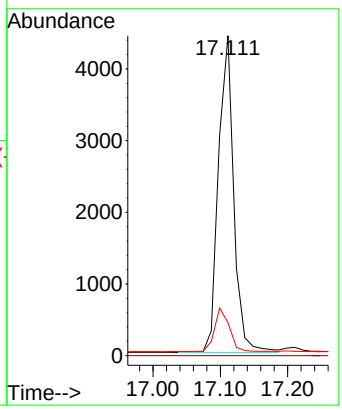


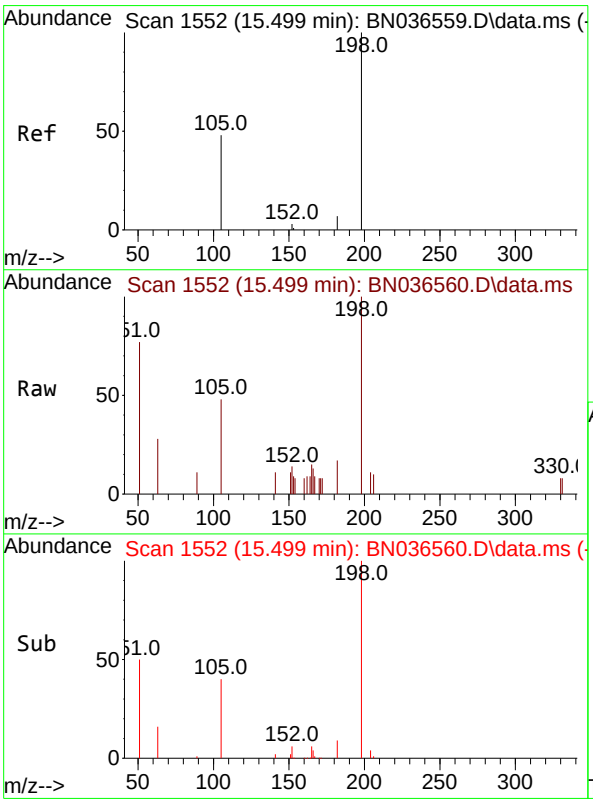
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 6971

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

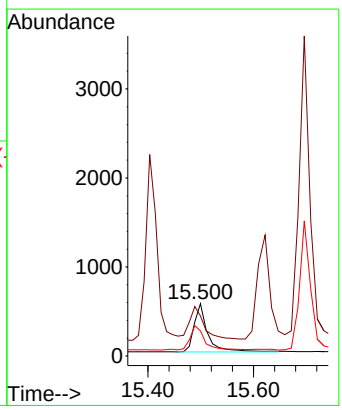


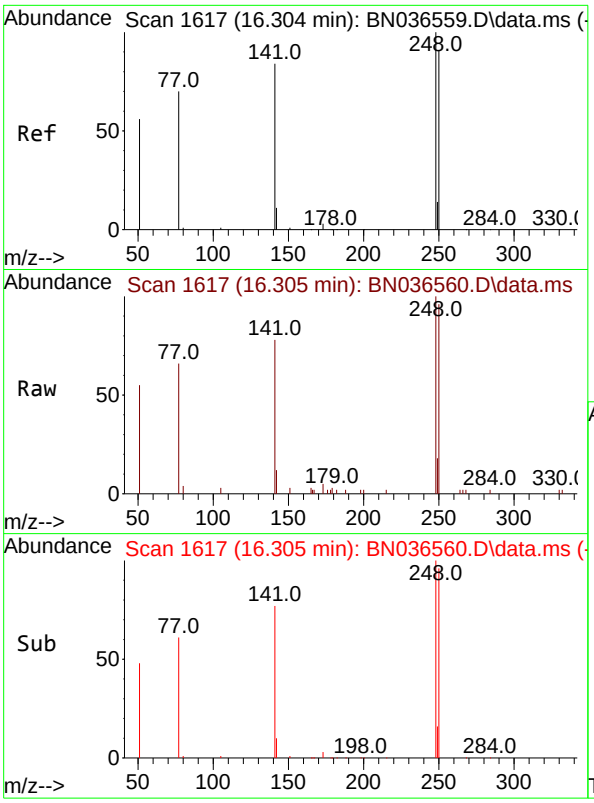


#20
4,6-Dinitro-2-methylphenol
Concen: 0.724 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:198 Resp: 1039

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



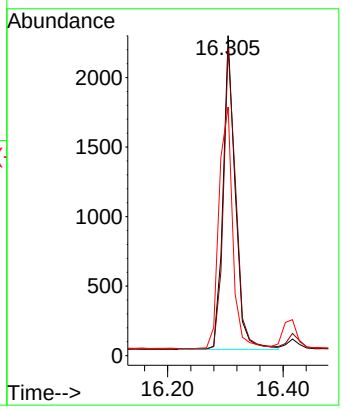


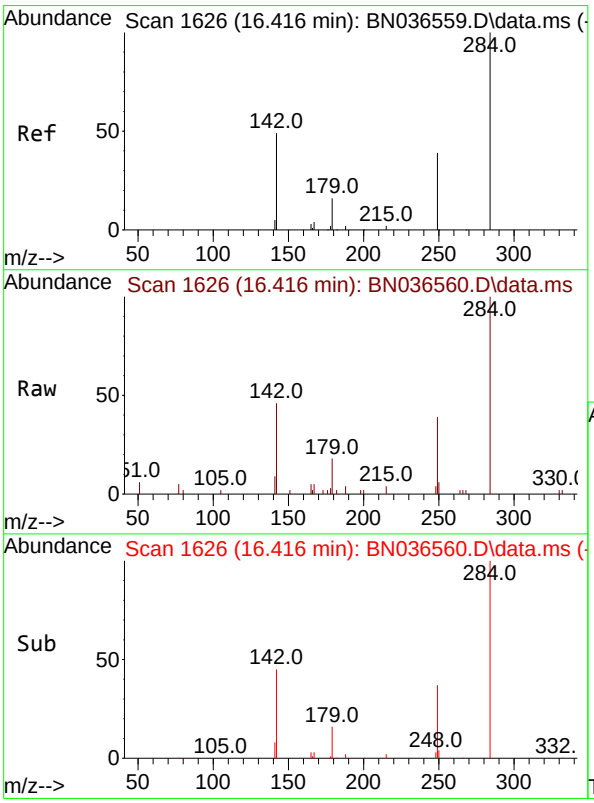
#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 3324

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

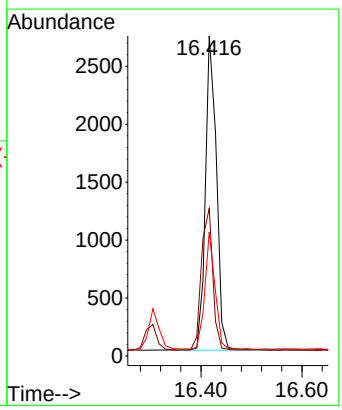


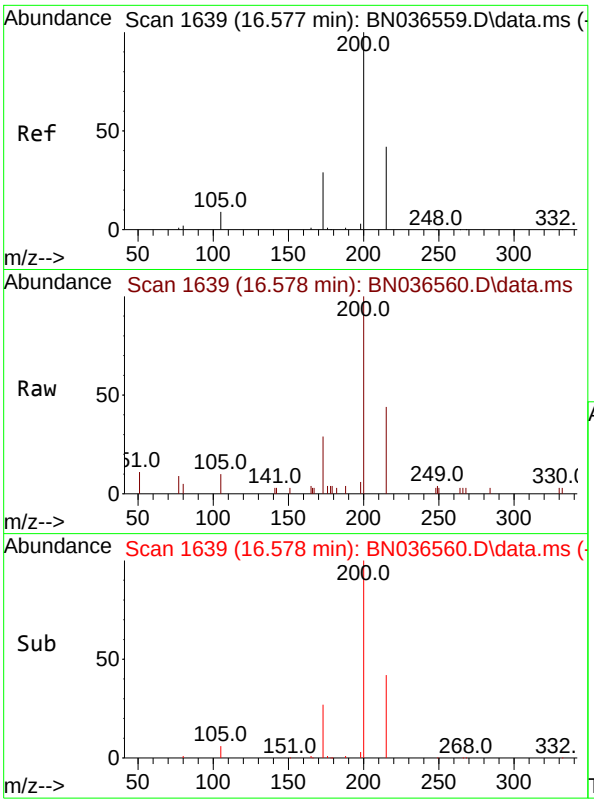


#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:284 Resp: 4115

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



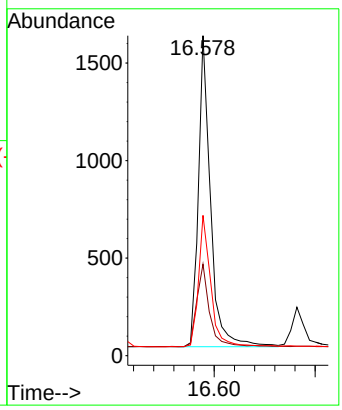


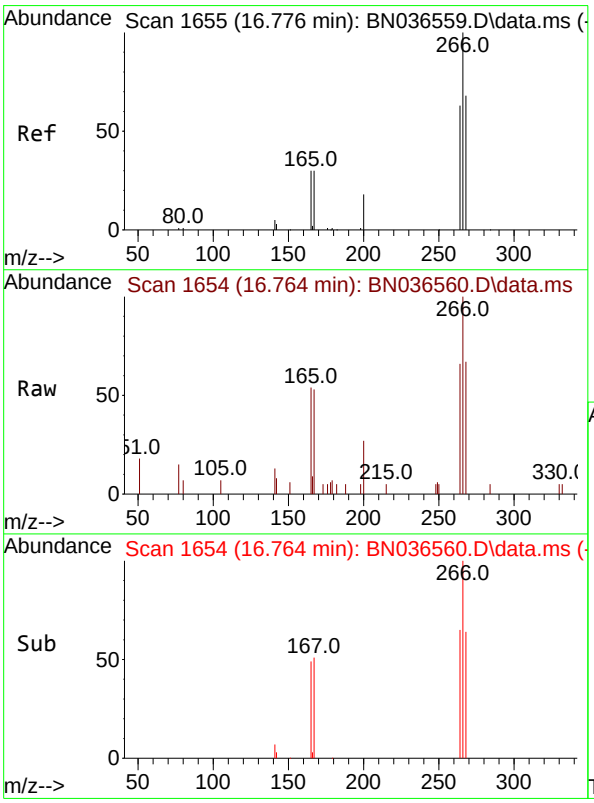
#23
Atrazine
Concen: 0.764 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2677

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

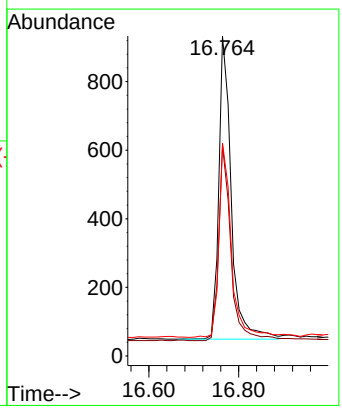


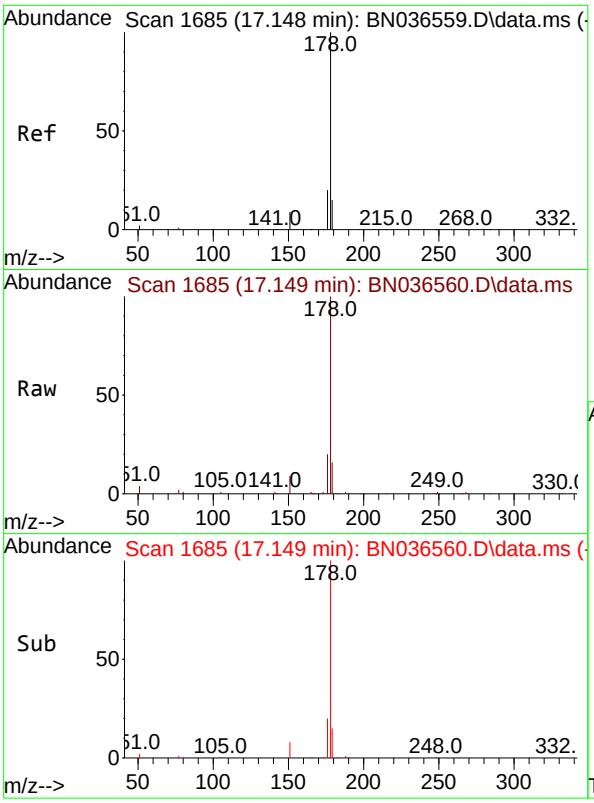


#24
Pentachlorophenol
Concen: 0.707 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:266 Resp: 1701

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



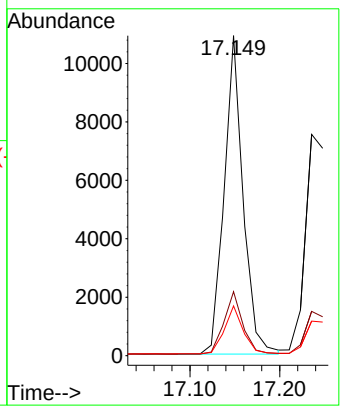


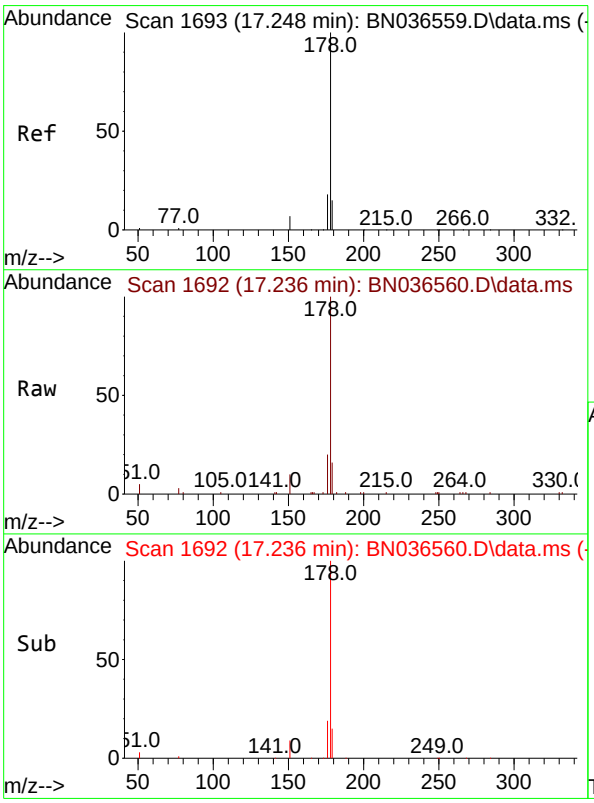
#25
Phenanthrene
Concen: 0.761 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 15910

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

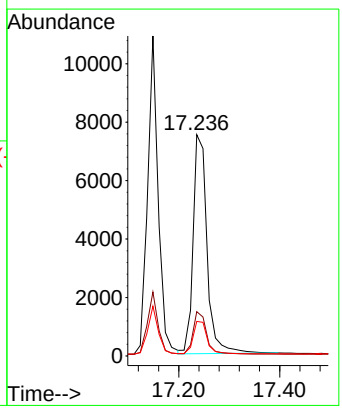


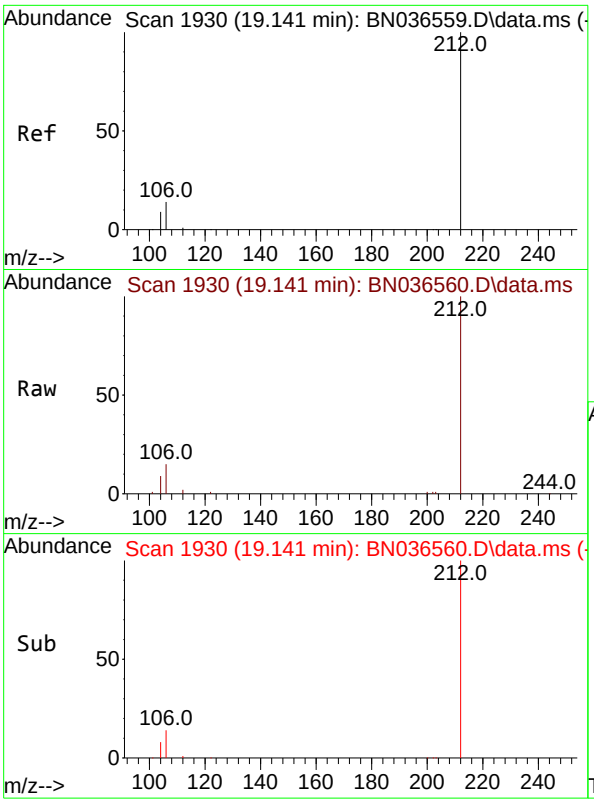


#26
Anthracene
Concen: 0.763 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:178 Resp: 14403

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



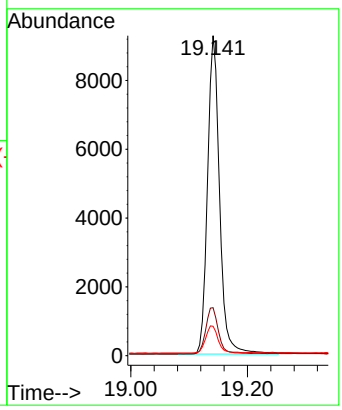


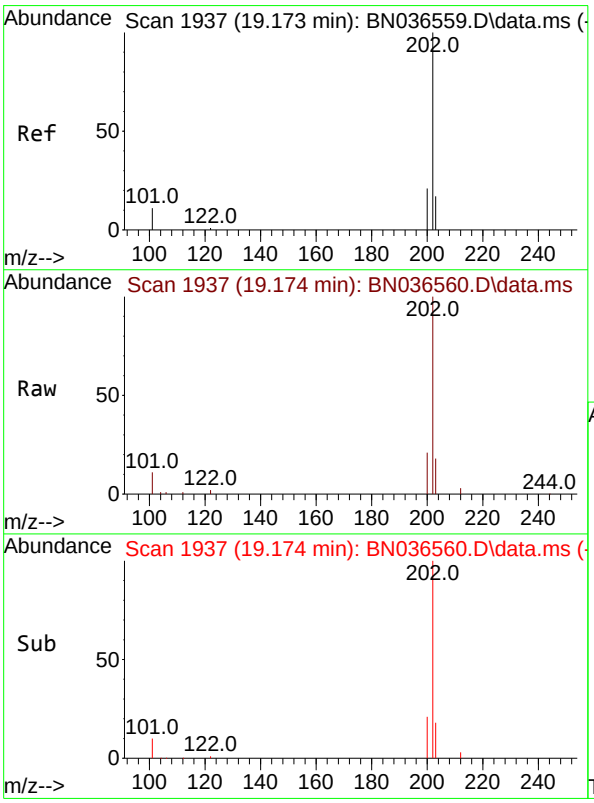
#27
Fluoranthene-d10
Concen: 0.746 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 13330

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

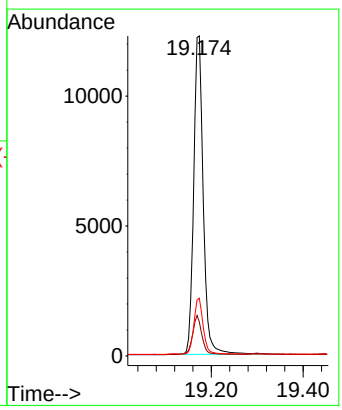


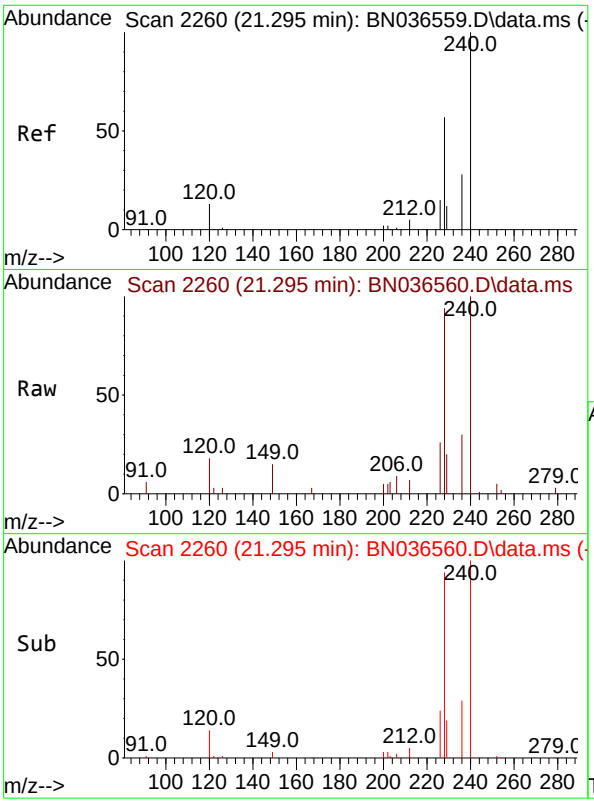


#28
Fluoranthene
Concen: 0.755 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:202 Resp: 17738

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



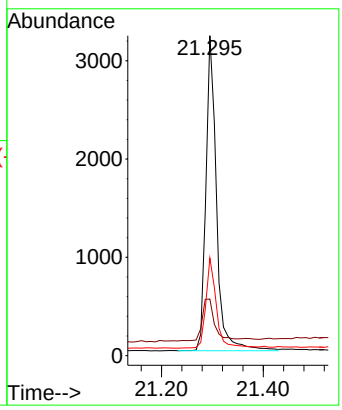


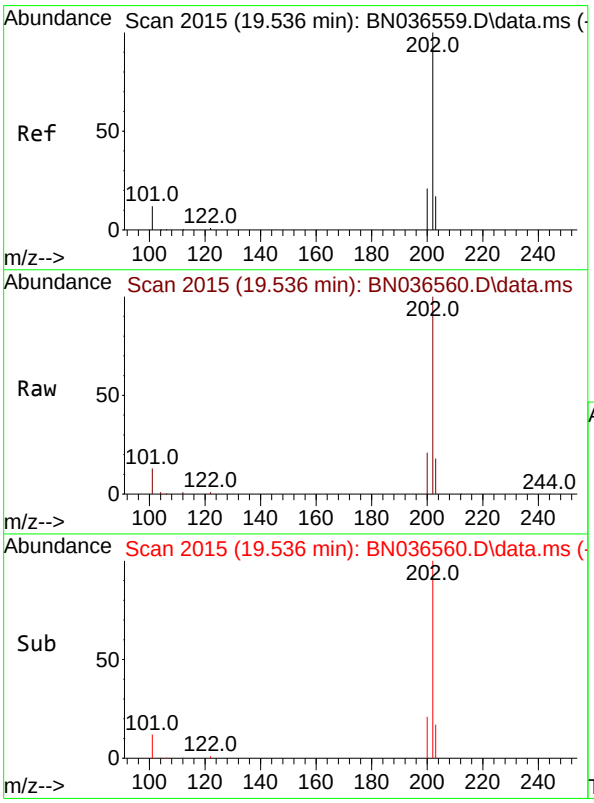
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 4636

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

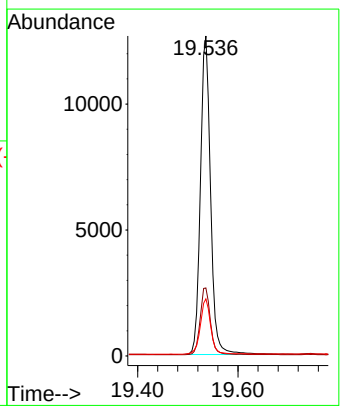


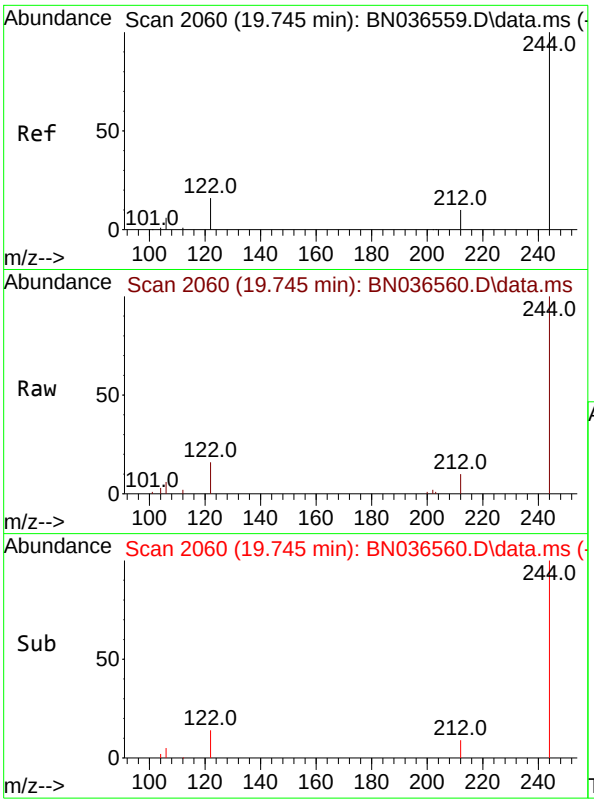


#30
Pyrene
Concen: 0.781 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:202 Resp: 17714

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



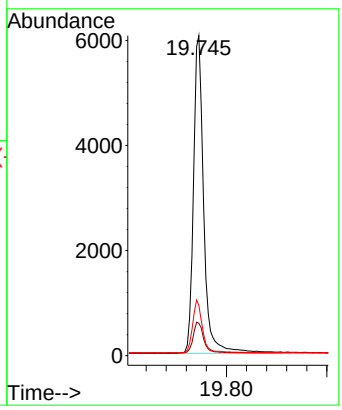


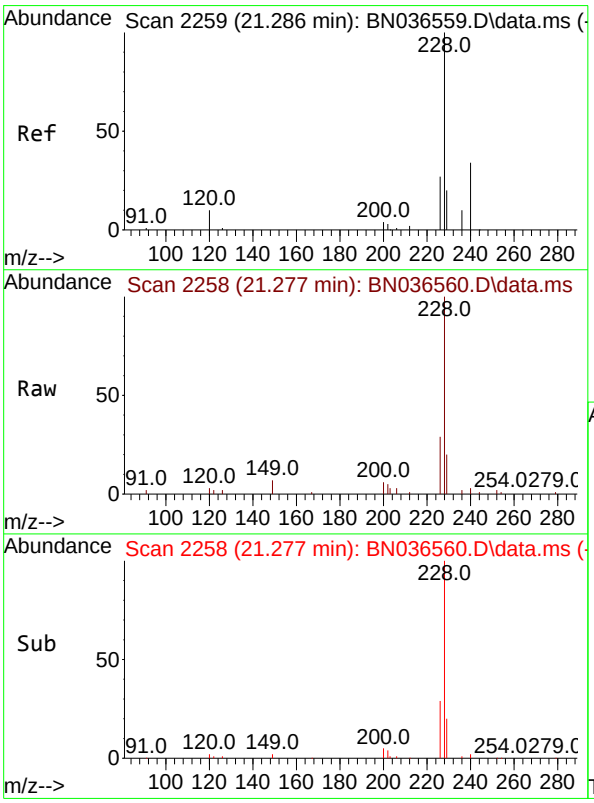
#31
Terphenyl-d14
Concen: 0.772 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 8571

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

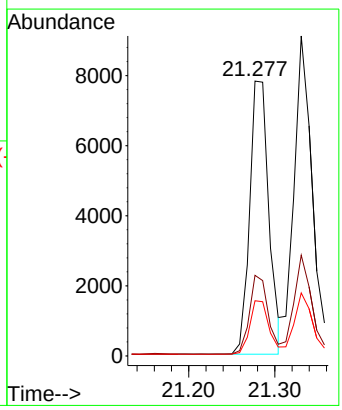


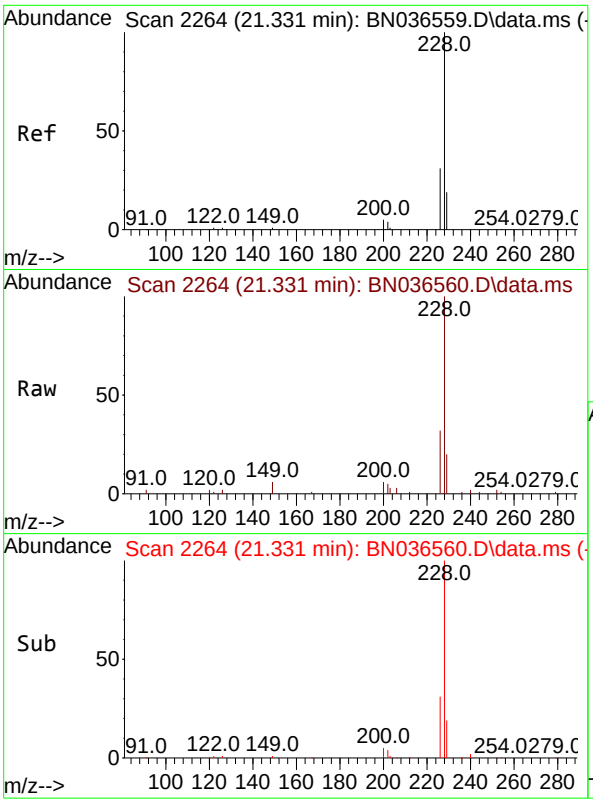


#32
Benzo(a)anthracene
Concen: 0.750 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:228 Resp: 12089

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



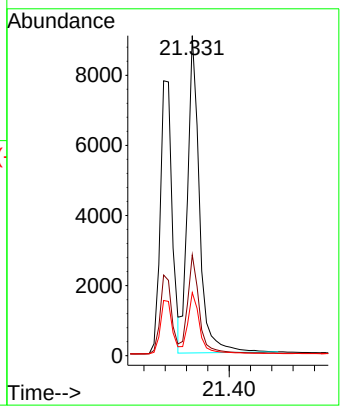


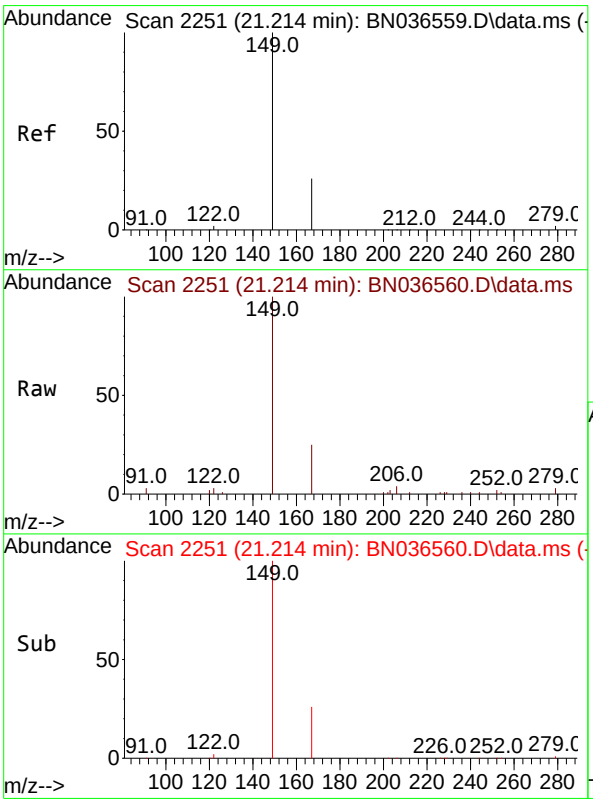
#33
Chrysene
Concen: 0.793 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 13974

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

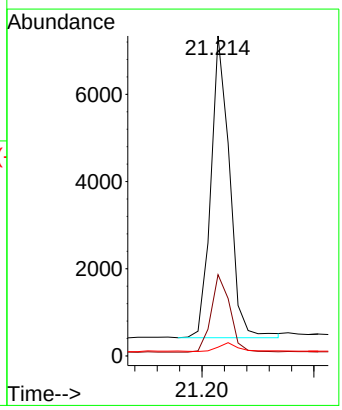


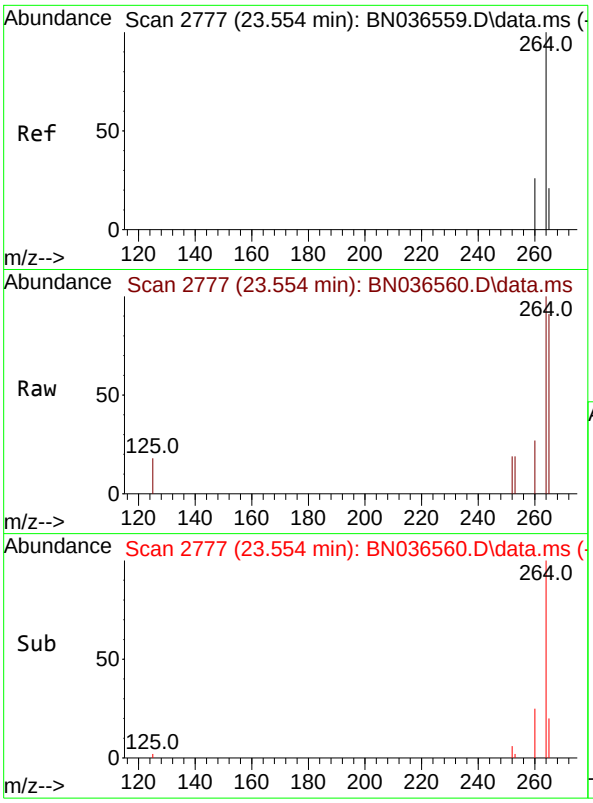


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.699 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:149 Resp: 8021

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



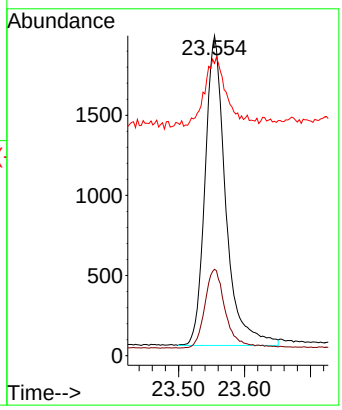


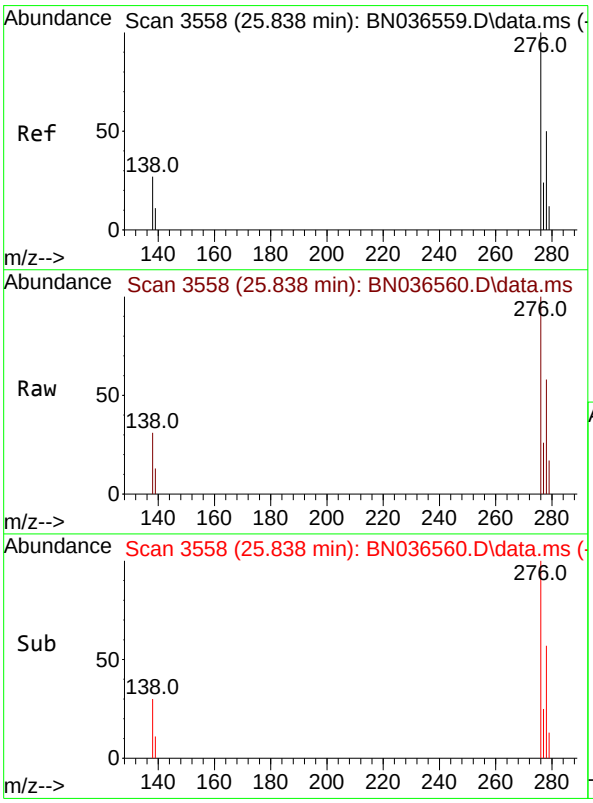
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 4198

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

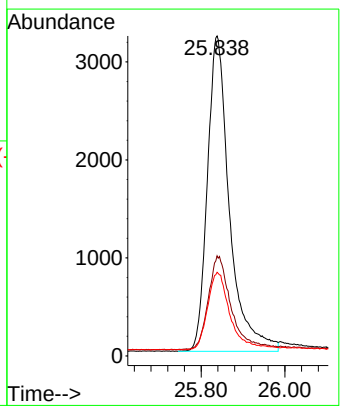


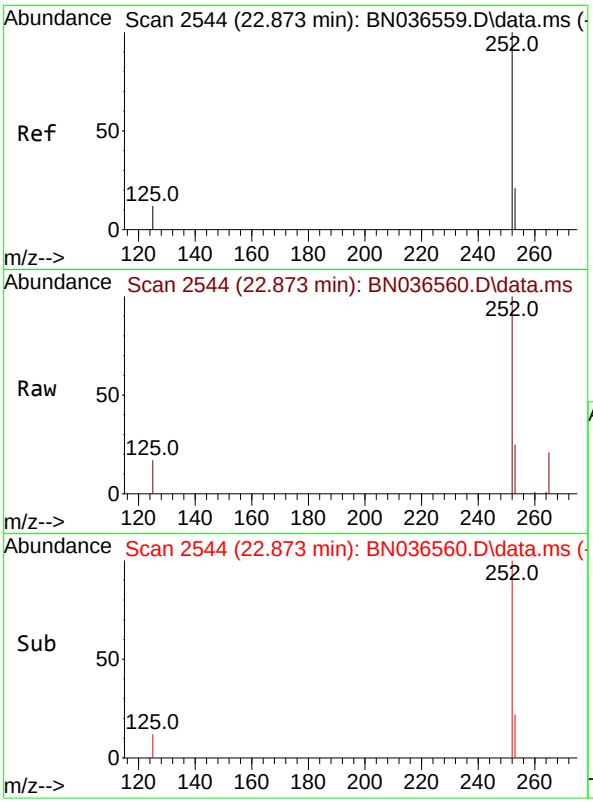


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.778 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:276 Resp: 11785

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



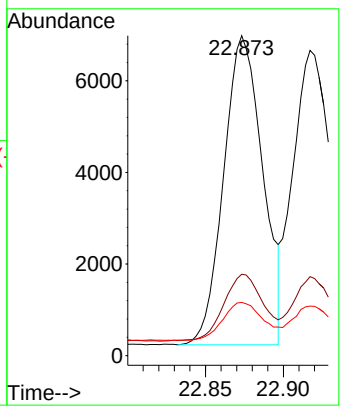


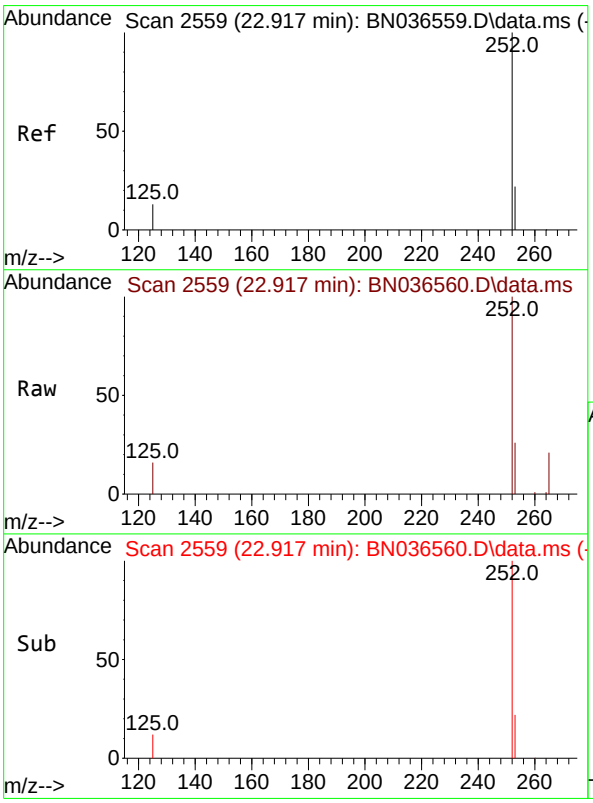
#37
Benzo(b)fluoranthene
Concen: 0.770 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 11771

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

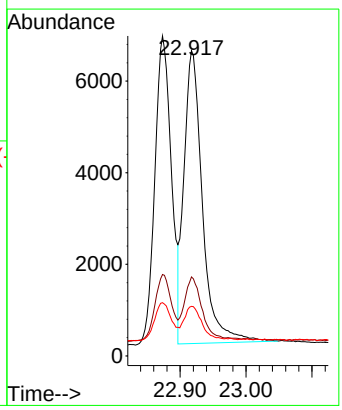


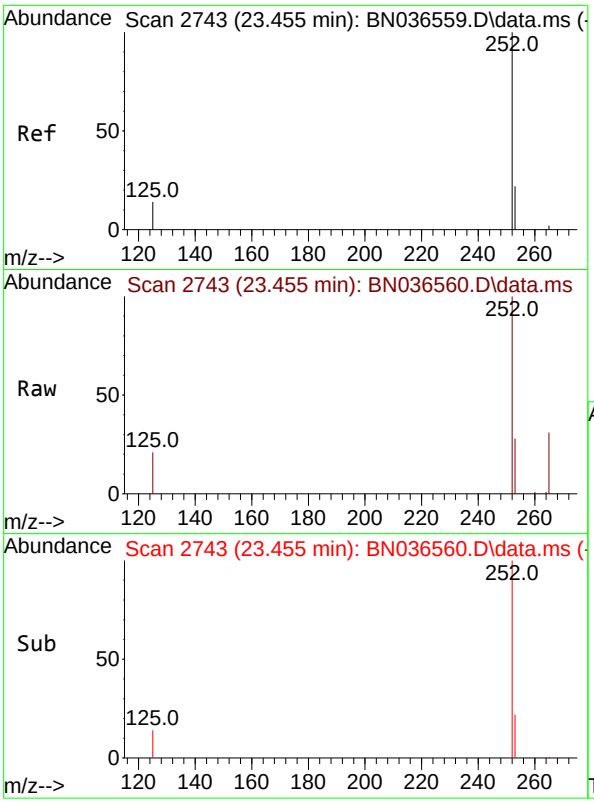


#38
Benzo(k)fluoranthene
Concen: 0.776 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:252 Resp: 12432

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



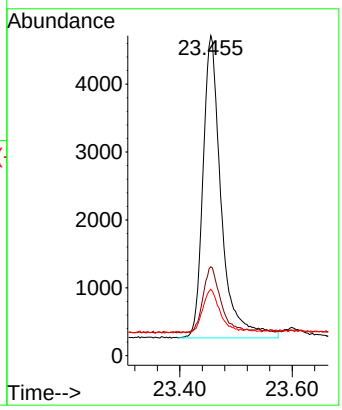


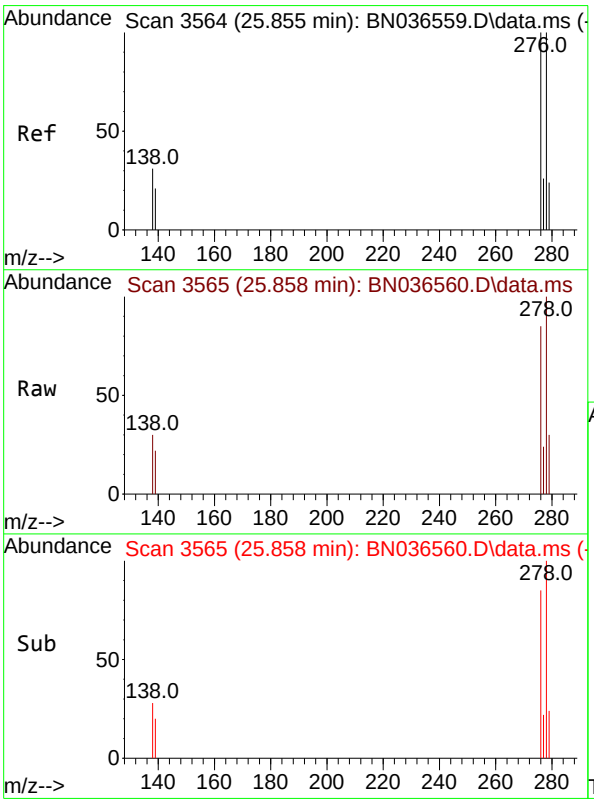
#39
Benzo(a)pyrene
Concen: 0.780 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 10036

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

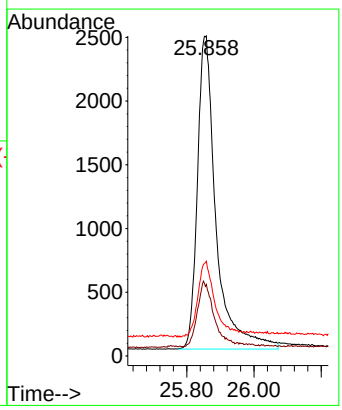


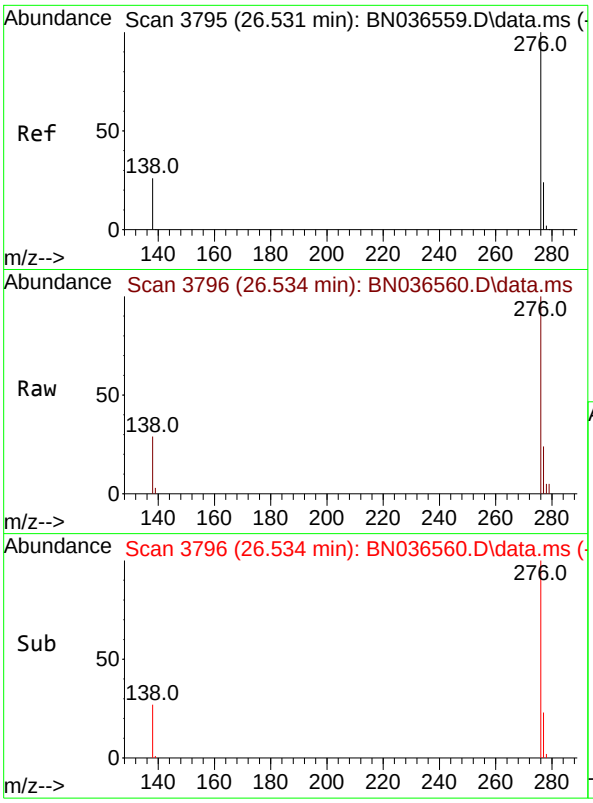


#40
Dibenzo(a,h)anthracene
Concen: 0.801 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:278 Resp: 9450

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



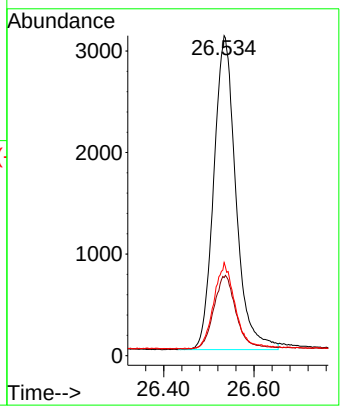


#41
Benzo(g,h,i)perylene
Concen: 0.778 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 10494

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



Quantitation Report (QT Reviewed)

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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

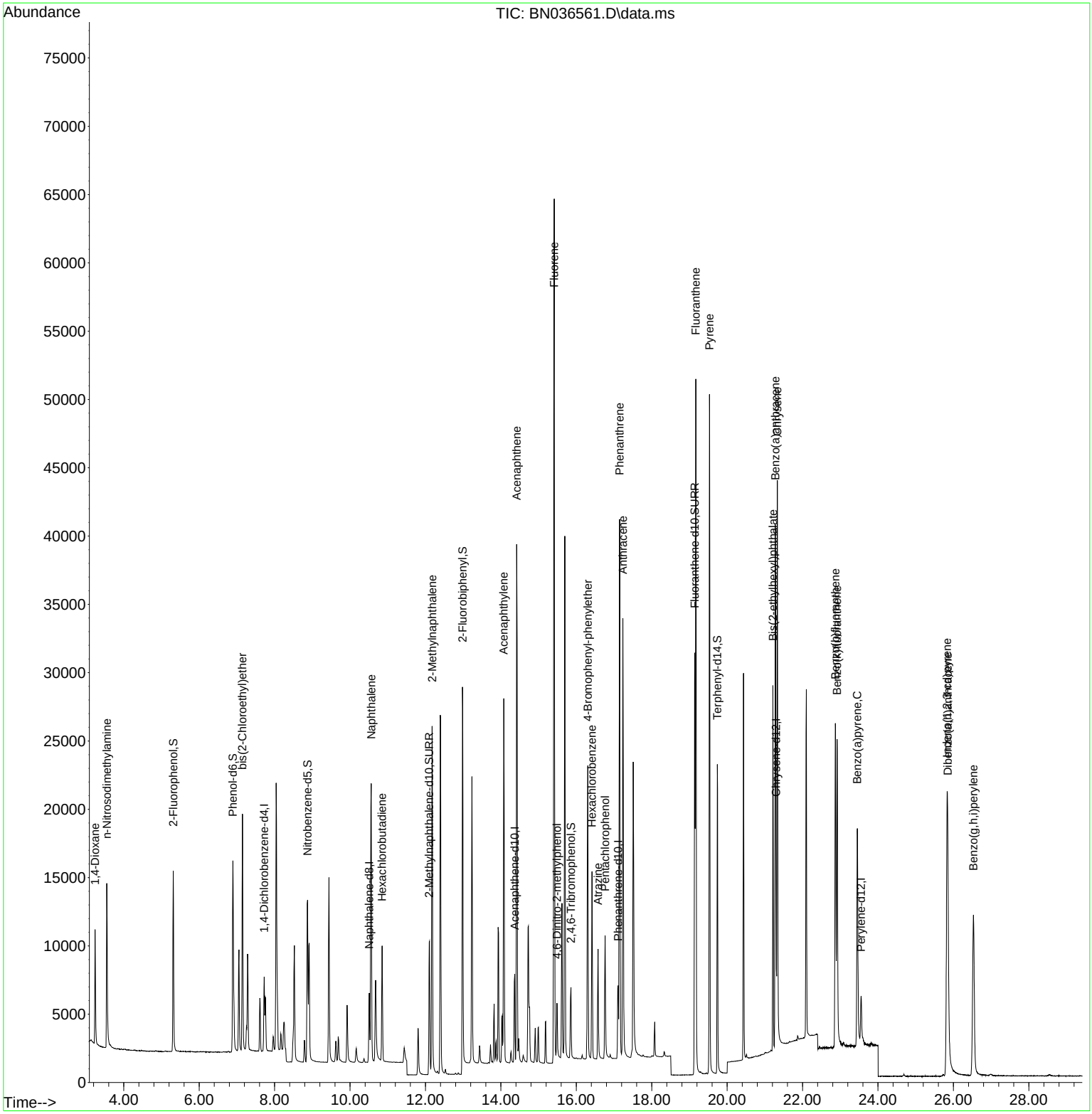
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng		0.00
29) Chrysene-d12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

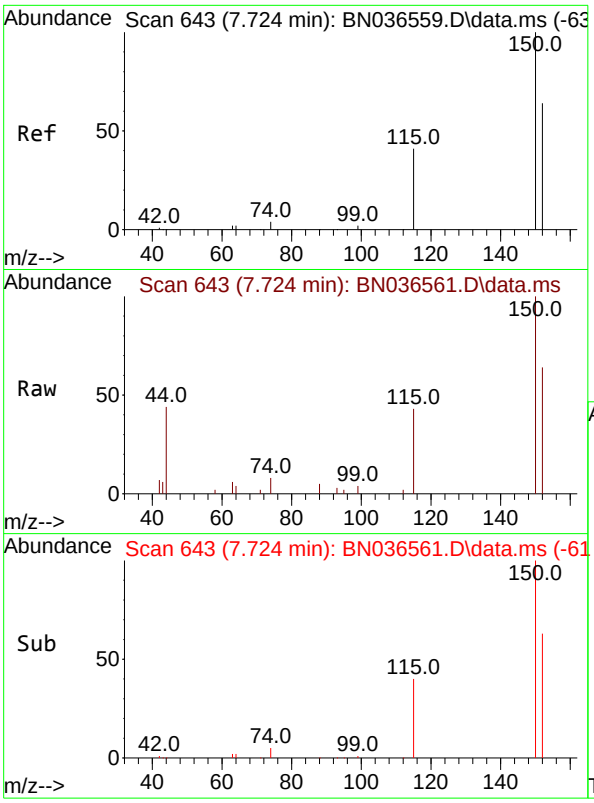
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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



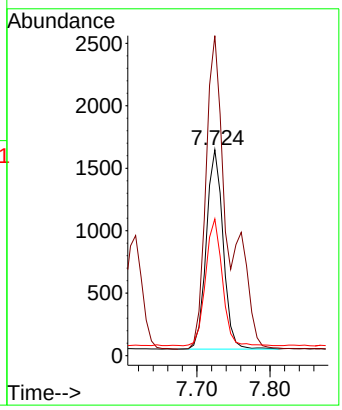


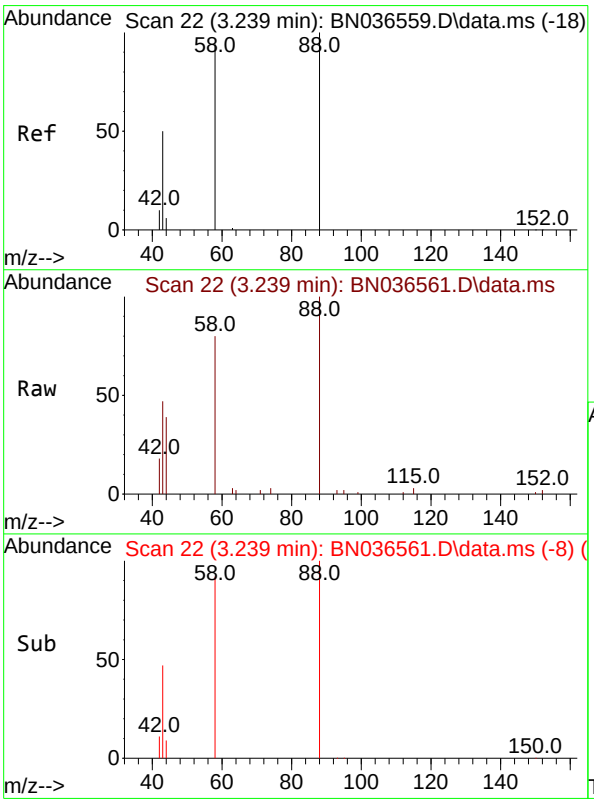
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2537

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

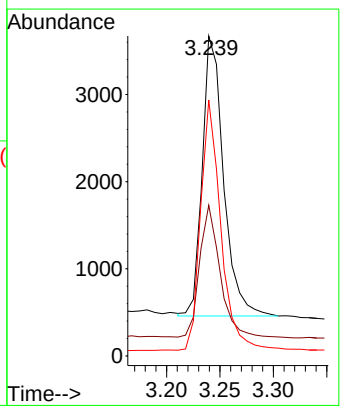


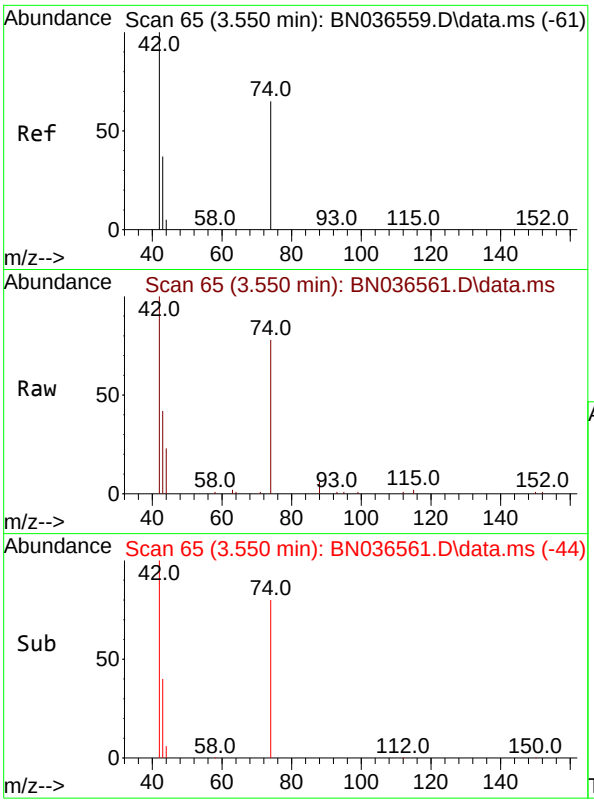


#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 88 Resp: 4464

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



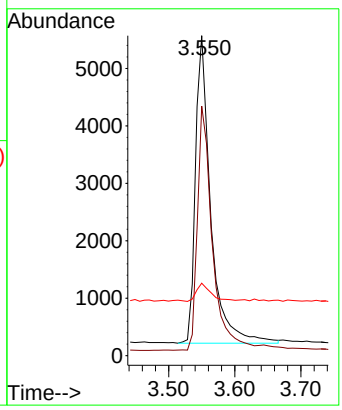


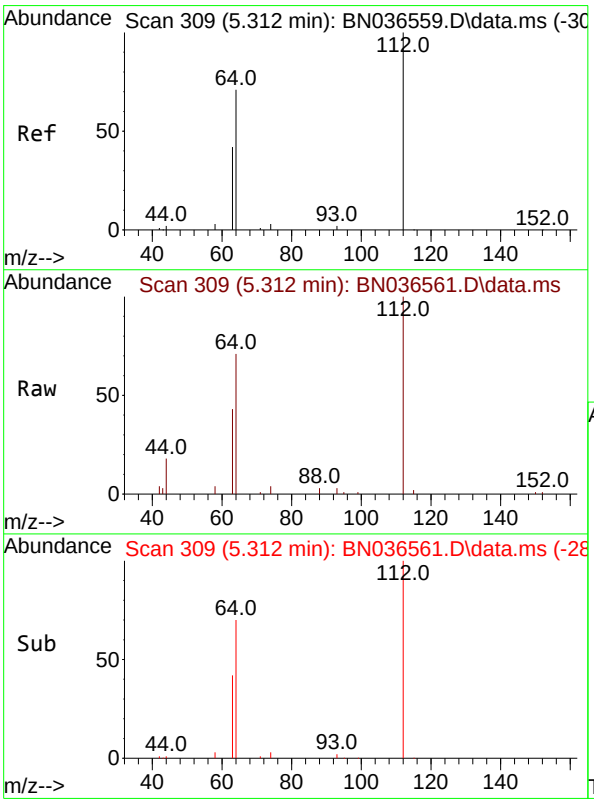
#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 8625

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

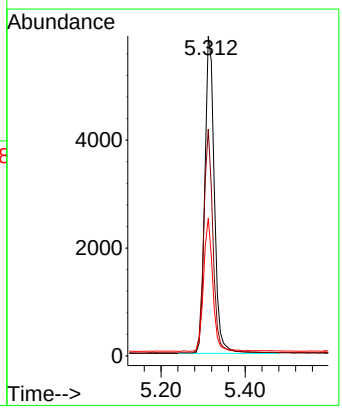


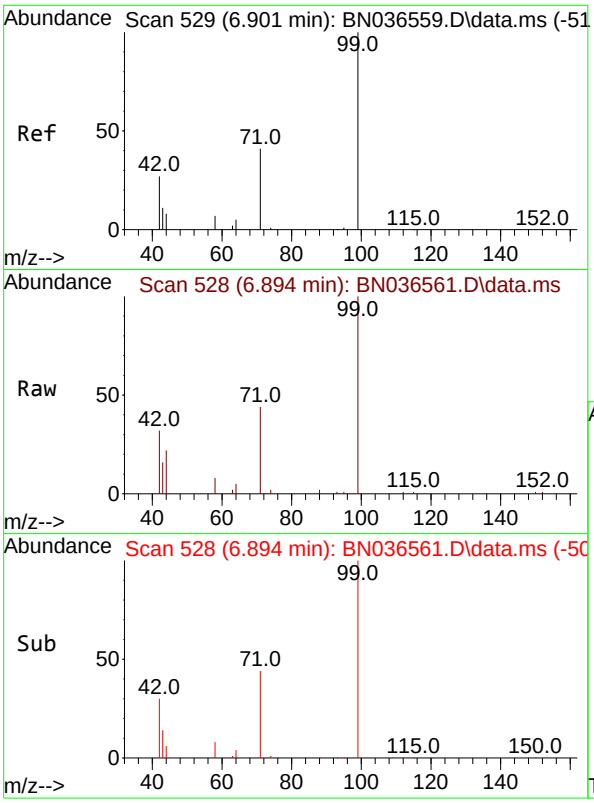


#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:112 Resp: 9276

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



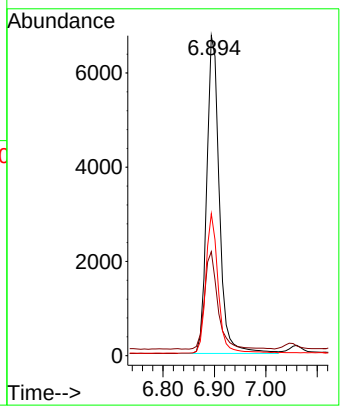


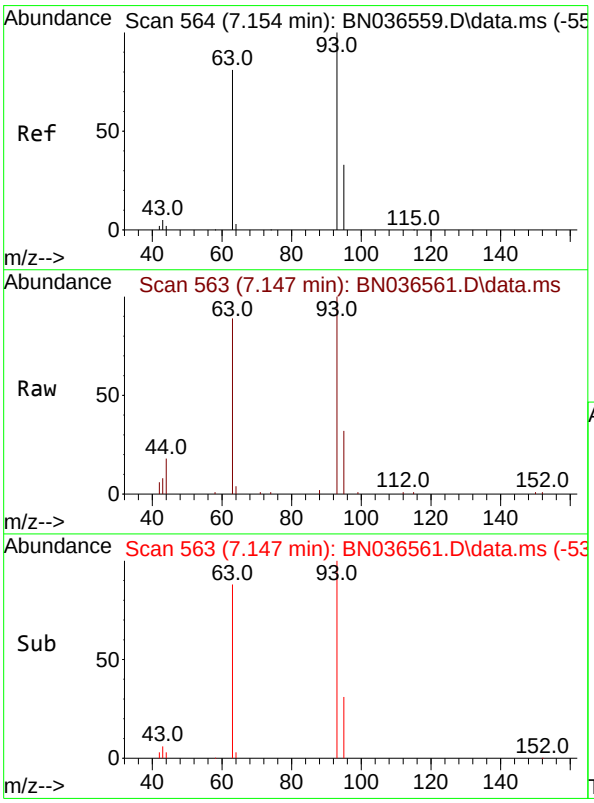
#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 11493

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

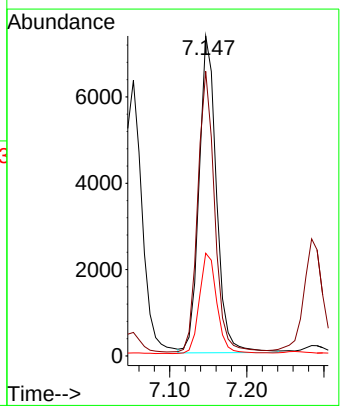


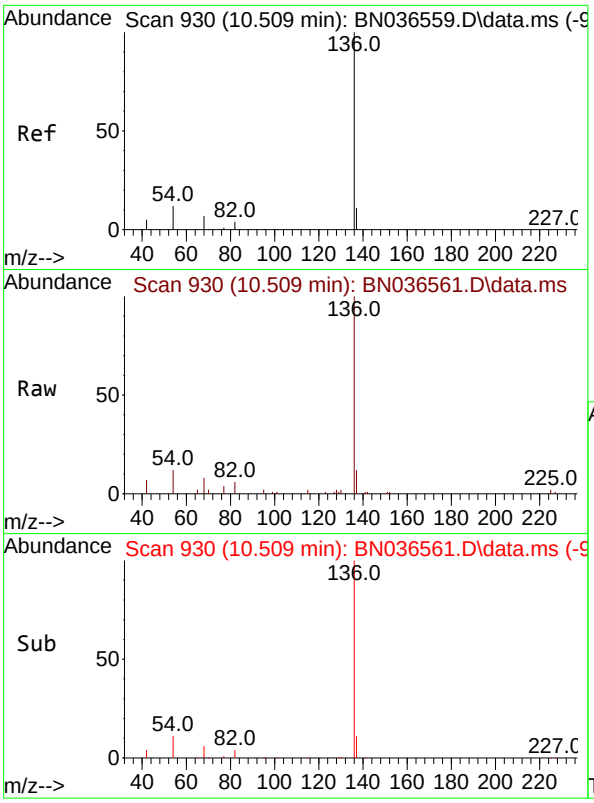


#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 93 Resp: 11485

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



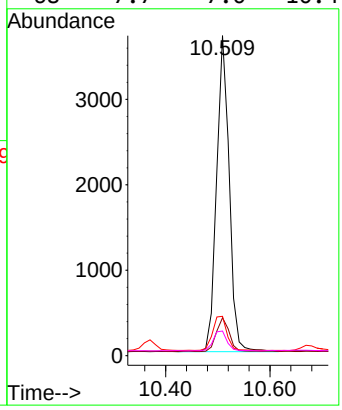


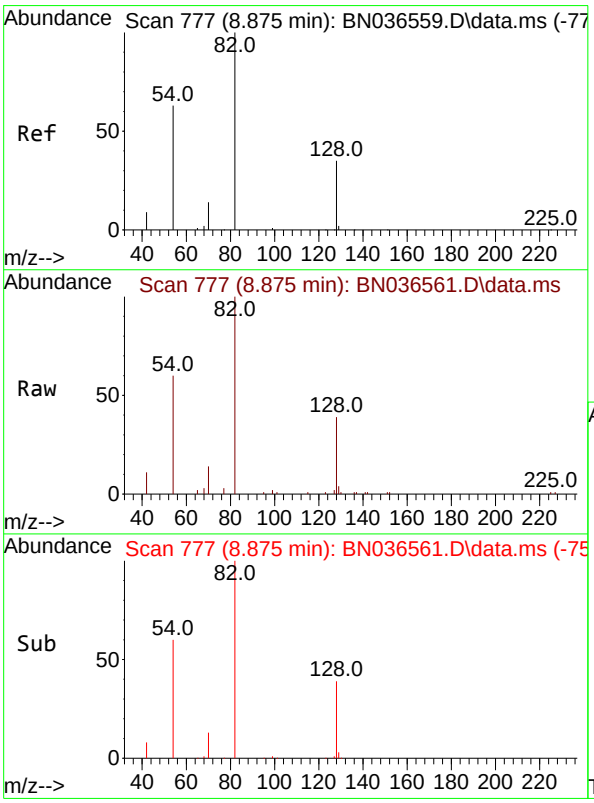
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 6200

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

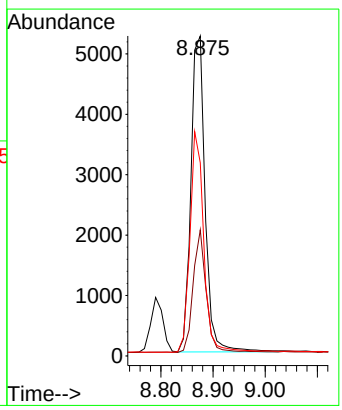


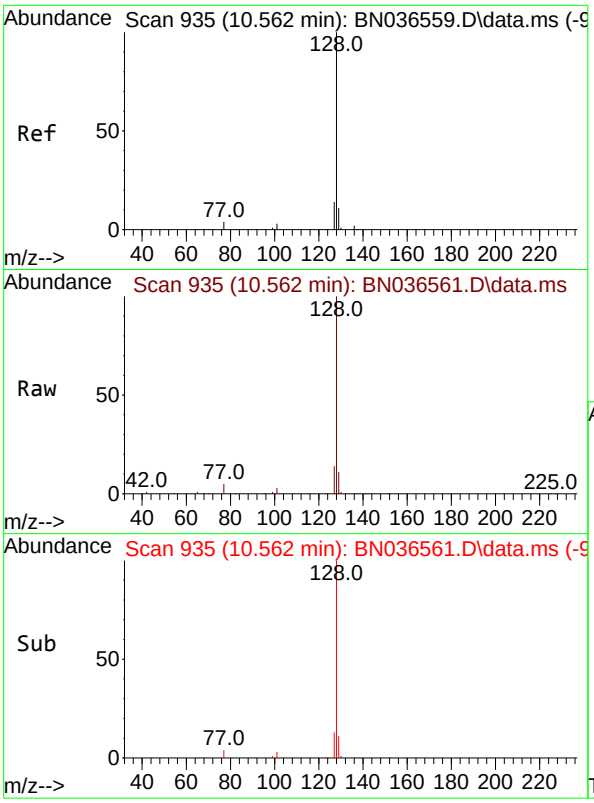


#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 82 Resp: 9959

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



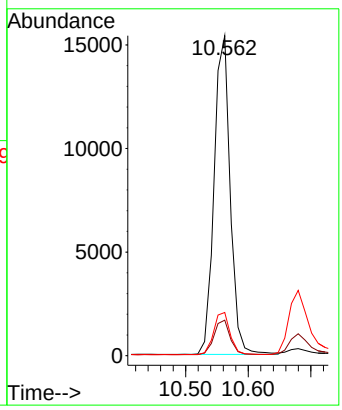


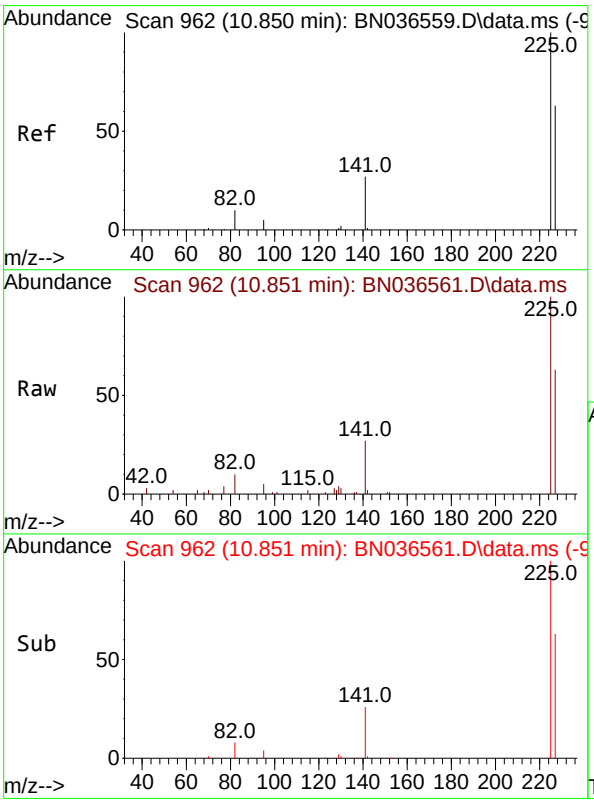
#9
Naphthalene
Concen: 1.506 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 27473

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

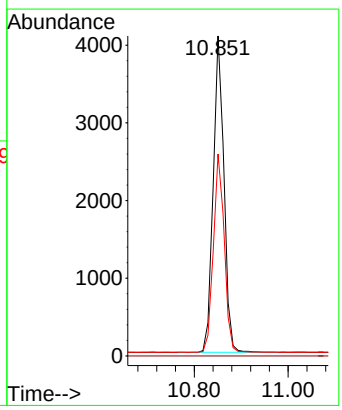


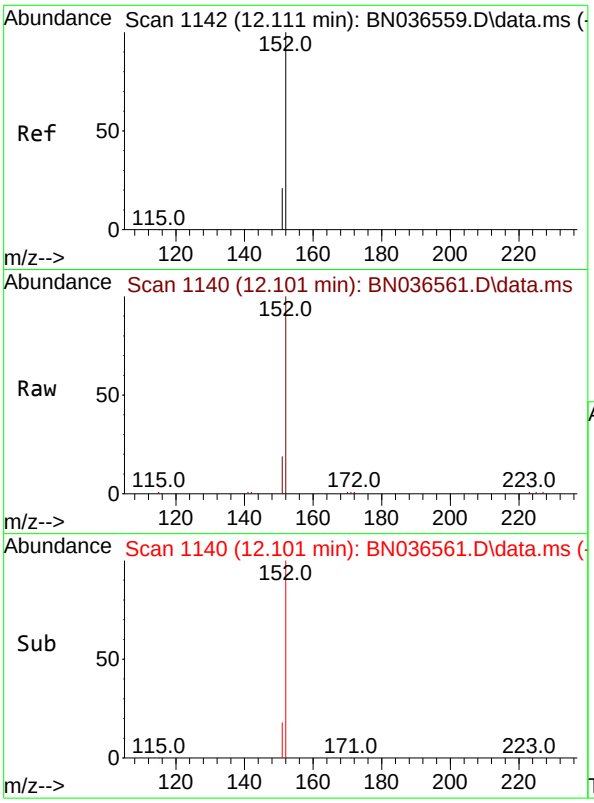


#10
Hexachlorobutadiene
Concen: 1.506 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:225 Resp: 6466

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



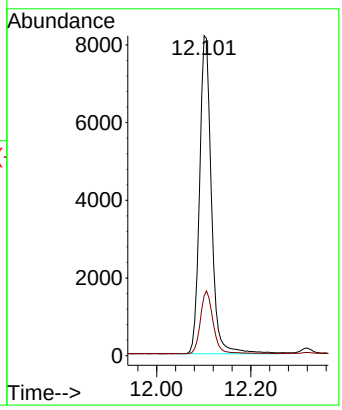


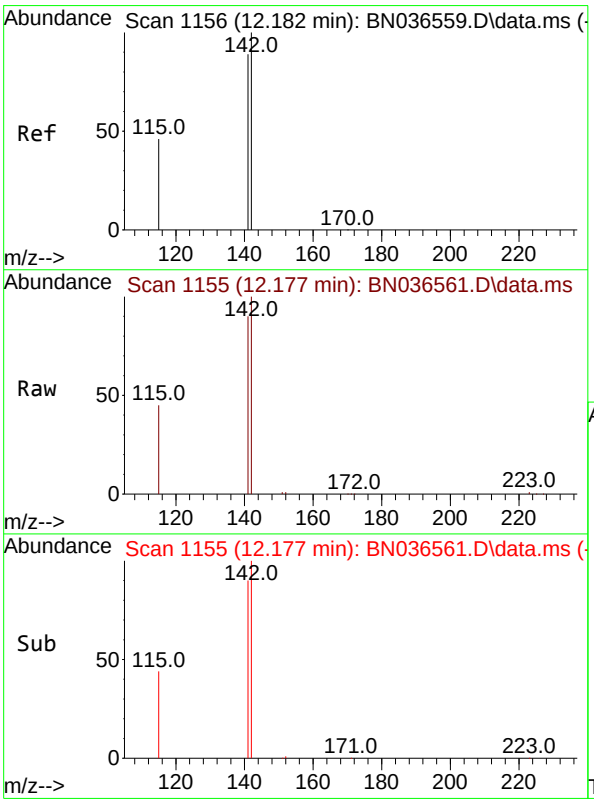
#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 14319

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

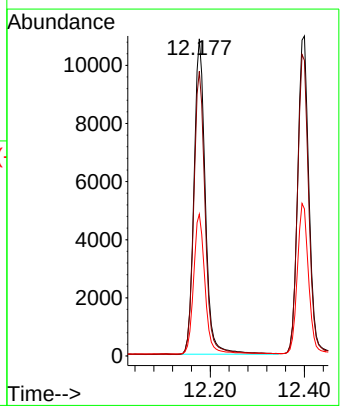


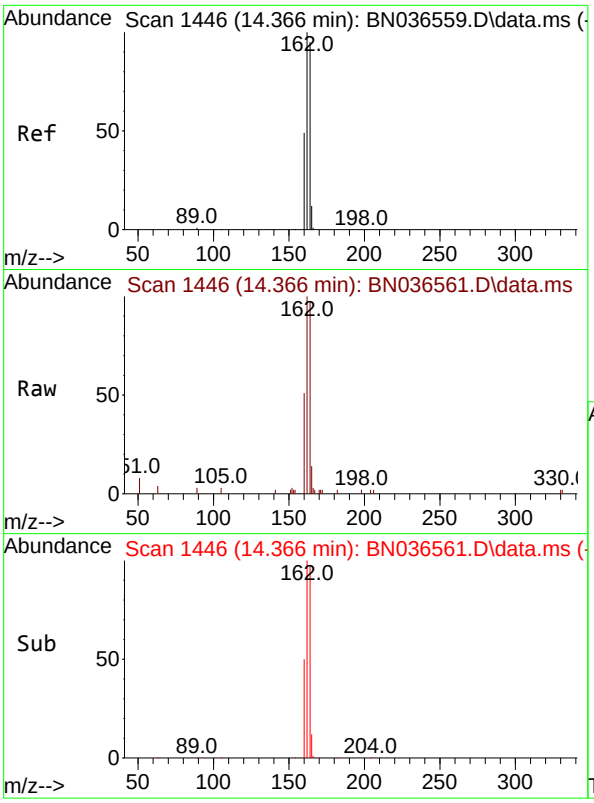


#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:142 Resp: 18206

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



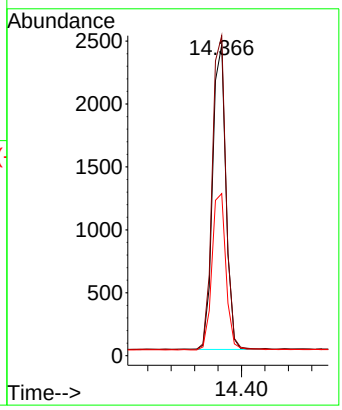


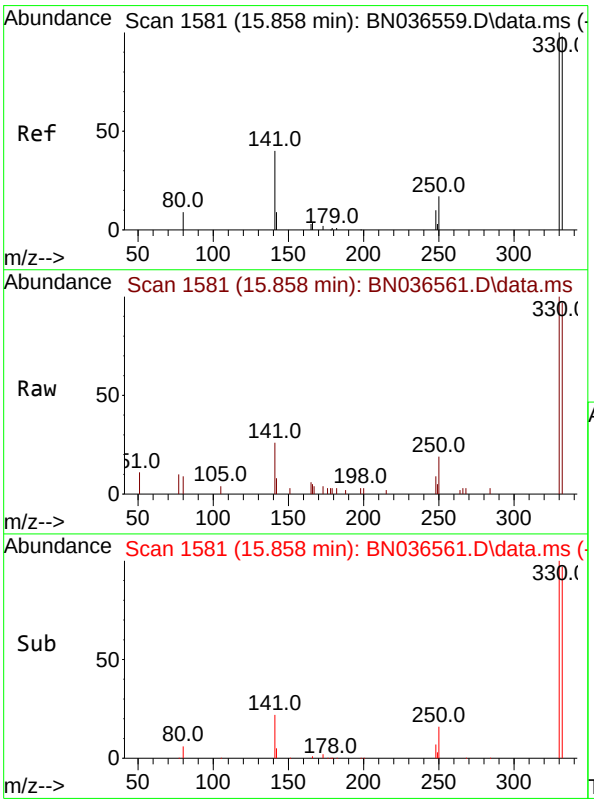
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3827

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

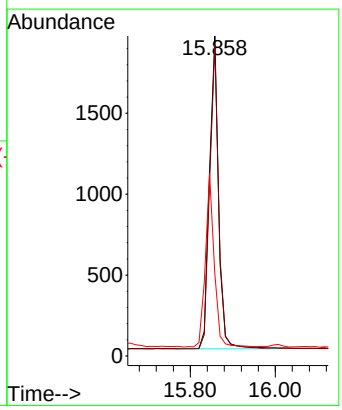


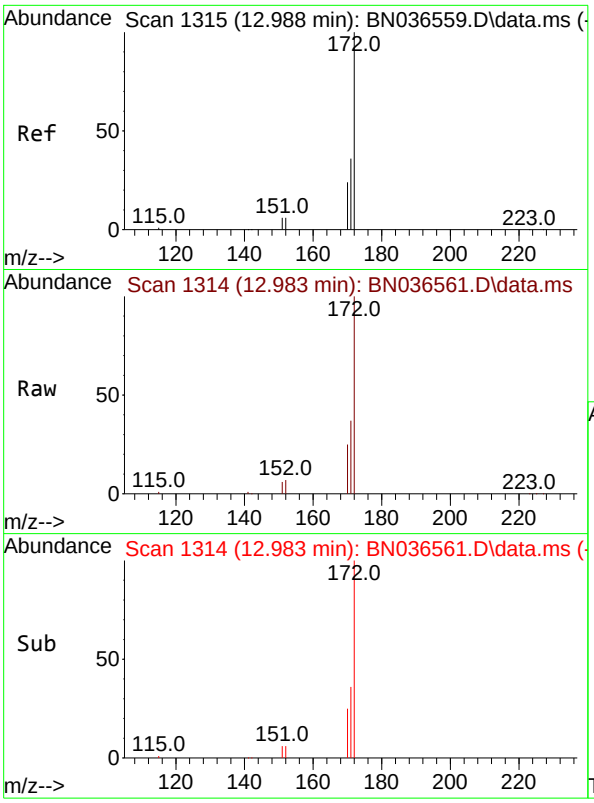


#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:330 Resp: 2872

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



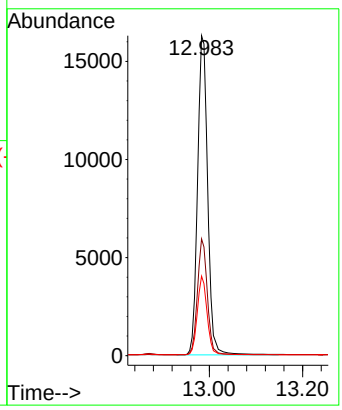


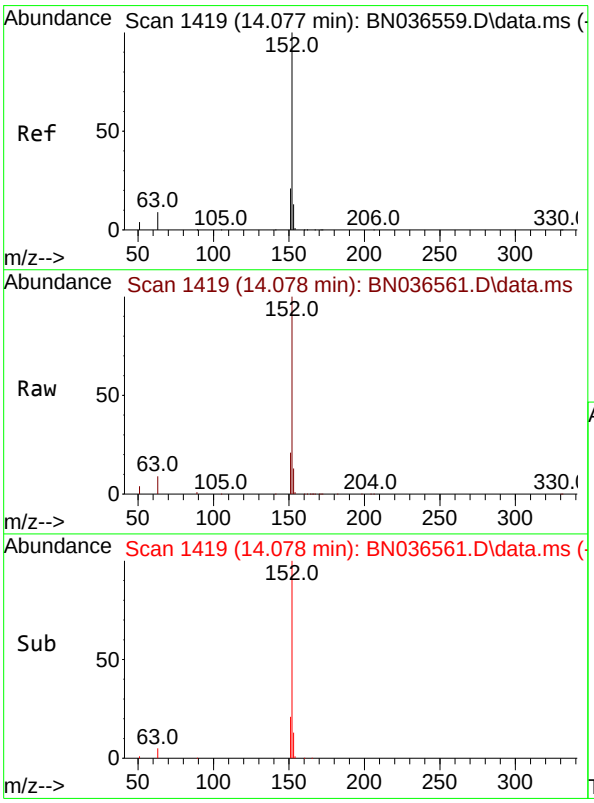
#15
2-Fluorobiphenyl
Concen: 1.626 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 36192

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

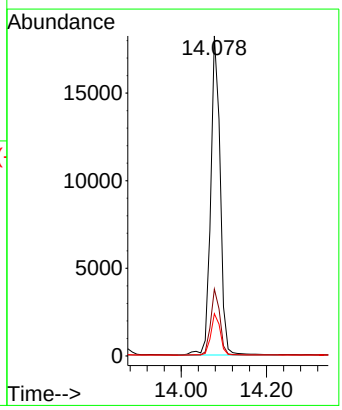


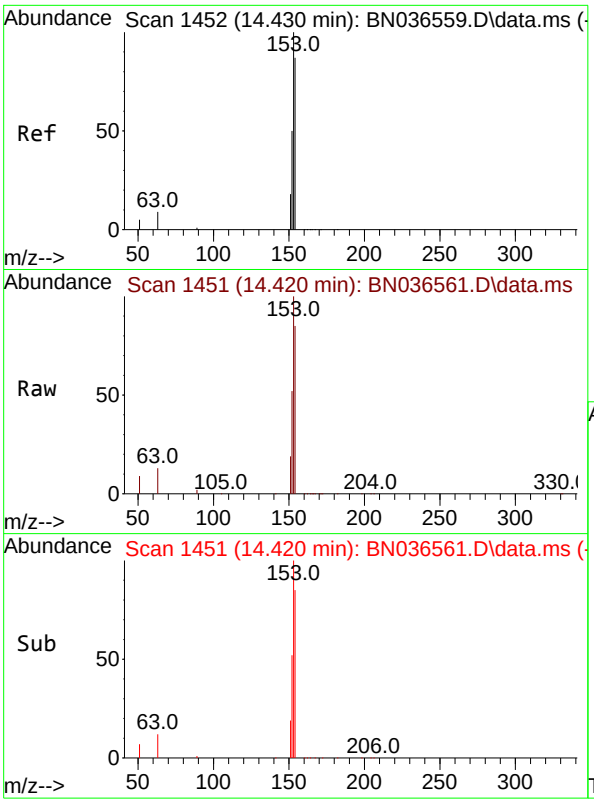


#16
Acenaphthylene
Concen: 1.555 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:152 Resp: 28080

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



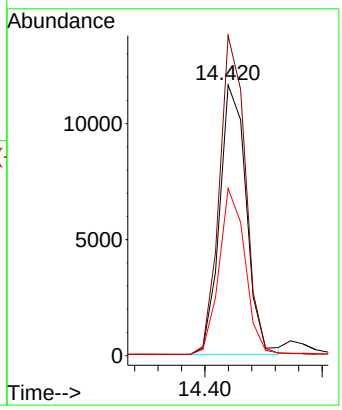


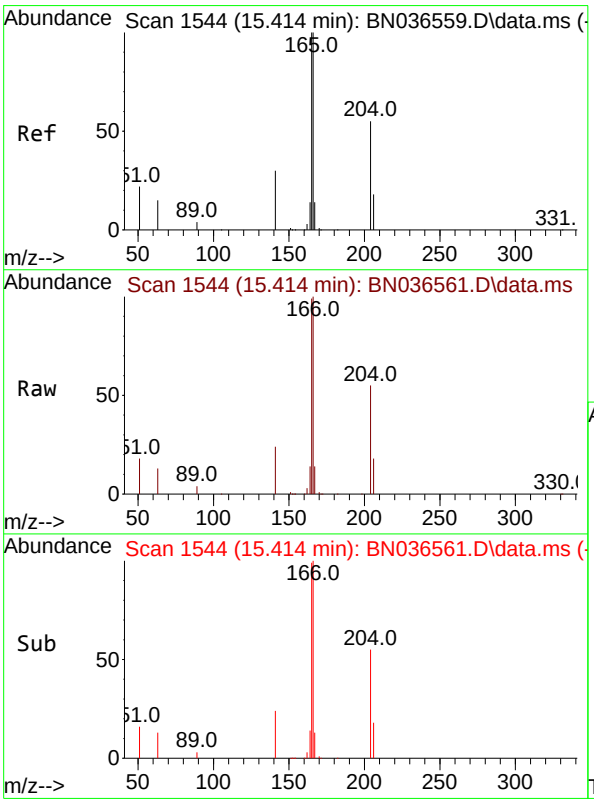
#17
Acenaphthene
Concen: 1.553 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 18355

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

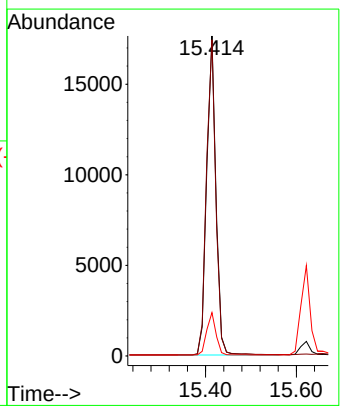


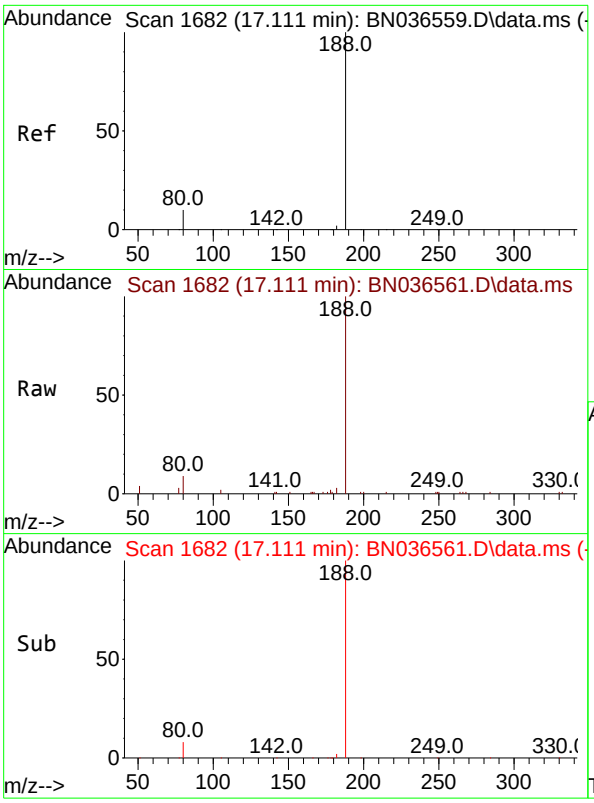


#18
Fluorene
Concen: 1.599 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:166 Resp: 25565

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



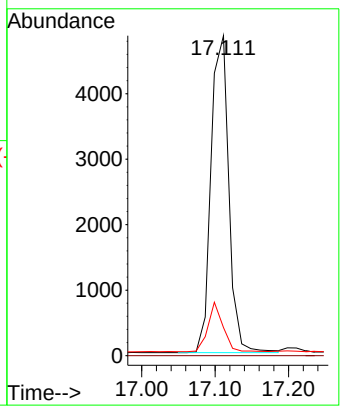


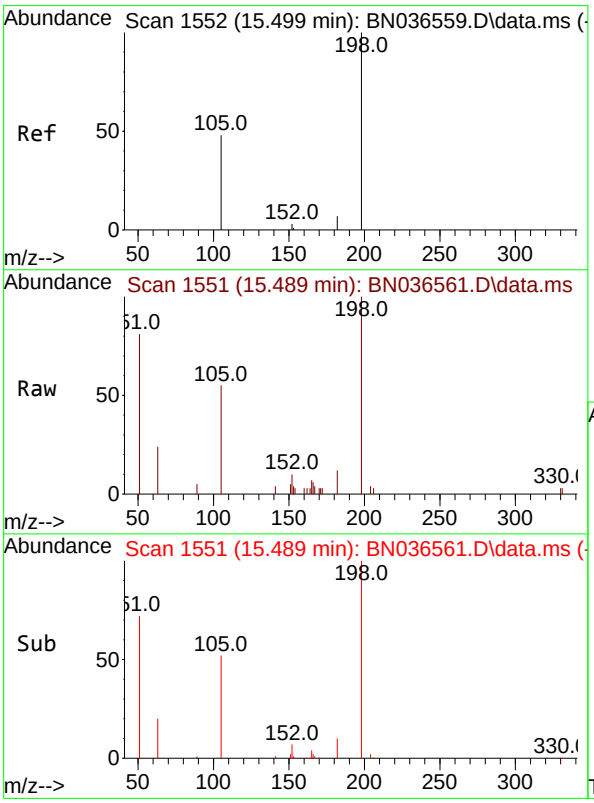
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 8149

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

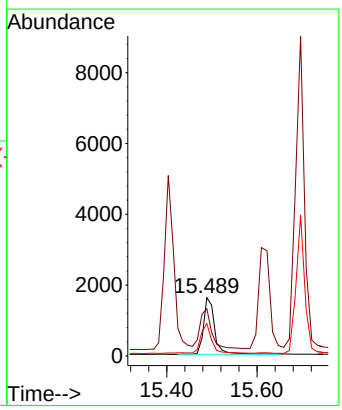


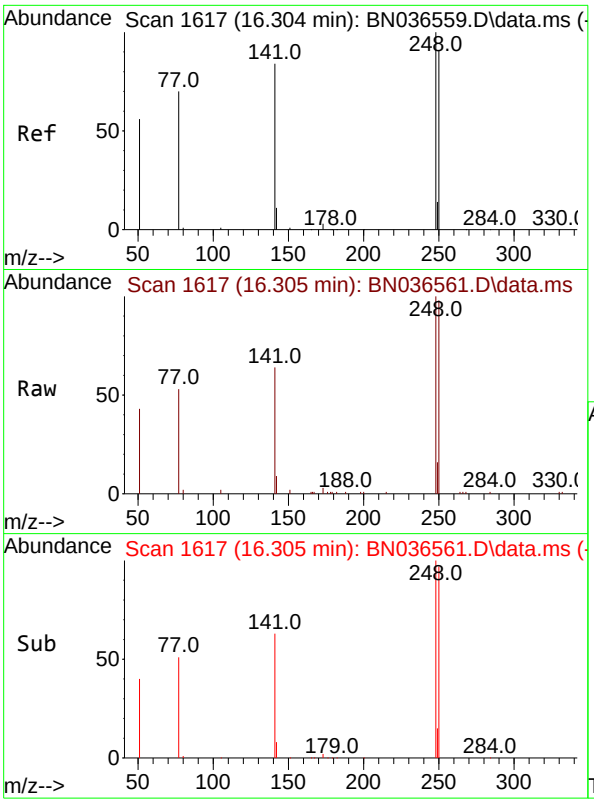


#20
4,6-Dinitro-2-methylphenol
Concen: 1.488 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:198 Resp: 2879

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



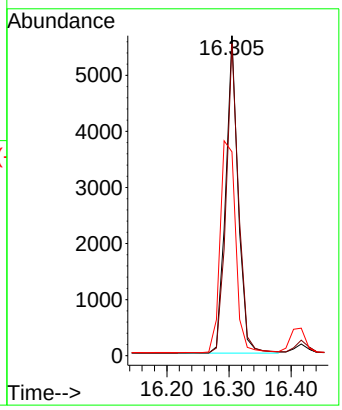


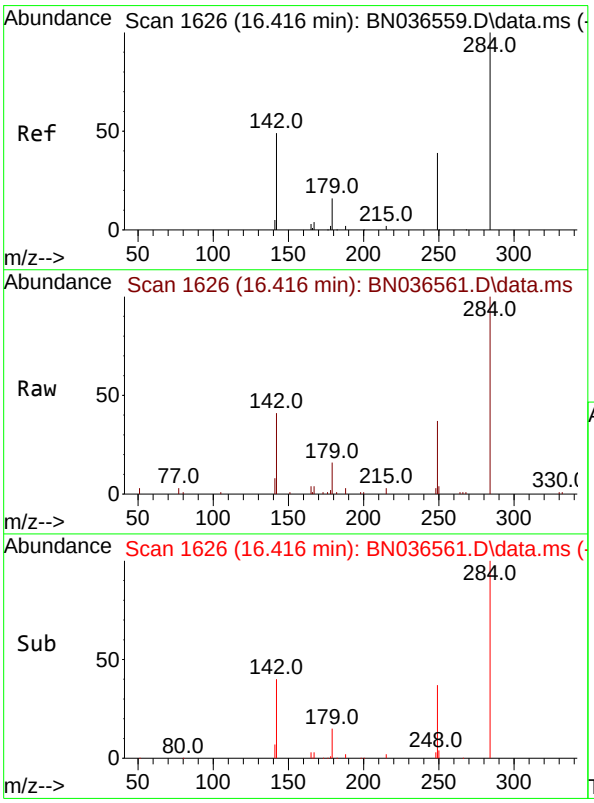
#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 7859

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

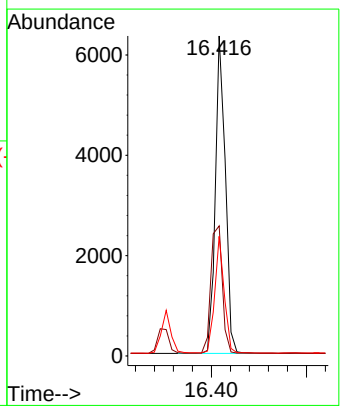


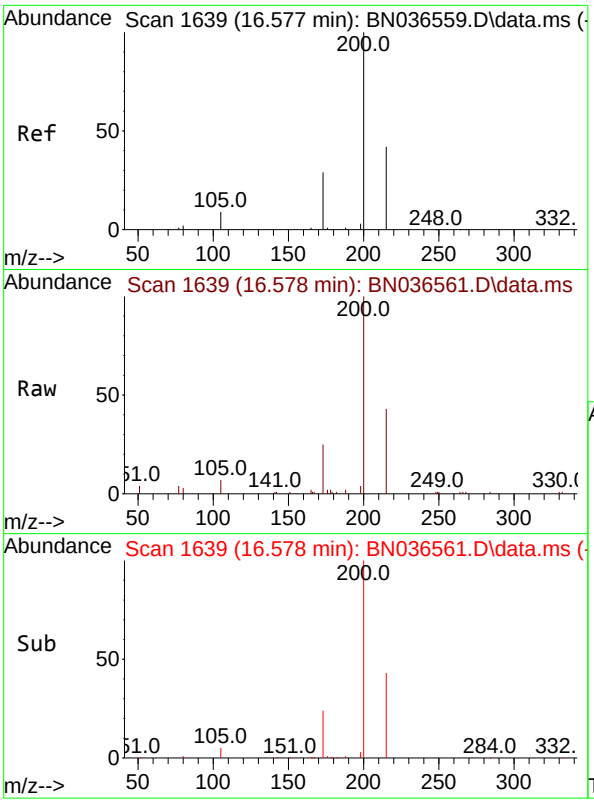


#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:284 Resp: 9216

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



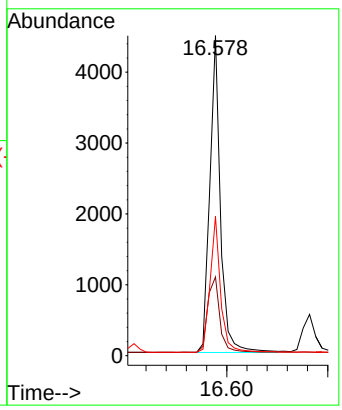


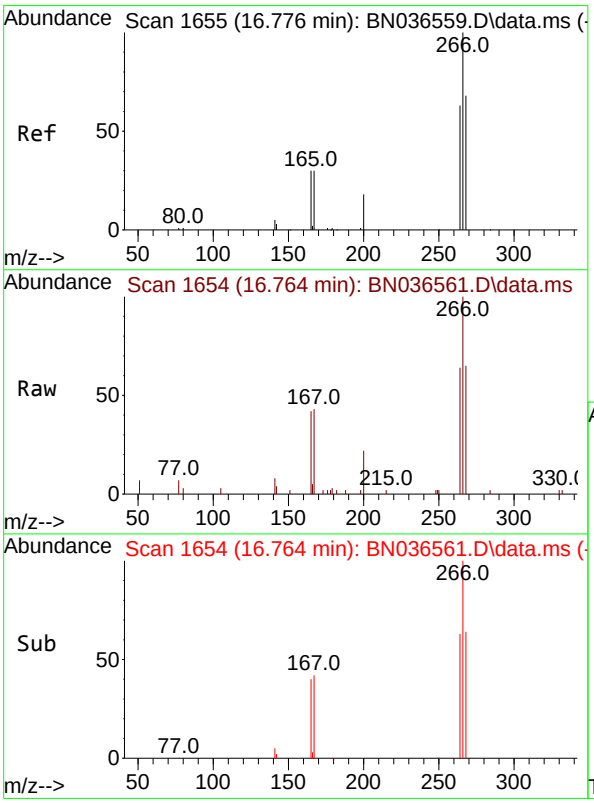
#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6530

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

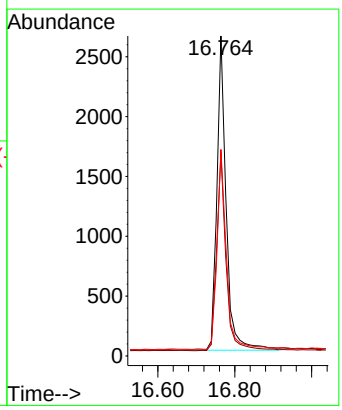


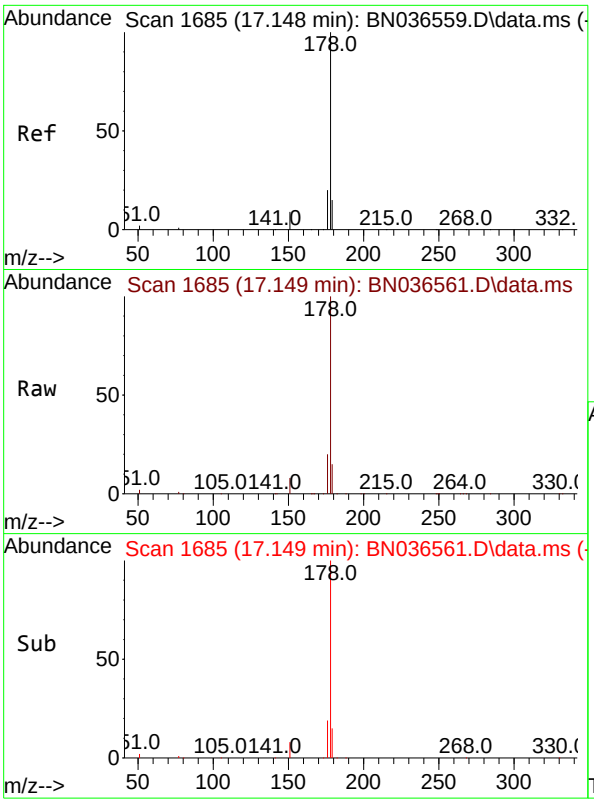


#24
Pentachlorophenol
Concen: 1.563 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:266 Resp: 4395

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



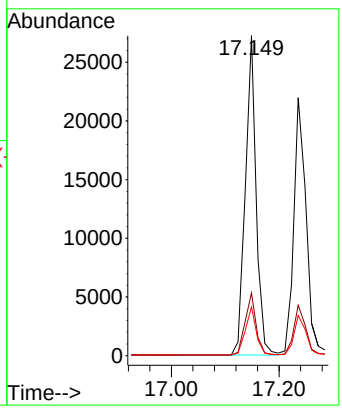


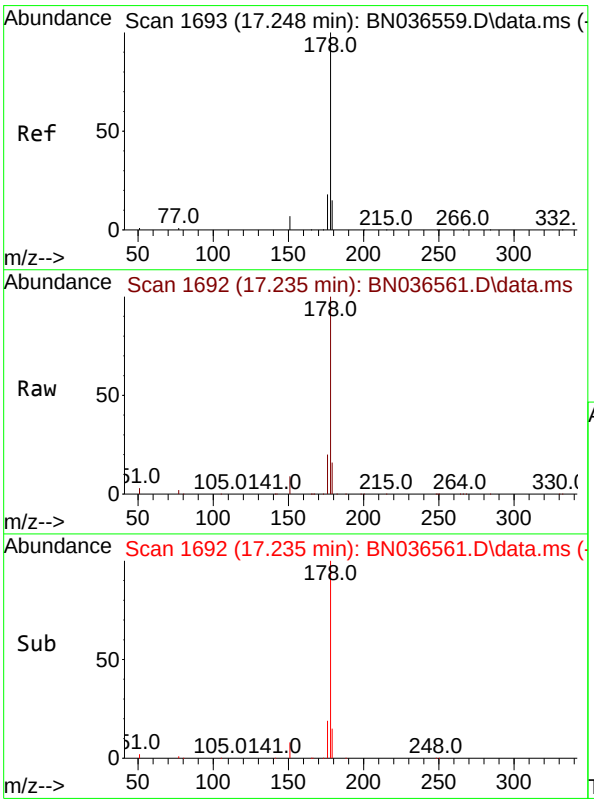
#25
Phenanthrene
Concen: 1.554 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 37989

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

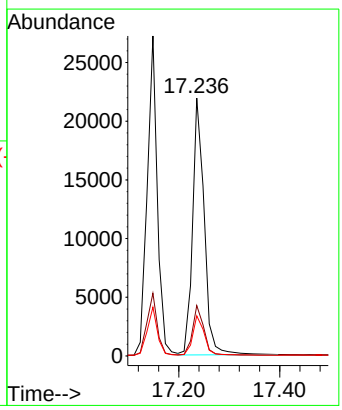


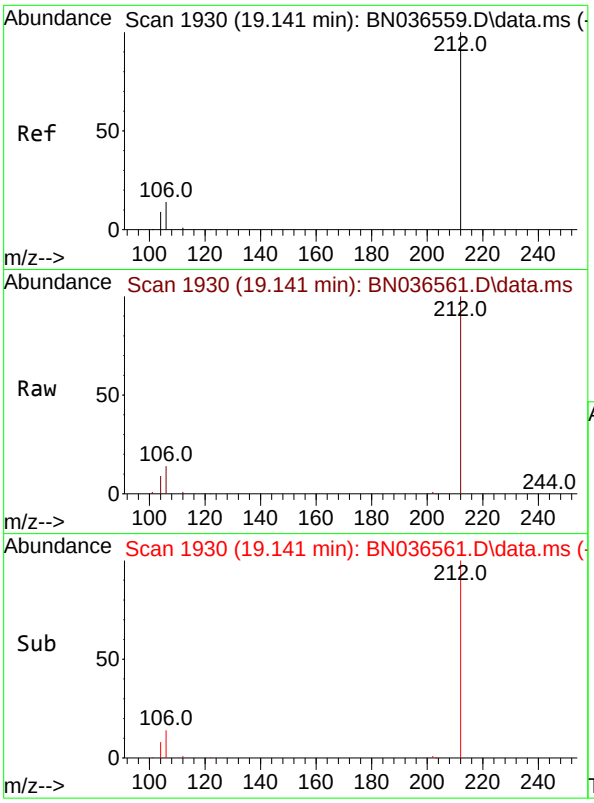


#26
Anthracene
Concen: 1.589 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:178 Resp: 35054

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



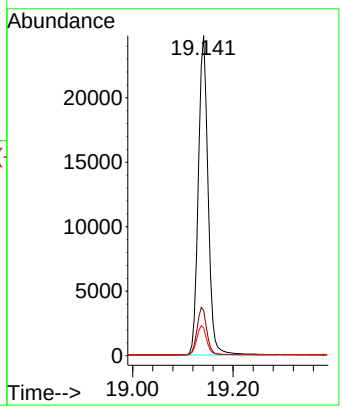


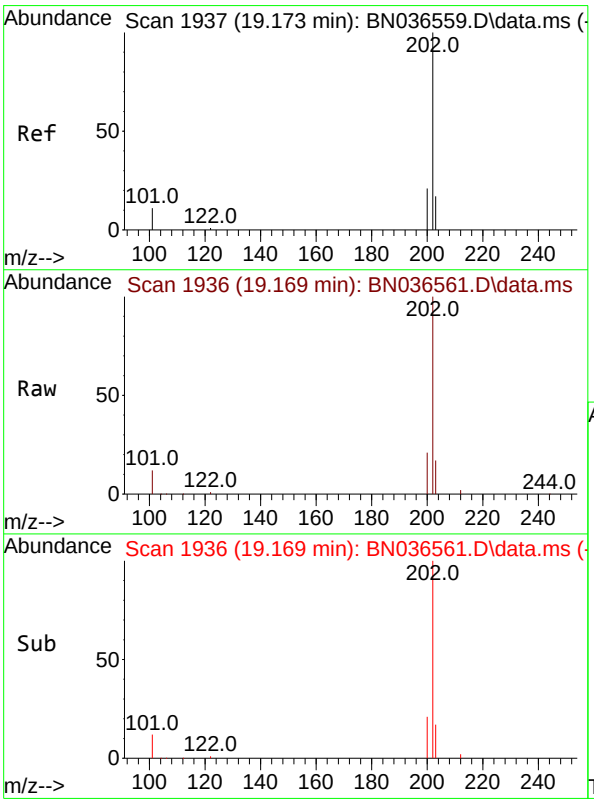
#27
Fluoranthene-d10
Concen: 1.600 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 33414

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

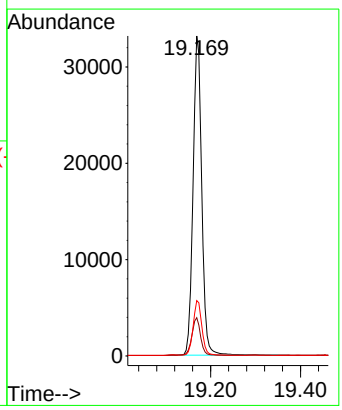


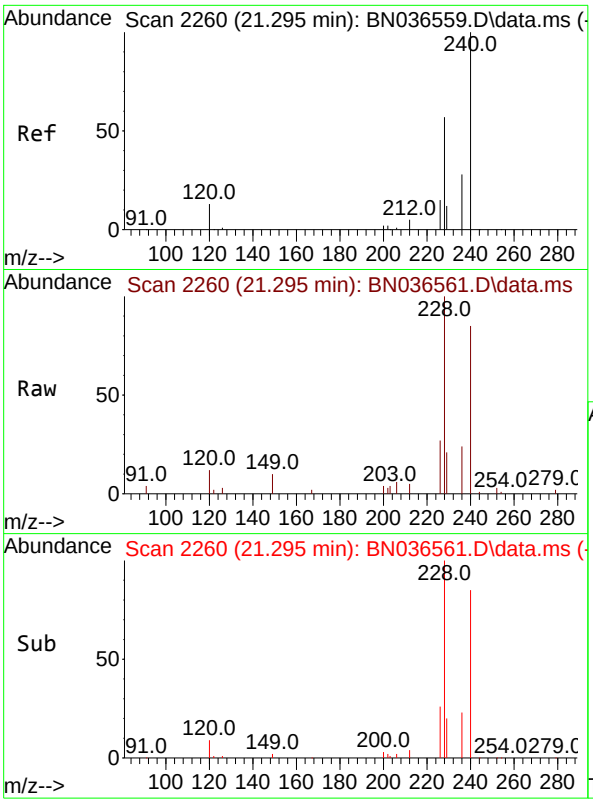


#28
Fluoranthene
Concen: 1.619 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:202 Resp: 44451

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



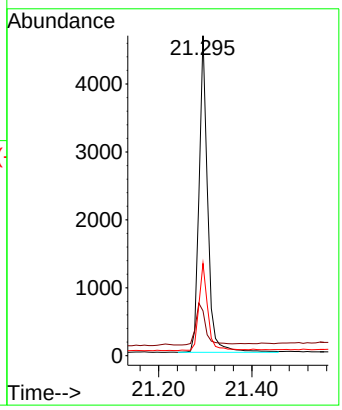


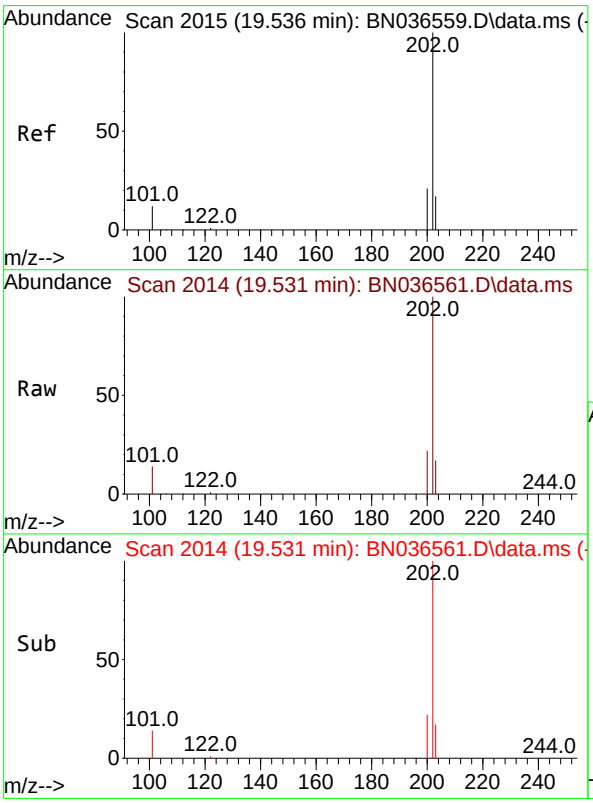
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 5977

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

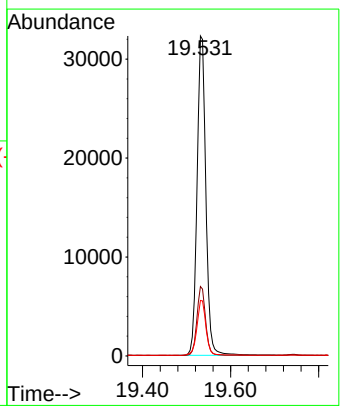


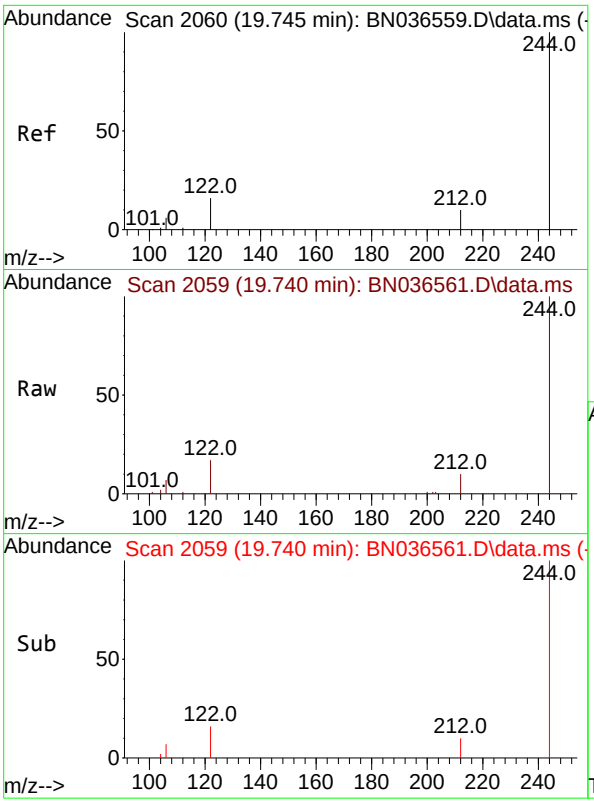


#30
Pyrene
Concen: 1.530 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:202 Resp: 44705

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



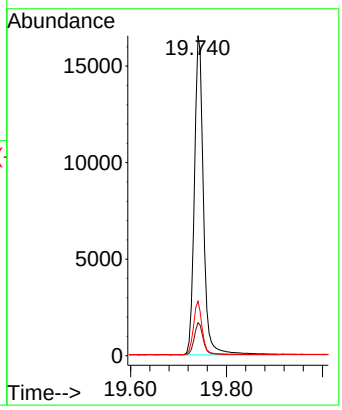


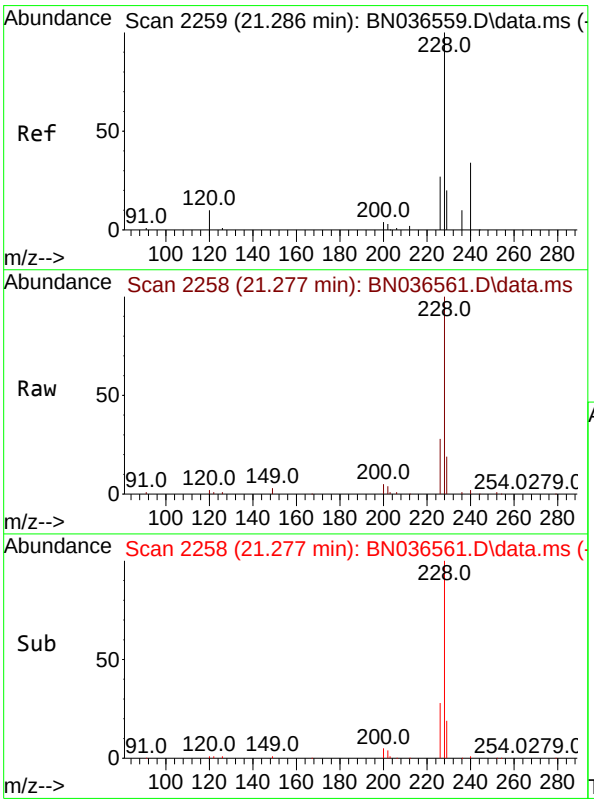
#31
Terphenyl-d14
Concen: 1.527 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 21872

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

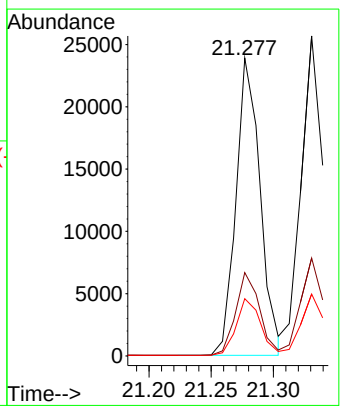


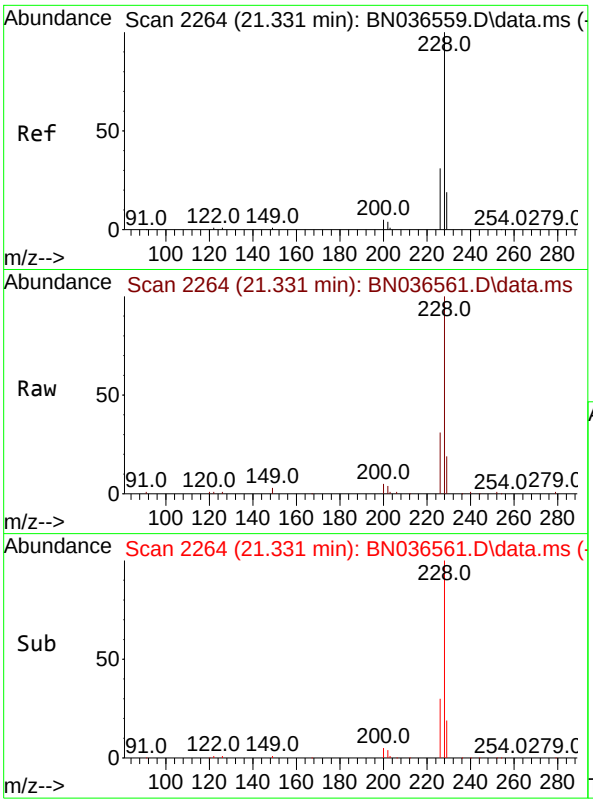


#32
Benzo(a)anthracene
Concen: 1.550 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:228 Resp: 32205

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



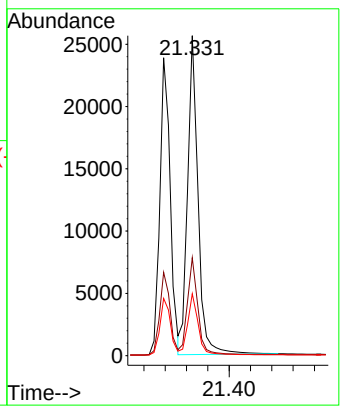


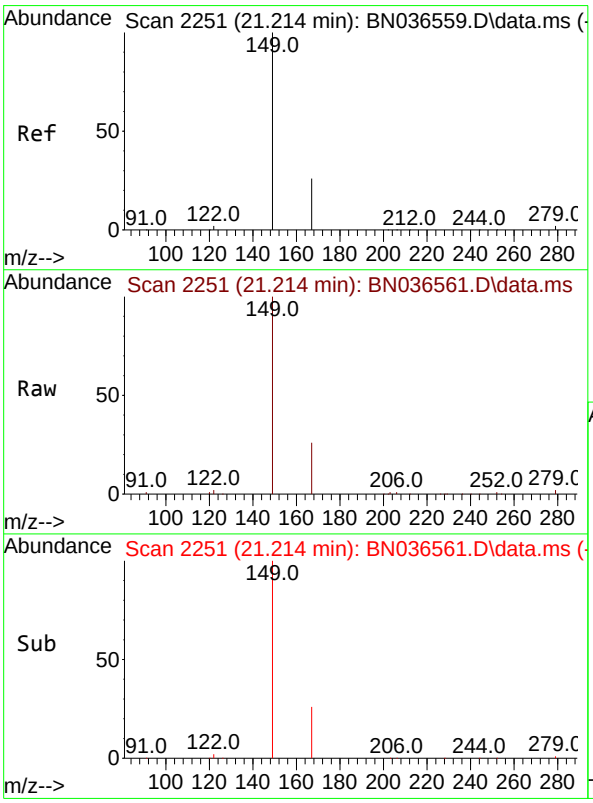
#33
Chrysene
Concen: 1.539 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 34953

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

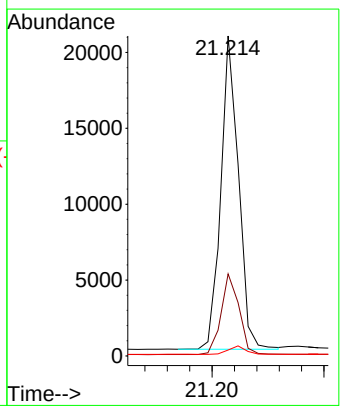


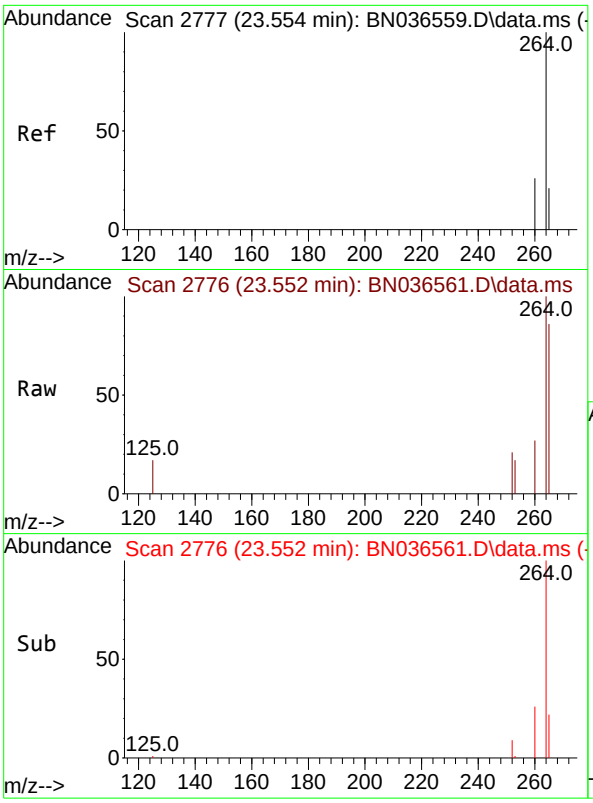


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.529 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:149 Resp: 22621

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



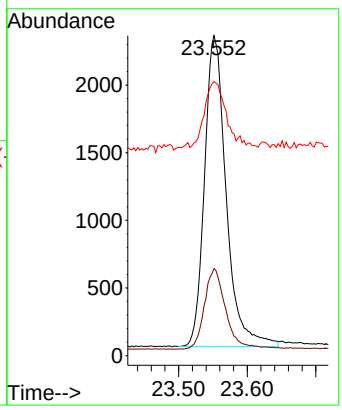


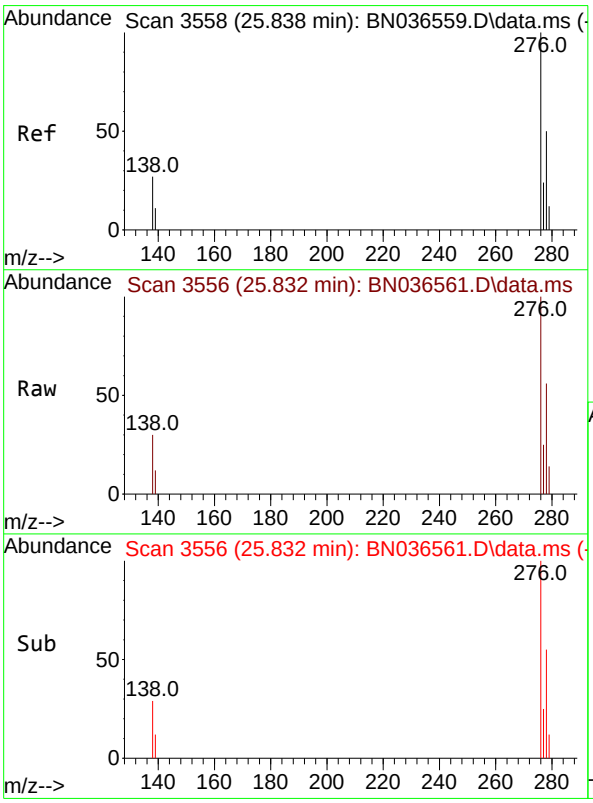
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 5048

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

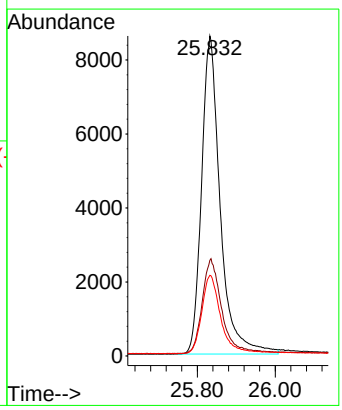


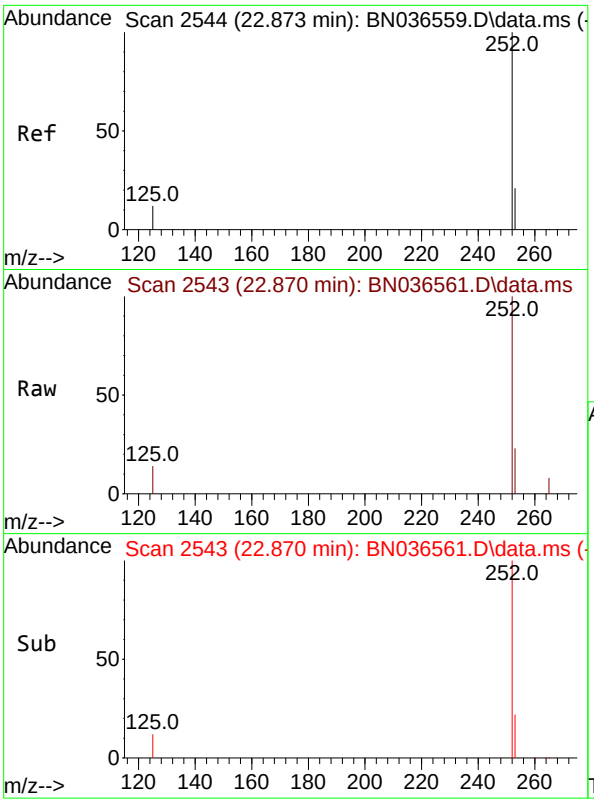


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.570 ng
RT: 25.832 min Scan# 3556
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:276 Resp: 28605

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



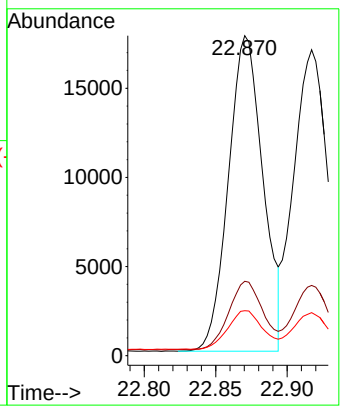


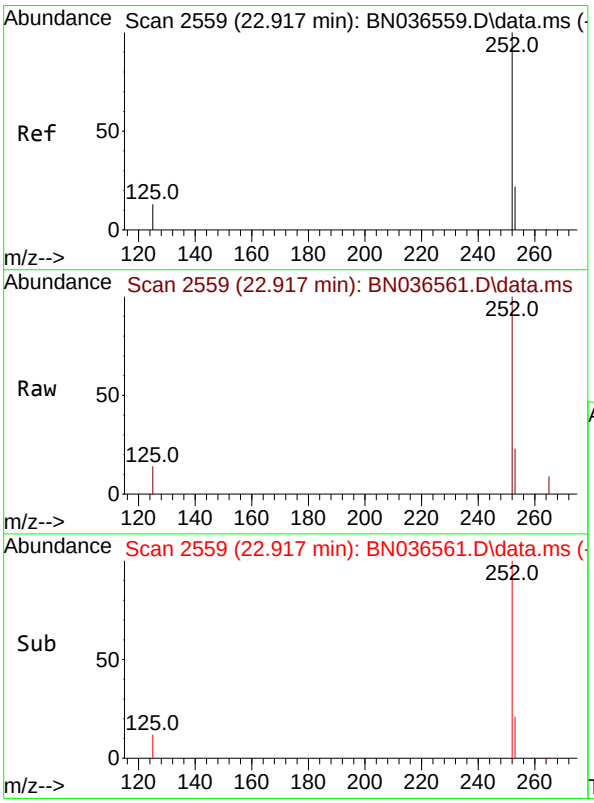
#37
Benzo(b)fluoranthene
Concen: 1.623 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 29819

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

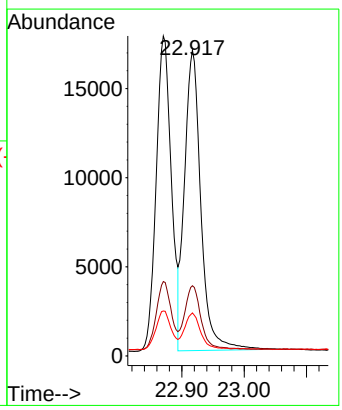


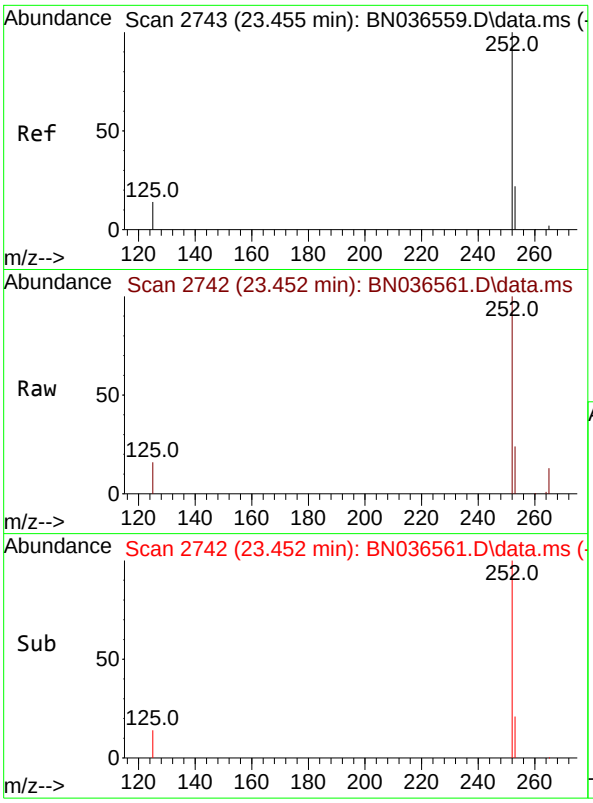


#38
Benzo(k)fluoranthene
Concen: 1.593 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:252 Resp: 30710

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



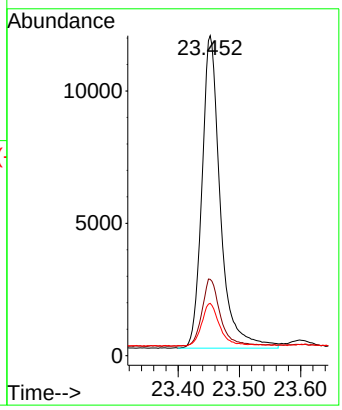


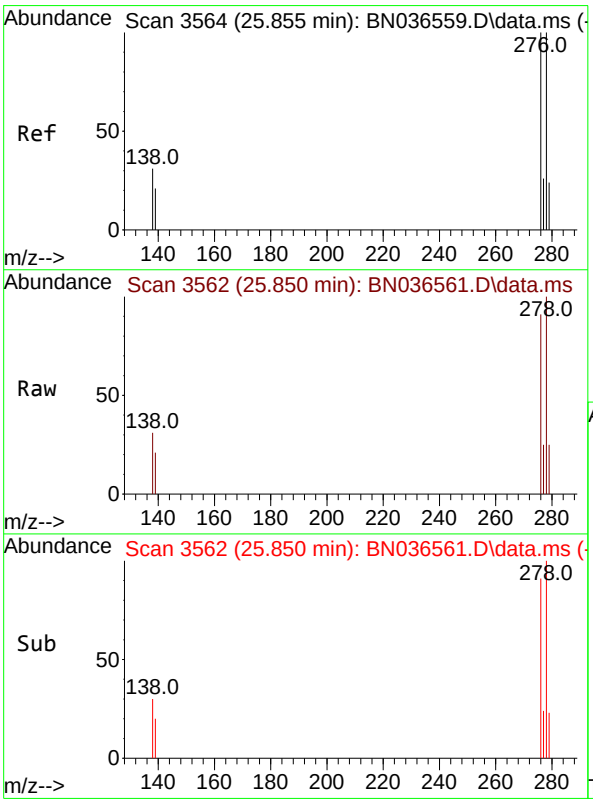
#39
Benzo(a)pyrene
Concen: 1.596 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 24696

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

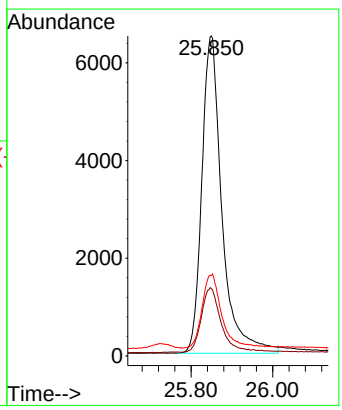


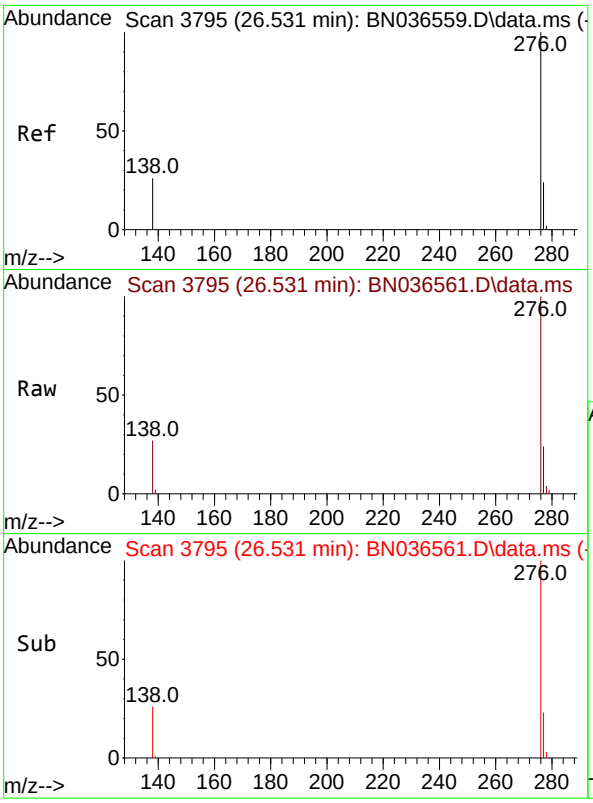


#40
Dibenzo(a,h)anthracene
Concen: 1.569 ng
RT: 25.850 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:278 Resp: 22248

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



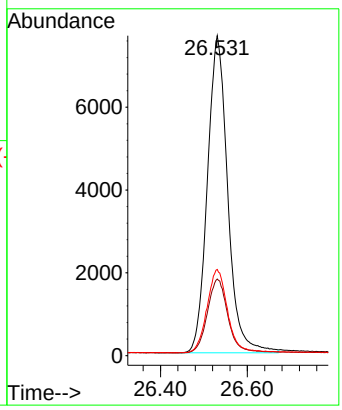


#41
Benzo(g,h,i)perylene
Concen: 1.535 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 24906

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



Quantitation Report (QT Reviewed)

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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

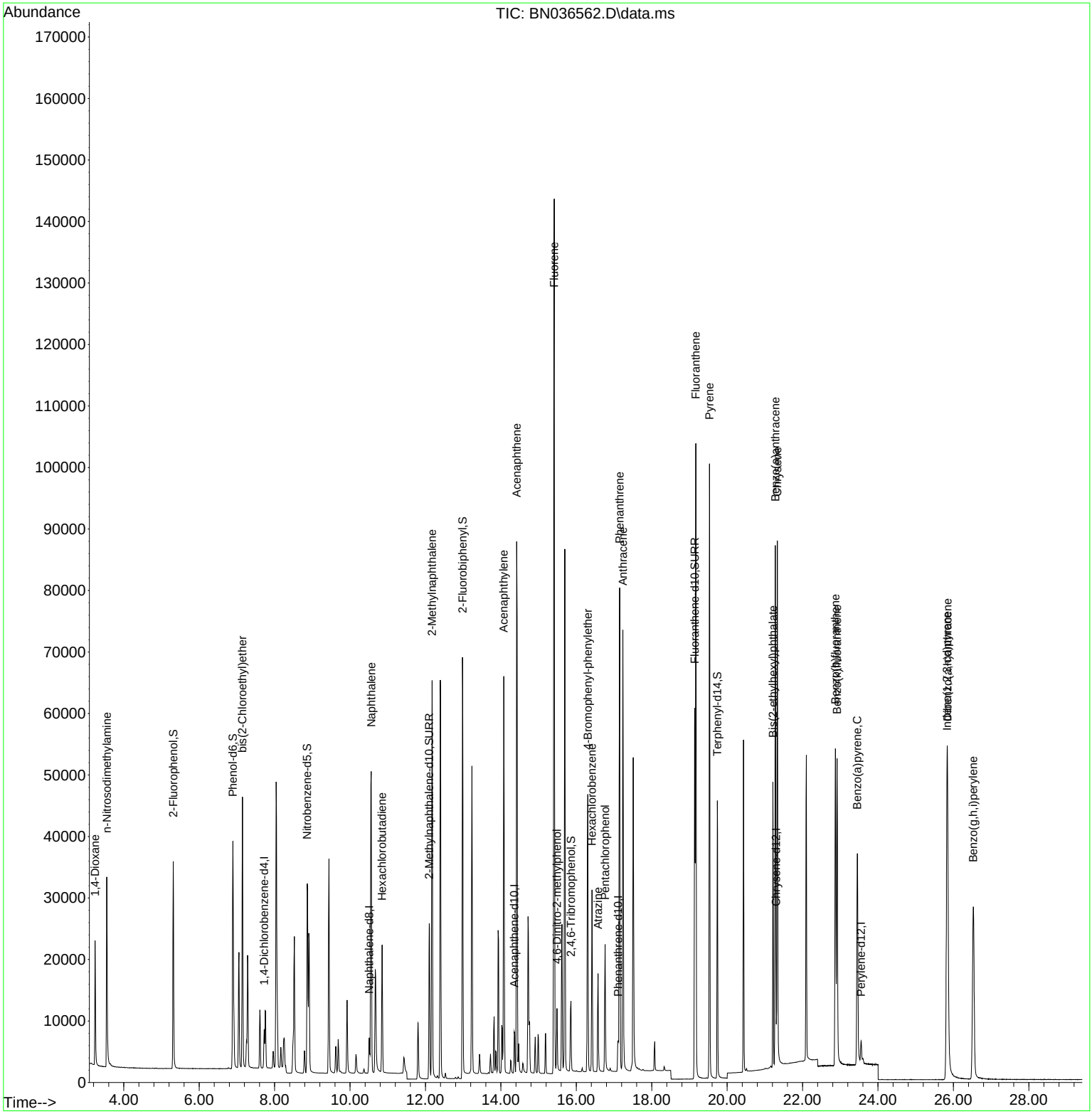
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng		0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng		-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng		0.00
29) Chrysene-d12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

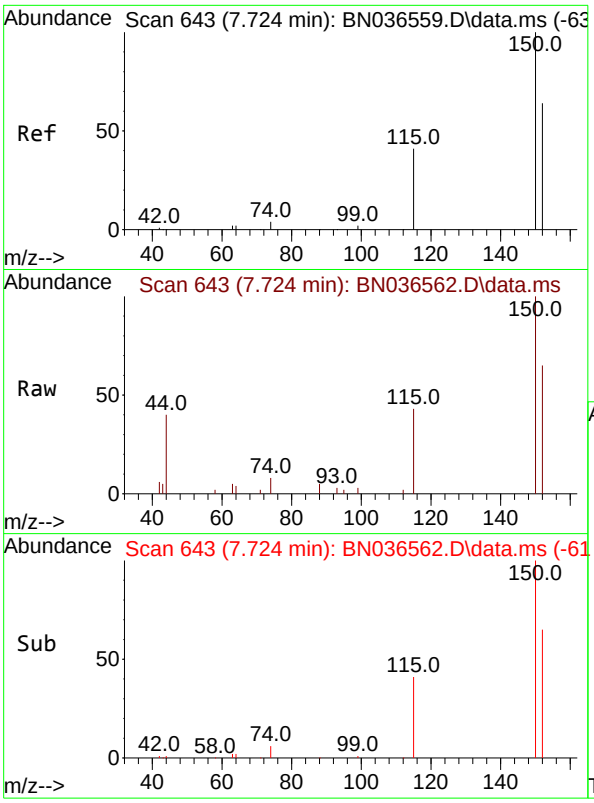
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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



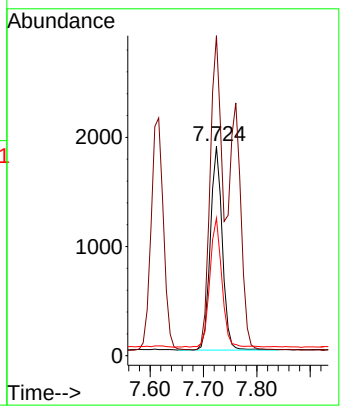


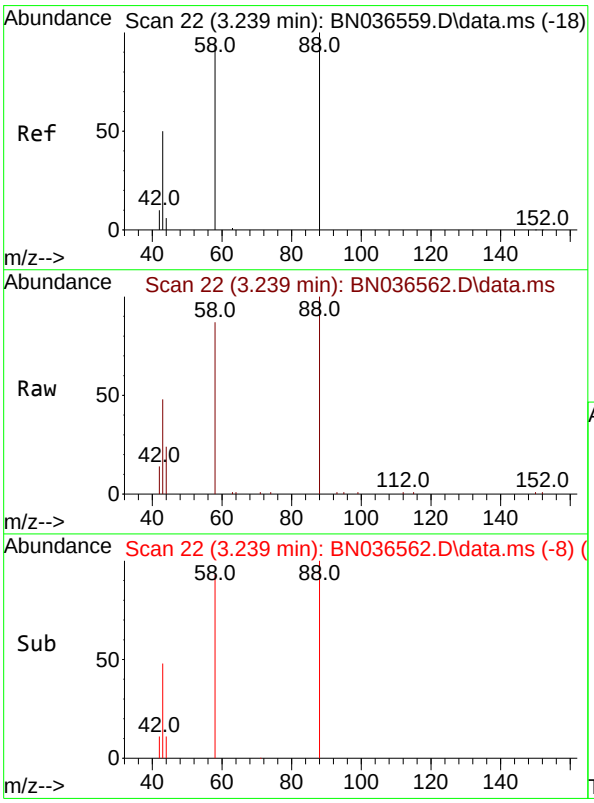
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2890

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

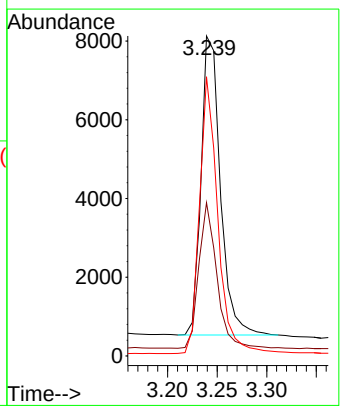


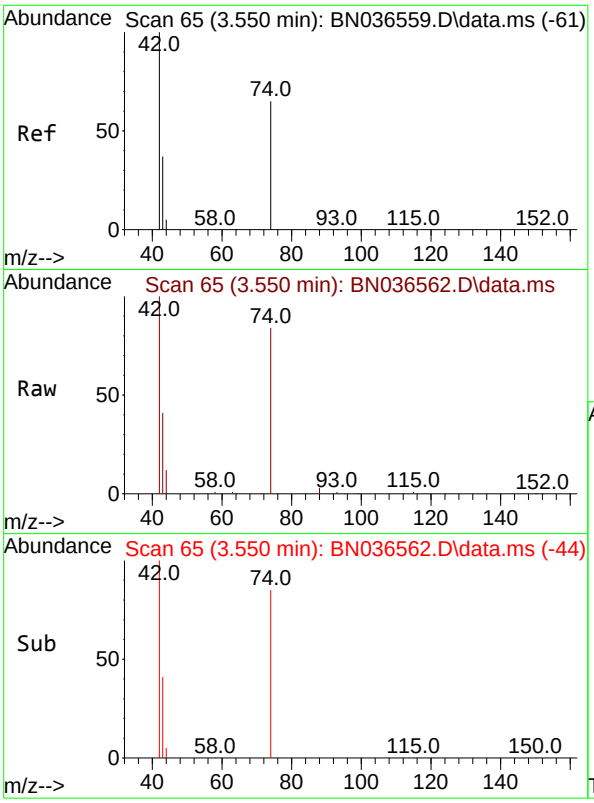


#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 88 Resp: 10288

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



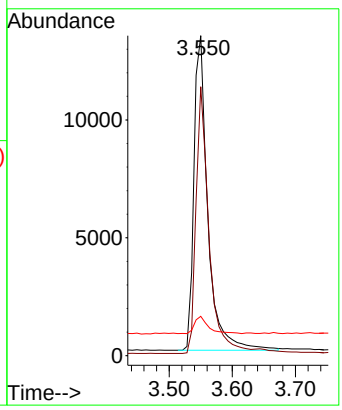


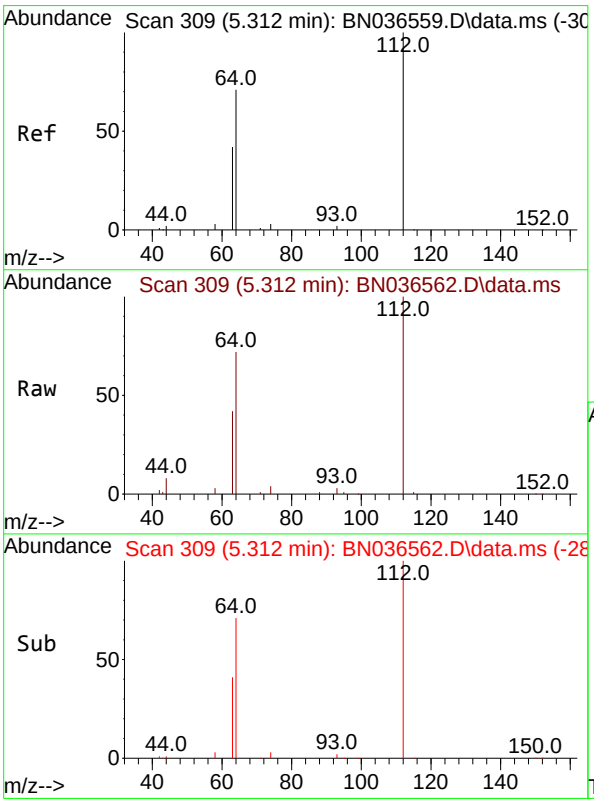
#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 20412

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

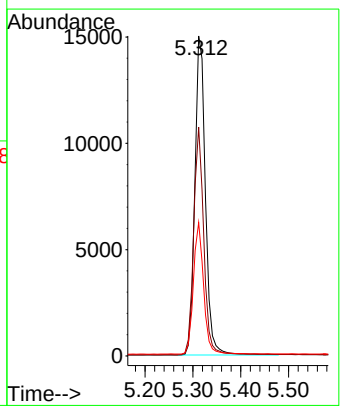


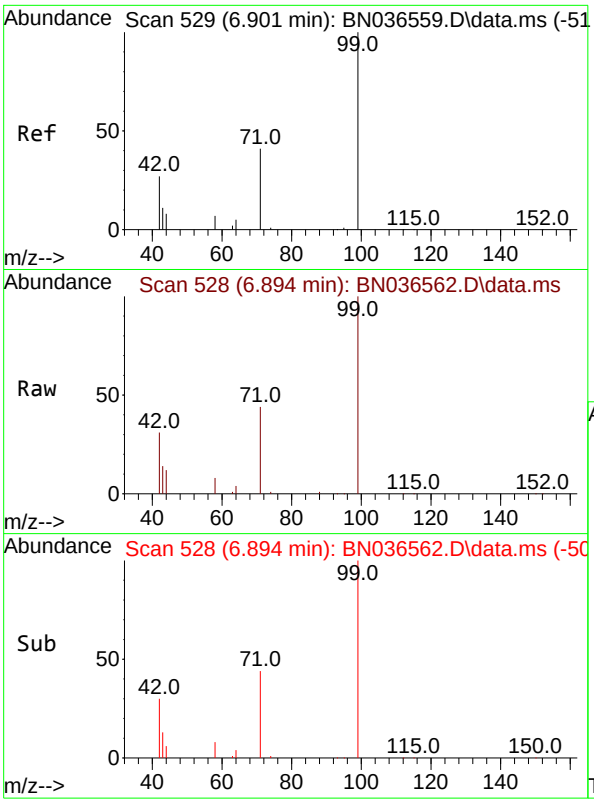


#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:112 Resp: 23032

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



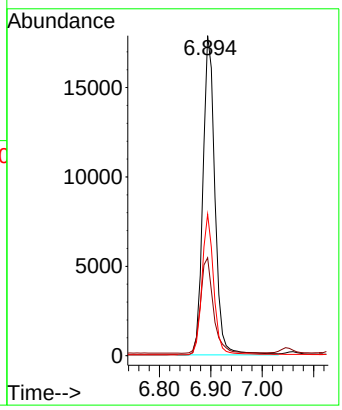


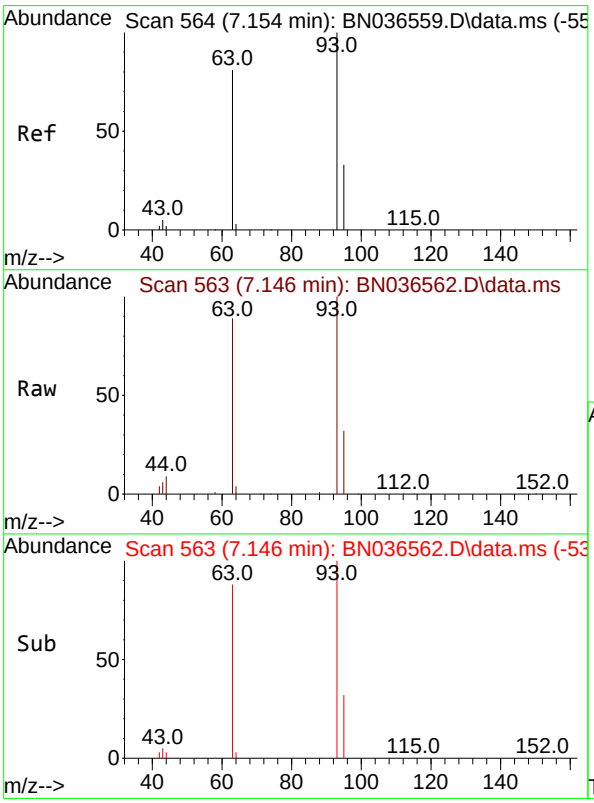
#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 28996

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

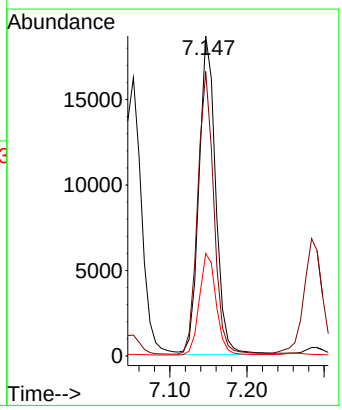


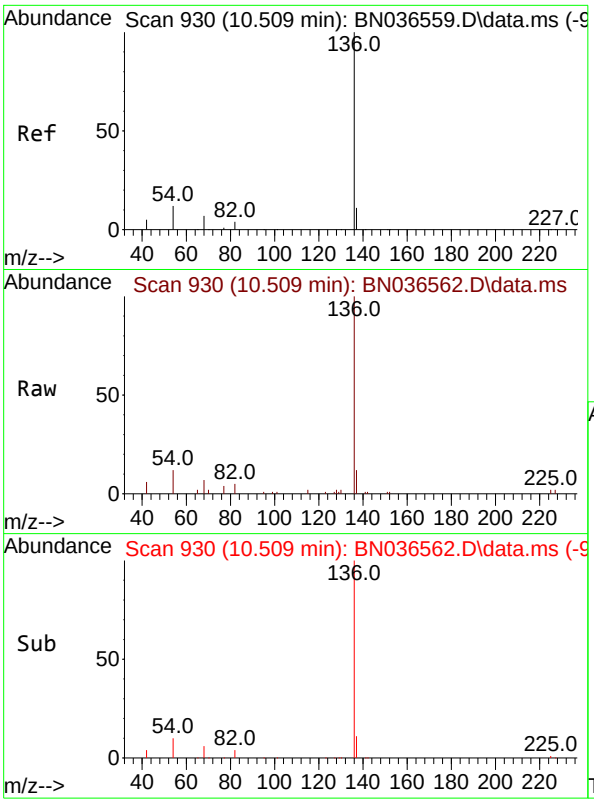


#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 93 Resp: 27978

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



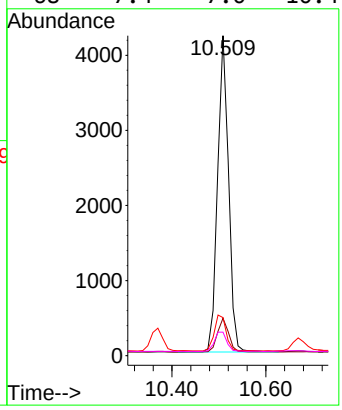


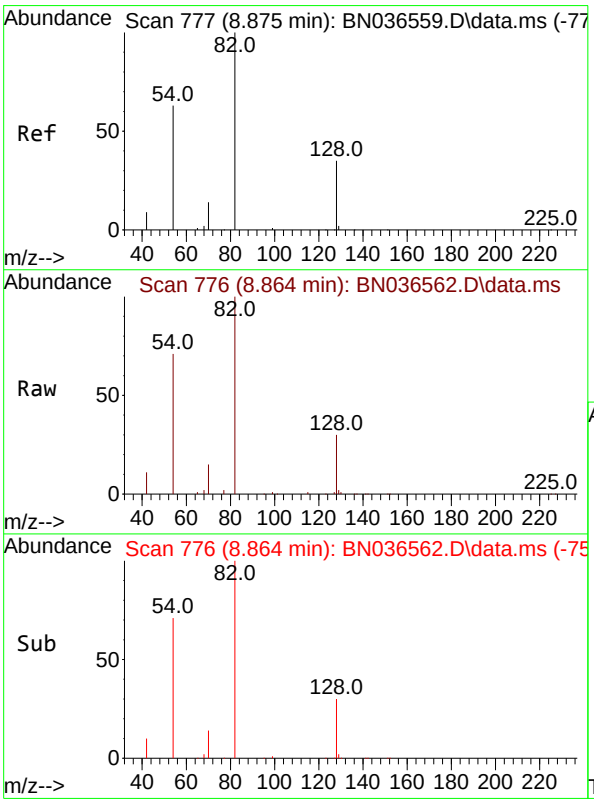
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 6824

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

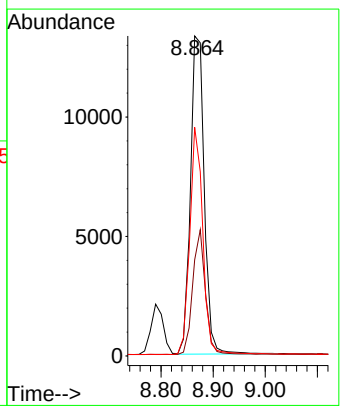


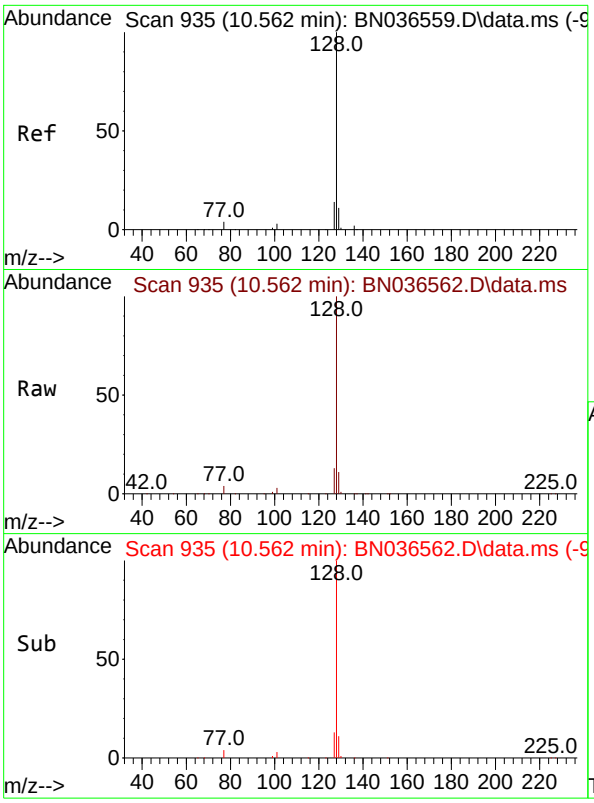


#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 82 Resp: 24586

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



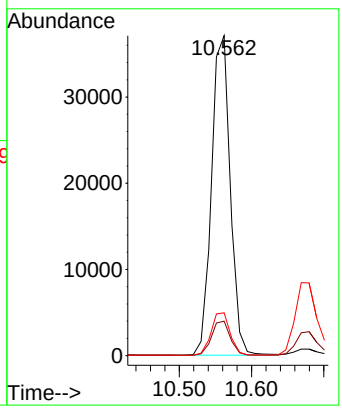


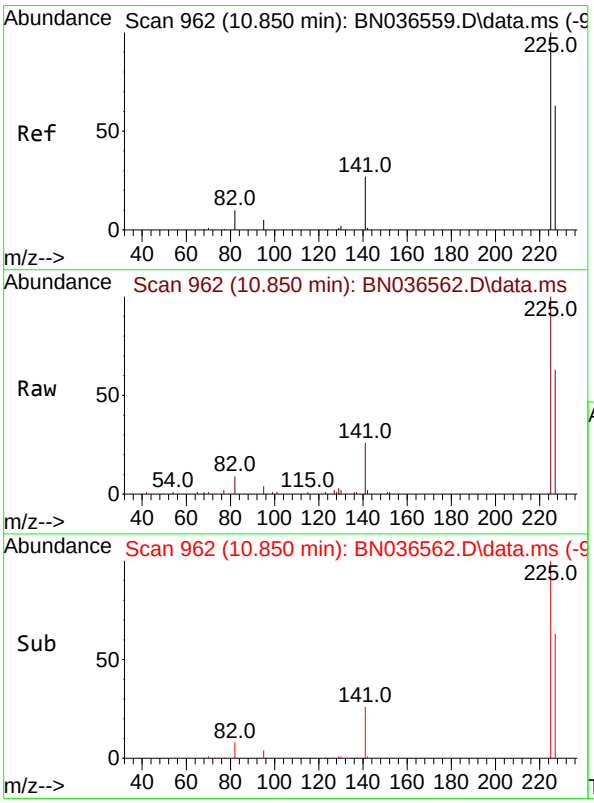
#9
Naphthalene
Concen: 3.323 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 66694

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

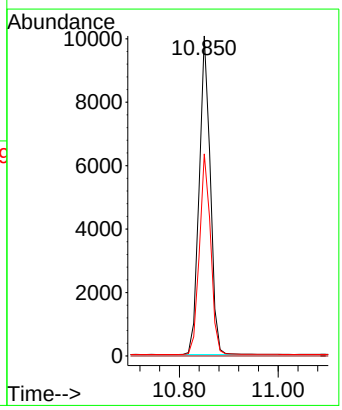


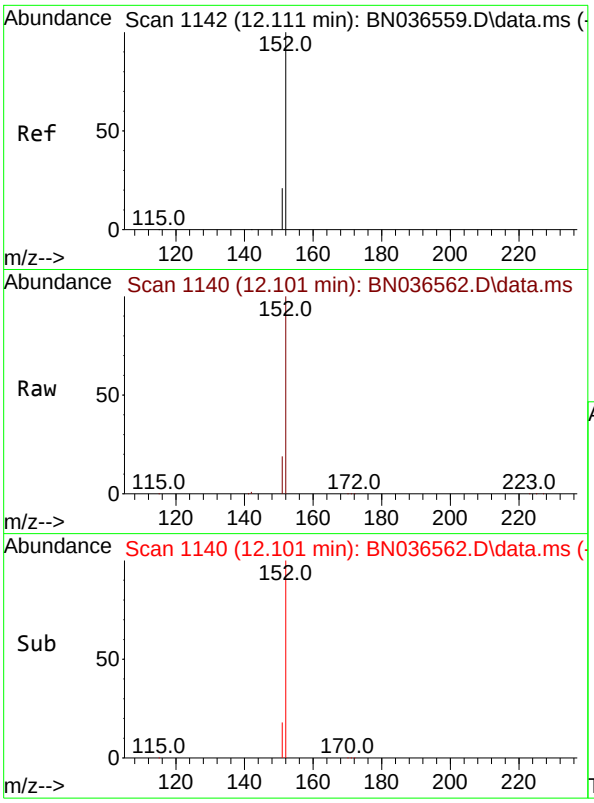


#10
Hexachlorobutadiene
Concen: 3.305 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:225 Resp: 15618

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



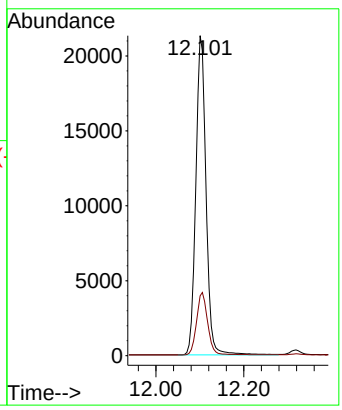


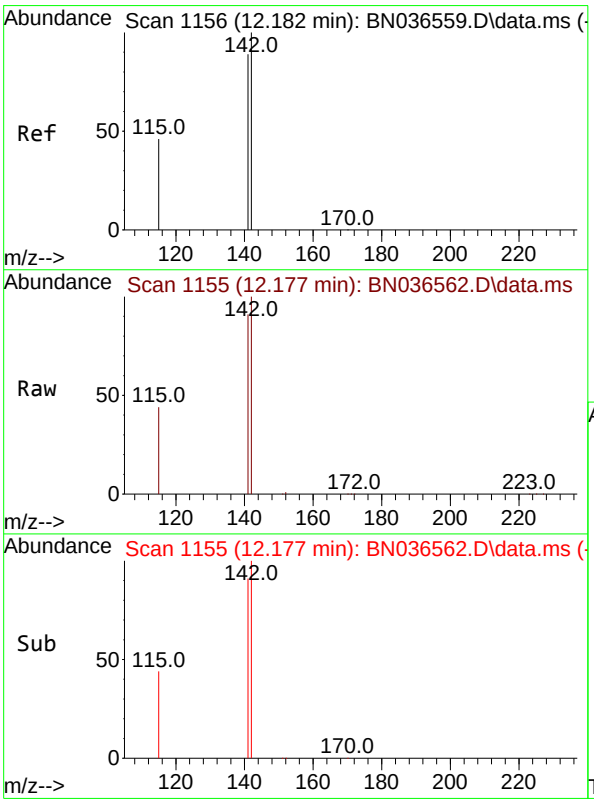
#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 34578

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

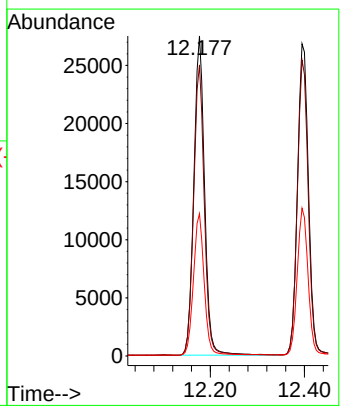


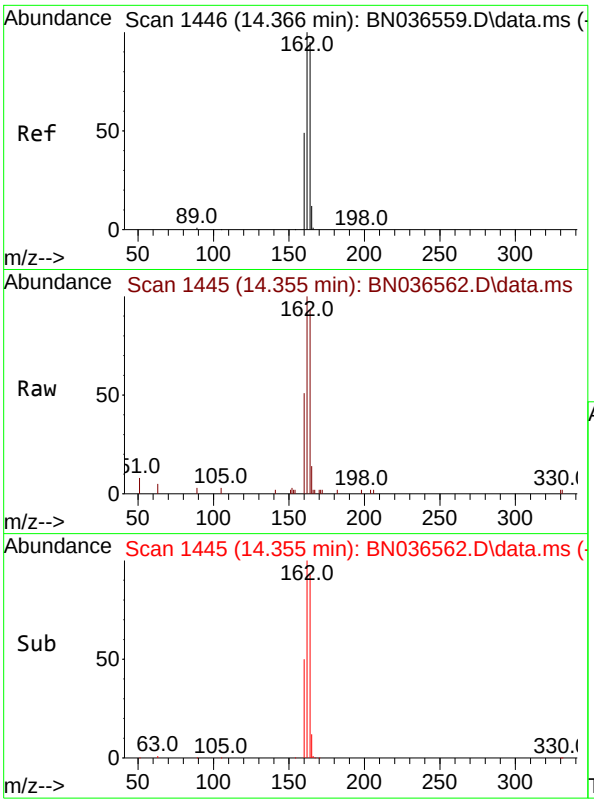


#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:142 Resp: 43768

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



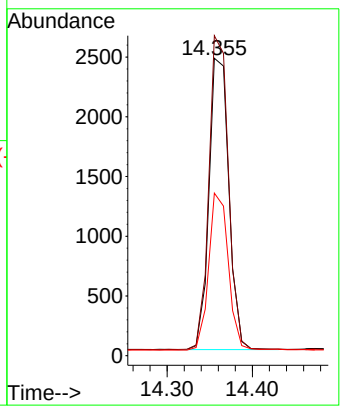


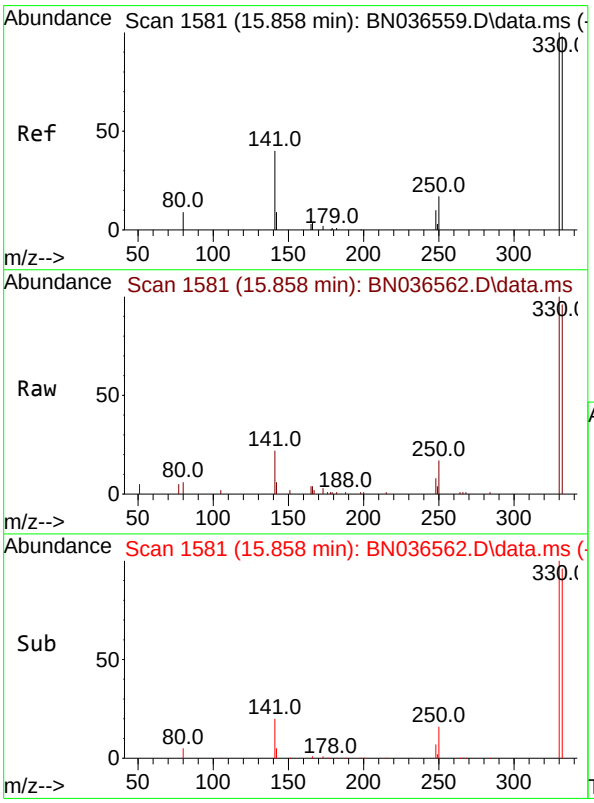
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 3957

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

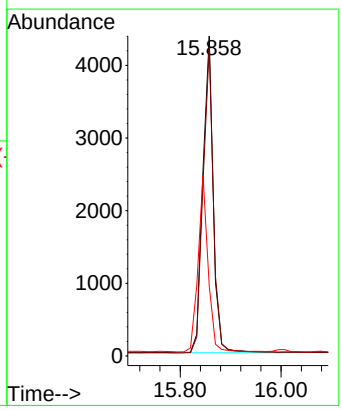


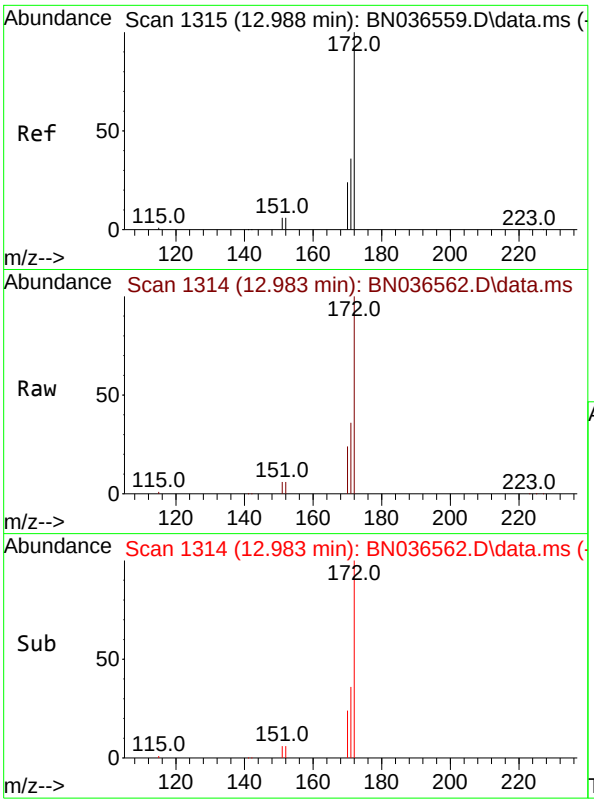


#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:330 Resp: 6252

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



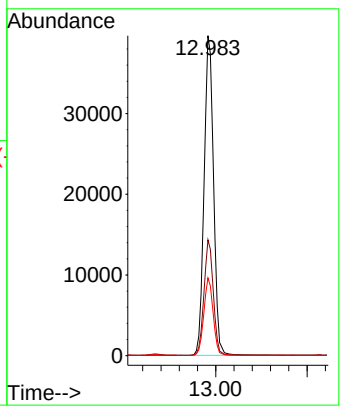


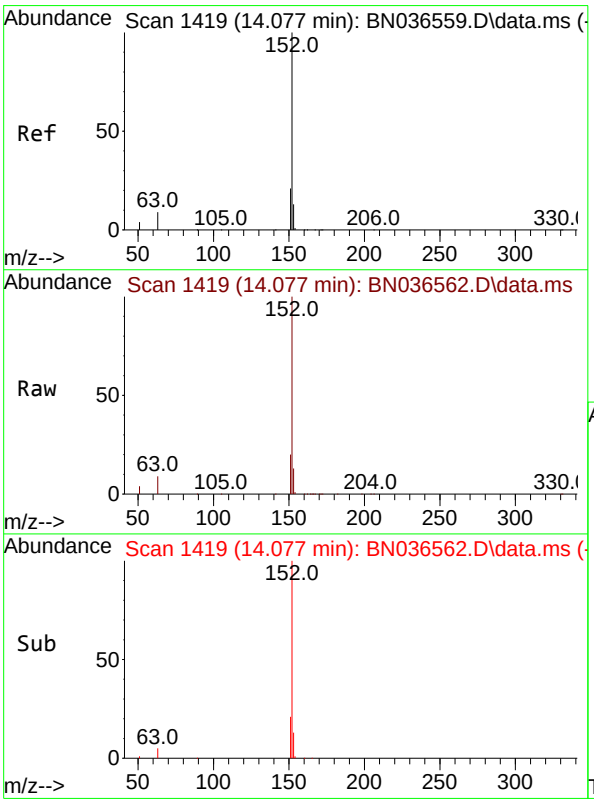
#15
2-Fluorobiphenyl
Concen: 3.529 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 81236

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

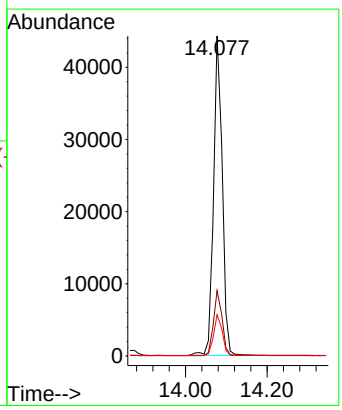


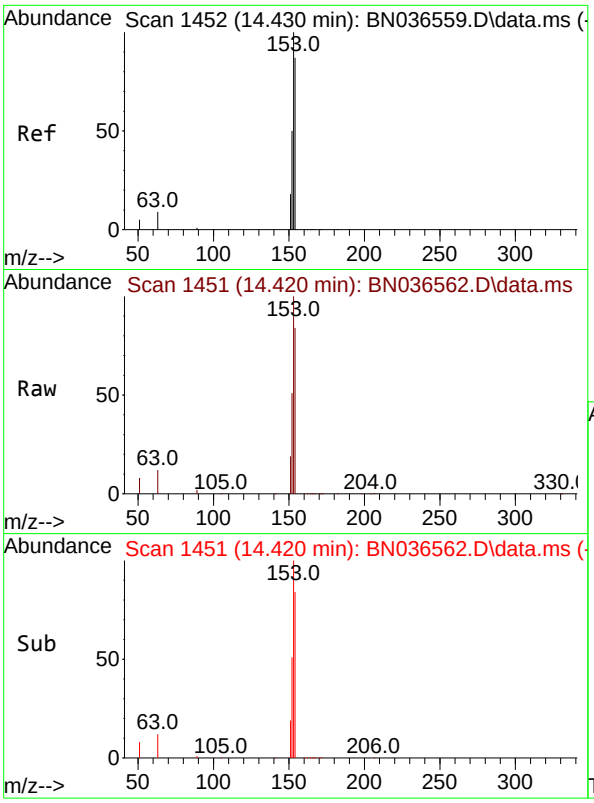


#16
Acenaphthylene
Concen: 3.516 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:152 Resp: 65654

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



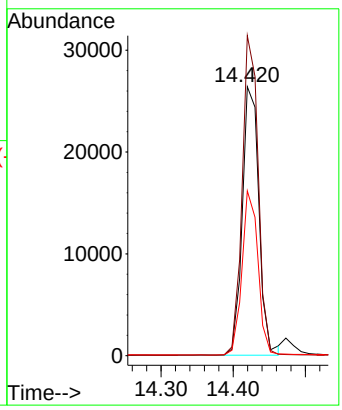


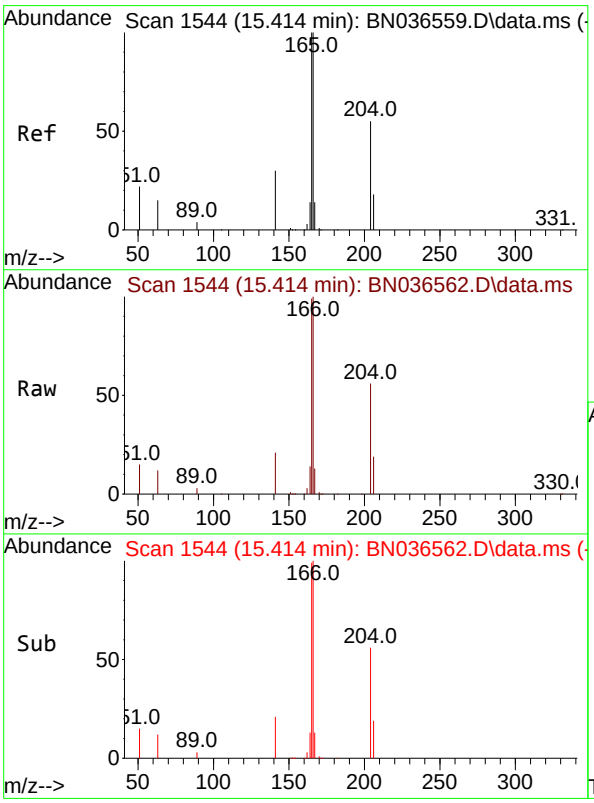
#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 42378

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

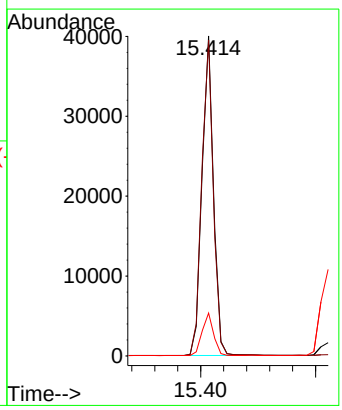


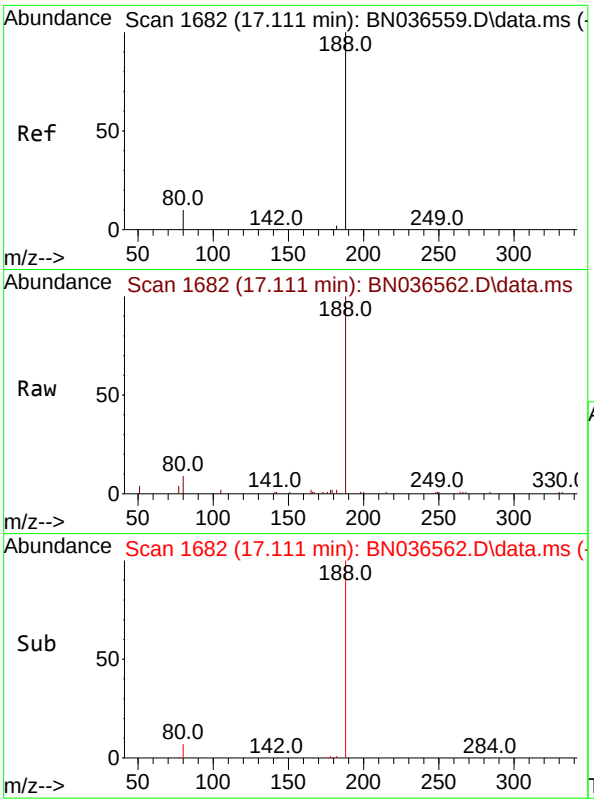


#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:166 Resp: 56295

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



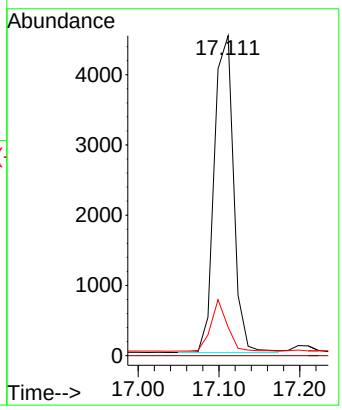


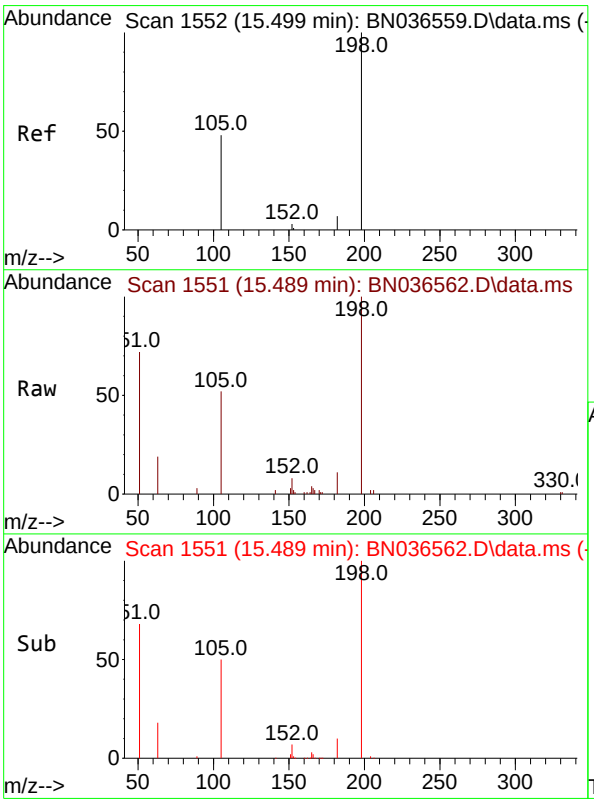
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 7488

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

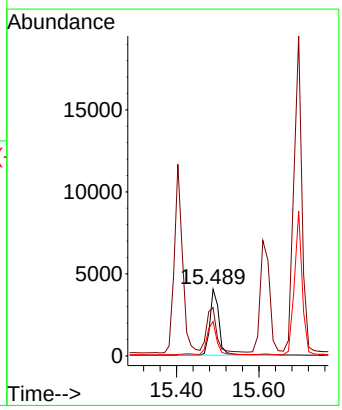


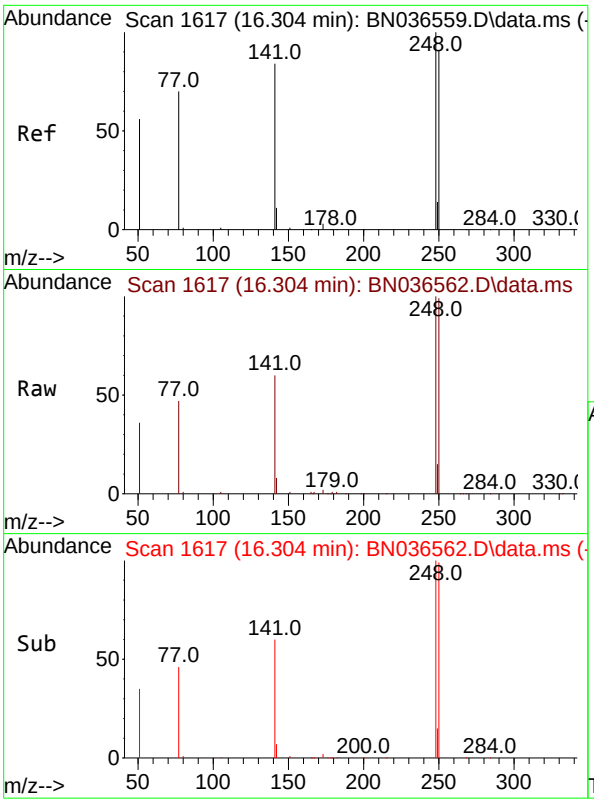


#20
4,6-Dinitro-2-methylphenol
Concen: 3.315 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:198 Resp: 6567

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



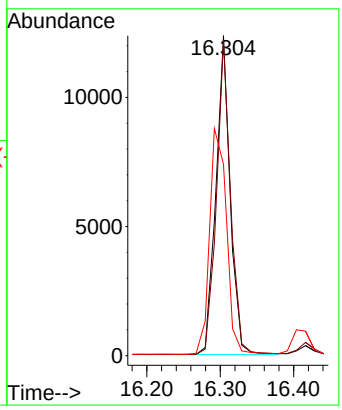


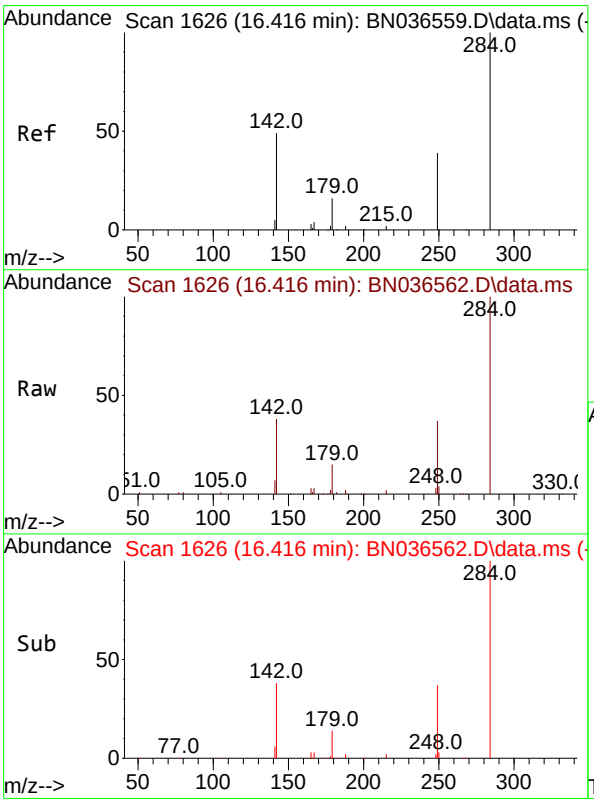
#21
4-Bromophenyl-phenylether
Concen: 3.549 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 16652

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

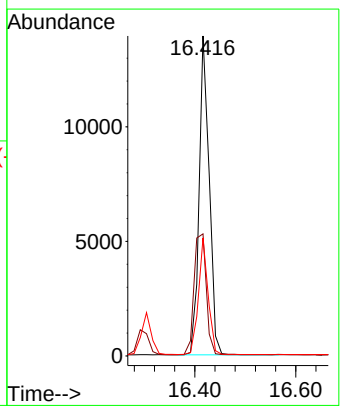


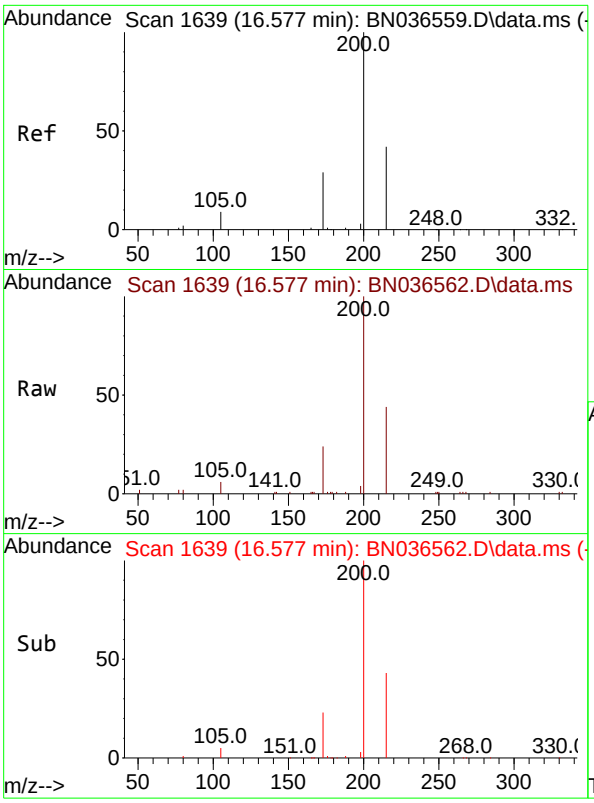


#22
Hexachlorobenzene
Concen: 3.406 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:284 Resp: 19287

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



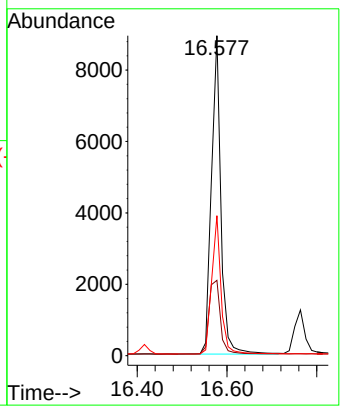


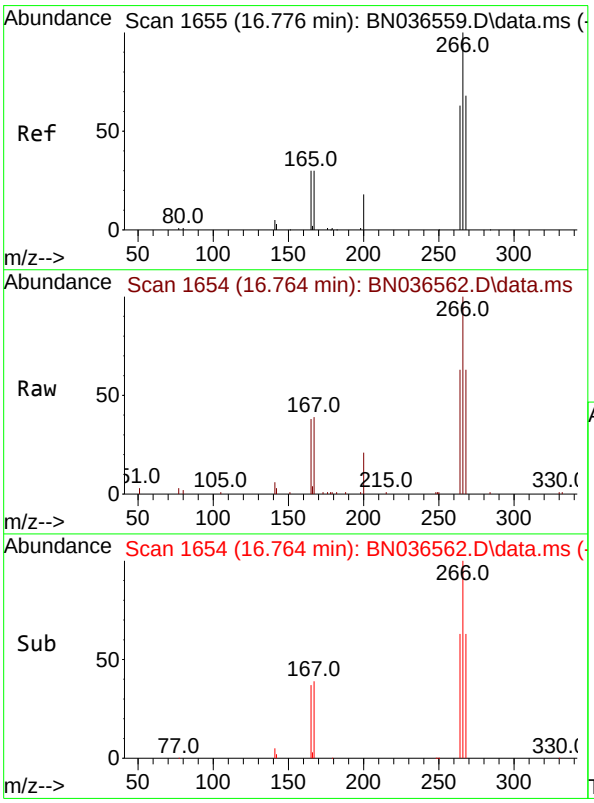
#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 12969

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

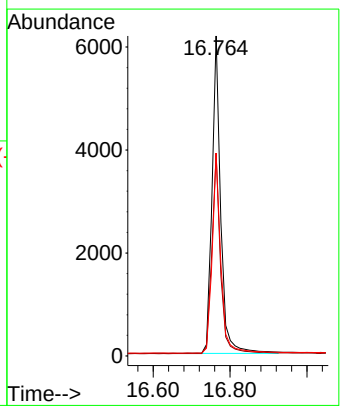


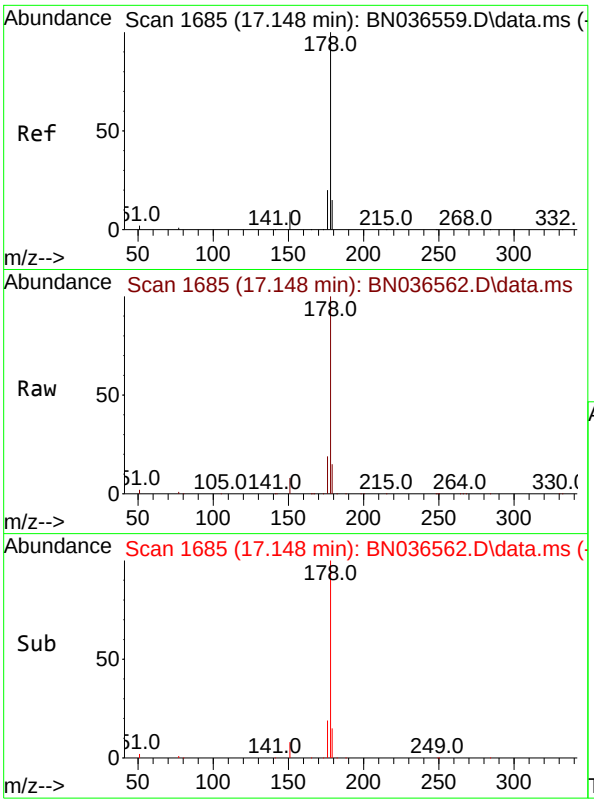


#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:266 Resp: 9625

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



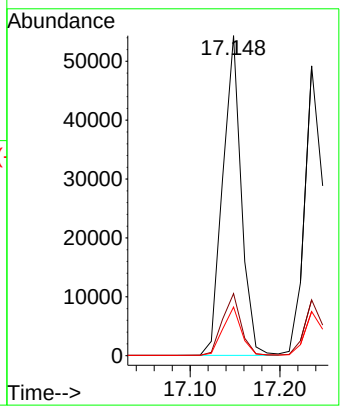


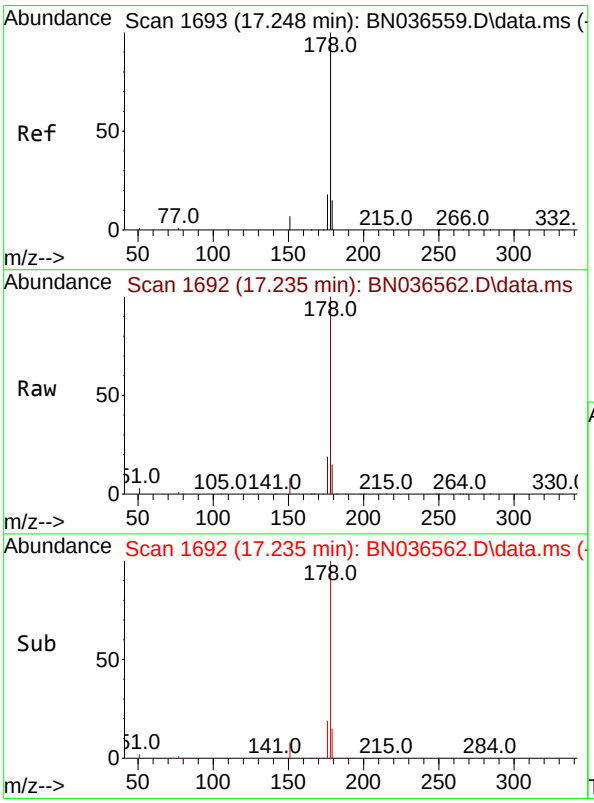
#25
Phenanthrene
Concen: 3.468 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 77903

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

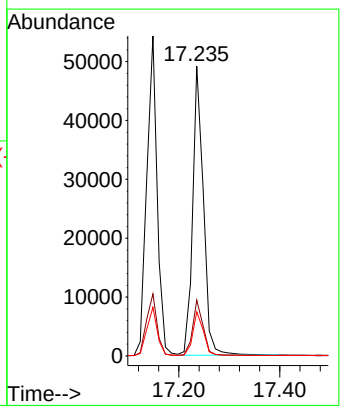


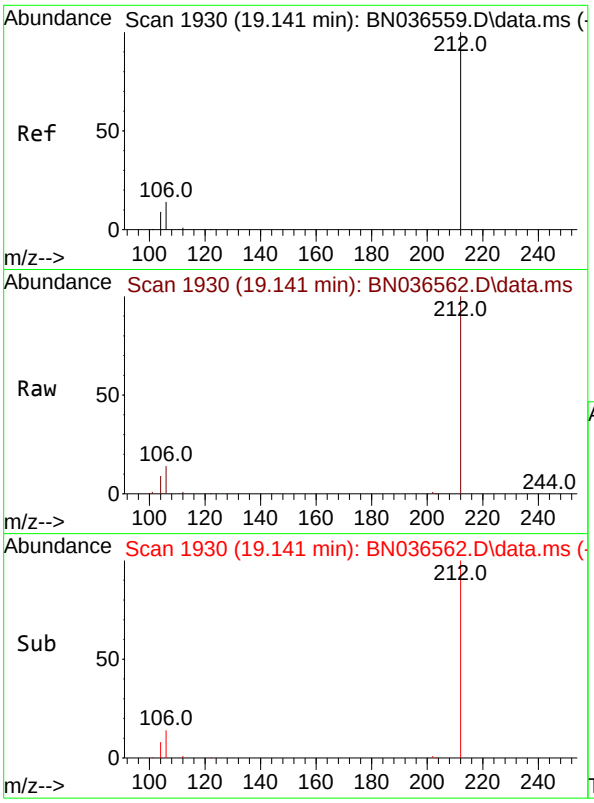


#26
Anthracene
Concen: 3.590 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:178 Resp: 72775

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



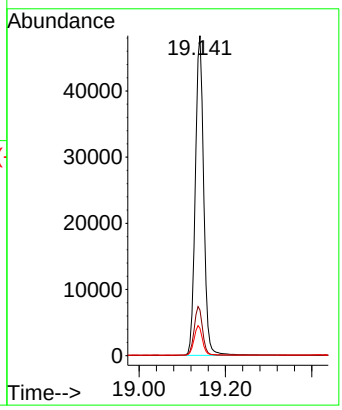


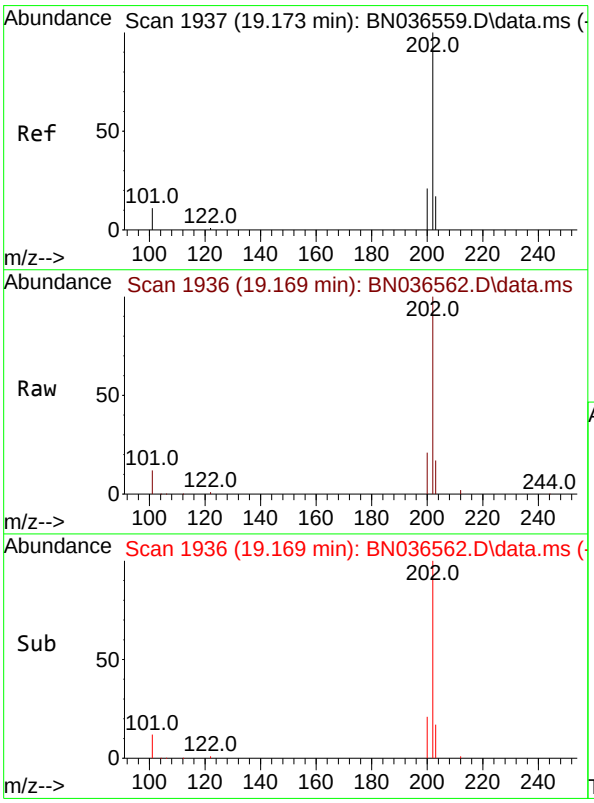
#27
Fluoranthene-d10
Concen: 3.394 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 65134

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

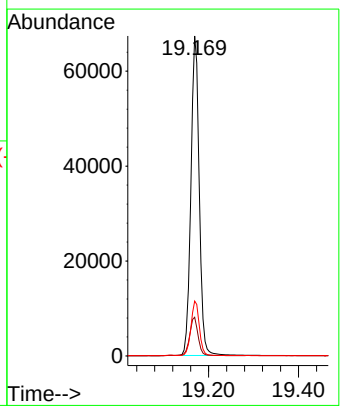


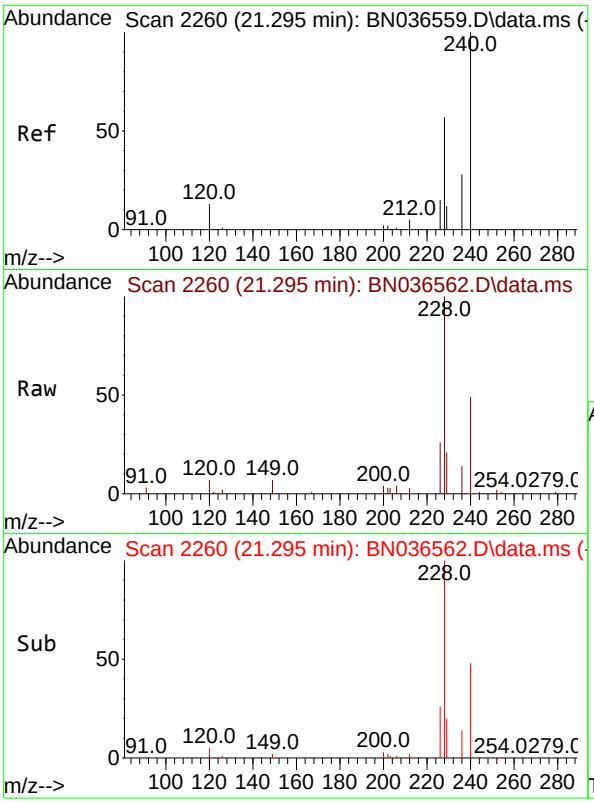


#28
Fluoranthene
Concen: 3.436 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:202 Resp: 86688

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



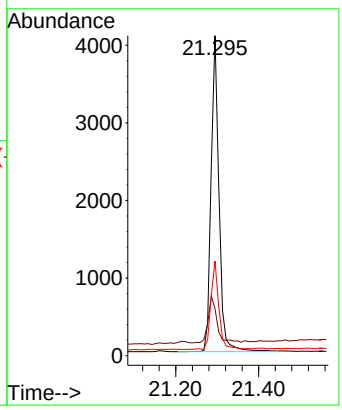


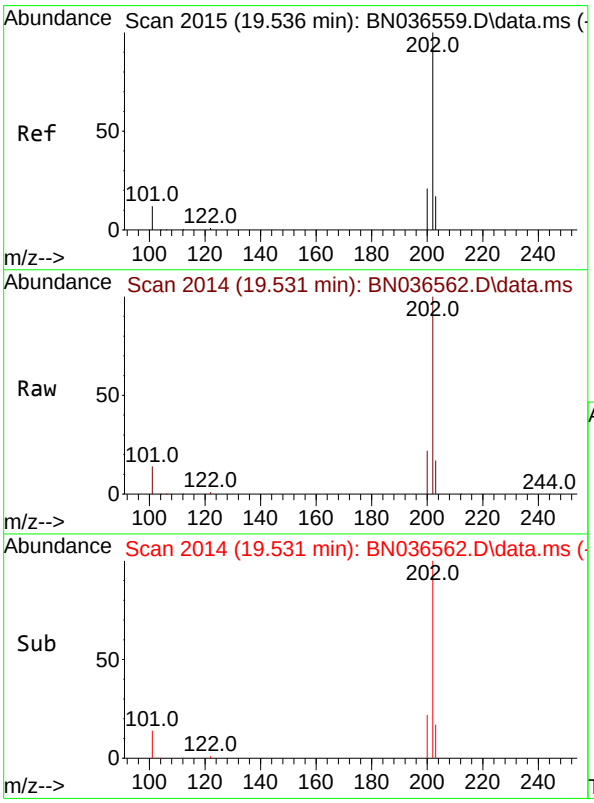
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 5439

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

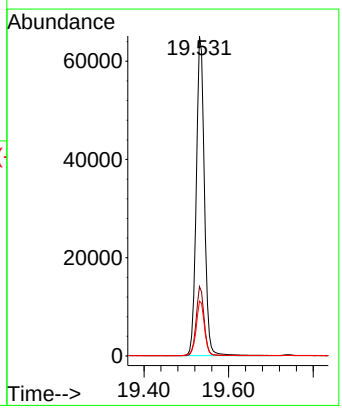


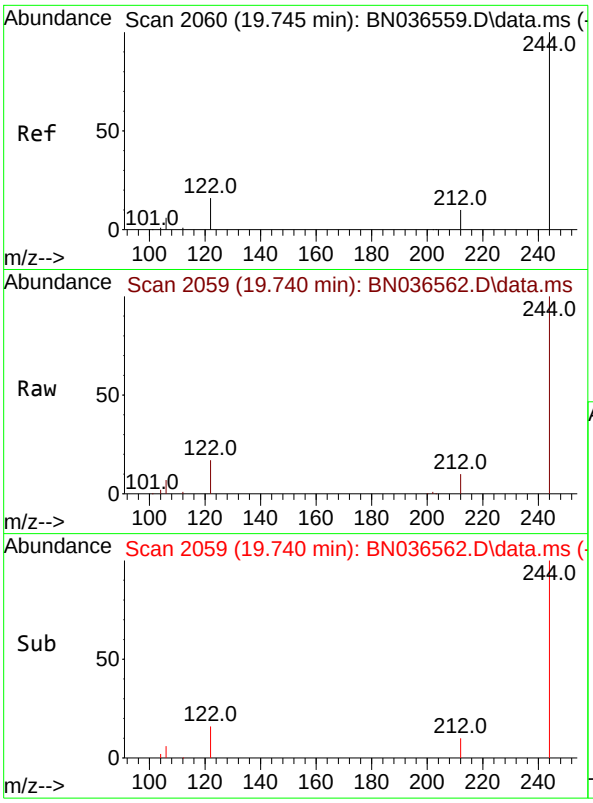


#30
Pyrene
Concen: 3.260 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:202 Resp: 86694

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



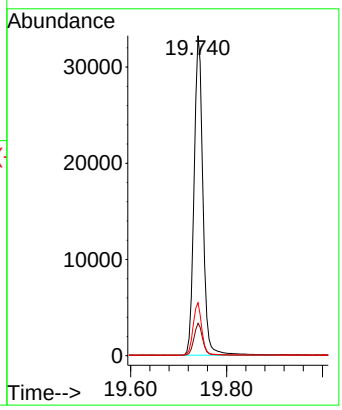


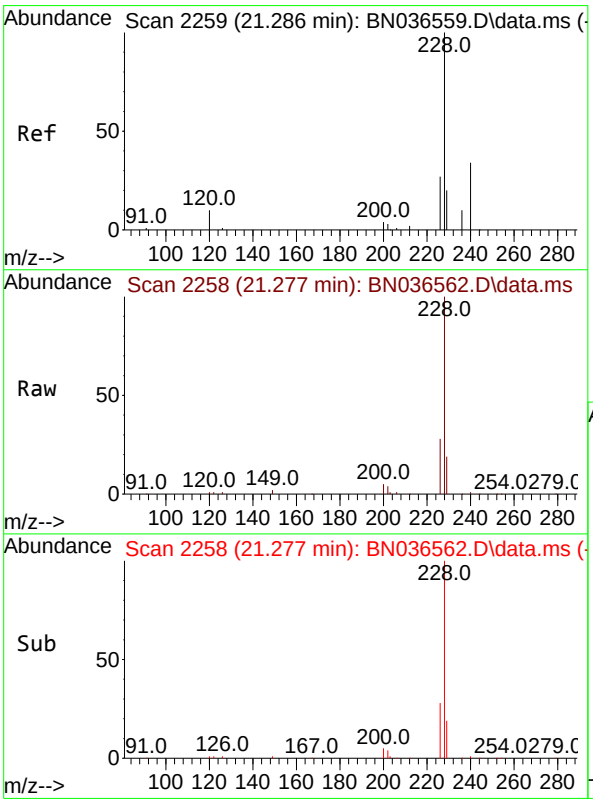
#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 42959

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

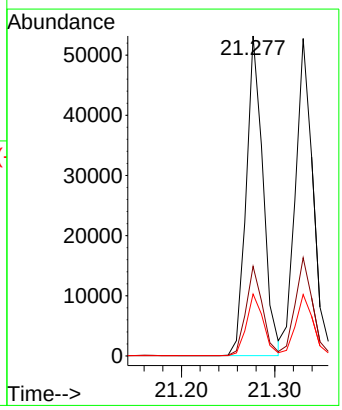


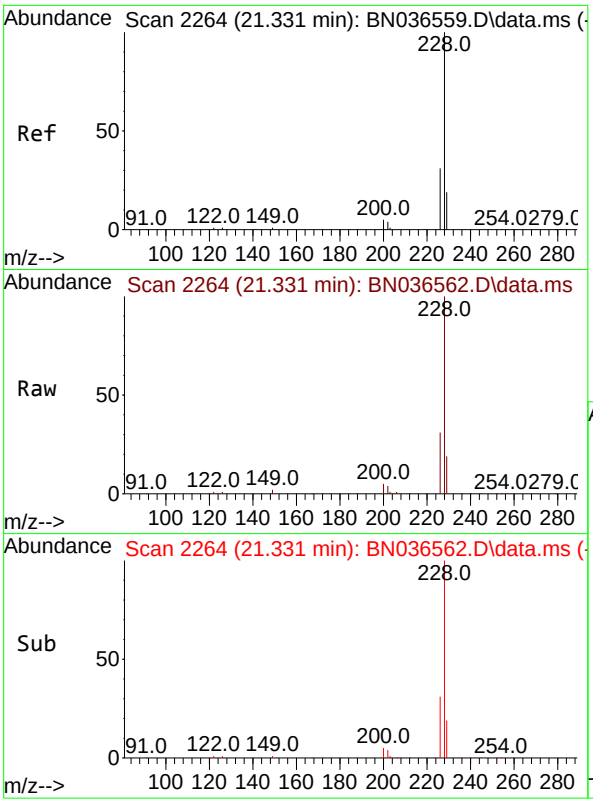


#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:228 Resp: 66496

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



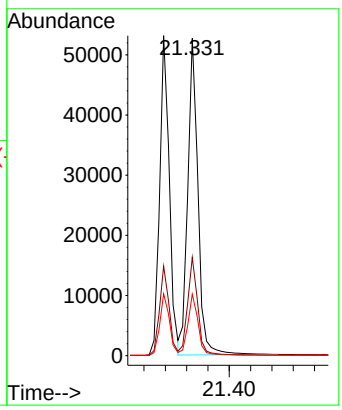


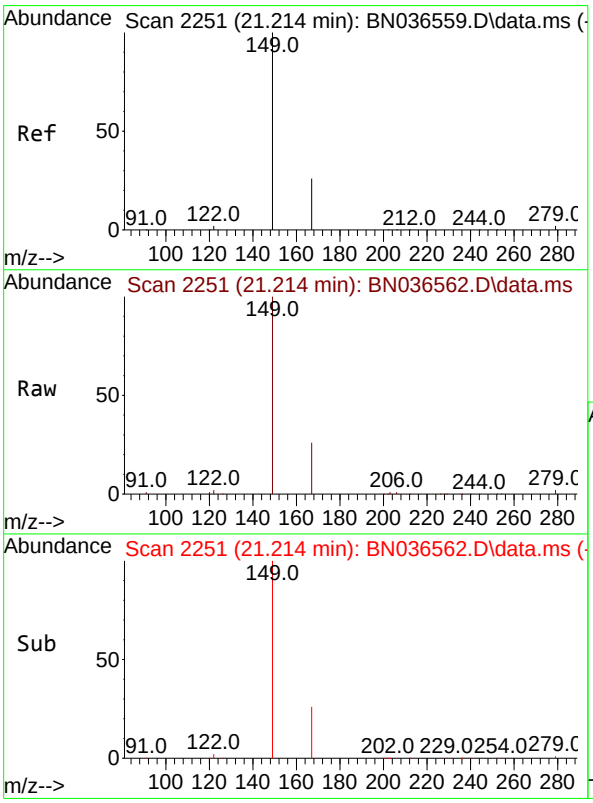
#33
Chrysene
Concen: 3.403 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 70334

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

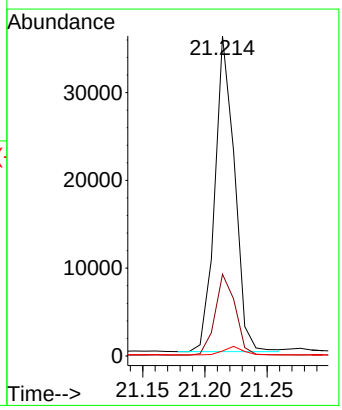


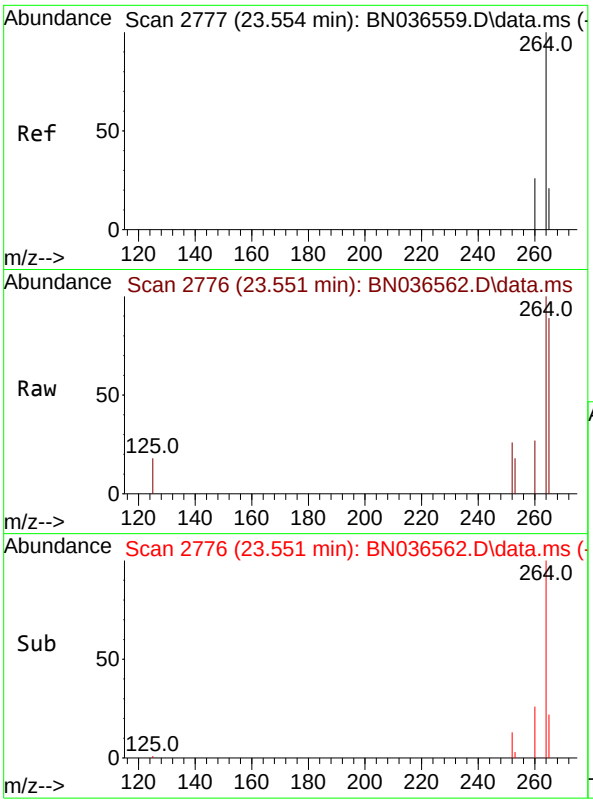


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.947 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:149 Resp: 39682

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



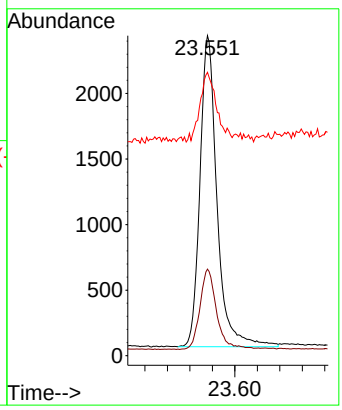


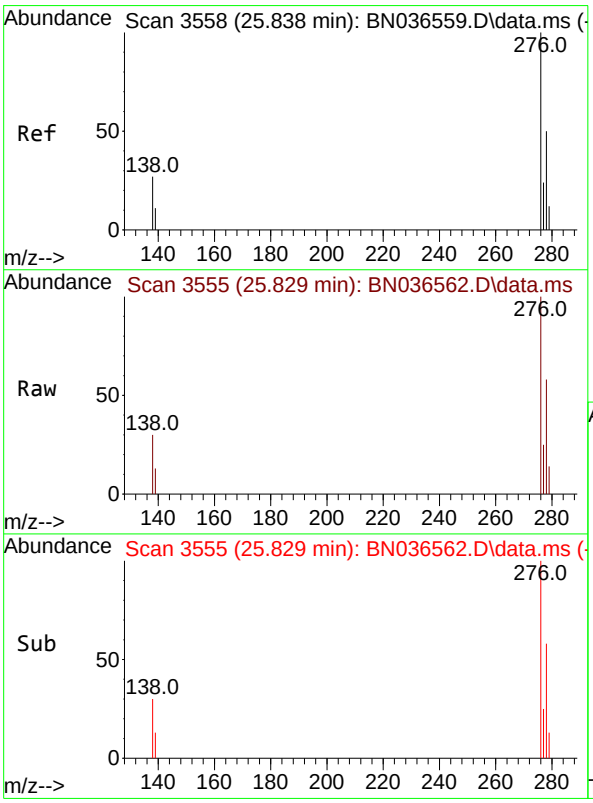
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 5002

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

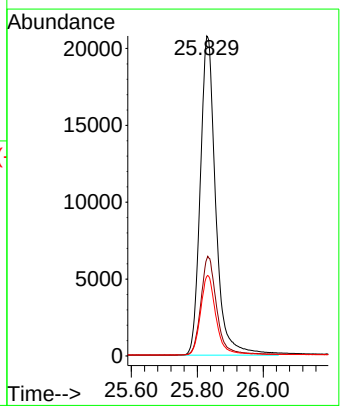


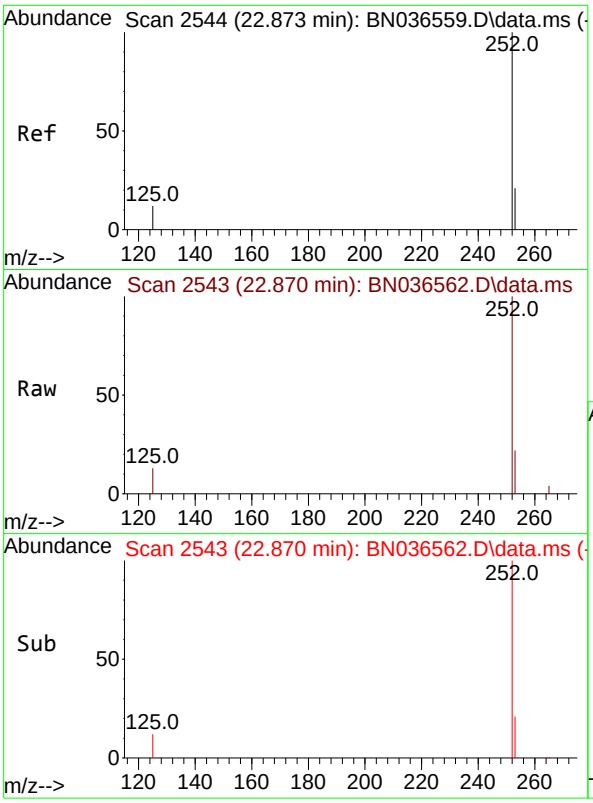


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.754 ng
RT: 25.829 min Scan# 3555
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:276 Resp: 67767

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



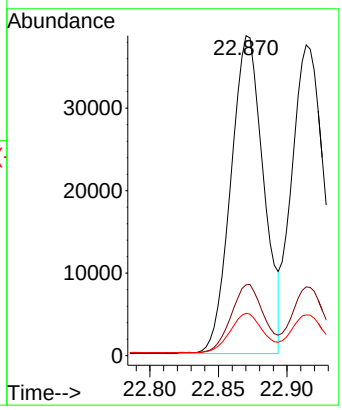


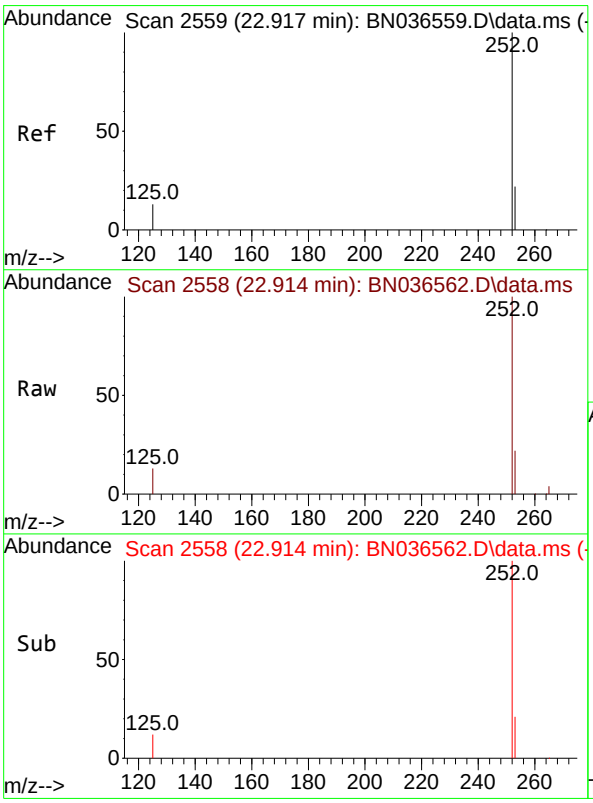
#37
Benzo(b)fluoranthene
Concen: 3.506 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 63823

Ion	Ratio	Lower	Upper
252	100		
253	22.2	23.9	35.9#
125	13.3	17.4	26.2#

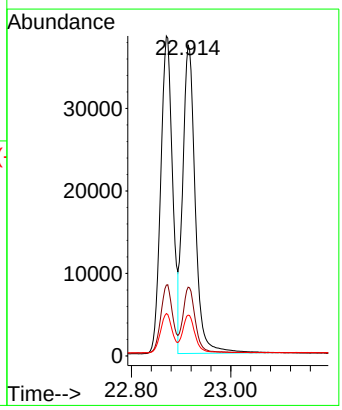


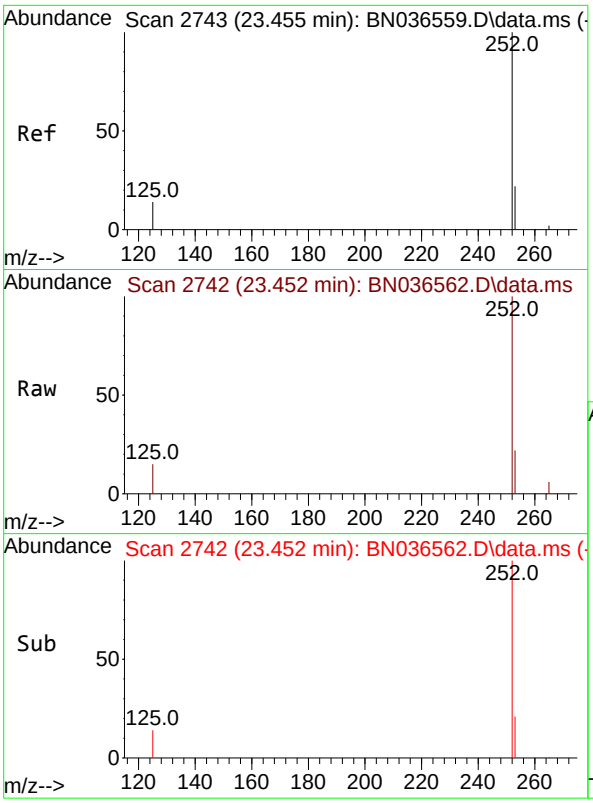


#38
Benzo(k)fluoranthene
Concen: 3.425 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:252 Resp: 65410

Ion	Ratio	Lower	Upper
252	100		
253	22.1	24.6	36.8#
125	13.2	17.8	26.8#



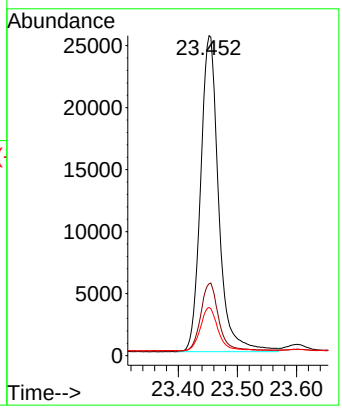


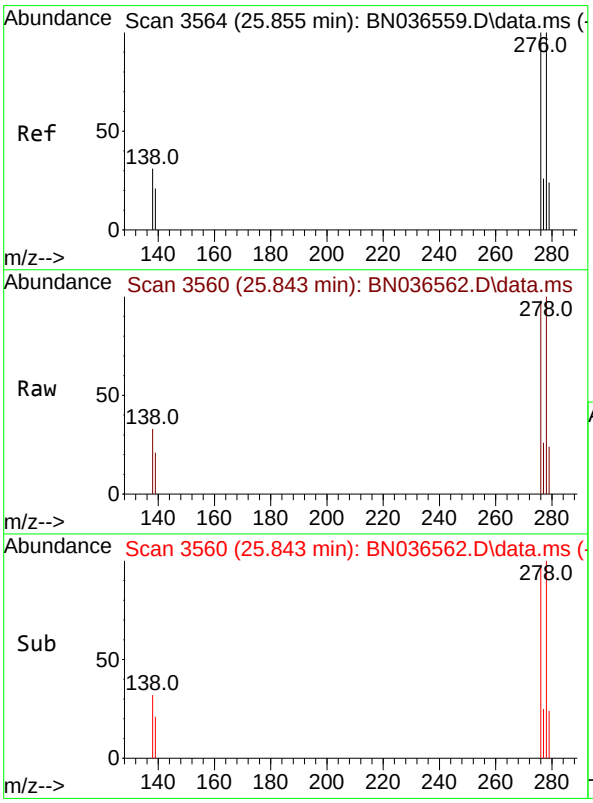
#39
Benzo(a)pyrene
Concen: 3.523 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 54009

Ion	Ratio	Lower	Upper
252	100		
253	22.4	27.8	41.8#
125	15.1	22.7	34.1#

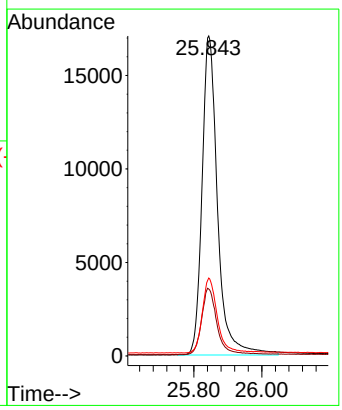


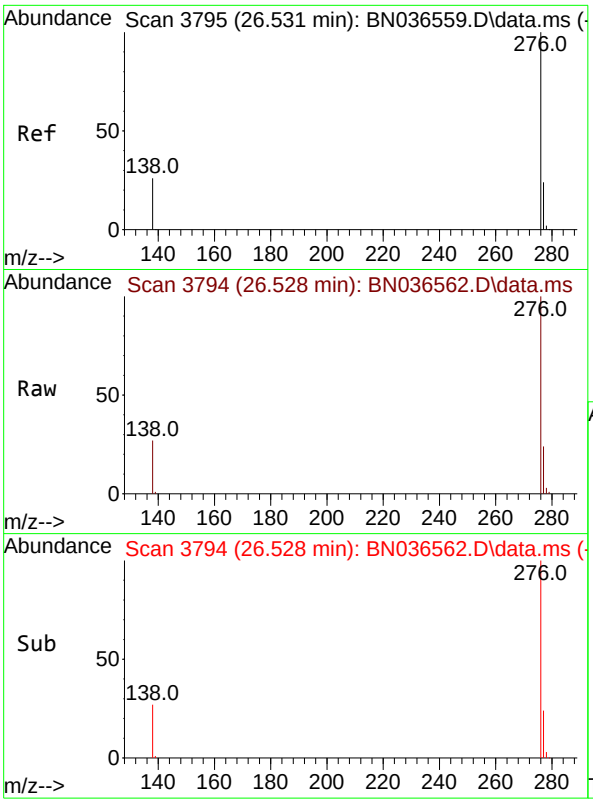


#40
Dibenzo(a,h)anthracene
Concen: 3.846 ng
RT: 25.843 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:278 Resp: 54058

Ion	Ratio	Lower	Upper
278	100		
139	20.9	20.8	31.2
279	24.4	28.8	43.2#



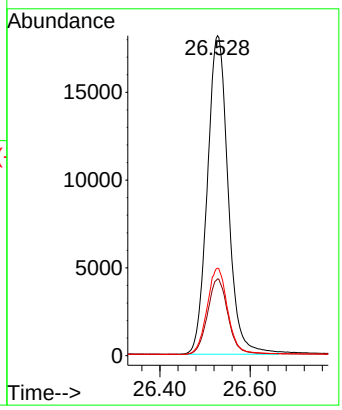


#41
Benzo(g,h,i)perylene
Concen: 3.606 ng
RT: 26.528 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 57986

Ion	Ratio	Lower	Upper
276	100		
277	24.0	22.2	33.4
138	27.4	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

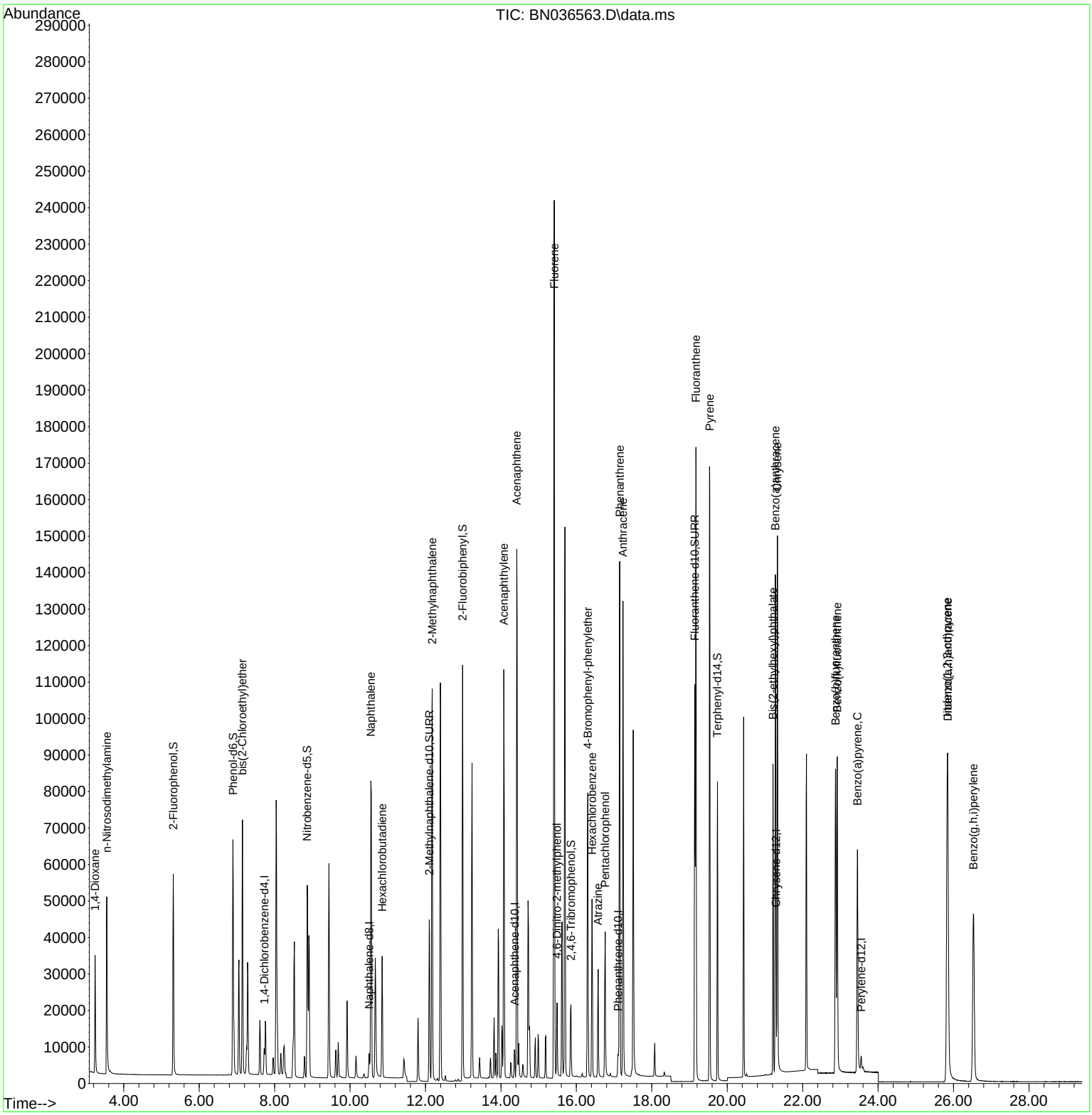
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	3261	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	7995	0.400	ng	#	0.00
13) Acenaphthene-d10	14.366	164	4664	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	9061	0.400	ng		0.00
29) Chrysene-d12	21.295	240	6472	0.400	ng		0.00
35) Perylene-d12	23.551	264	5580	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	37154	4.889	ng		0.00
5) Phenol-d6	6.894	99	48085	5.122	ng		0.00
8) Nitrobenzene-d5	8.864	82	41042	4.719	ng		-0.01
11) 2-Methylnaphthalene-d10	12.101	152	58048	4.881	ng		-0.01
14) 2,4,6-Tribromophenol	15.858	330	10964	5.181	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	141052	5.199	ng		0.00
27) Fluoranthene-d10	19.141	212	113317	4.879	ng		0.00
31) Terphenyl-d14	19.740	244	74923	4.832	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	16253	4.492	ng		97
3) n-Nitrosodimethylamine	3.550	42	32163	4.395	ng	#	95
6) bis(2-Chloroethyl)ether	7.146	93	44986	4.636	ng		99
9) Naphthalene	10.551	128	109289	4.647	ng		97
10) Hexachlorobutadiene	10.850	225	25105	4.535	ng	#	99
12) 2-Methylnaphthalene	12.177	142	73010	4.879	ng		98
16) Acenaphthylene	14.077	152	112792	5.125	ng		99
17) Acenaphthene	14.420	154	72446	5.028	ng		96
18) Fluorene	15.414	166	96215	4.937	ng		97
20) 4,6-Dinitro-2-methylph...	15.489	198	12627	4.968	ng	#	56
21) 4-Bromophenyl-phenylether	16.304	248	28657	5.048	ng	#	81
22) Hexachlorobenzene	16.416	284	32686	4.770	ng		99
23) Atrazine	16.577	200	22705	4.988	ng	#	90
24) Pentachlorophenol	16.764	266	17612	5.634	ng		99
25) Phenanthrene	17.148	178	135347	4.979	ng		100
26) Anthracene	17.235	178	125954	5.135	ng		99
28) Fluoranthene	19.169	202	149107	4.883	ng		99
30) Pyrene	19.536	202	148584	4.695	ng		100
32) Benzo(a)anthracene	21.277	228	114481	5.087	ng		98
33) Chrysene	21.331	228	117149	4.764	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	70345	4.390	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.835	276	109561	5.440	ng		98
37) Benzo(b)fluoranthene	22.873	252	104498	5.146	ng	#	84
38) Benzo(k)fluoranthene	22.917	252	106995	5.022	ng	#	82
39) Benzo(a)pyrene	23.452	252	88413	5.170	ng	#	76
40) Dibenzo(a,h)anthracene	25.846	278	87308	5.568	ng	#	84
41) Benzo(g,h,i)perylene	26.531	276	93067	5.189	ng		93

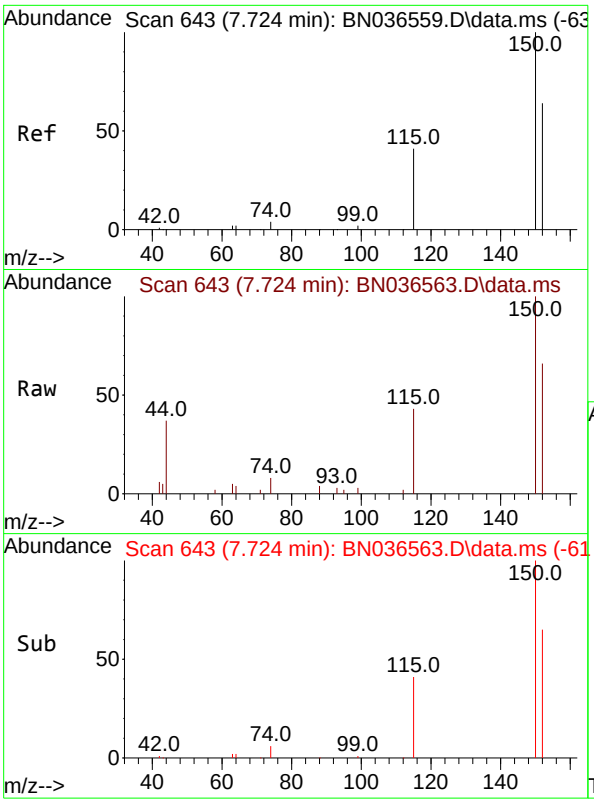
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



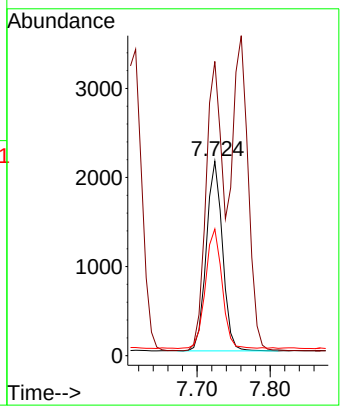


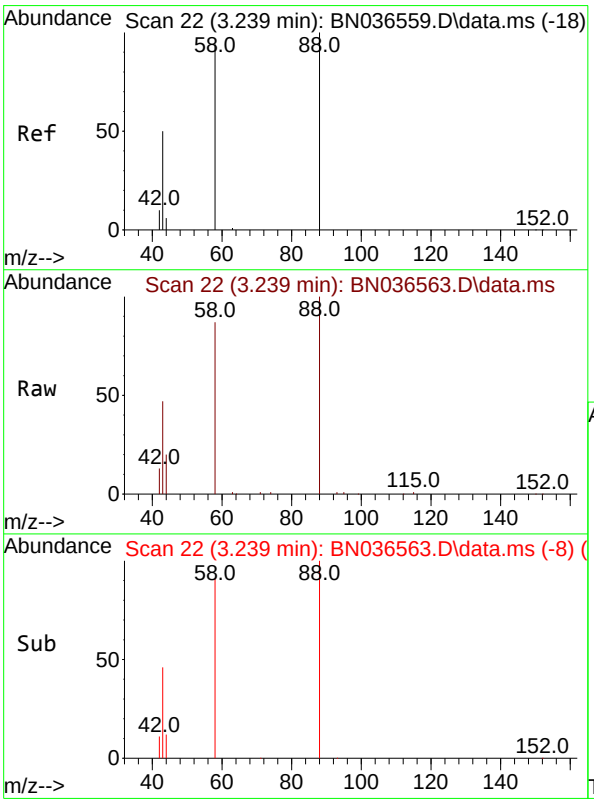
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 3261

Ion	Ratio	Lower	Upper
152	100		
150	151.3	123.7	185.5
115	65.2	54.3	81.5

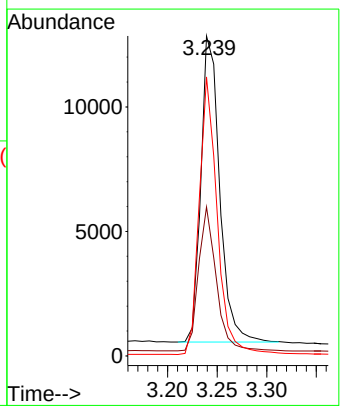


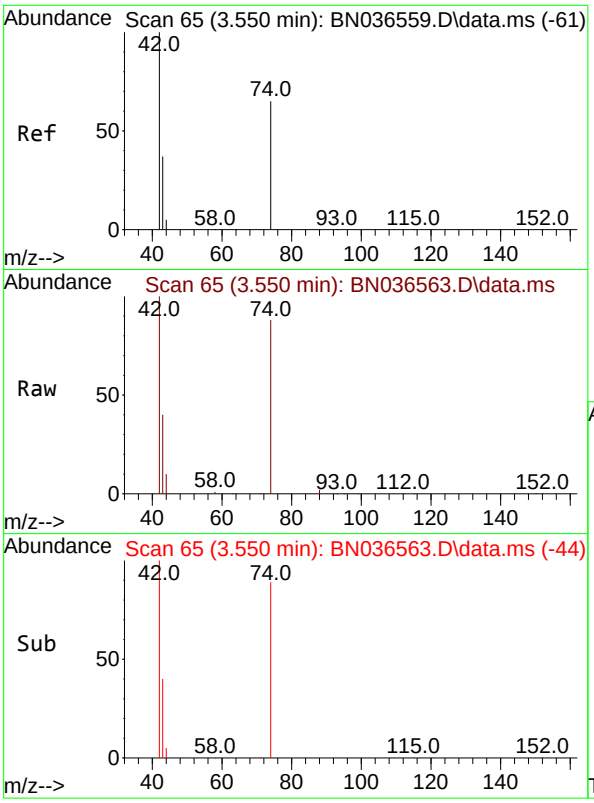


#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 88 Resp: 16253

Ion	Ratio	Lower	Upper
88	100		
43	44.3	37.8	56.8
58	86.4	67.4	101.2



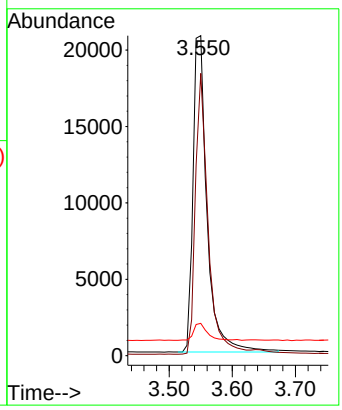


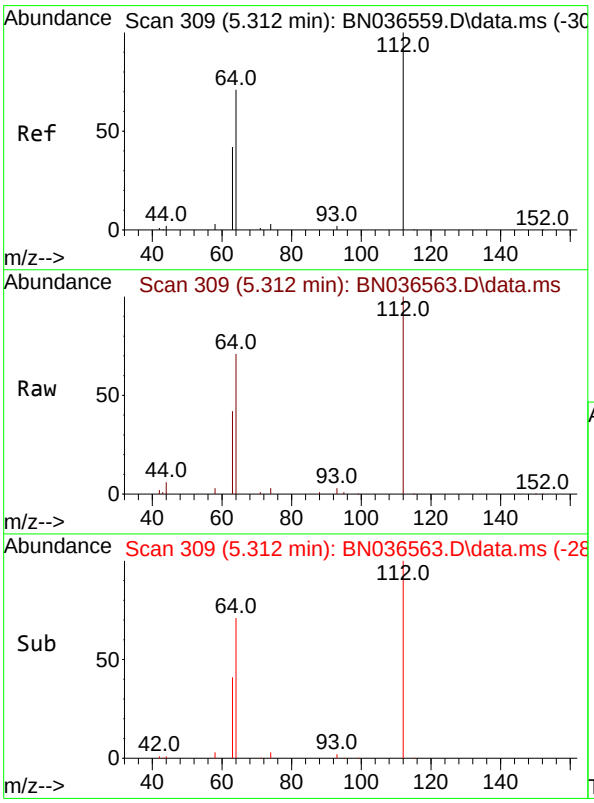
#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 32163

Ion	Ratio	Lower	Upper
42	100		
74	79.9	60.6	90.8
44	5.3	6.3	9.5#

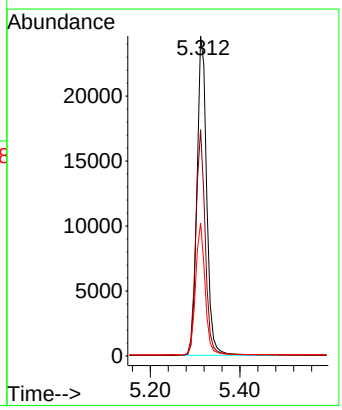


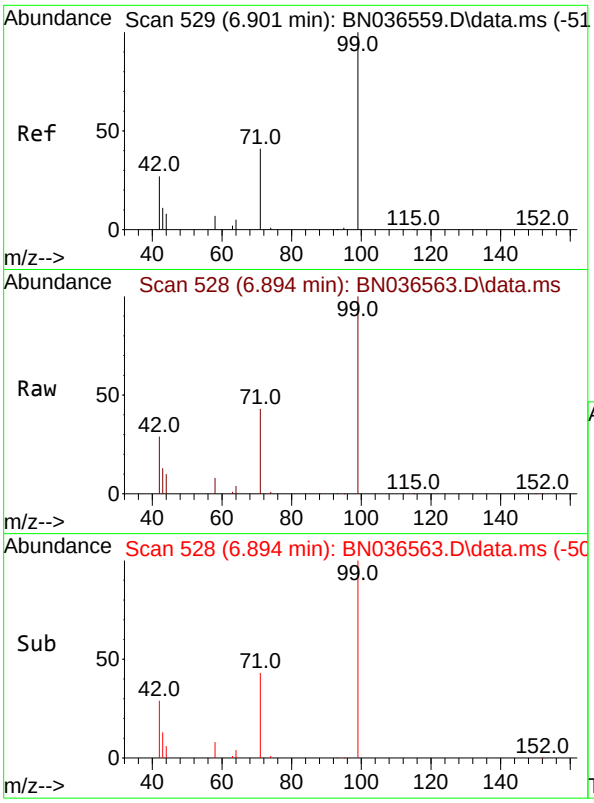


#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:112 Resp: 37154

Ion	Ratio	Lower	Upper
112	100		
64	68.5	53.1	79.7
63	40.1	31.8	47.8



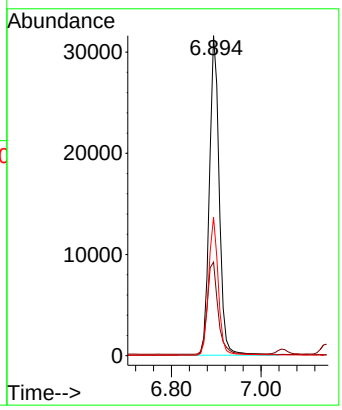


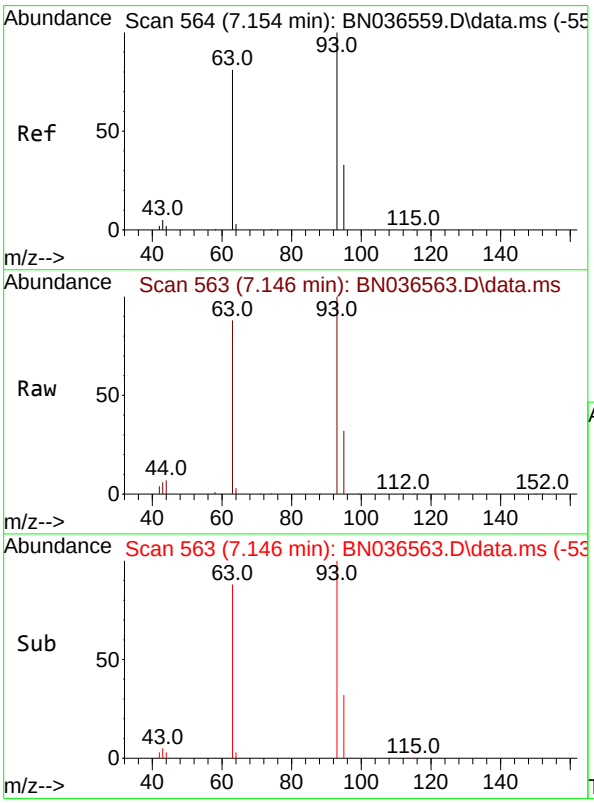
#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 48085

Ion	Ratio	Lower	Upper
99	100		
42	31.8	26.5	39.7
71	42.6	34.1	51.1

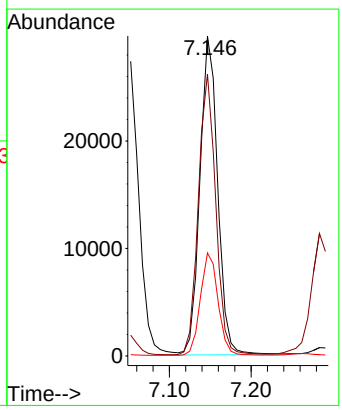


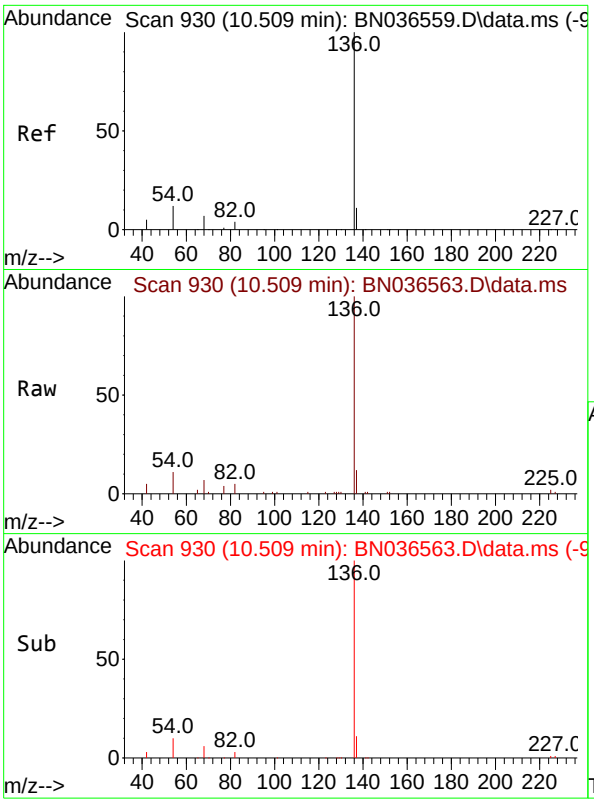


#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 93 Resp: 44986

Ion	Ratio	Lower	Upper
93	100		
63	85.8	67.7	101.5
95	32.0	25.6	38.4



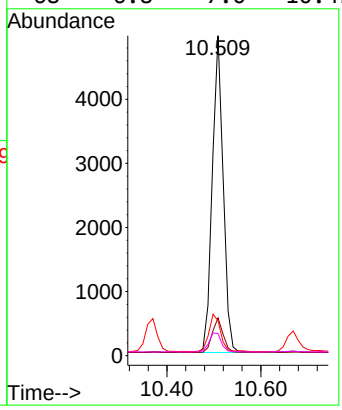


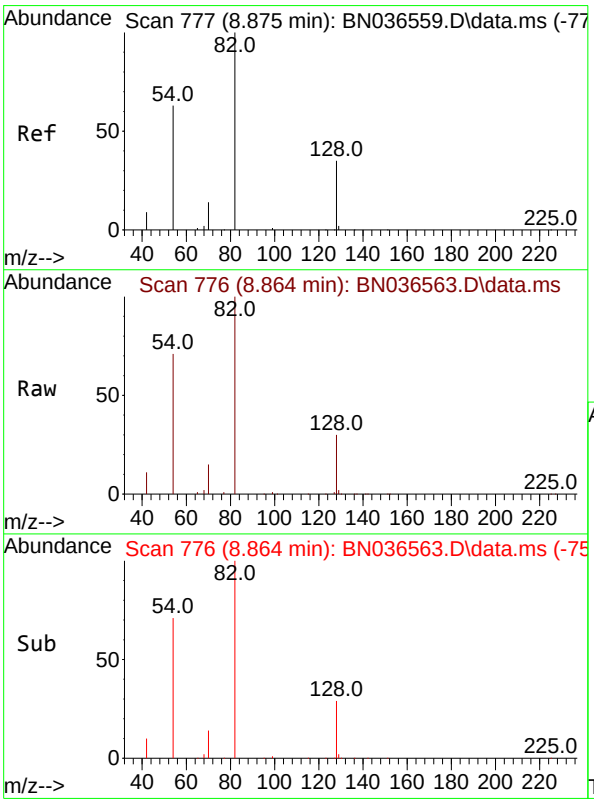
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 7995

Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.9	11.5	17.3#
68	6.8	7.0	10.4#

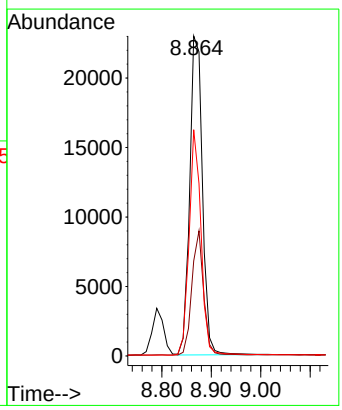


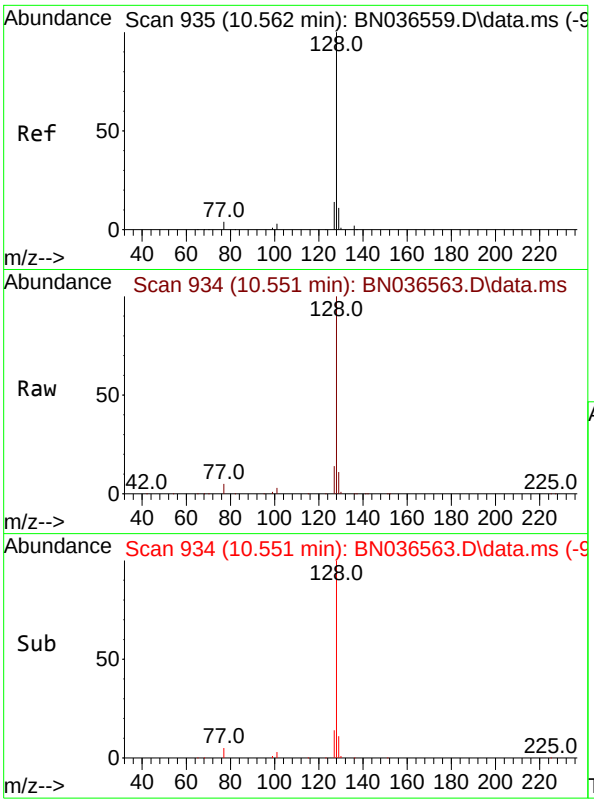


#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 82 Resp: 41042

Ion	Ratio	Lower	Upper
82	100		
128	29.7	30.6	45.8#
54	70.7	52.2	78.4



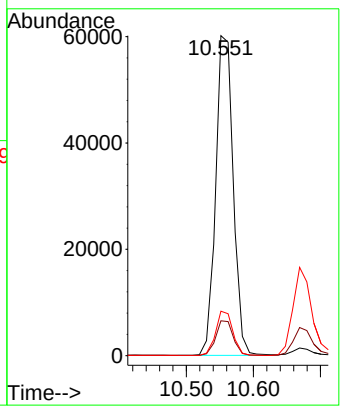


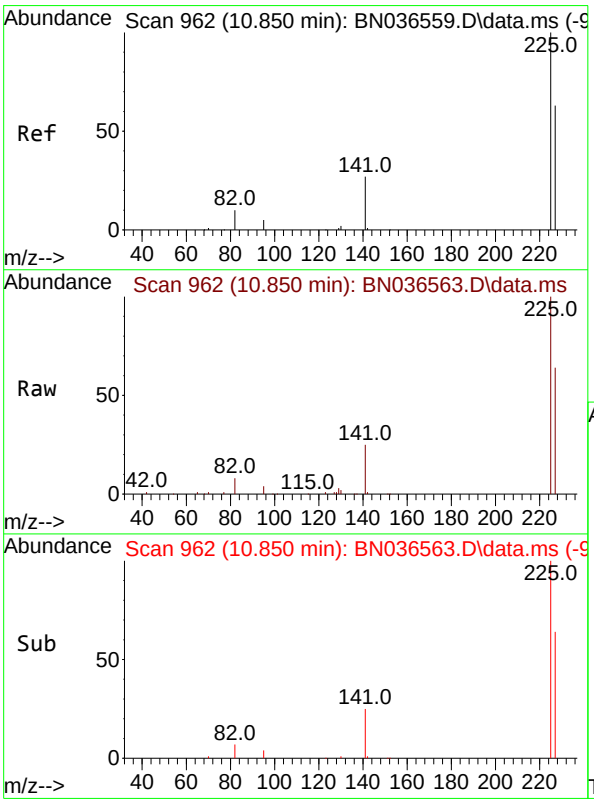
#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 109289

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.9	11.8	17.8

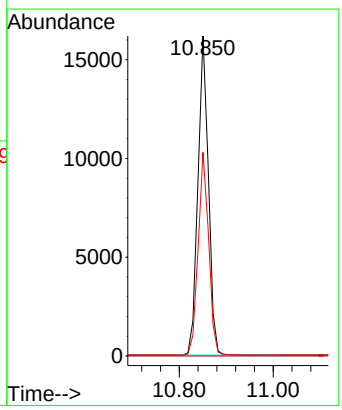


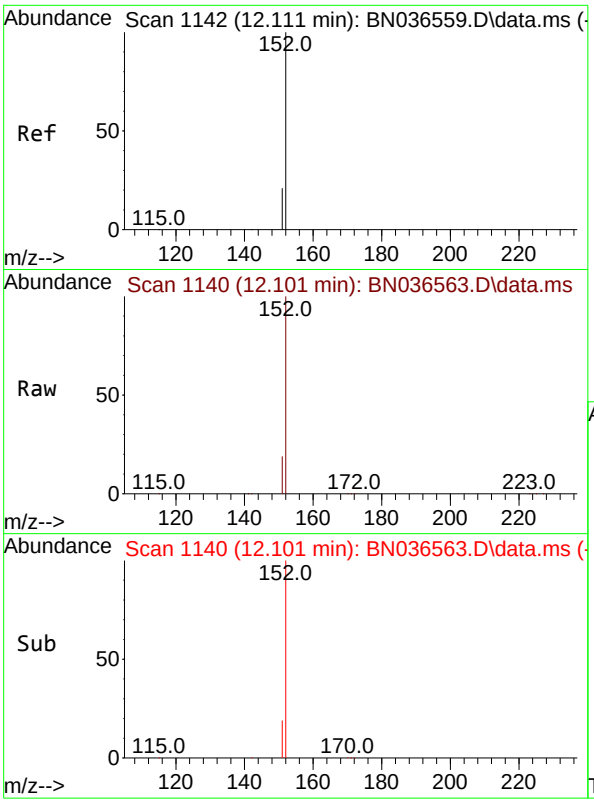


#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:225 Resp: 25105

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



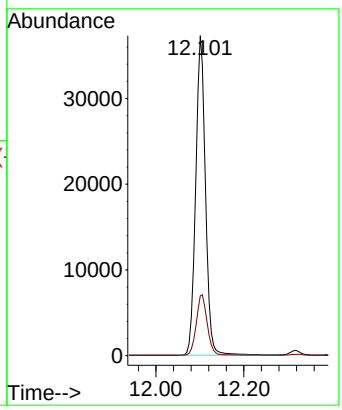


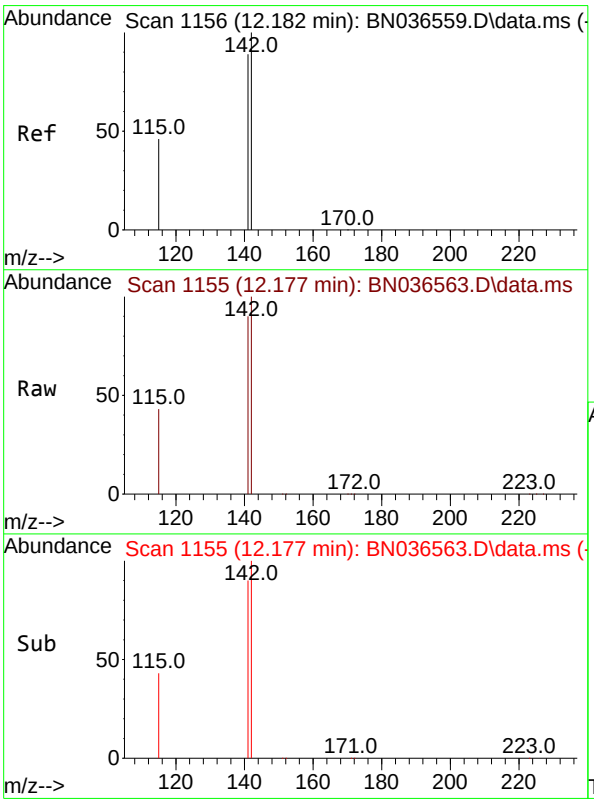
#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 58048

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

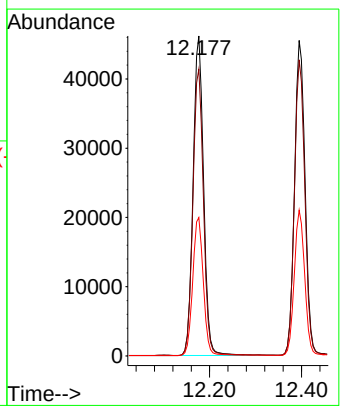


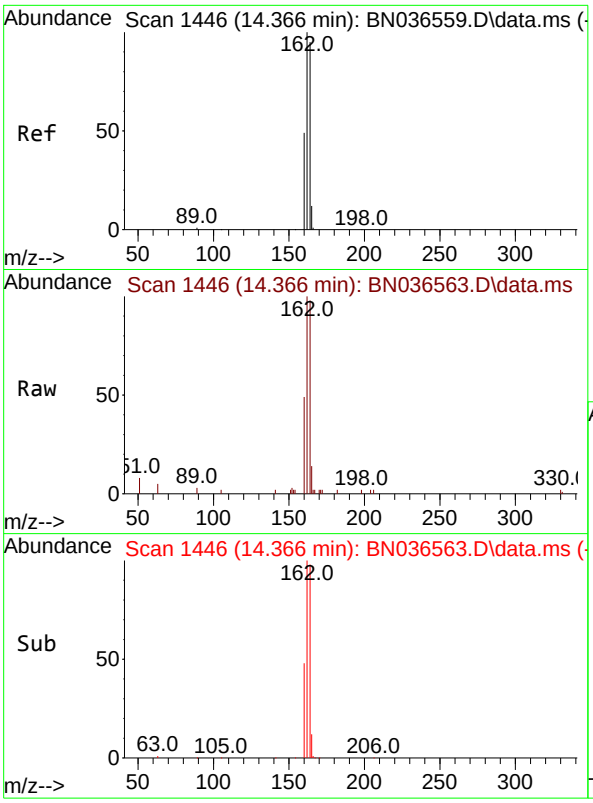


#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:142 Resp: 73010

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.7	107.5
115	43.2	38.3	57.5



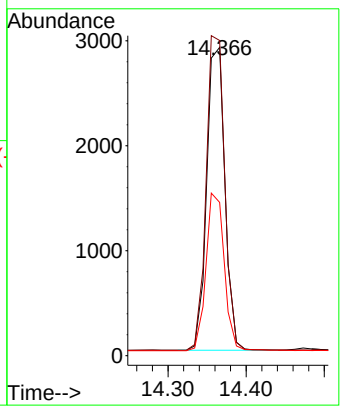


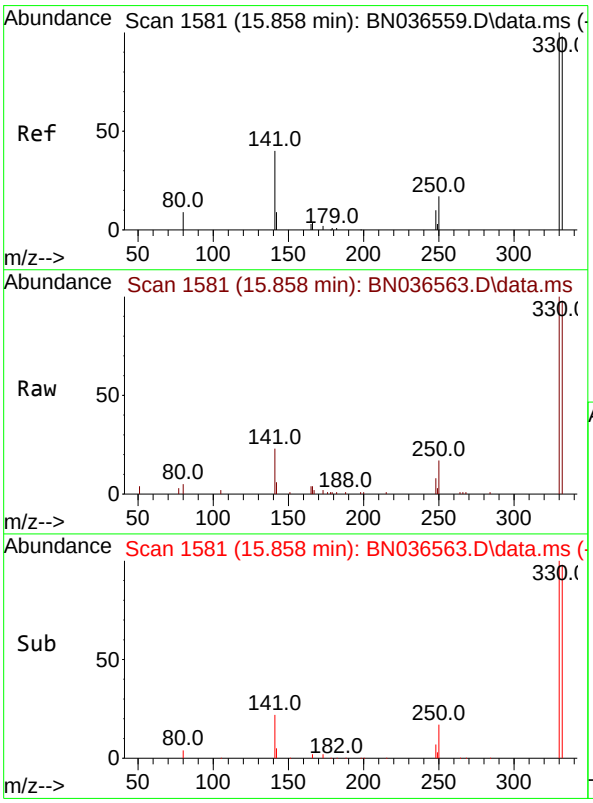
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4664

Ion	Ratio	Lower	Upper
164	100		
162	102.2	84.2	126.2
160	49.7	42.2	63.2

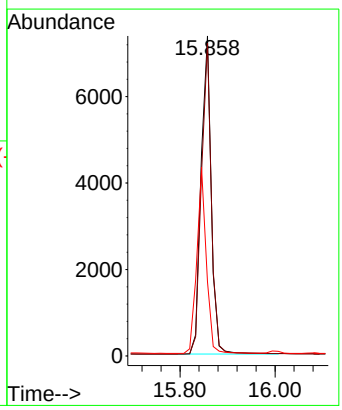


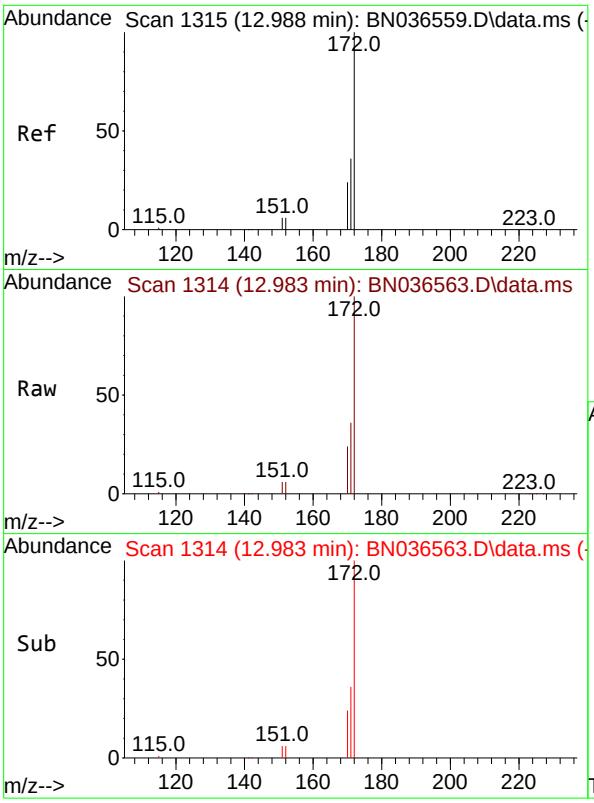


#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:330 Resp: 10964

Ion	Ratio	Lower	Upper
330	100		
332	95.9	75.2	112.8
141	54.7	43.4	65.2



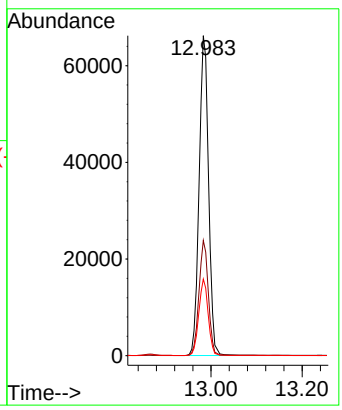


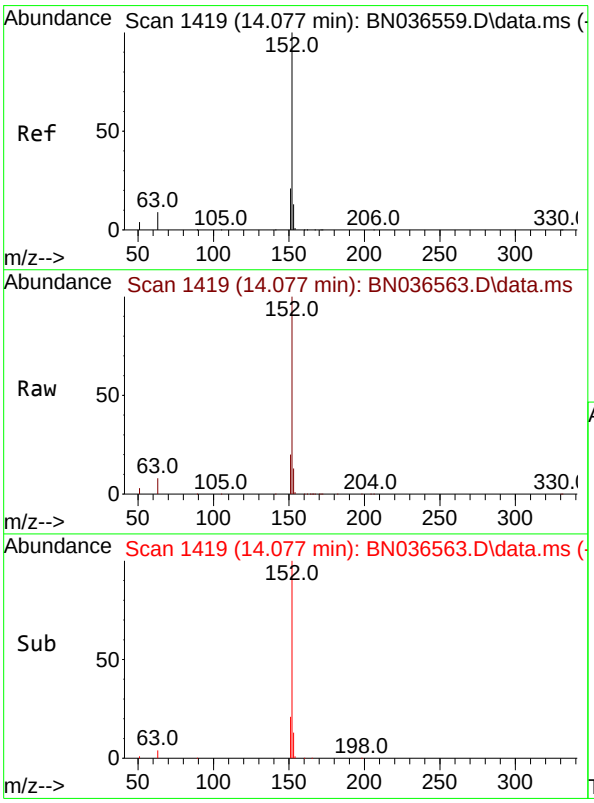
#15
2-Fluorobiphenyl
Concen: 5.199 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 141052

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.5	44.3
170	24.0	20.2	30.4

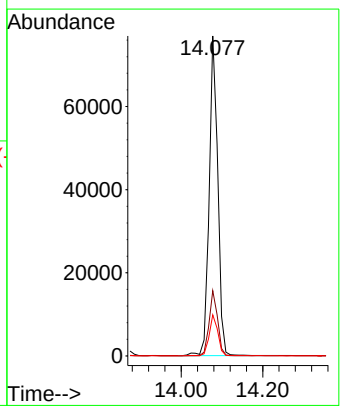


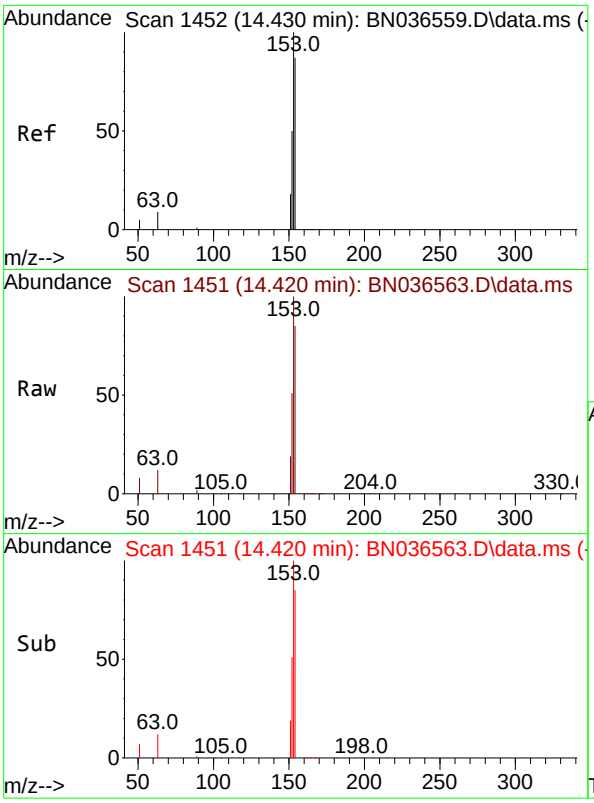


#16
Acenaphthylene
Concen: 5.125 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:152 Resp: 112792

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



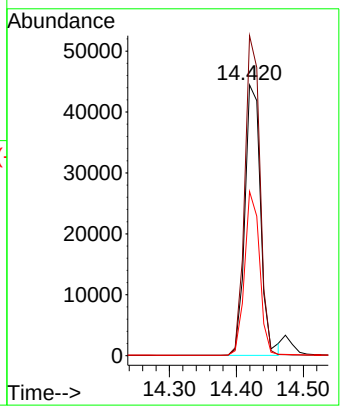


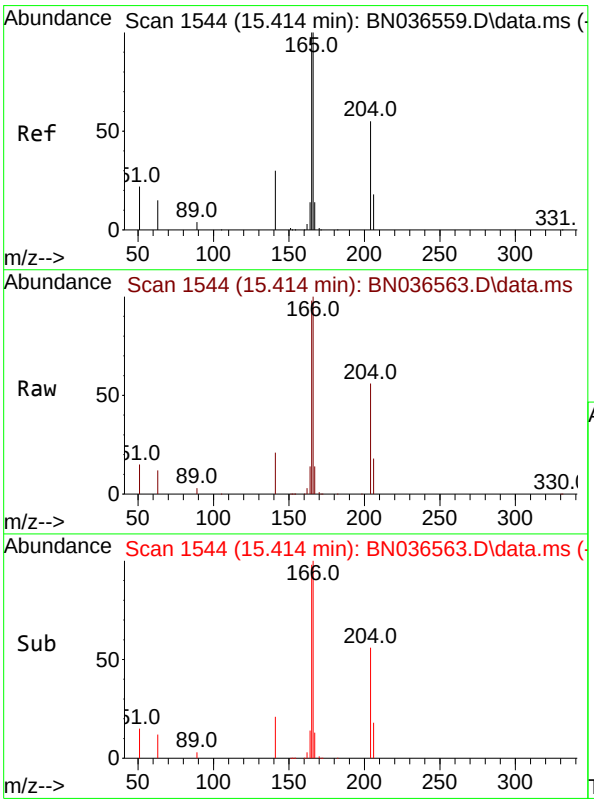
#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 72446

Ion	Ratio	Lower	Upper
154	100		
153	114.1	94.1	141.1
152	57.7	49.8	74.6

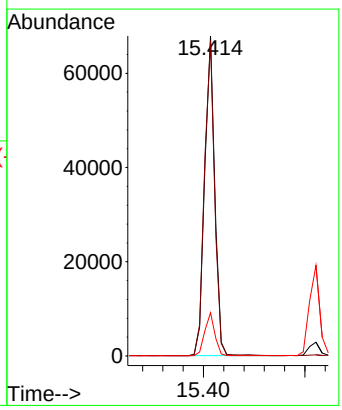


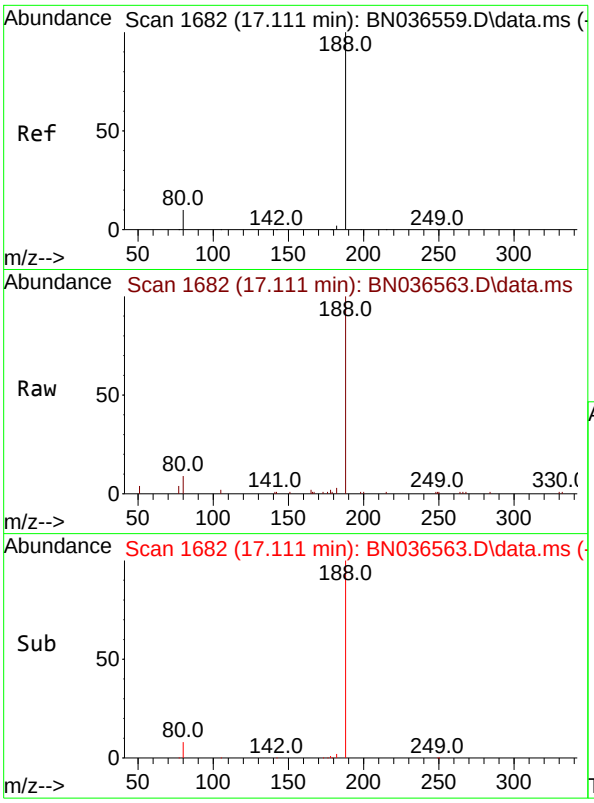


#18
Fluorene
Concen: 4.937 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:166 Resp: 96215

Ion	Ratio	Lower	Upper
166	100		
165	96.5	79.8	119.8
167	13.0	10.6	15.8



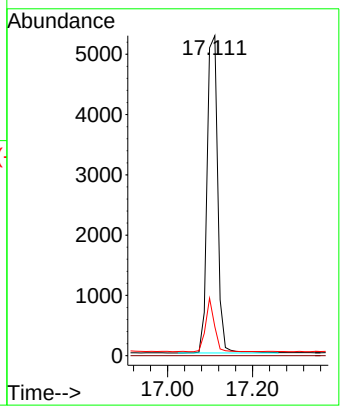


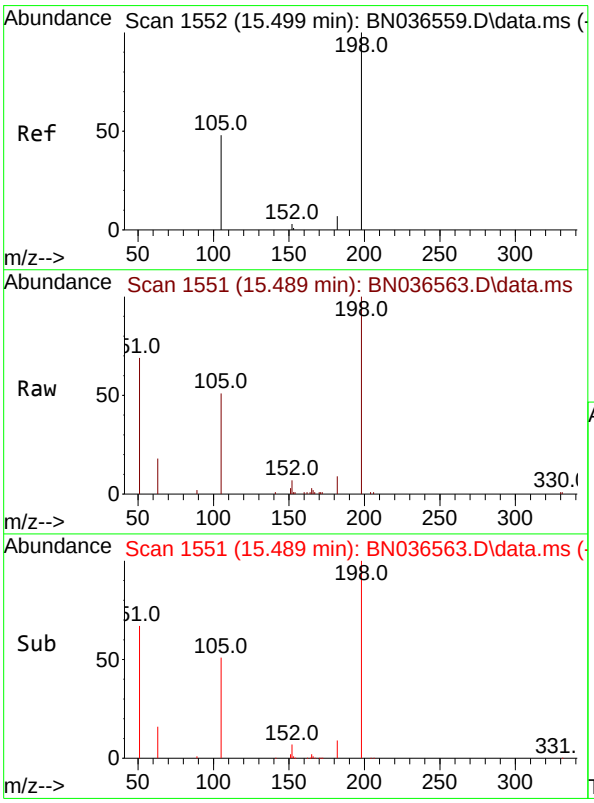
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 9061

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.1	8.8	13.2

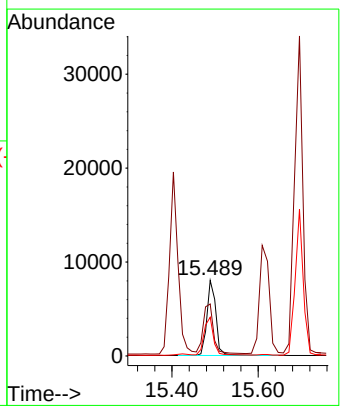


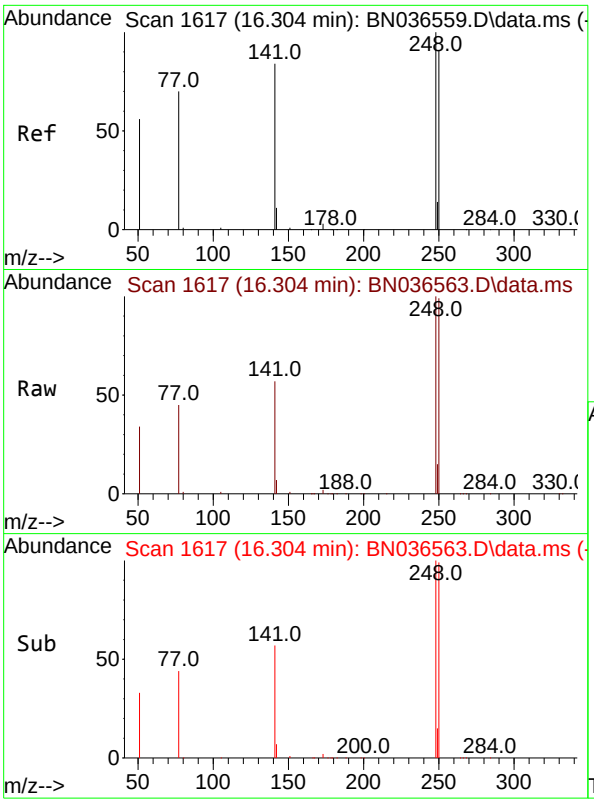


#20
4,6-Dinitro-2-methylphenol
Concen: 4.968 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:198 Resp: 12627

Ion	Ratio	Lower	Upper
198	100		
51	68.9	107.9	161.9#
105	51.3	56.2	84.2#



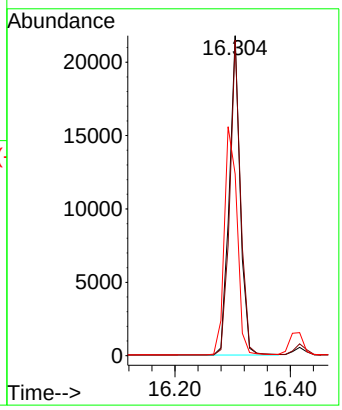


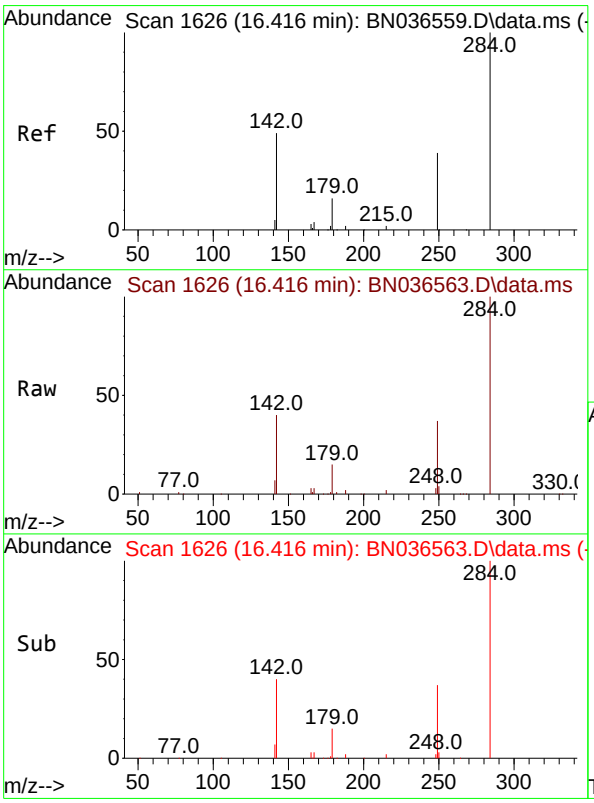
#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 28657

Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	56.7	68.6	103.0#

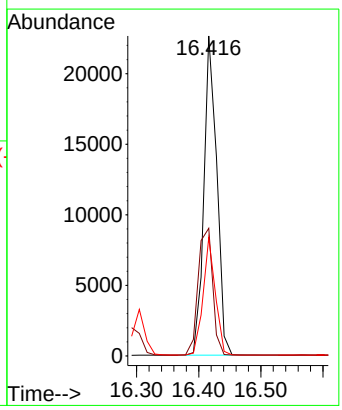


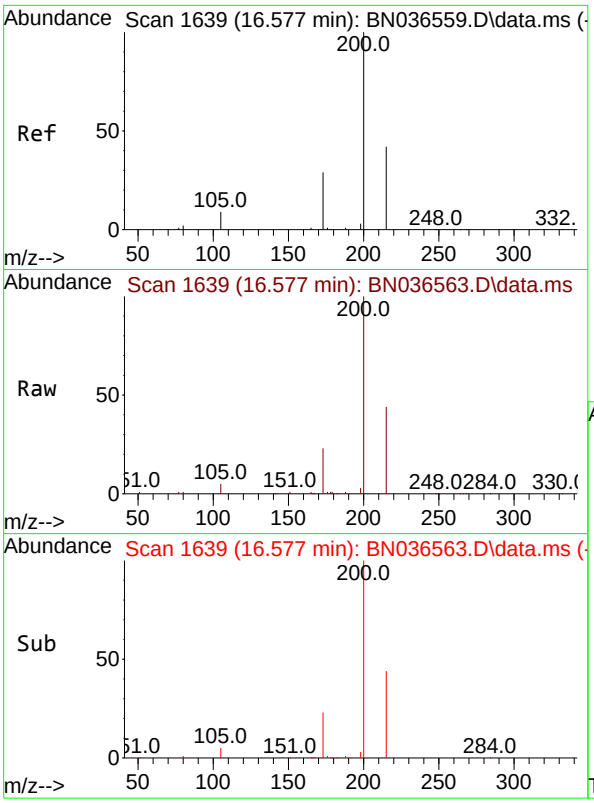


#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:284 Resp: 32686

Ion	Ratio	Lower	Upper
284	100		
142	45.1	37.0	55.4
249	35.1	28.1	42.1



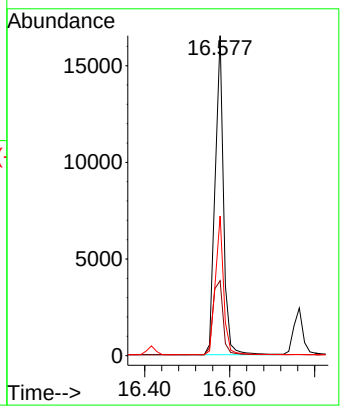


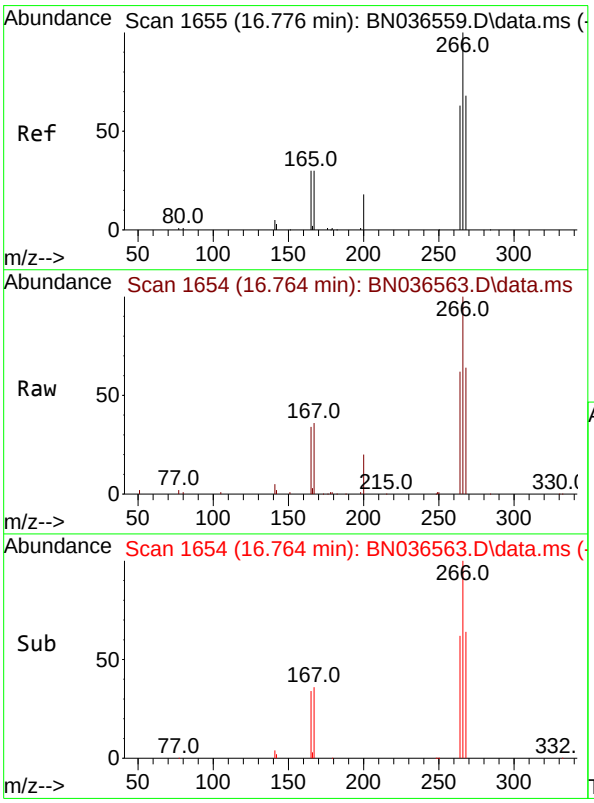
#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 22705

Ion	Ratio	Lower	Upper
200	100		
173	23.4	27.3	40.9#
215	43.7	36.8	55.2

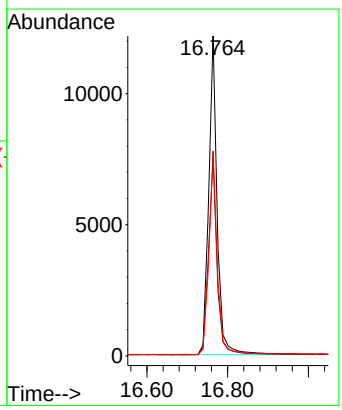


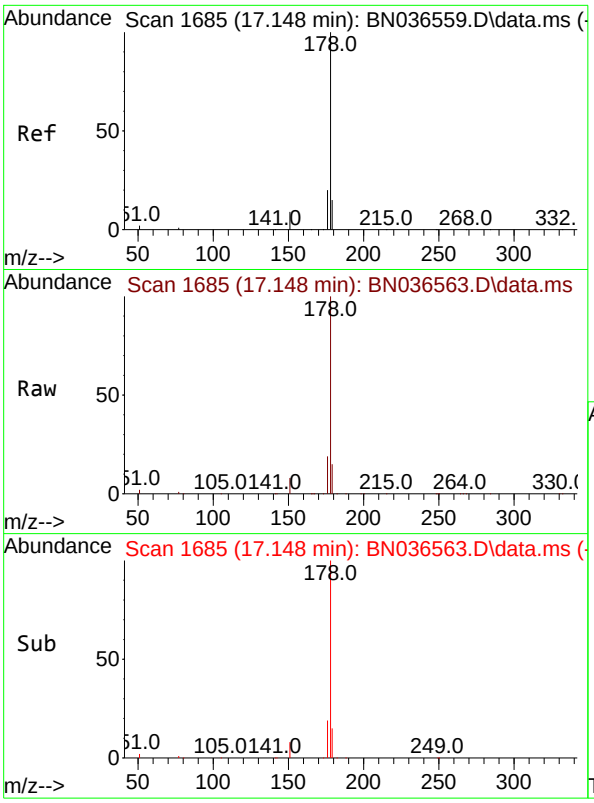


#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:266 Resp: 17612

Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.7	50.9	76.3



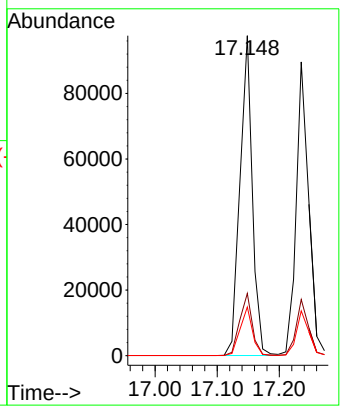


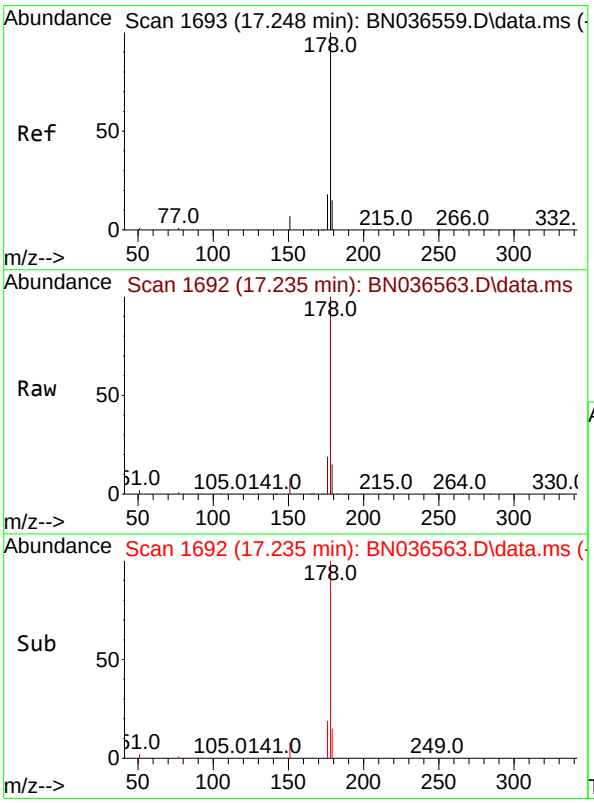
#25
Phenanthrene
Concen: 4.979 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 135347

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.2	12.2	18.4

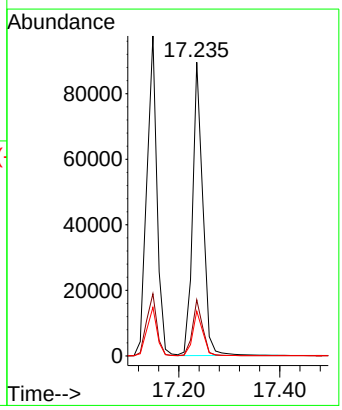


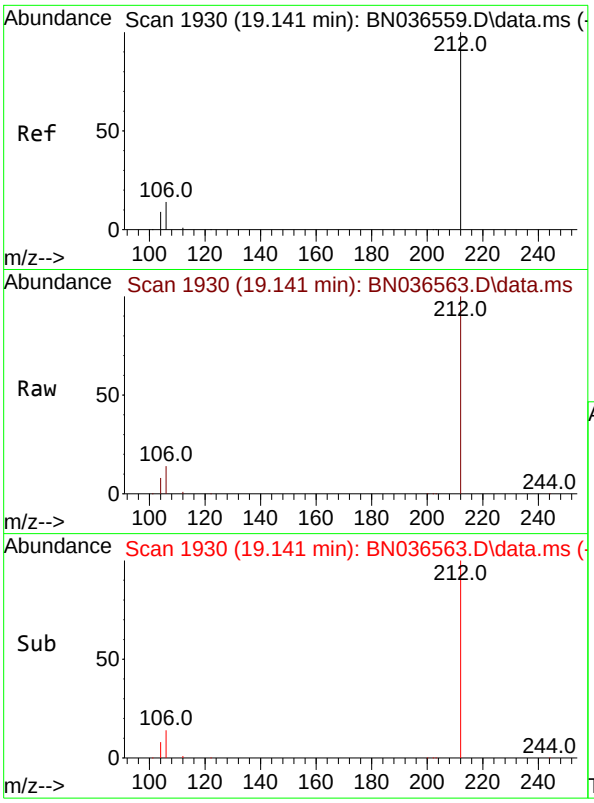


#26
Anthracene
Concen: 5.135 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:178 Resp: 125954

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.2	12.6	18.8



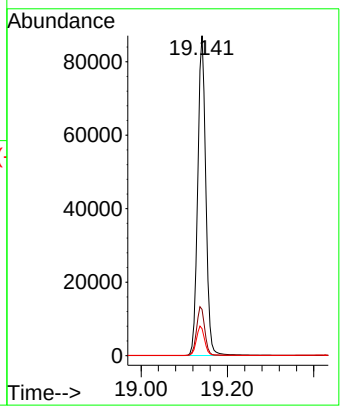


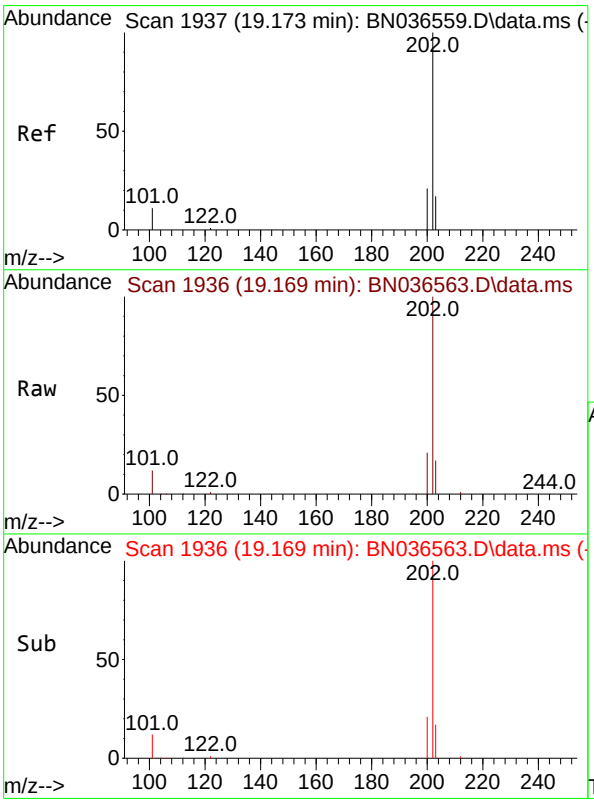
#27
Fluoranthene-d10
Concen: 4.879 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 113317

Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.8	17.6
104	9.2	7.3	10.9

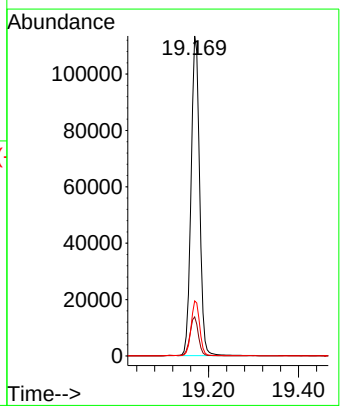


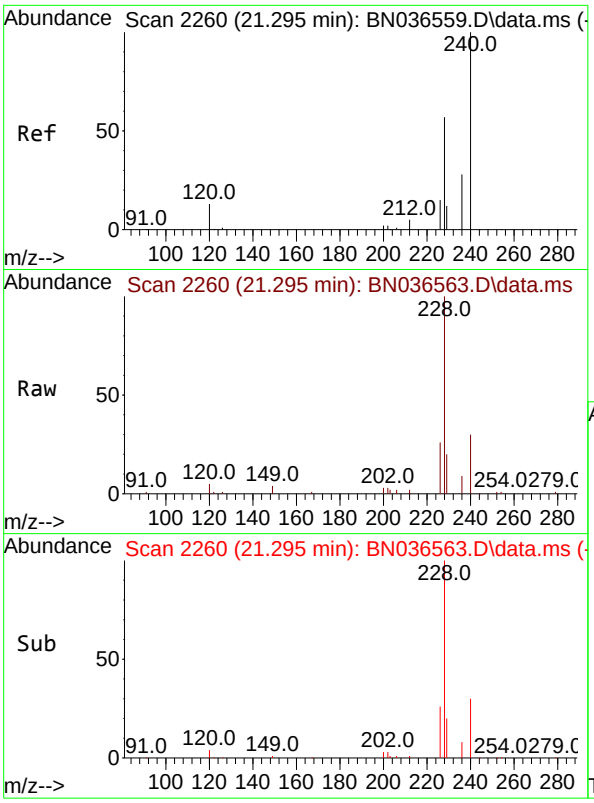


#28
Fluoranthene
Concen: 4.883 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:202 Resp: 149107

Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.4	14.0
203	17.3	13.5	20.3



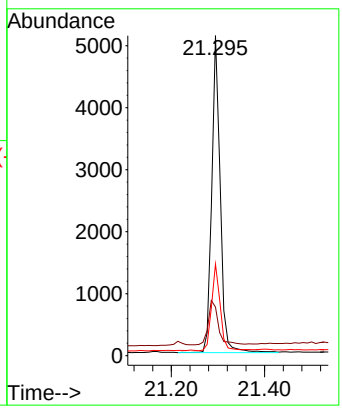


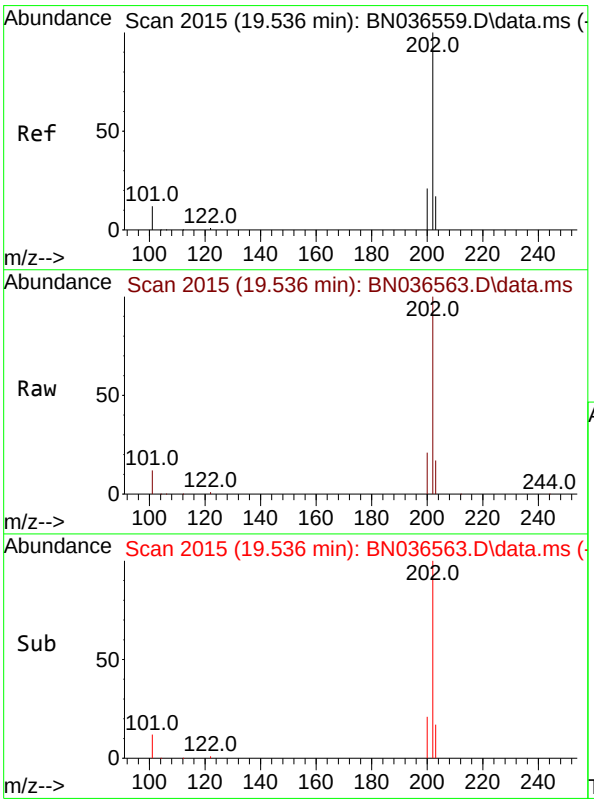
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 6472

Ion	Ratio	Lower	Upper
240	100		
120	15.2	14.6	22.0
236	28.7	24.1	36.1

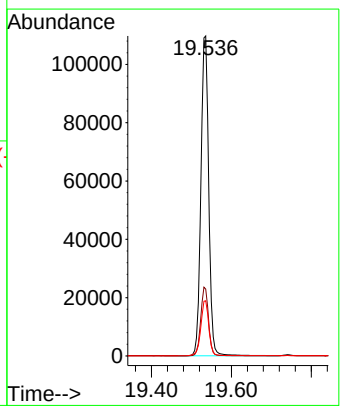


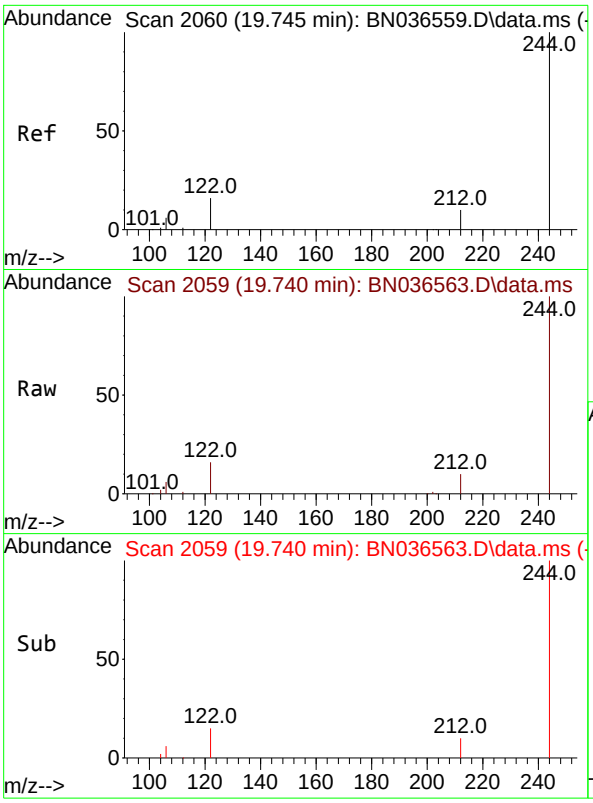


#30
Pyrene
Concen: 4.695 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:202 Resp: 148584

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.7	14.1	21.1



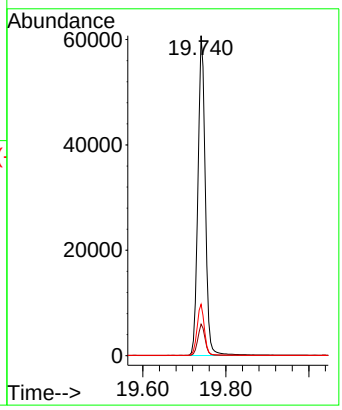


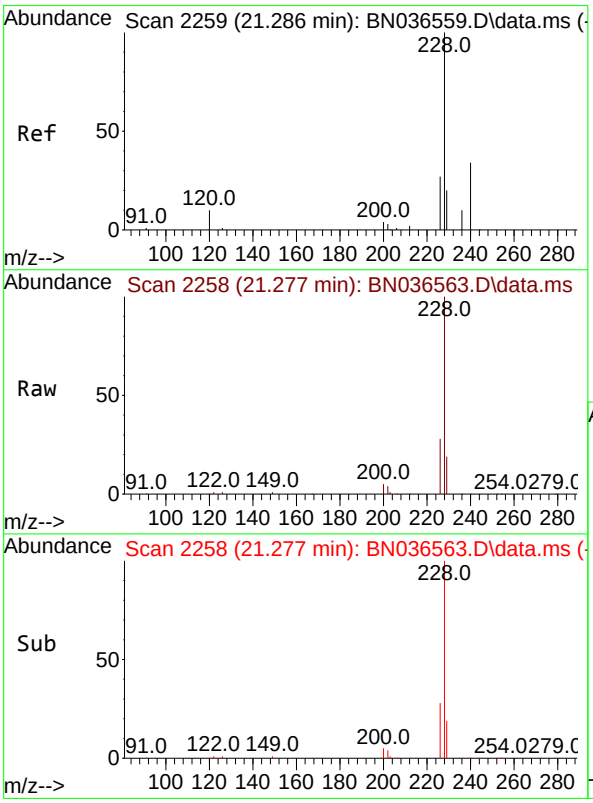
#31
Terphenyl-d14
Concen: 4.832 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 74923

Ion	Ratio	Lower	Upper
244	100		
212	9.9	9.6	14.4
122	16.1	13.9	20.9

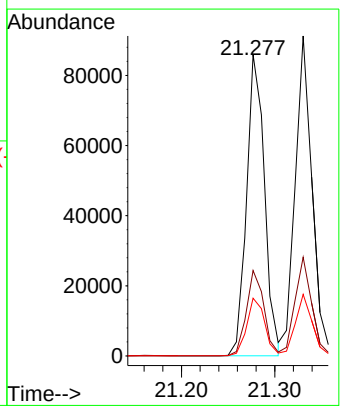


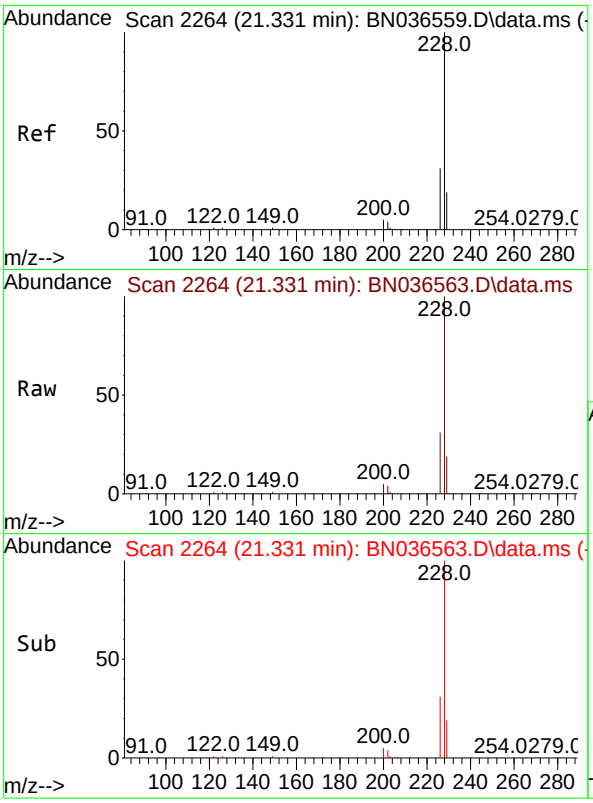


#32
Benzo(a)anthracene
Concen: 5.087 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:228 Resp: 114481

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	19.2	16.6	25.0



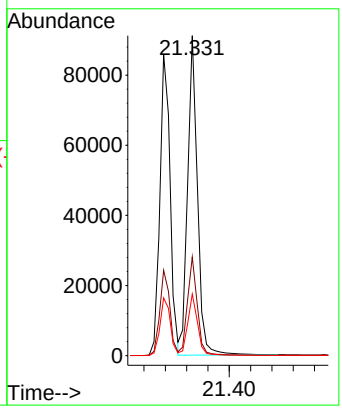


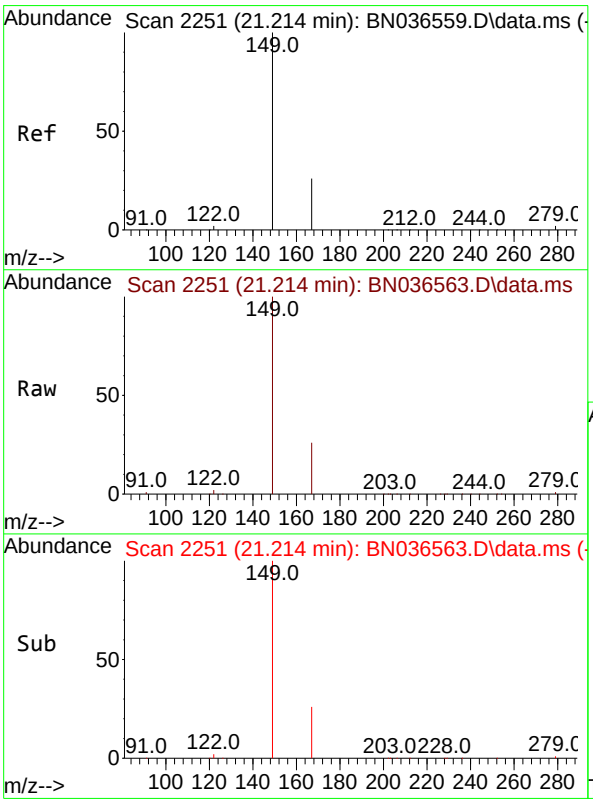
#33
Chrysene
Concen: 4.764 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 117149

Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.3	37.9
229	19.3	15.8	23.8

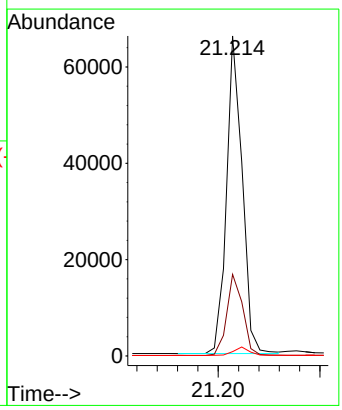


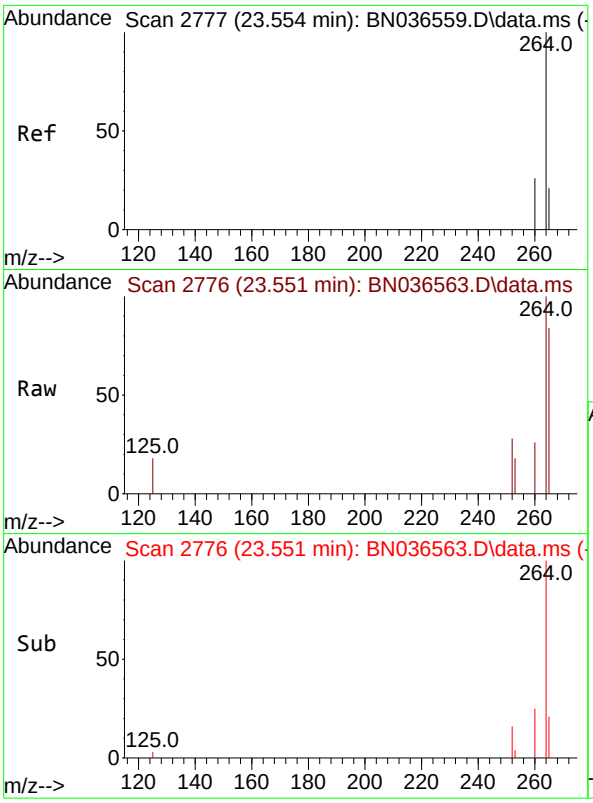


#34
Bis(2-ethylhexyl)phthalate
Concen: 4.390 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:149 Resp: 70345

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.7	31.1
279	2.6	3.6	5.4#



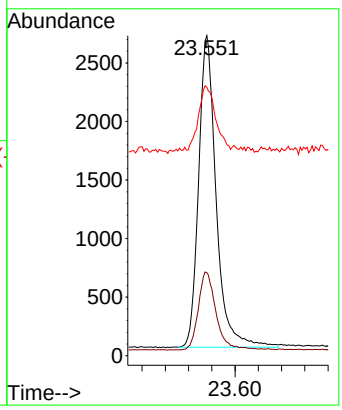


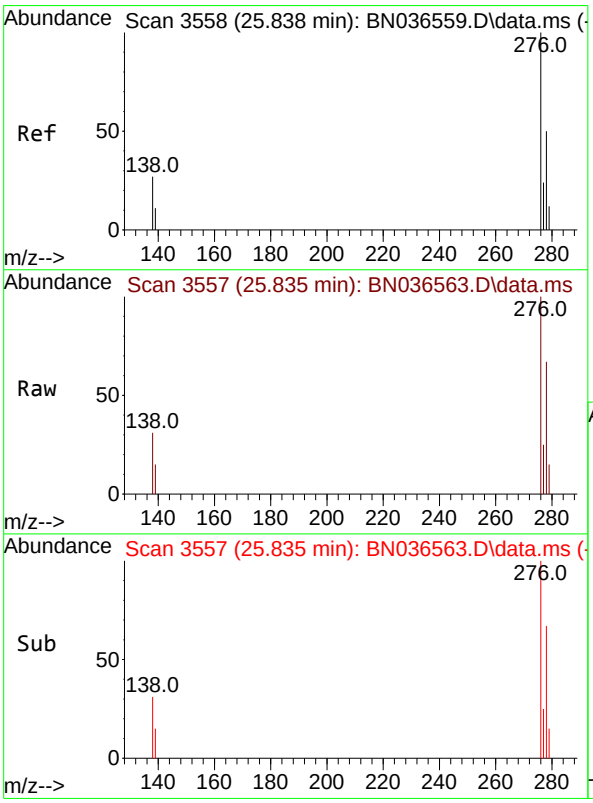
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 5580

Ion	Ratio	Lower	Upper
264	100		
260	25.9	22.6	33.8
265	83.8	88.1	132.1#

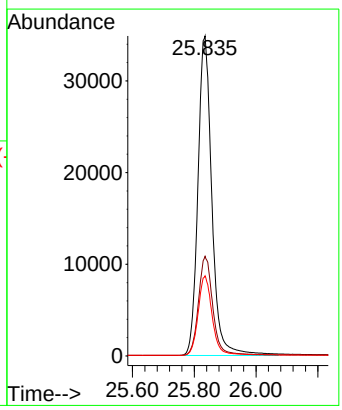


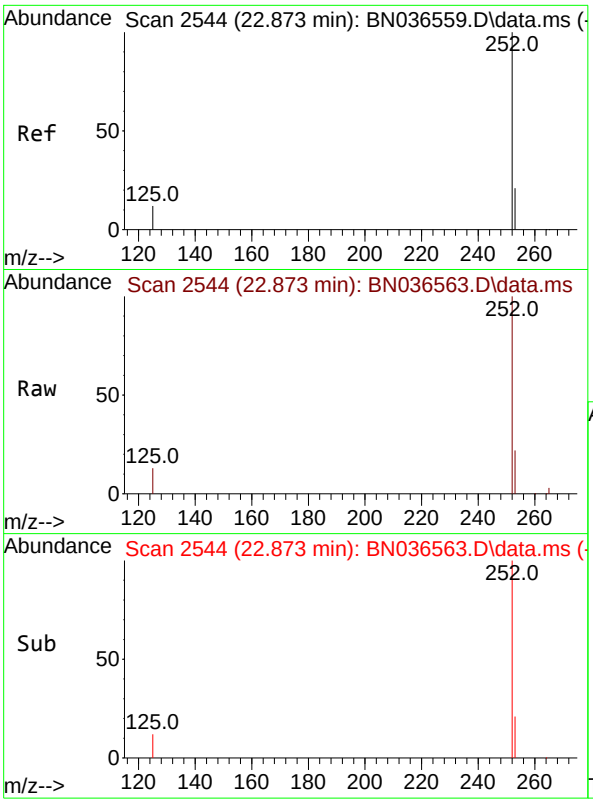


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.440 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:276 Resp: 109561

Ion	Ratio	Lower	Upper
276	100		
138	31.6	23.4	35.2
277	24.9	20.0	30.0



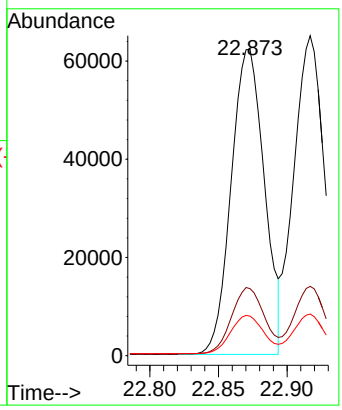


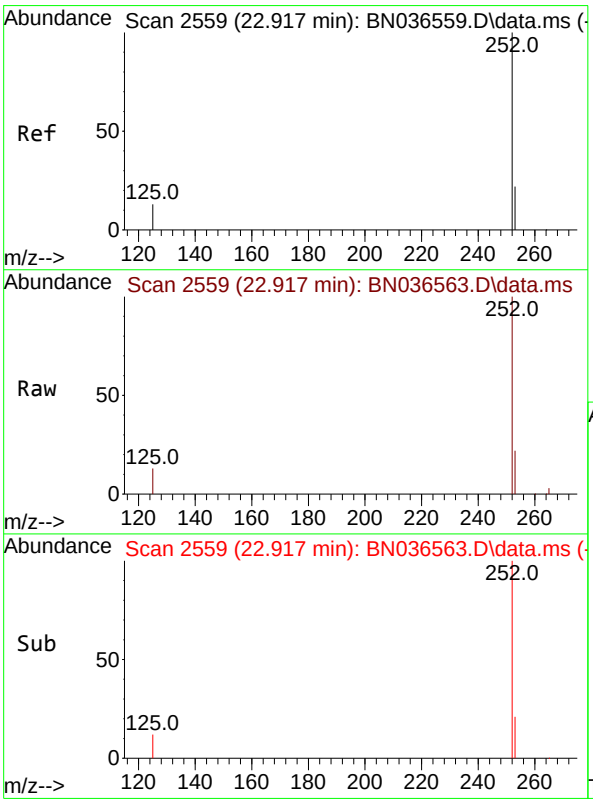
#37
Benzo(b)fluoranthene
Concen: 5.146 ng
RT: 22.873 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 104498

Ion	Ratio	Lower	Upper
252	100		
253	21.9	23.9	35.9#
125	12.9	17.4	26.2#

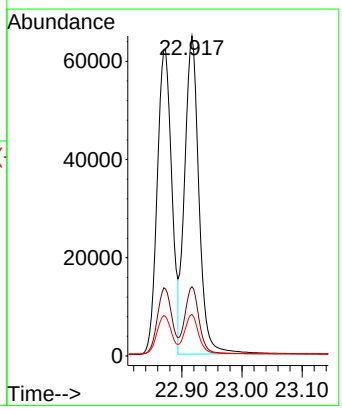


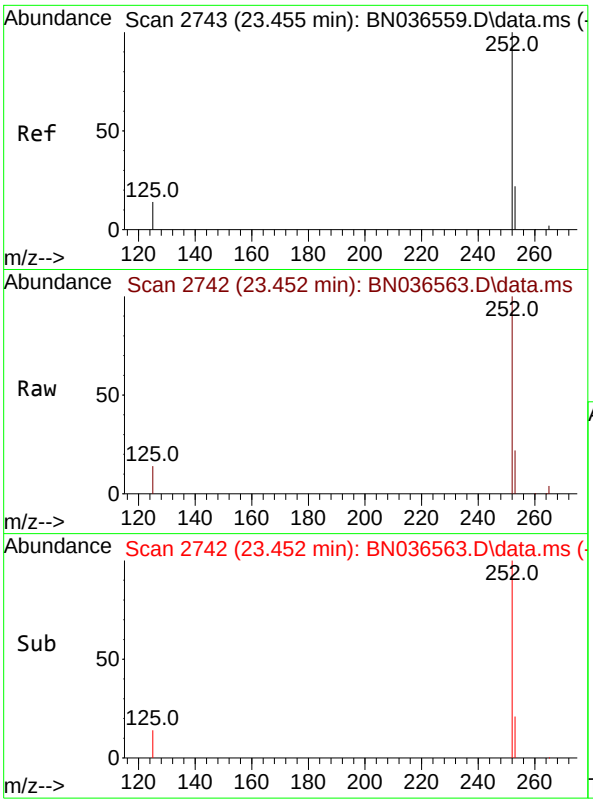


#38
Benzo(k)fluoranthene
Concen: 5.022 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:252 Resp: 106995

Ion	Ratio	Lower	Upper
252	100		
253	21.6	24.6	36.8#
125	13.0	17.8	26.8#



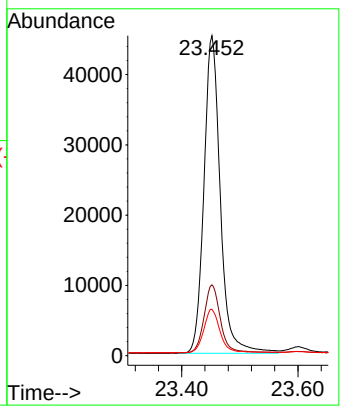


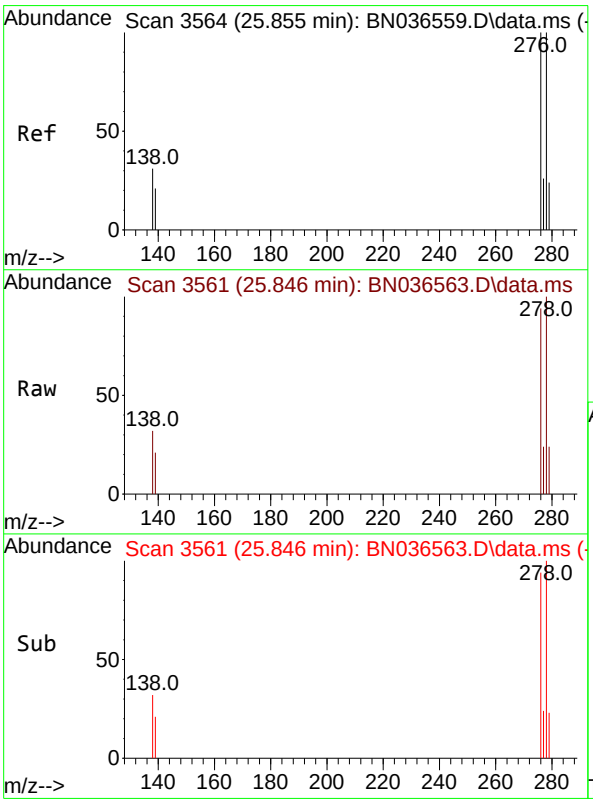
#39
Benzo(a)pyrene
Concen: 5.170 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 88413

Ion	Ratio	Lower	Upper
252	100		
253	22.2	27.8	41.8#
125	14.5	22.7	34.1#

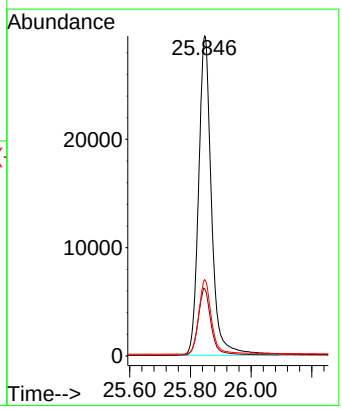


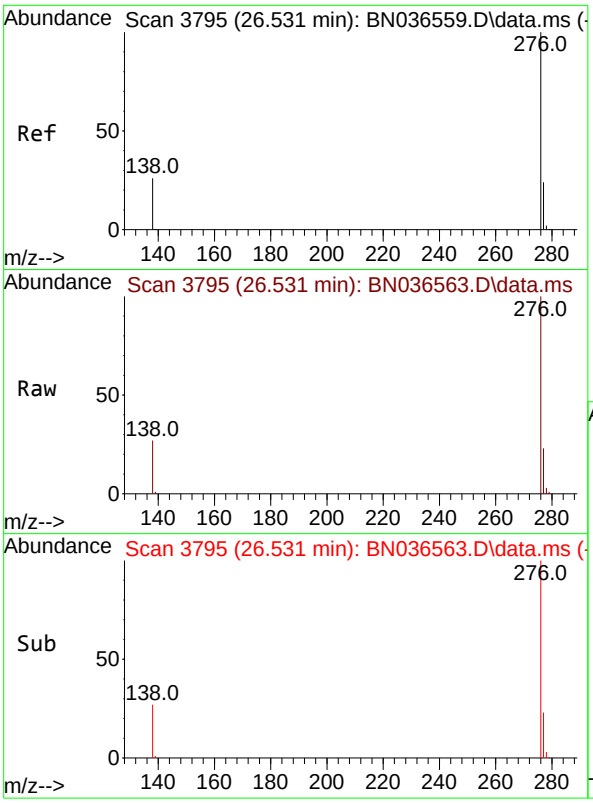


#40
Dibenzo(a,h)anthracene
Concen: 5.568 ng
RT: 25.846 min Scan# 3561
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:278 Resp: 87308

Ion	Ratio	Lower	Upper
278	100		
139	21.0	20.8	31.2
279	23.9	28.8	43.2#



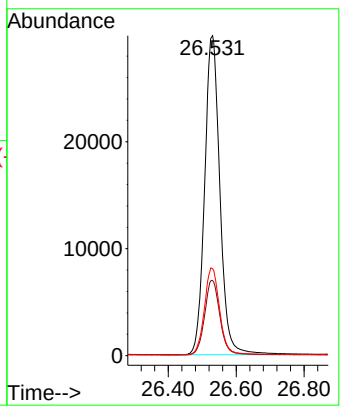


#41
Benzo(g,h,i)perylene
Concen: 5.189 ng
RT: 26.531 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 93067

Ion	Ratio	Lower	Upper
276	100		
277	23.4	22.2	33.4
138	27.1	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

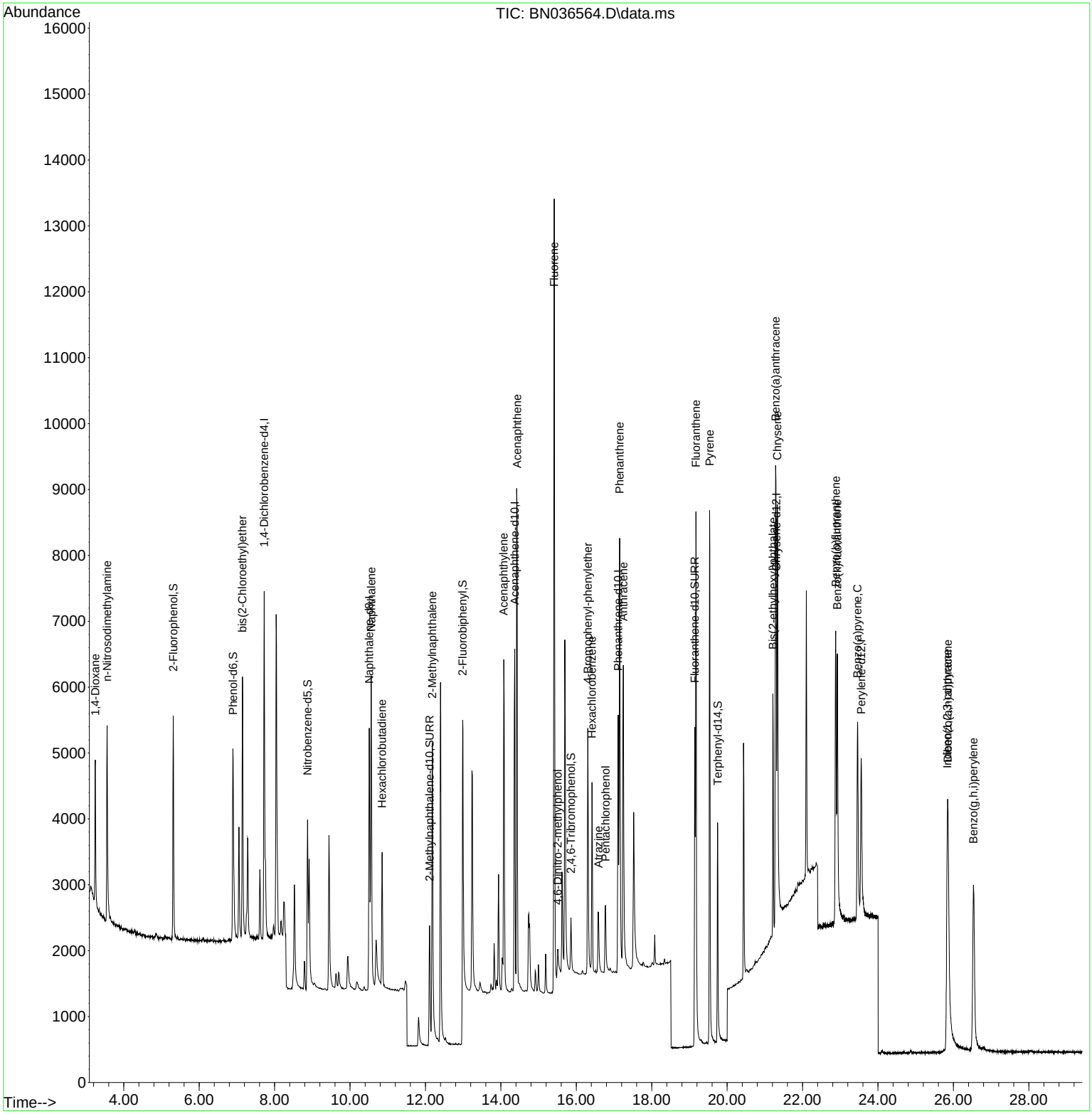
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng		0.00
29) Chrysene-d12	21.304	240	4219	0.400	ng		0.00
35) Perylene-d12	23.554	264	3835	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	2418	0.417	ng		0.00
5) Phenol-d6	6.901	99	2744	0.383	ng		0.00
8) Nitrobenzene-d5	8.875	82	2356	0.384	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	3345	0.399	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	511	0.365	ng		0.00
15) 2-Fluorobiphenyl	12.988	172	7753	0.432	ng		0.00
27) Fluoranthene-d10	19.141	212	6152	0.415	ng		0.00
31) Terphenyl-d14	19.750	244	3880	0.384	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	1297	0.470	ng		97
3) n-Nitrosodimethylamine	3.557	42	2284	0.409	ng		96
6) bis(2-Chloroethyl)ether	7.147	93	2945	0.398	ng		100
9) Naphthalene	10.562	128	6710	0.405	ng		99
10) Hexachlorobutadiene	10.850	225	1694	0.434	ng	#	98
12) 2-Methylnaphthalene	12.182	142	4064	0.385	ng		99
16) Acenaphthylene	14.077	152	6059	0.416	ng		99
17) Acenaphthene	14.430	154	4035	0.423	ng		99
18) Fluorene	15.414	166	5226	0.405	ng		99
20) 4,6-Dinitro-2-methylph...	15.510	198	404	0.420	ng		94
21) 4-Bromophenyl-phenylether	16.304	248	1524	0.421	ng		96
22) Hexachlorobenzene	16.416	284	1987	0.455	ng		99
23) Atrazine	16.590	200	1165	0.401	ng		95
24) Pentachlorophenol	16.776	266	699	0.351	ng		95
25) Phenanthrene	17.148	178	7229	0.417	ng		99
26) Anthracene	17.248	178	6358	0.407	ng		99
28) Fluoranthene	19.174	202	8068	0.414	ng		100
30) Pyrene	19.536	202	8156	0.395	ng		100
32) Benzo(a)anthracene	21.286	228	5814	0.396	ng		100
33) Chrysene	21.331	228	6940	0.433	ng		98
34) Bis(2-ethylhexyl)phtha...	21.214	149	3594	0.344	ng		98
36) Indeno(1,2,3-cd)pyrene	25.841	276	6410	0.463	ng		98
37) Benzo(b)fluoranthene	22.879	252	5902	0.423	ng		99
38) Benzo(k)fluoranthene	22.923	252	6286	0.429	ng		98
39) Benzo(a)pyrene	23.458	252	5147	0.438	ng		99
40) Dibenzo(a,h)anthracene	25.855	278	4740	0.440	ng		97
41) Benzo(g,h,i)perylene	26.534	276	5877	0.477	ng		97

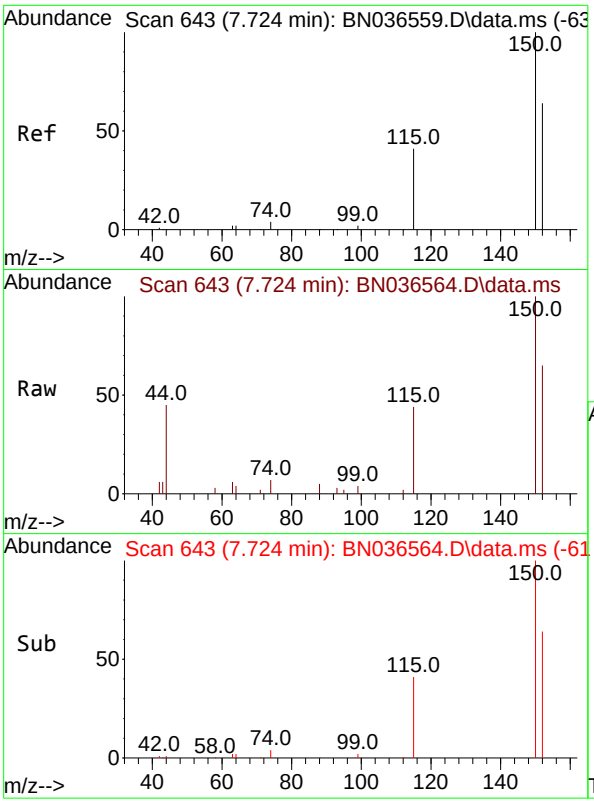
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



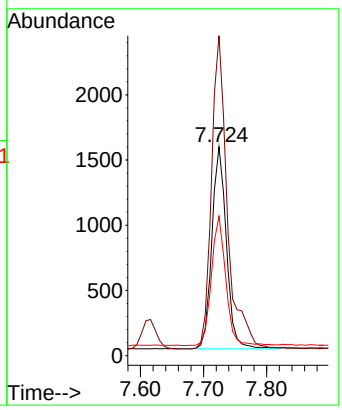


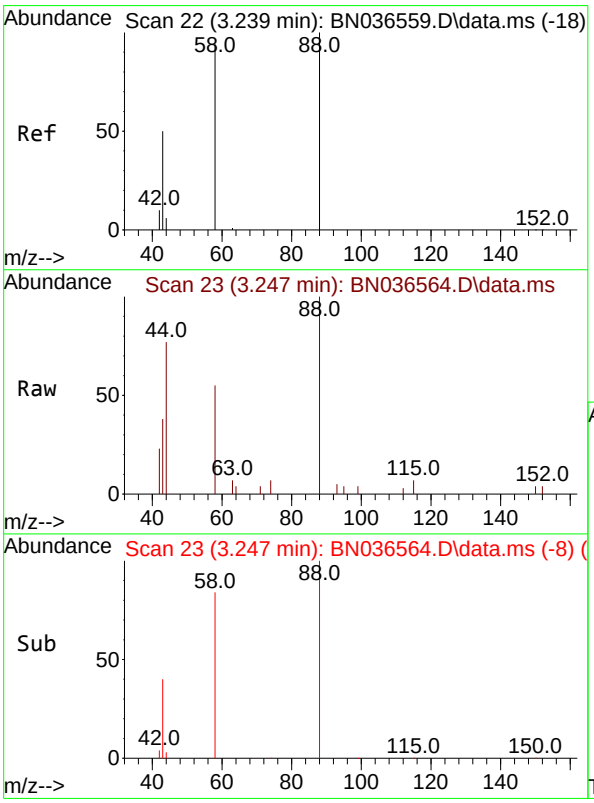
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:152 Resp: 2488

Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	66.7	54.3	81.5

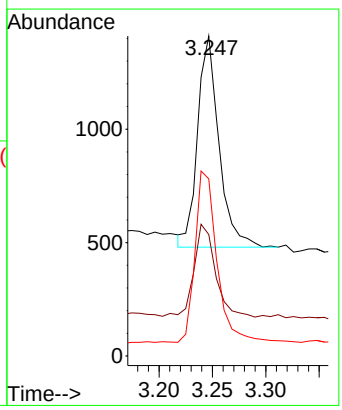


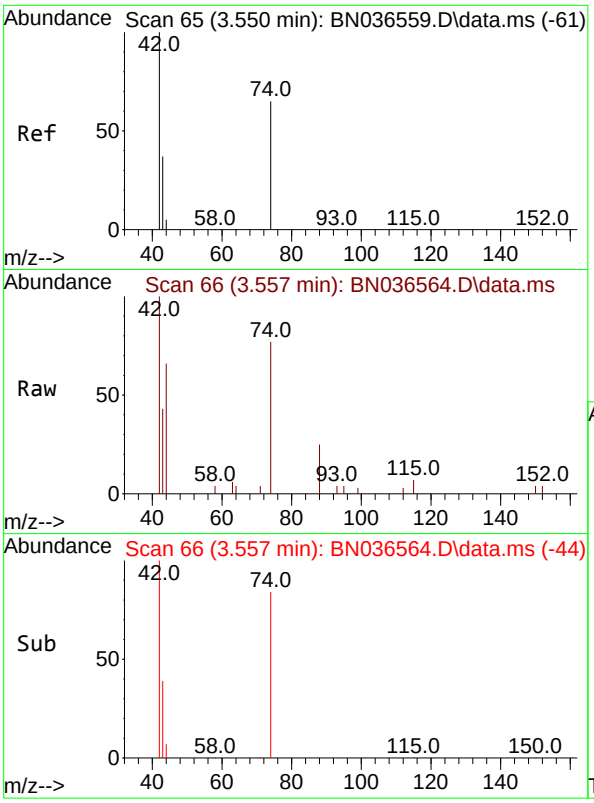


#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 88 Resp: 1297

Ion	Ratio	Lower	Upper
88	100		
43	44.1	37.8	56.8
58	82.4	67.4	101.2



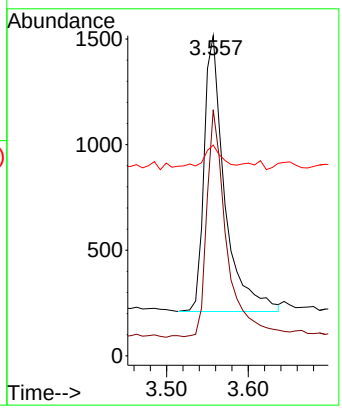


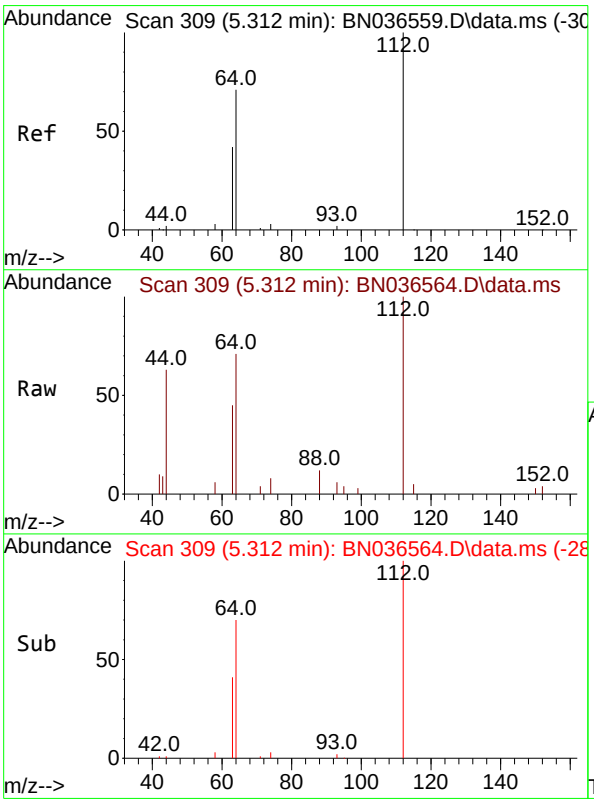
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion: 42 Resp: 2284

Ion	Ratio	Lower	Upper
42	100		
74	79.2	60.6	90.8
44	8.2	6.3	9.5

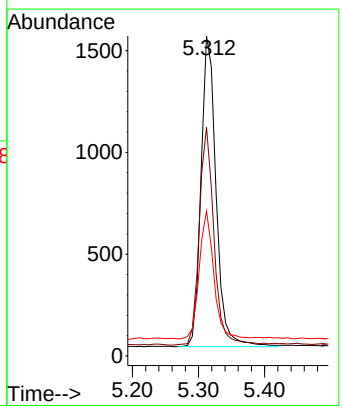


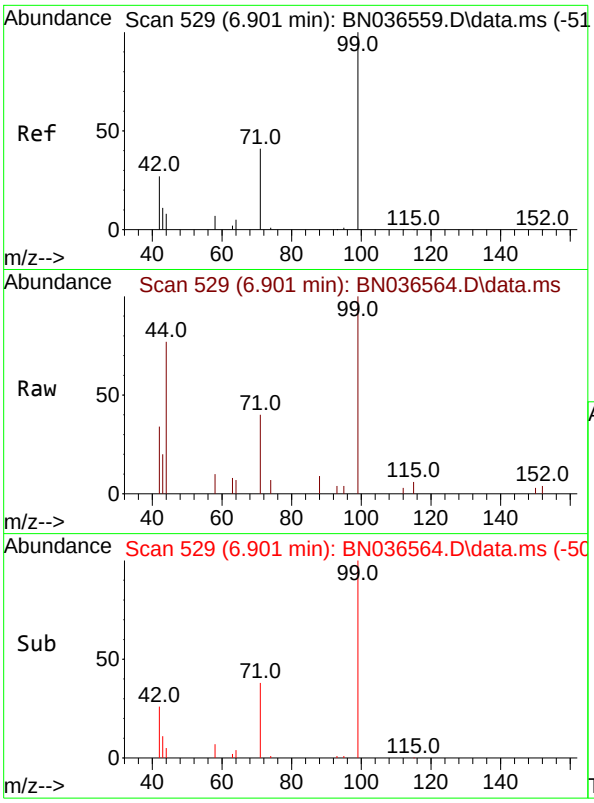


#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:112 Resp: 2418

Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.1	79.7
63	39.8	31.8	47.8



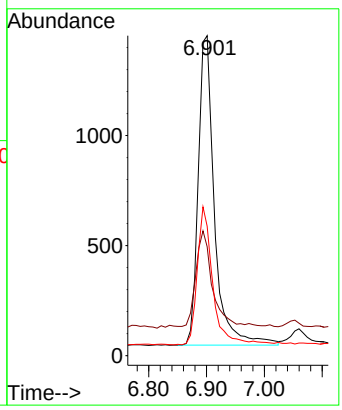


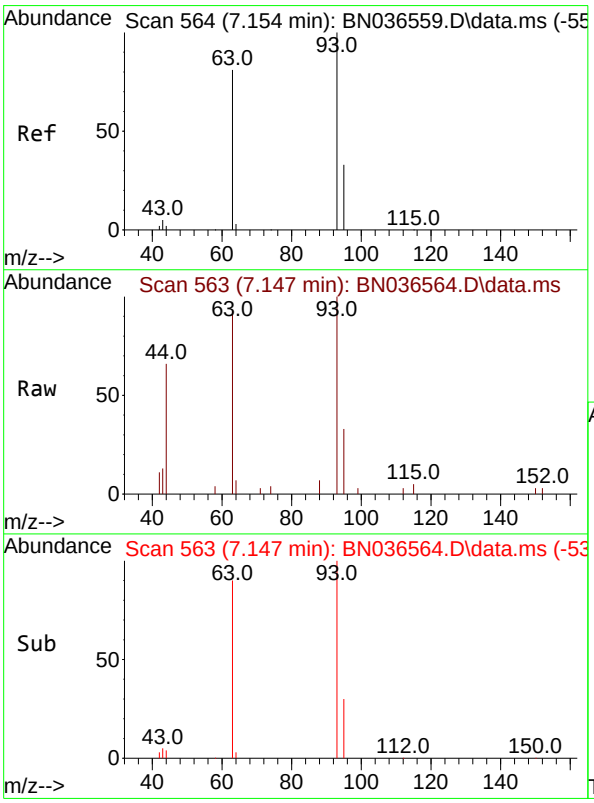
#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion: 99 Resp: 2744

Ion	Ratio	Lower	Upper
99	100		
42	32.1	26.5	39.7
71	42.9	34.1	51.1

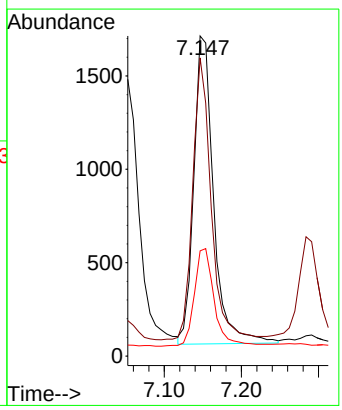


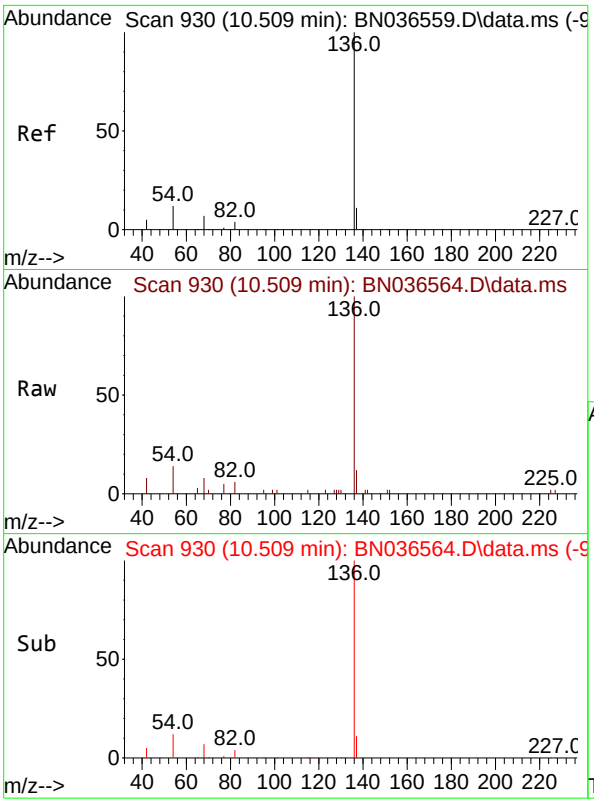


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 93 Resp: 2945

Ion	Ratio	Lower	Upper
93	100		
63	85.1	67.7	101.5
95	31.7	25.6	38.4



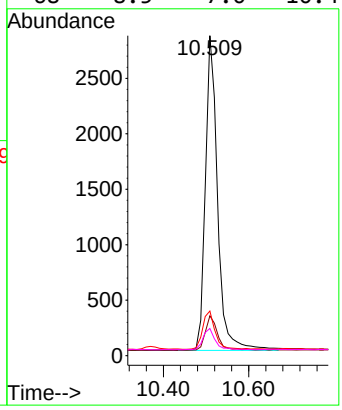


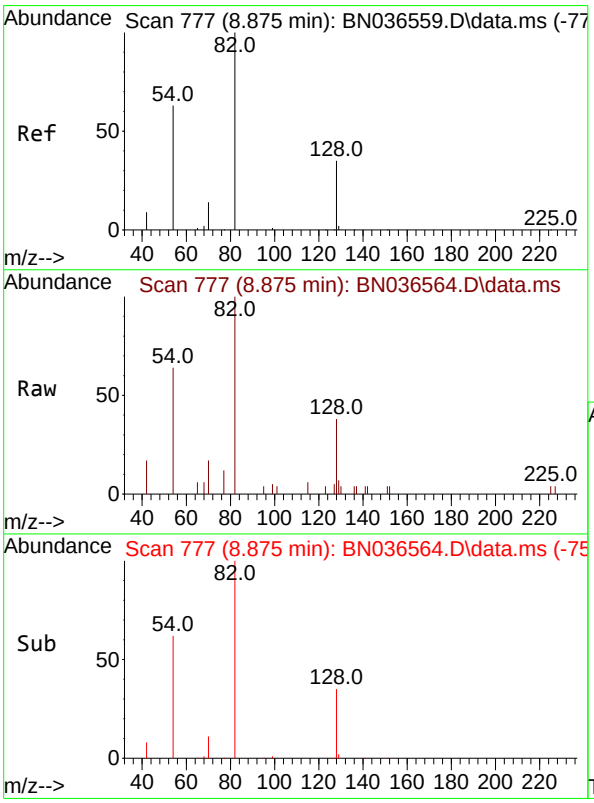
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:136 Resp: 5634

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.9	11.5	17.3
68	8.5	7.0	10.4

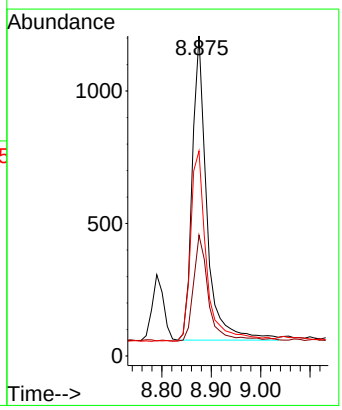


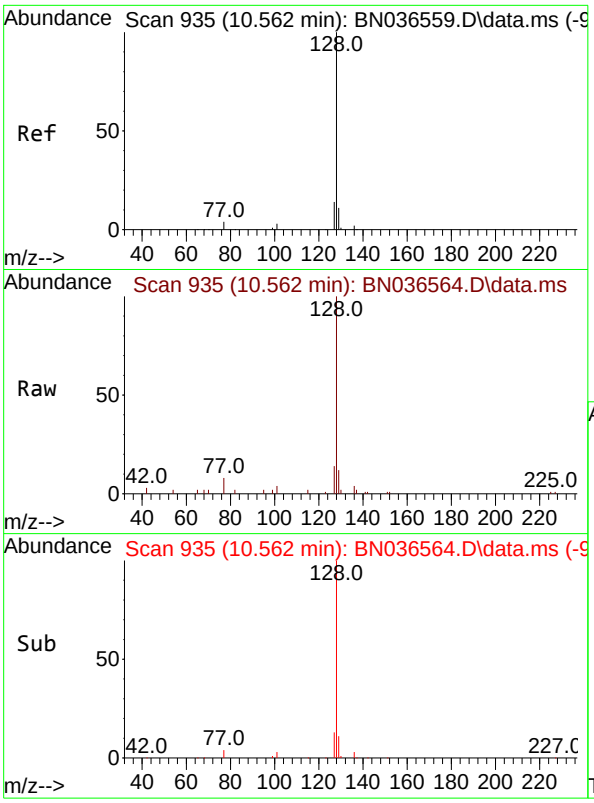


#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 82 Resp: 2356

Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.6	45.8
54	64.1	52.2	78.4



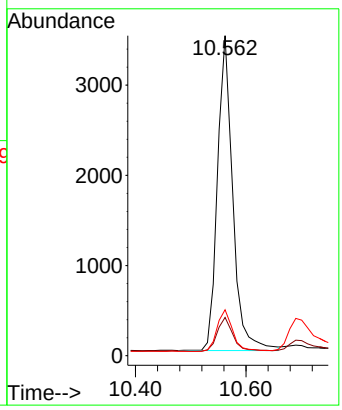


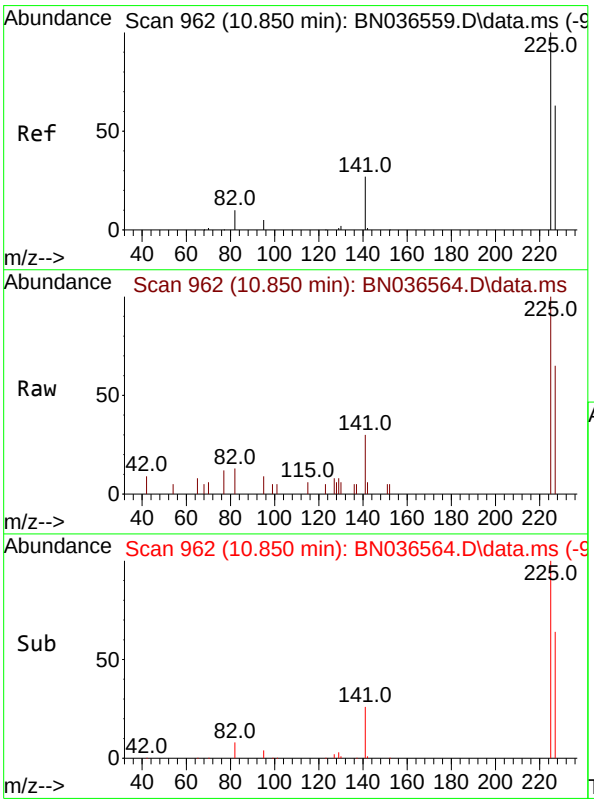
#9
Naphthalene
Concen: 0.405 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:128 Resp: 6710

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.3	11.8	17.8

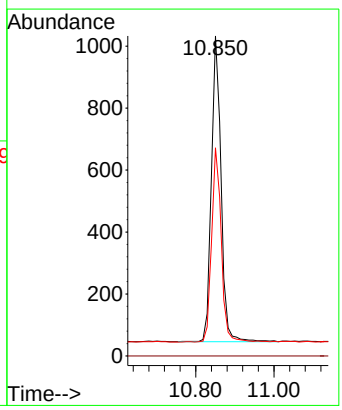


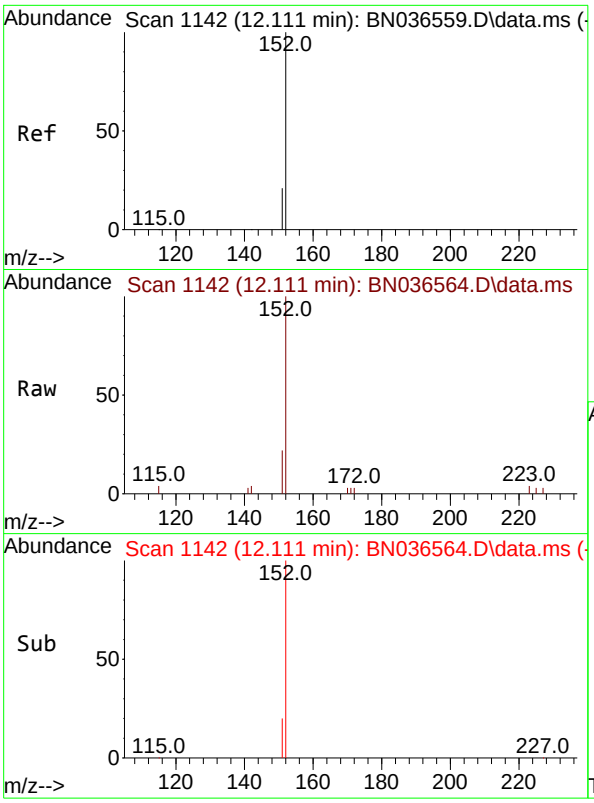


#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:225 Resp: 1694

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.8	77.8



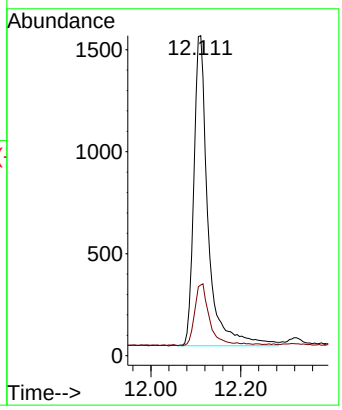


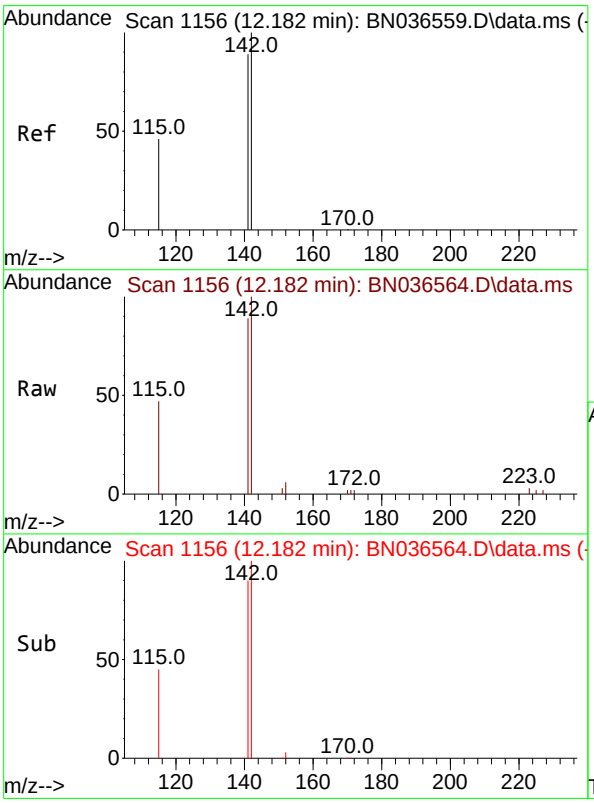
#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:152 Resp: 3345

Ion	Ratio	Lower	Upper
152	100		
151	20.2	17.0	25.6

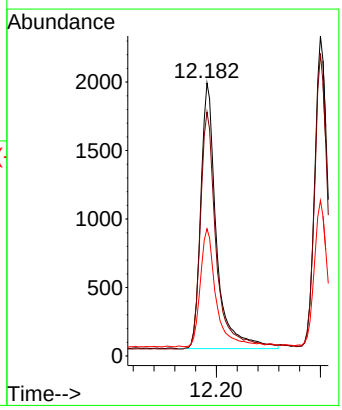


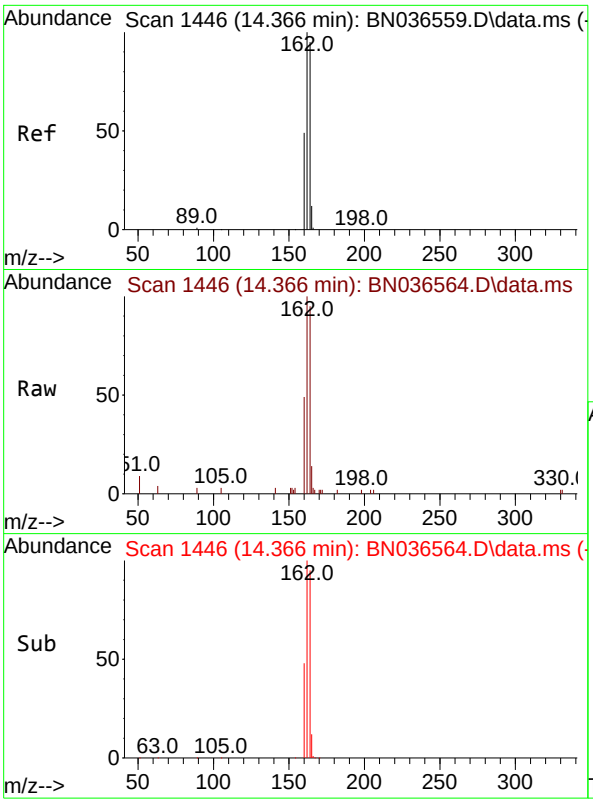


#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:142 Resp: 4064

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.7	107.5
115	46.6	38.3	57.5



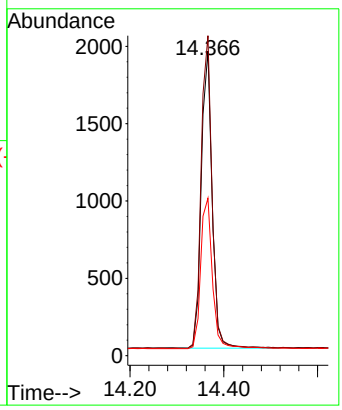


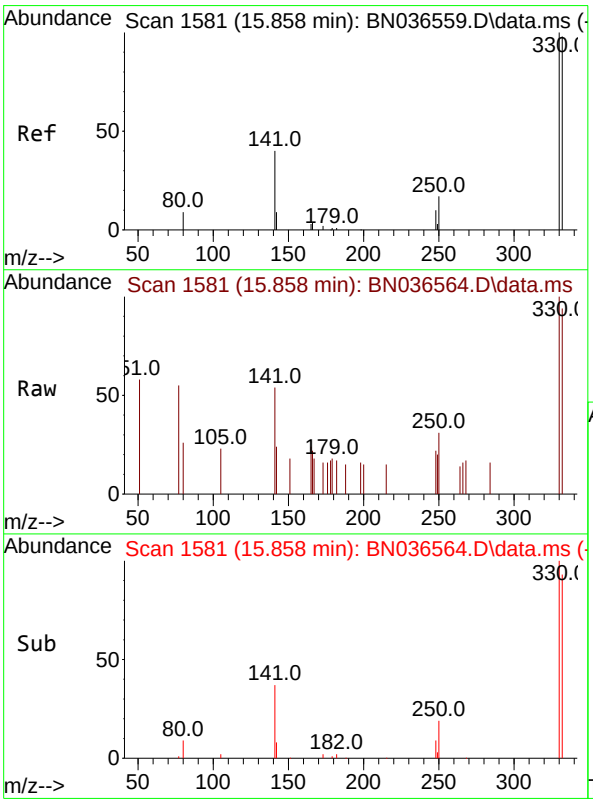
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:164 Resp: 3085

Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.2	126.2
160	51.7	42.2	63.2

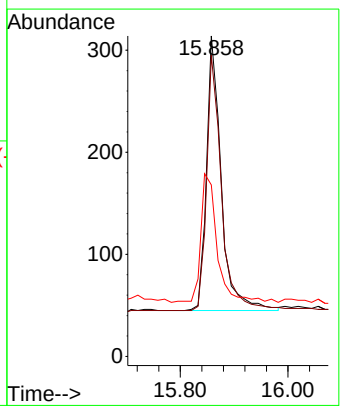


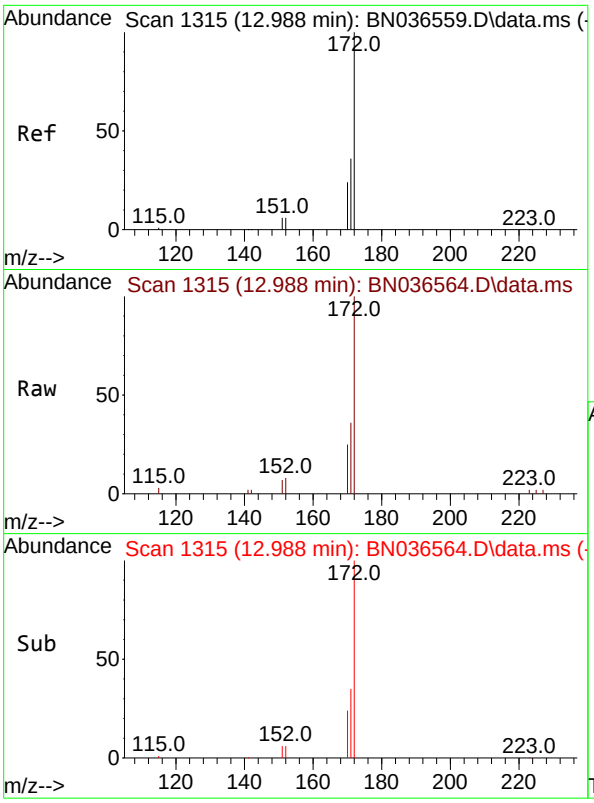


#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:330 Resp: 511

Ion	Ratio	Lower	Upper
330	100		
332	93.9	75.2	112.8
141	51.5	43.4	65.2



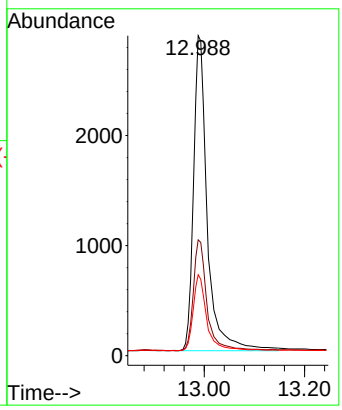


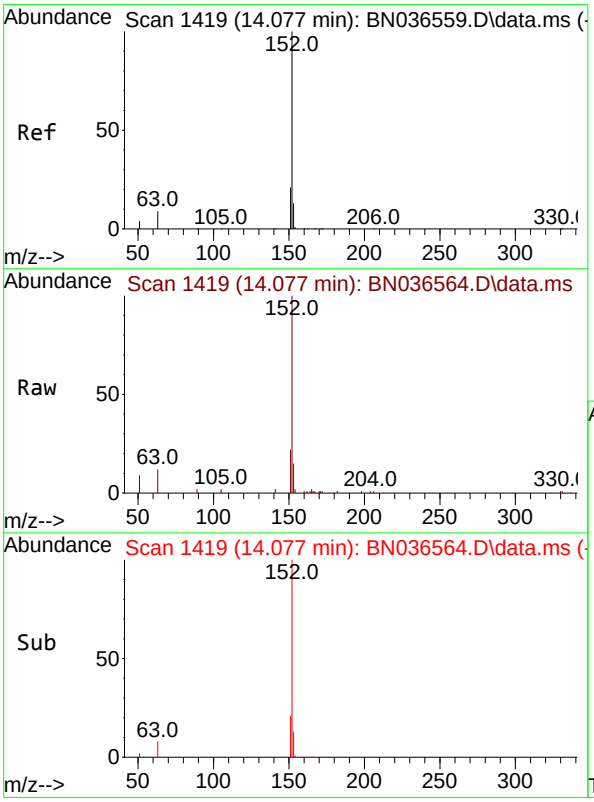
#15
2-Fluorobiphenyl
Concen: 0.432 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:172 Resp: 7753

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	25.3	20.2	30.4

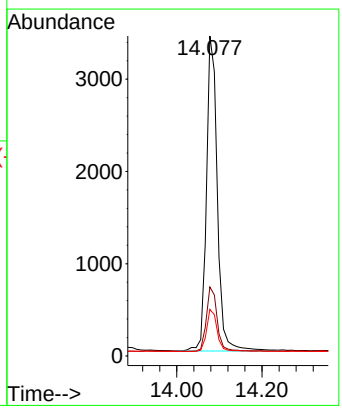


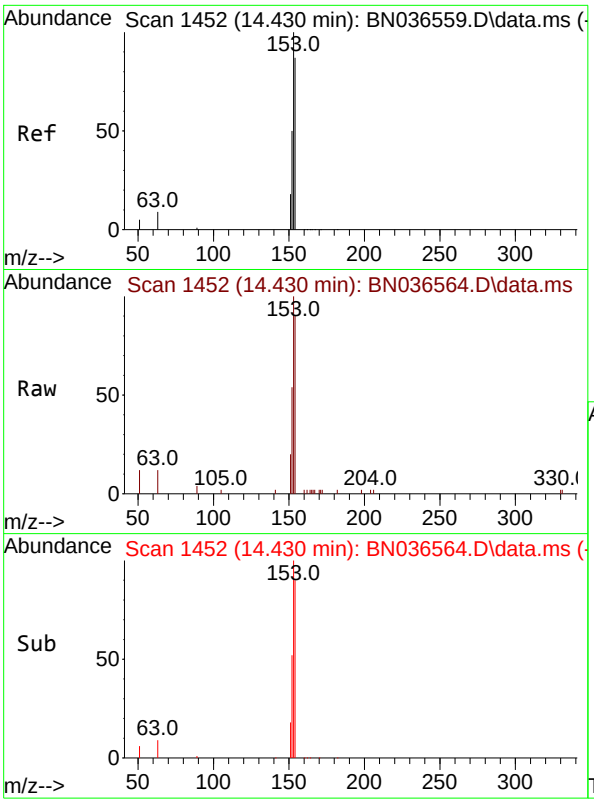


#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:152 Resp: 6059

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.9	10.6	15.8



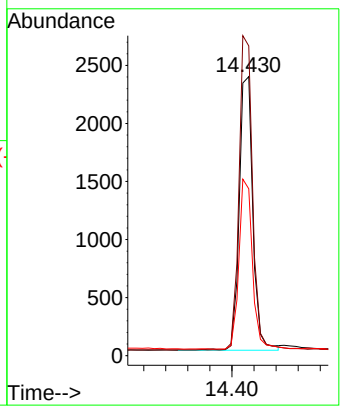


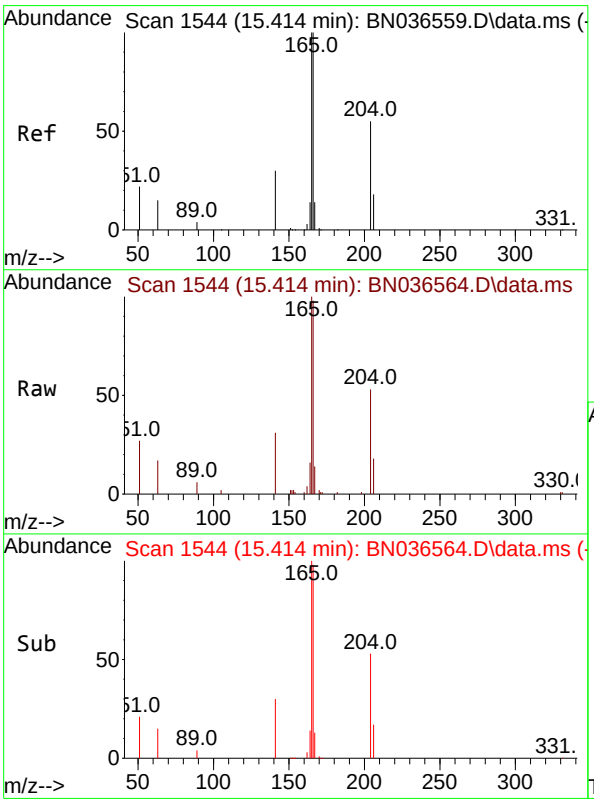
#17
Acenaphthene
Concen: 0.423 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:154 Resp: 4035

Ion	Ratio	Lower	Upper
154	100		
153	115.5	94.1	141.1
152	61.9	49.8	74.6

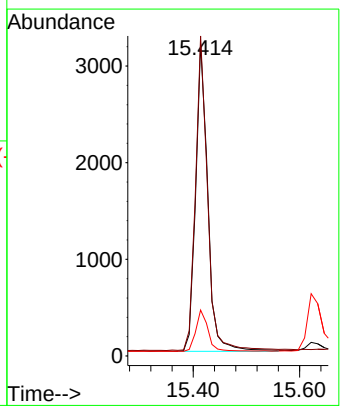


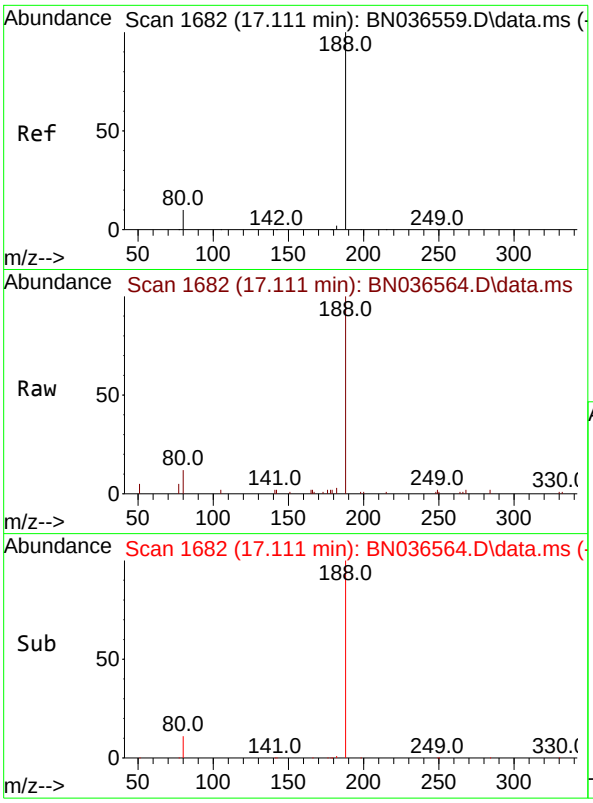


#18
Fluorene
Concen: 0.405 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:166 Resp: 5226

Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	13.1	10.6	15.8



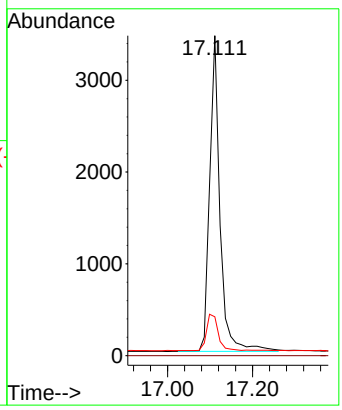


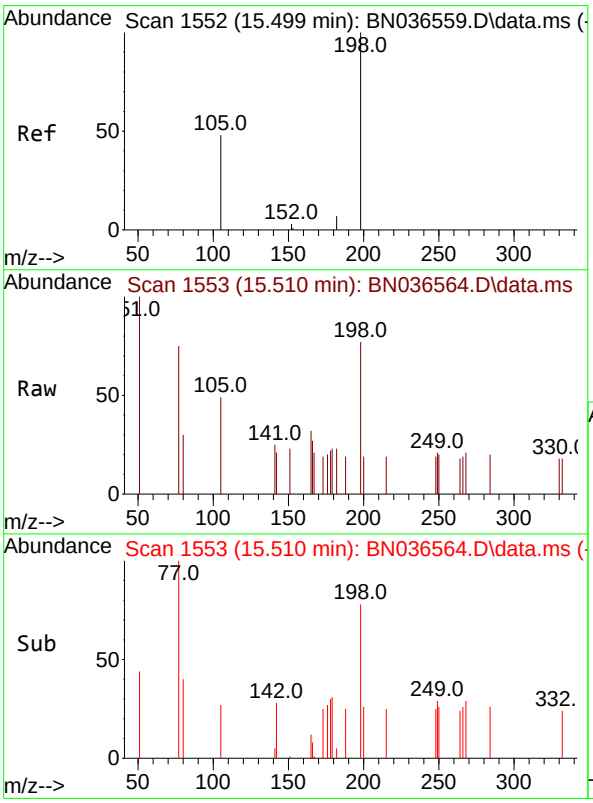
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:188 Resp: 5778

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	8.8	13.2

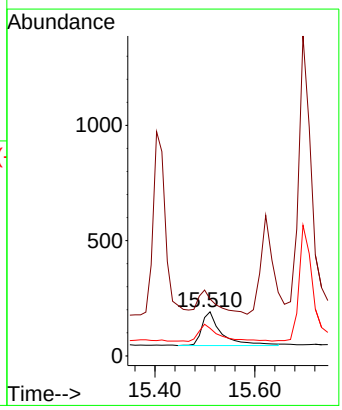


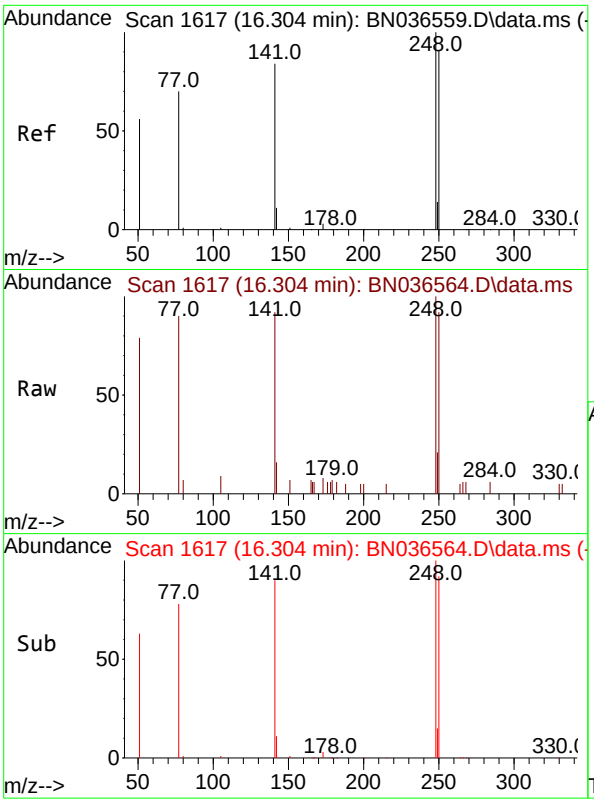


#20
4,6-Dinitro-2-methylphenol
Concen: 0.420 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:198 Resp: 404

Ion	Ratio	Lower	Upper
198	100		
51	129.3	107.9	161.9
105	62.8	56.2	84.2



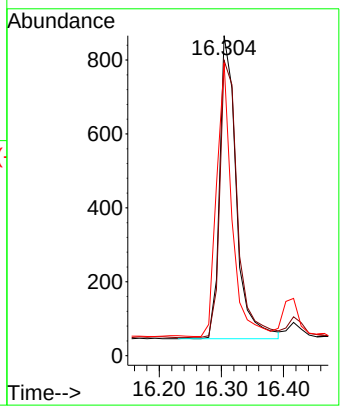


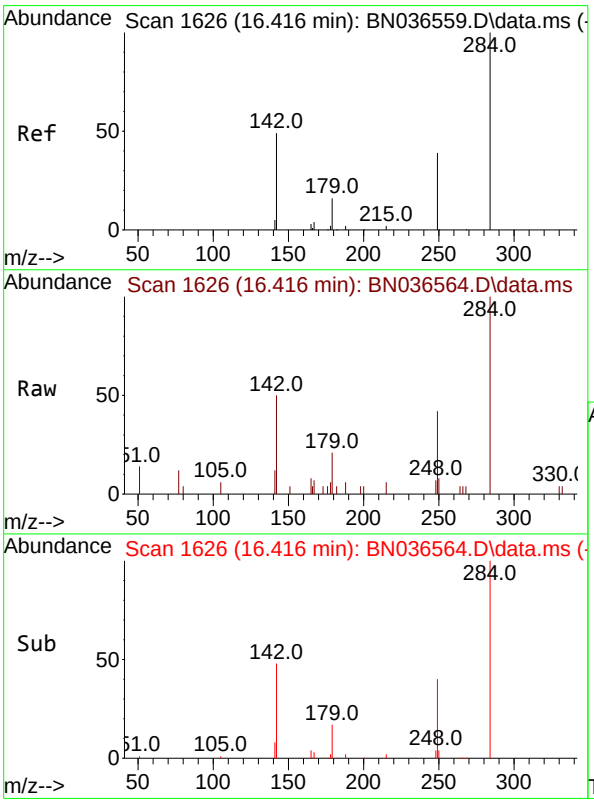
#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:248 Resp: 1524

Ion	Ratio	Lower	Upper
248	100		
250	92.3	73.0	109.6
141	91.6	68.6	103.0

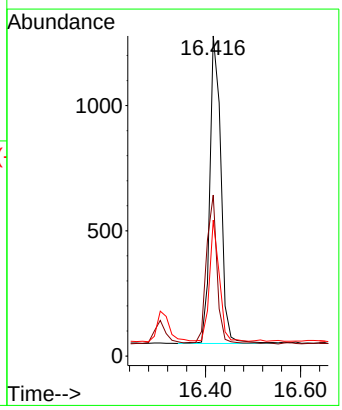


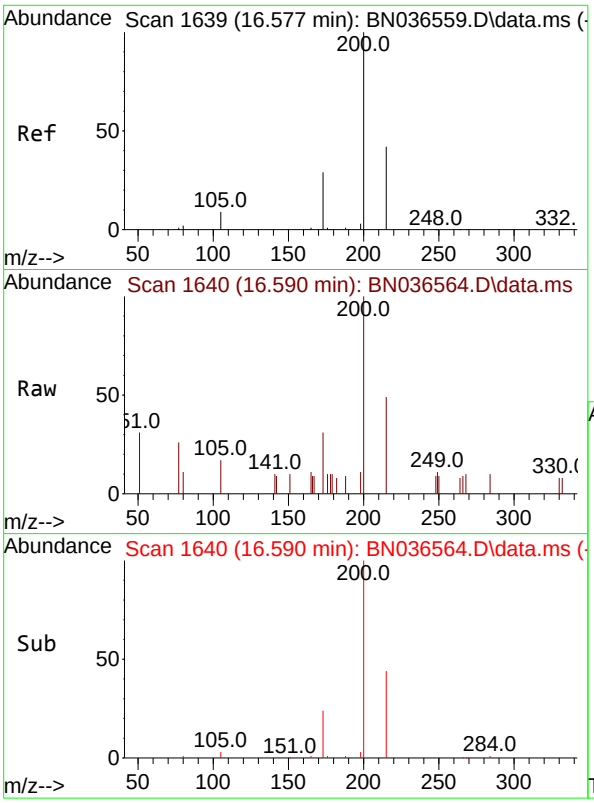


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:284 Resp: 1987

Ion	Ratio	Lower	Upper
284	100		
142	47.5	37.0	55.4
249	34.9	28.1	42.1



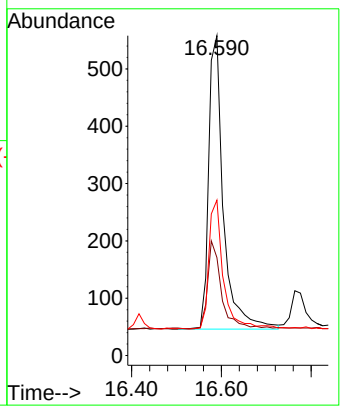


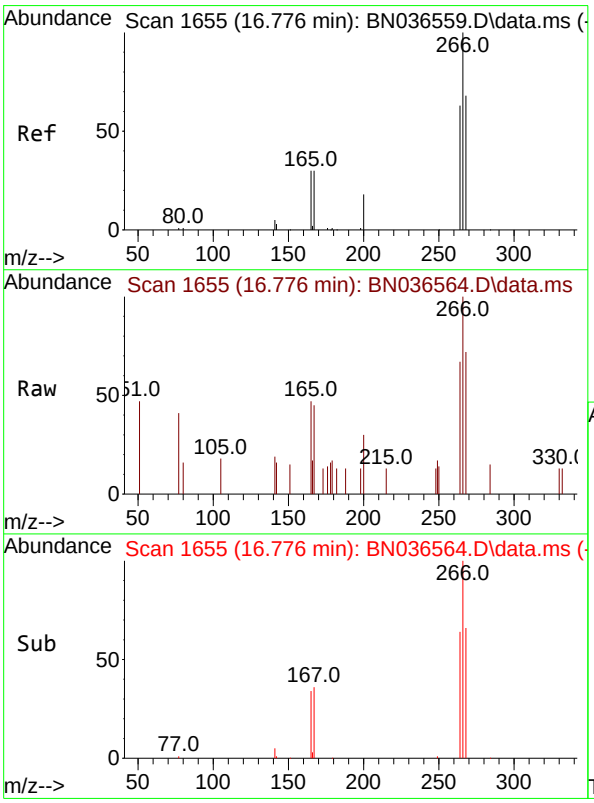
#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:200 Resp: 1165

Ion	Ratio	Lower	Upper
200	100		
173	30.6	27.3	40.9
215	48.6	36.8	55.2

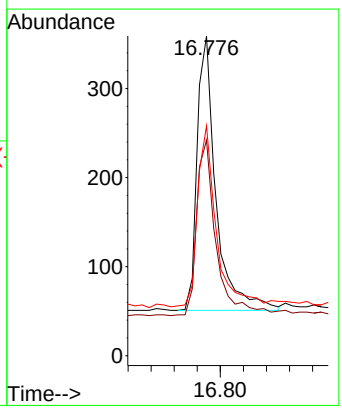


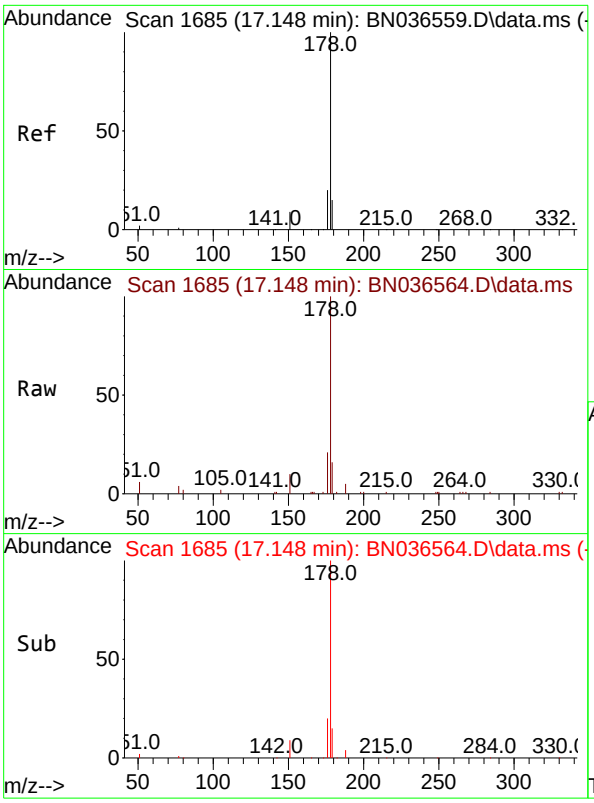


#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:266 Resp: 699

Ion	Ratio	Lower	Upper
266	100		
264	67.1	49.6	74.4
268	66.7	50.9	76.3



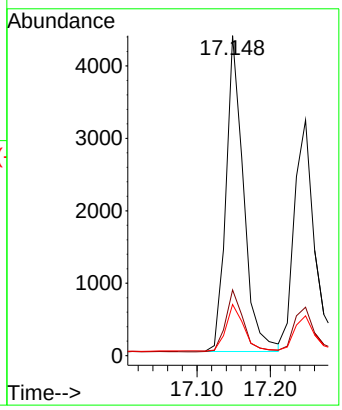


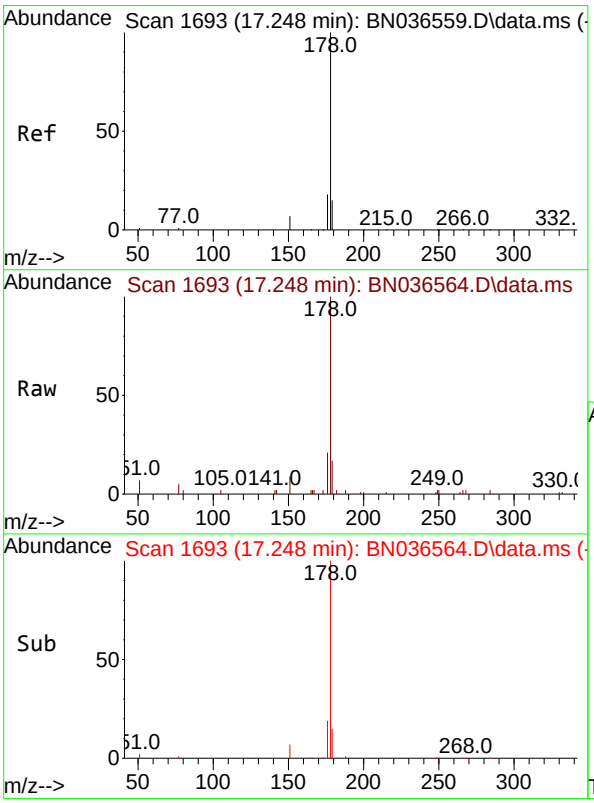
#25
Phenanthrene
Concen: 0.417 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:178 Resp: 7229

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.0	12.2	18.4

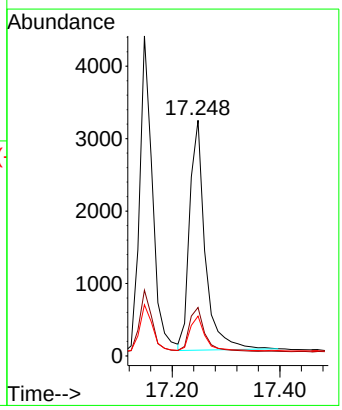


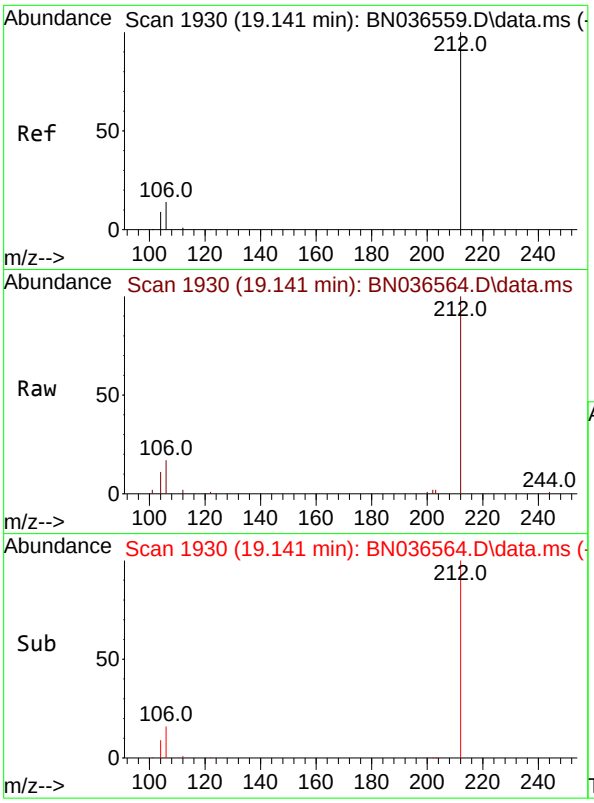


#26
Anthracene
Concen: 0.407 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:178 Resp: 6358

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	14.8	12.6	18.8



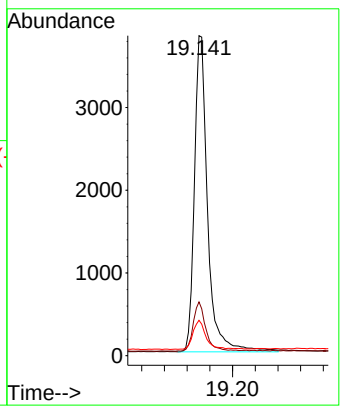


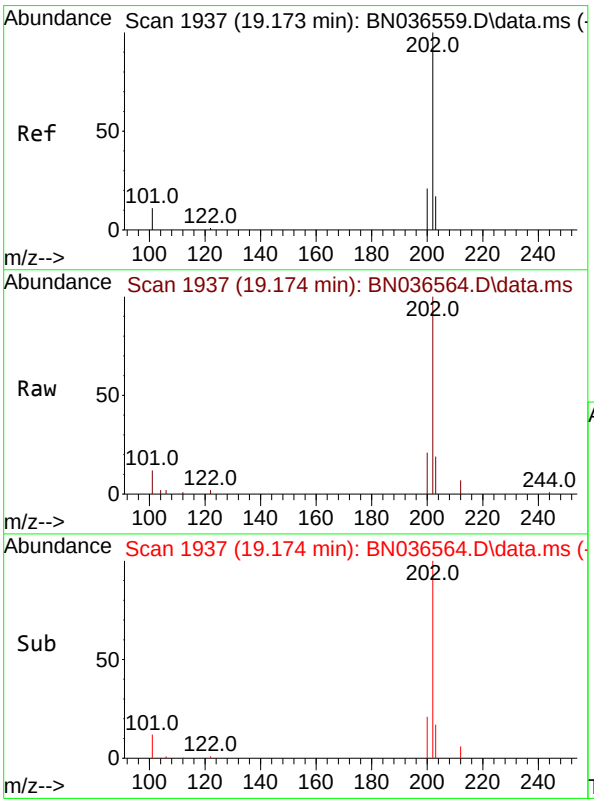
#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:212 Resp: 6152

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	8.8	7.3	10.9

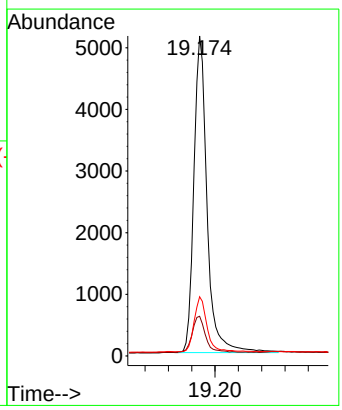


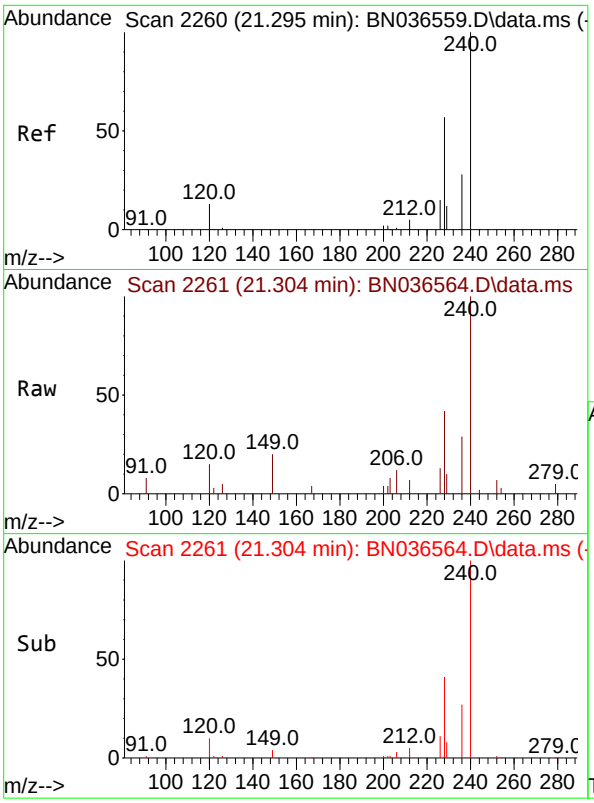


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8068

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.4	14.0
203	16.8	13.5	20.3



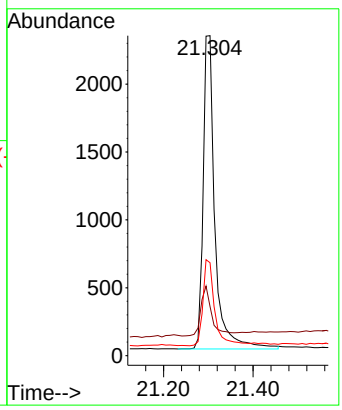


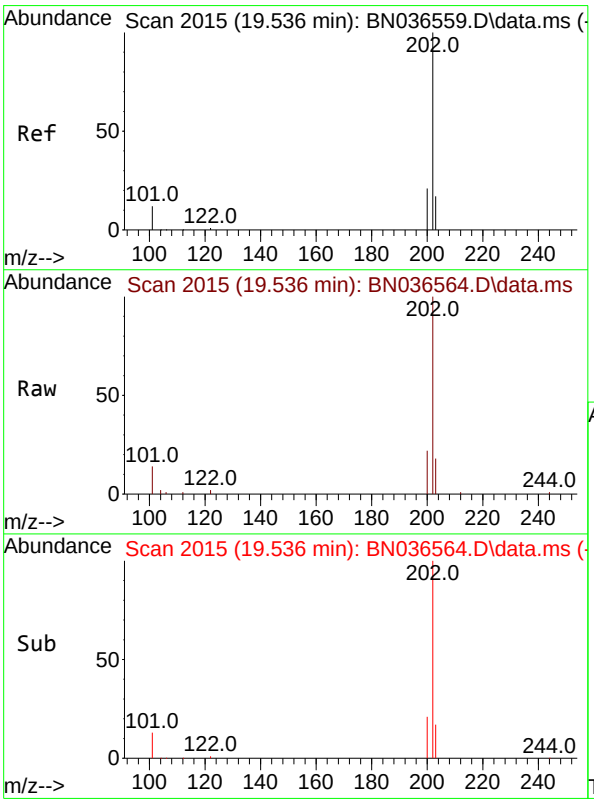
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:240 Resp: 4219

Ion	Ratio	Lower	Upper
240	100		
120	15.4	14.6	22.0
236	29.1	24.1	36.1

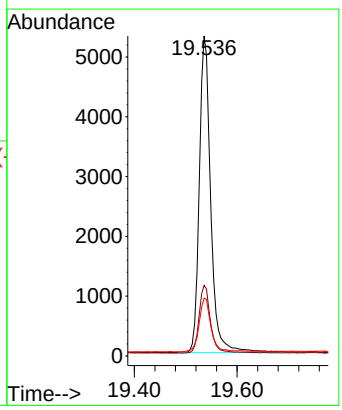


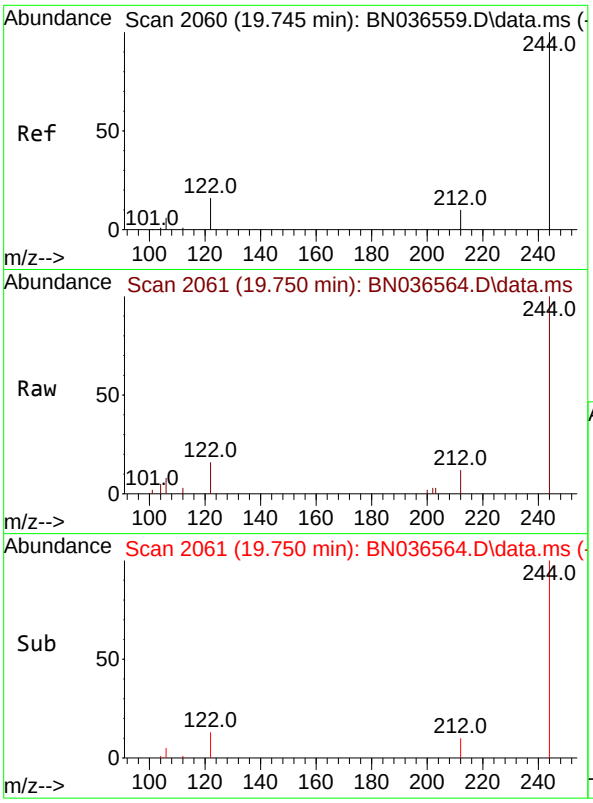


#30
Pyrene
Concen: 0.395 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8156

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.4	14.1	21.1



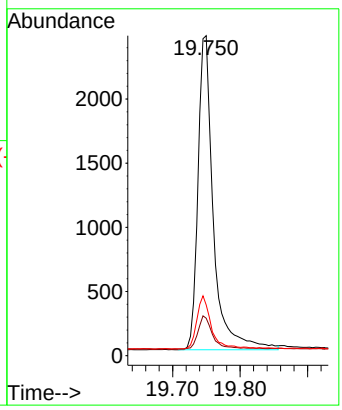


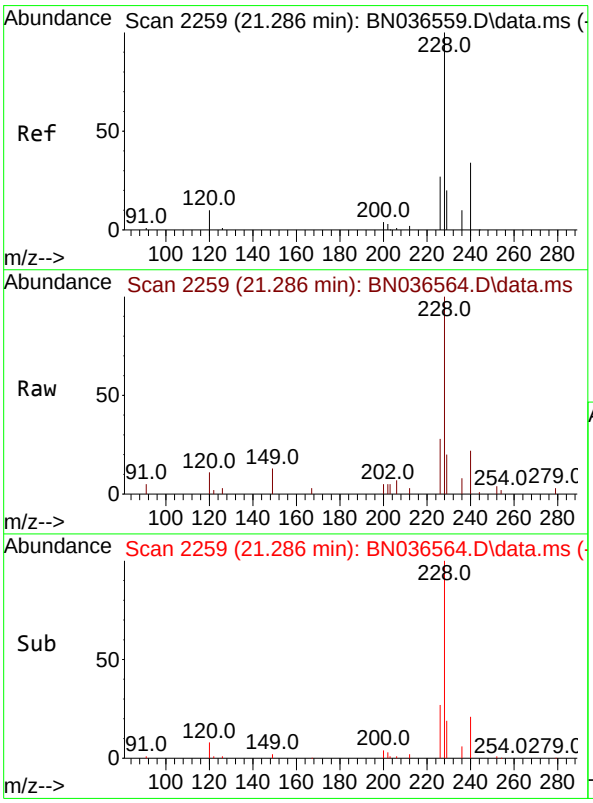
#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:244 Resp: 3880

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	15.8	13.9	20.9

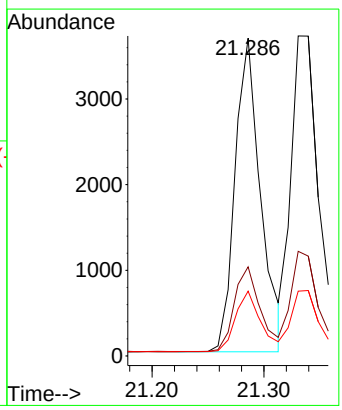


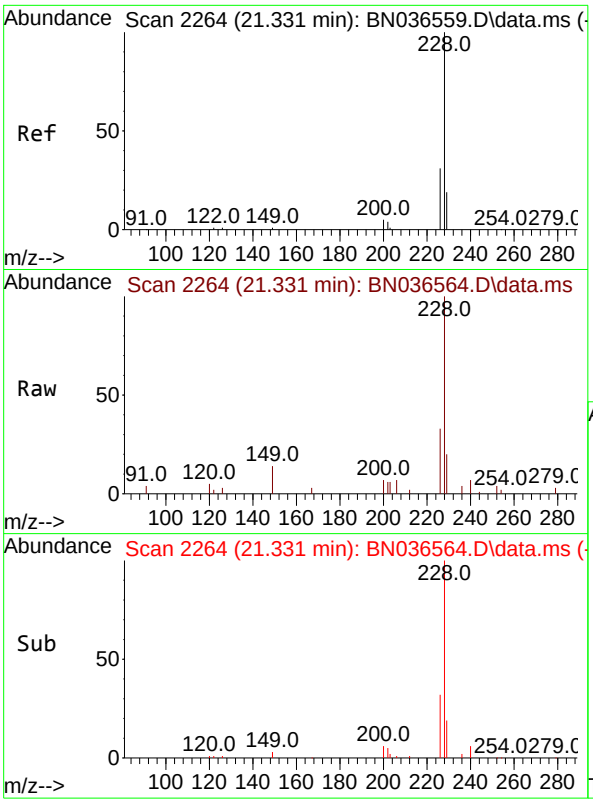


#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:228 Resp: 5814

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.4	16.6	25.0



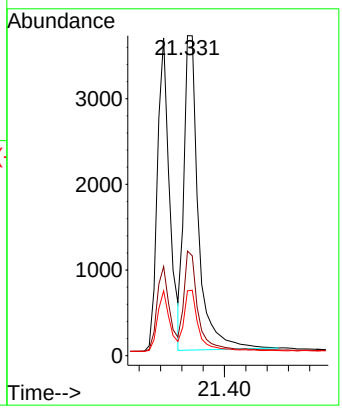


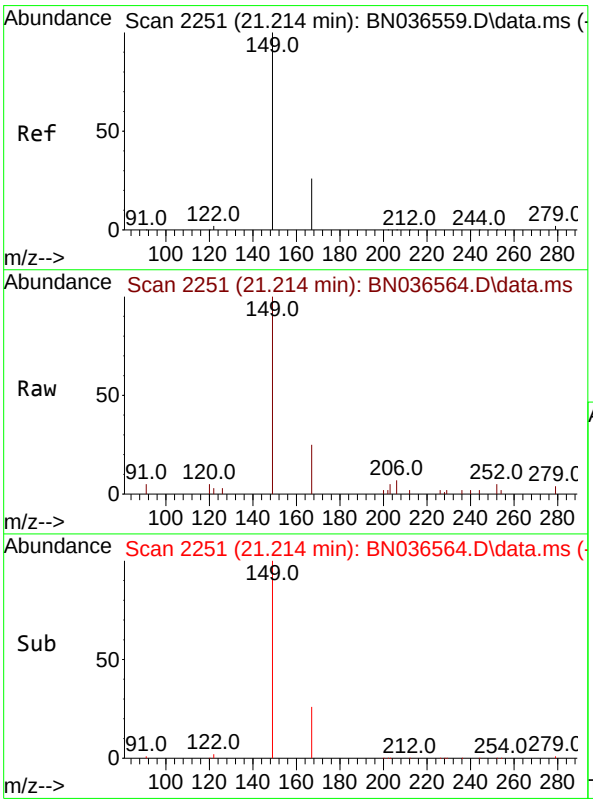
#33
Chrysene
Concen: 0.433 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:228 Resp: 6940

Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.3	37.9
229	20.3	15.8	23.8

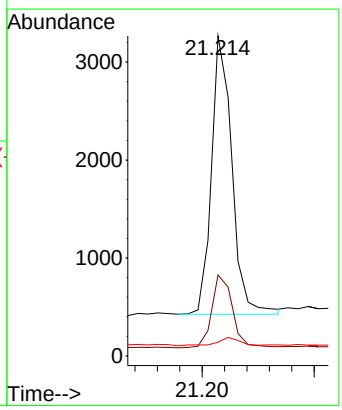


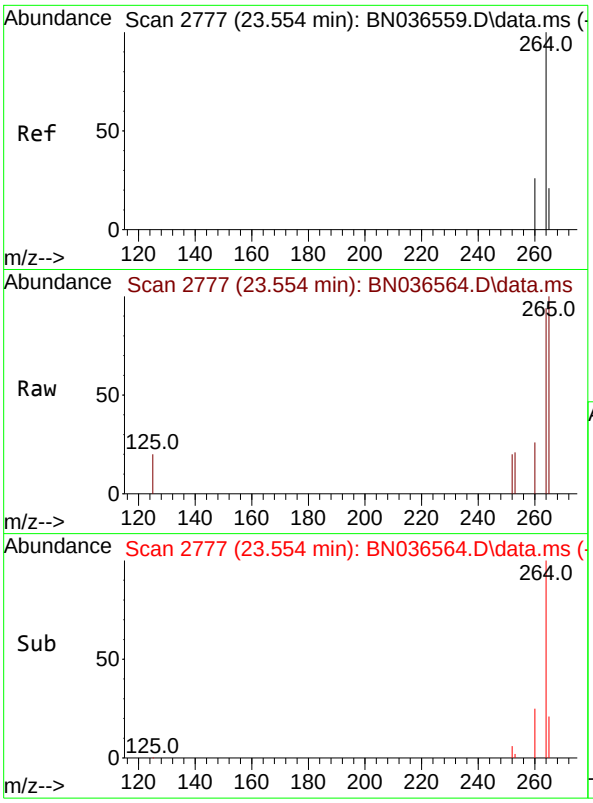


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.344 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:149 Resp: 3594

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.7	3.6	5.4



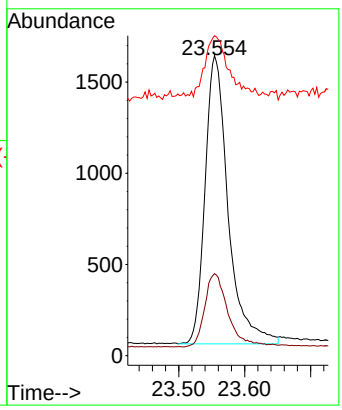


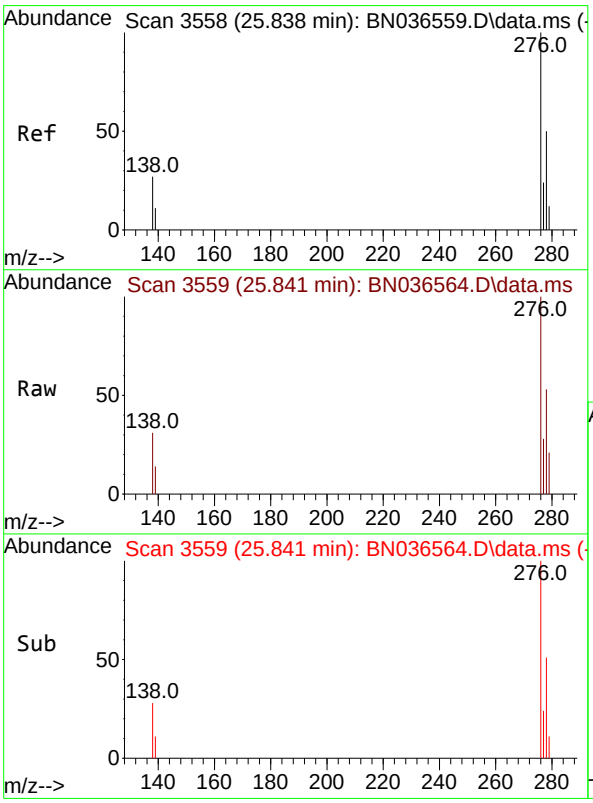
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:264 Resp: 3835

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	106.6	88.1	132.1

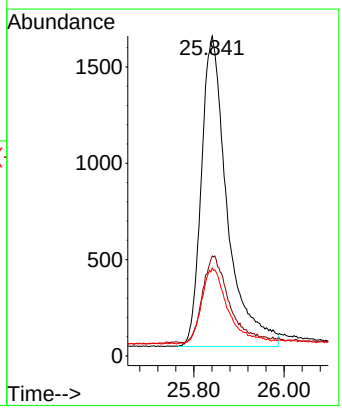


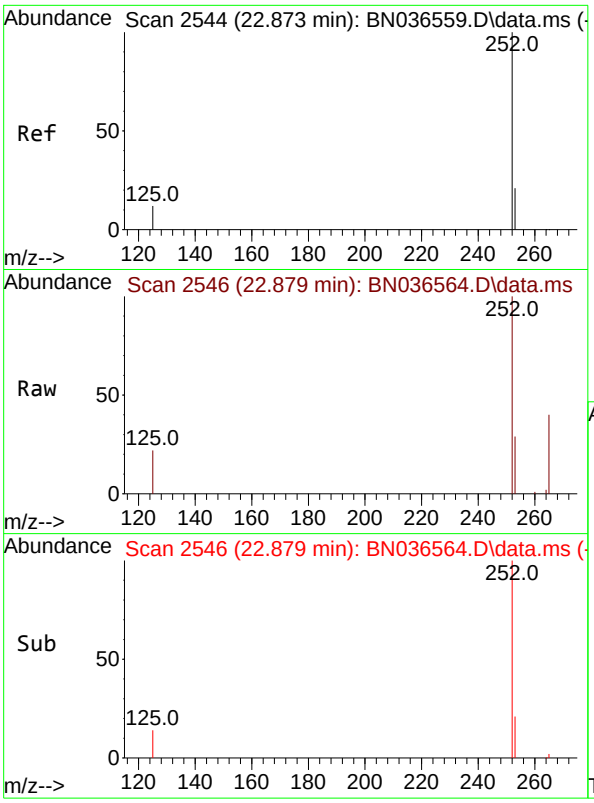


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.463 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:276 Resp: 6410

Ion	Ratio	Lower	Upper
276	100		
138	28.1	23.4	35.2
277	24.5	20.0	30.0



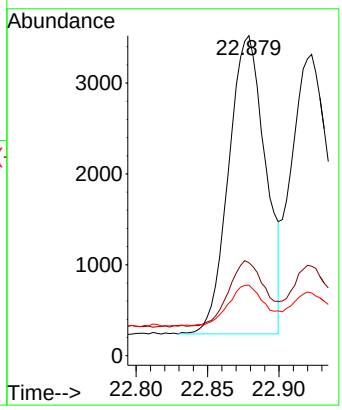


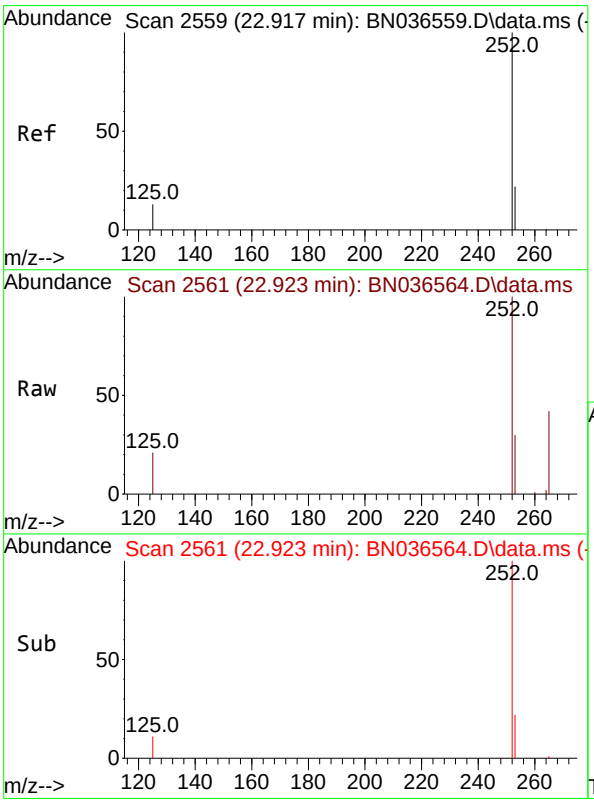
#37
Benzo(b)fluoranthene
Concen: 0.423 ng
RT: 22.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:252 Resp: 5902

Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	22.1	17.4	26.2

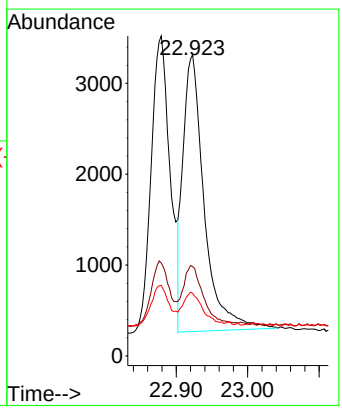


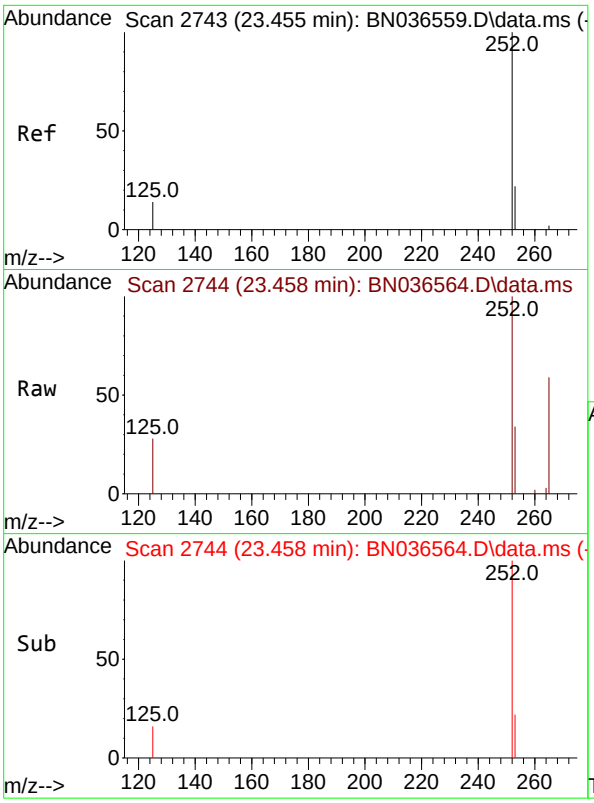


#38
Benzo(k)fluoranthene
Concen: 0.429 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:252 Resp: 6286

Ion	Ratio	Lower	Upper
252	100		
253	29.7	24.6	36.8
125	20.8	17.8	26.8



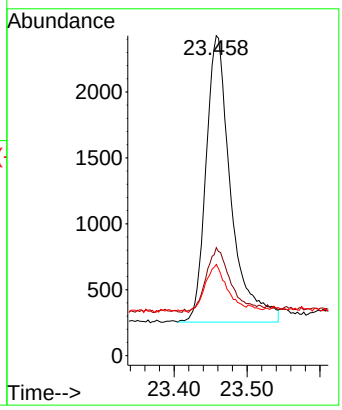


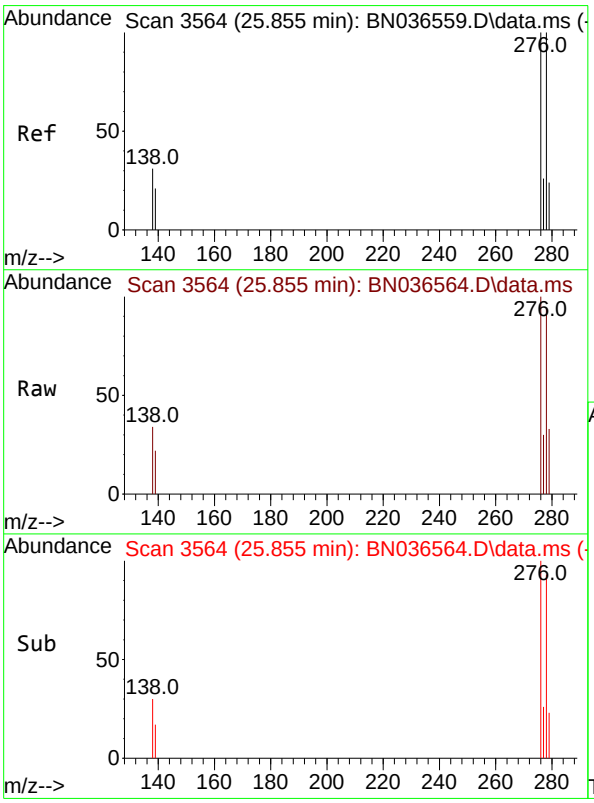
#39
Benzo(a)pyrene
Concen: 0.438 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:252 Resp: 5147

Ion	Ratio	Lower	Upper
252	100		
253	33.7	27.8	41.8
125	28.5	22.7	34.1

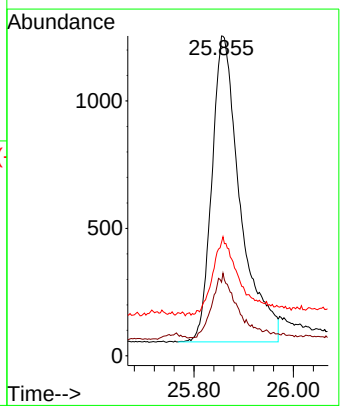


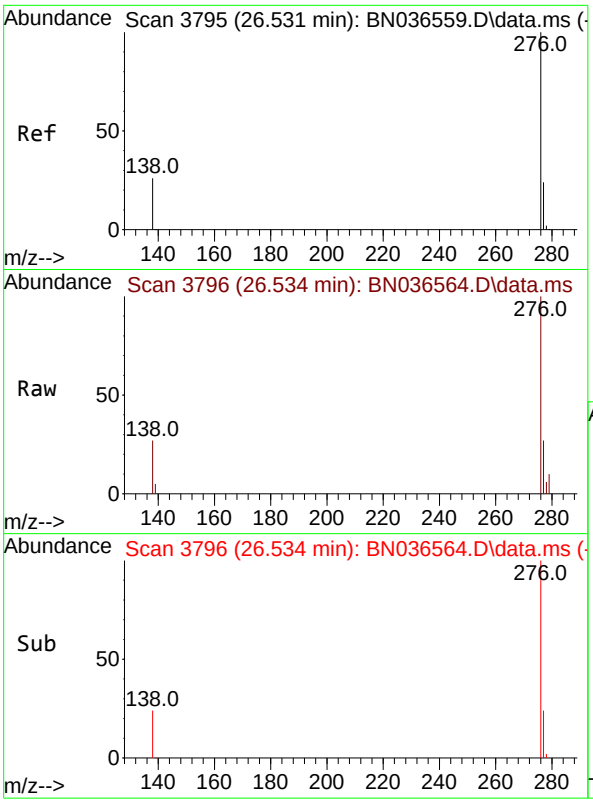


#40
Dibenzo(a,h)anthracene
Concen: 0.440 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:278 Resp: 4740

Ion	Ratio	Lower	Upper
278	100		
139	23.0	20.8	31.2
279	35.5	28.8	43.2



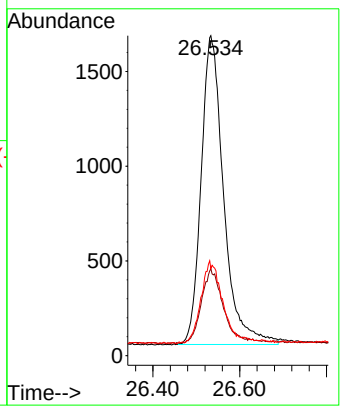


#41
Benzo(g,h,i)perylene
Concen: 0.477 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:276 Resp: 5877

Ion	Ratio	Lower	Upper
276	100		
277	27.2	22.2	33.4
138	27.2	24.1	36.1



Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00
2		1,4-Dioxane	0.444	0.521	-17.3	118	0.00
3		n-Nitrosodimethylamine	0.898	0.918	-2.2	111	0.00
4	S	2-Fluorophenol	0.932	0.972	-4.3	111	0.00
5	S	Phenol-d6	1.152	1.103	4.3	110	0.00
6		bis(2-Chloroethyl)ether	1.190	1.184	0.5	113	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8	S	Nitrobenzene-d5	0.435	0.418	3.9	112	0.00
9		Naphthalene	1.177	1.191	-1.2	109	0.00
10		Hexachlorobutadiene	0.277	0.301	-8.7	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.595	0.594	0.2	108	0.00
12		2-Methylnaphthalene	0.749	0.721	3.7	104	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14	S	2,4,6-Tribromophenol	0.182	0.166	8.8	90	0.00
15	S	2-Fluorobiphenyl	2.327	2.513	-8.0	107	0.00
16		Acenaphthylene	1.888	1.964	-4.0	103	0.00
17		Acenaphthene	1.236	1.308	-5.8	104	0.00
18		Fluorene	1.672	1.694	-1.3	98	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20		4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	87	0.01
21		4-Bromophenyl-phenylether	0.251	0.264	-5.2	93	0.00
22		Hexachlorobenzene	0.303	0.344	-13.5	98	0.00
23		Atrazine	0.201	0.202	-0.5	91	0.01
24		Pentachlorophenol	0.138	0.121	12.3	85	0.00
25		Phenanthrene	1.200	1.251	-4.2	93	0.00
26		Anthracene	1.083	1.100	-1.6	92	0.00
27	SURR	Fluoranthene-d10	1.025	1.065	-3.9	92	0.00
28		Fluoranthene	1.348	1.396	-3.6	93	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30		Pyrene	1.956	1.933	1.2	93	0.00
31	S	Terphenyl-d14	0.958	0.920	4.0	92	0.00
32		Benzo(a)anthracene	1.391	1.378	0.9	98	0.00
33		Chrysene	1.520	1.645	-8.2	105	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	0.852	13.9	84	0.00
35	I	Perylene-d12	1.000	1.000	0.0	108	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.671	-15.7	117	0.00
37		Benzo(b)fluoranthene	1.456	1.539	-5.7	108	0.00
38		Benzo(k)fluoranthene	1.527	1.639	-7.3	110	0.00
39	C	Benzo(a)pyrene	1.226	1.342	-9.5	112	0.00
40		Dibenzo(a,h)anthracene	1.124	1.236	-10.0	115	0.00
41		Benzo(g,h,i)perylene	1.286	1.532	-19.1	120	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	113	0.00
2		1,4-Dioxane	0.400	0.470	-17.5	118	0.00
3		n-Nitrosodimethylamine	0.400	0.409	-2.2	111	0.00
4	S	2-Fluorophenol	0.400	0.417	-4.2	111	0.00
5	S	Phenol-d6	0.400	0.383	4.3	110	0.00
6		bis(2-Chloroethyl)ether	0.400	0.398	0.5	113	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8	S	Nitrobenzene-d5	0.400	0.384	4.0	112	0.00
9		Naphthalene	0.400	0.405	-1.3	109	0.00
10		Hexachlorobutadiene	0.400	0.434	-8.5	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	108	0.00
12		2-Methylnaphthalene	0.400	0.385	3.8	104	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14	S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15	S	2-Fluorobiphenyl	0.400	0.432	-8.0	107	0.00
16		Acenaphthylene	0.400	0.416	-4.0	103	0.00
17		Acenaphthene	0.400	0.423	-5.7	104	0.00
18		Fluorene	0.400	0.405	-1.3	98	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	96	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.420	-5.0	87	0.01
21		4-Bromophenyl-phenylether	0.400	0.421	-5.2	93	0.00
22		Hexachlorobenzene	0.400	0.455	-13.7	98	0.00
23		Atrazine	0.400	0.401	-0.3	91	0.01
24		Pentachlorophenol	0.400	0.351	12.3	85	0.00
25		Phenanthrene	0.400	0.417	-4.2	93	0.00
26		Anthracene	0.400	0.407	-1.7	92	0.00
27	SURR	Fluoranthene-d10	0.400	0.415	-3.7	92	0.00
28		Fluoranthene	0.400	0.414	-3.5	93	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30		Pyrene	0.400	0.395	1.3	93	0.00
31	S	Terphenyl-d14	0.400	0.384	4.0	92	0.00
32		Benzo(a)anthracene	0.400	0.396	1.0	98	0.00
33		Chrysene	0.400	0.433	-8.2	105	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.344	14.0	84	0.00
35	I	Perylene-d12	0.400	0.400	0.0	108	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.463	-15.8	117	0.00
37		Benzo(b)fluoranthene	0.400	0.423	-5.7	108	0.00
38		Benzo(k)fluoranthene	0.400	0.429	-7.2	110	0.00
39	C	Benzo(a)pyrene	0.400	0.438	-9.5	112	0.00
40		Dibenzo(a,h)anthracene	0.400	0.440	-10.0	115	0.00
41		Benzo(g,h,i)perylene	0.400	0.477	-19.2	120	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1731 SAS No.: Q1731 SDG No.: Q1731

Instrument ID: BNA_N Calibration Date/Time: 04/04/2025 13:42

Lab File ID: BN036837.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.592		-0.5	20.0
Fluoranthene-d10	1.025	1.140		11.2	20.0
2-Fluorophenol	0.932	0.953		2.3	20.0
Phenol-d6	1.152	1.161		0.8	20.0
Nitrobenzene-d5	0.435	0.409		-6.0	20.0
2-Fluorobiphenyl	2.327	2.149		-7.6	20.0
2,4,6-Tribromophenol	0.182	0.169		-7.1	20.0
Terphenyl-d14	0.958	0.876		-8.6	20.0
1,4-Dioxane	0.444	0.498		12.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036837.D
Acq On : 04 Apr 2025 13:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Apr 04 17:31:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

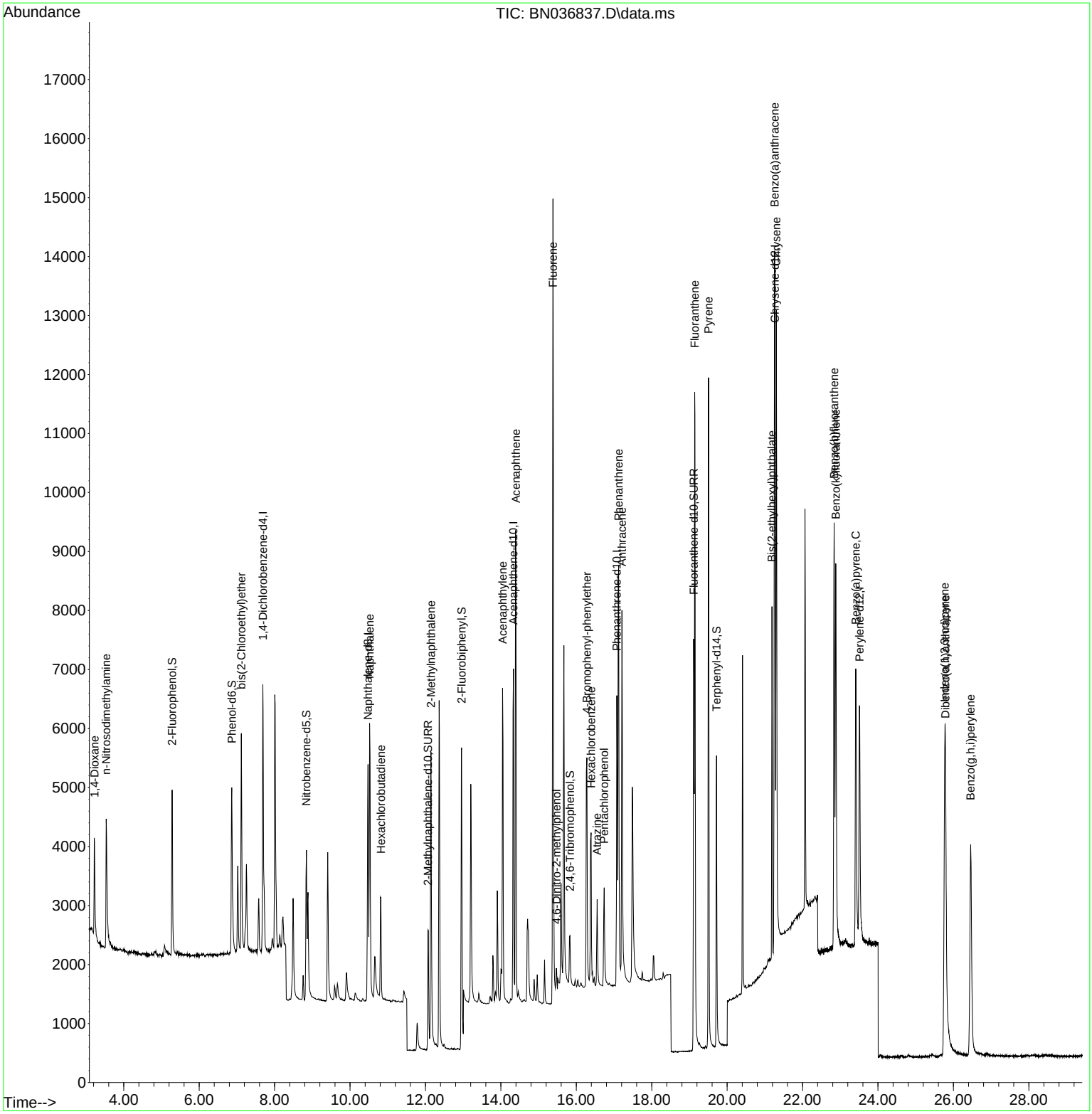
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.688	152	2261	0.400	ng		0.00
7) Naphthalene-d8	10.477	136	5761	0.400	ng	#	0.00
13) Acenaphthene-d10	14.334	164	3391	0.400	ng		0.00
19) Phenanthrene-d10	17.074	188	7218	0.400	ng	#	0.00
29) Chrysene-d12	21.268	240	6202	0.400	ng		0.00
35) Perylene-d12	23.511	264	5846	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.283	112	2154	0.409	ng		0.00
5) Phenol-d6	6.865	99	2624	0.403	ng		0.00
8) Nitrobenzene-d5	8.843	82	2357	0.376	ng		0.00
11) 2-Methylnaphthalene-d10	12.070	152	3408	0.398	ng		0.00
14) 2,4,6-Tribromophenol	15.833	330	572	0.372	ng		0.00
15) 2-Fluorobiphenyl	12.958	172	7286	0.369	ng		0.00
27) Fluoranthene-d10	19.113	212	8227	0.445	ng		0.00
31) Terphenyl-d14	19.717	244	5434	0.366	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	1125	0.449	ng		99
3) n-Nitrosodimethylamine	3.536	42	2154	0.425	ng	#	98
6) bis(2-Chloroethyl)ether	7.118	93	2771	0.412	ng		99
9) Naphthalene	10.520	128	6735	0.397	ng		99
10) Hexachlorobutadiene	10.819	225	1531	0.384	ng	#	99
12) 2-Methylnaphthalene	12.146	142	4180	0.388	ng		98
16) Acenaphthylene	14.046	152	6192	0.387	ng		99
17) Acenaphthene	14.398	154	4201	0.401	ng		98
18) Fluorene	15.382	166	5768	0.407	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	509	0.422	ng	#	81
21) 4-Bromophenyl-phenylether	16.280	248	1746	0.386	ng	#	83
22) Hexachlorobenzene	16.391	284	2067	0.379	ng		96
23) Atrazine	16.553	200	1430	0.394	ng		97
24) Pentachlorophenol	16.739	266	1008	0.405	ng		98
25) Phenanthrene	17.124	178	8982	0.415	ng		99
26) Anthracene	17.211	178	7861	0.402	ng		98
28) Fluoranthene	19.141	202	10677	0.439	ng		100
30) Pyrene	19.508	202	10985	0.362	ng		100
32) Benzo(a)anthracene	21.259	228	8968	0.416	ng		99
33) Chrysene	21.304	228	10083	0.428	ng		99
34) Bis(2-ethylhexyl)phtha...	21.187	149	5324	0.347	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.771	276	8691	0.412	ng		98
37) Benzo(b)fluoranthene	22.838	252	9008	0.423	ng		92
38) Benzo(k)fluoranthene	22.879	252	9694	0.434	ng	#	91
39) Benzo(a)pyrene	23.411	252	7658	0.427	ng	#	90
40) Dibenzo(a,h)anthracene	25.791	278	6556	0.399	ng		91
41) Benzo(g,h,i)perylene	26.458	276	7891	0.420	ng		96

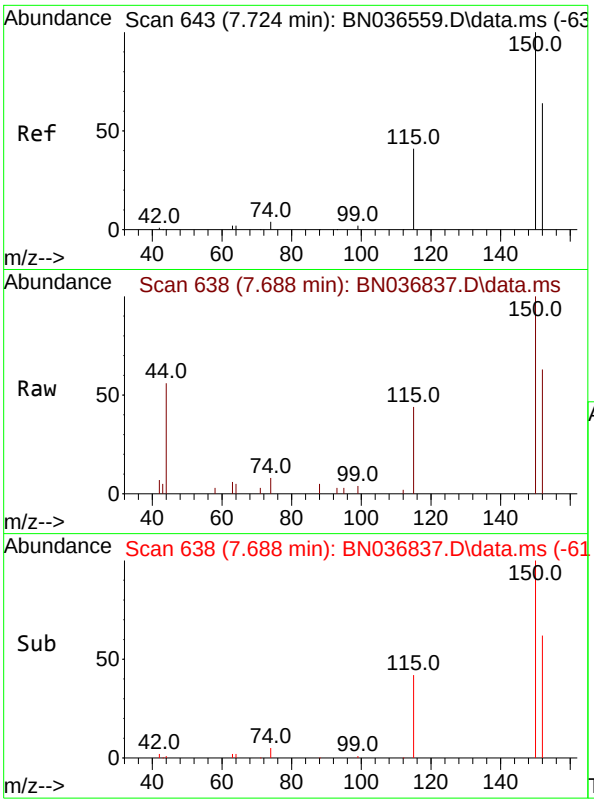
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036837.D
Acq On : 04 Apr 2025 13:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Apr 04 17:31:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration



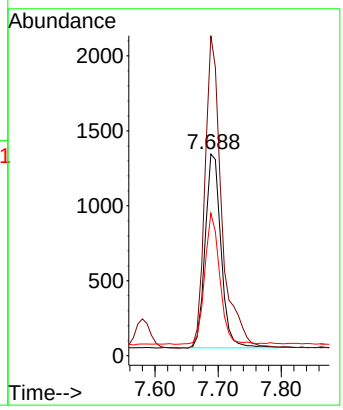


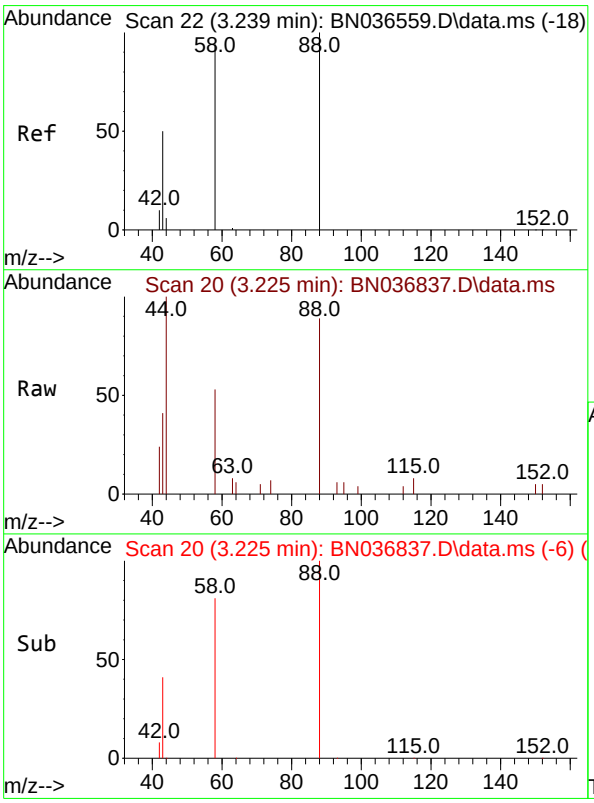
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.688 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2261

Ion	Ratio	Lower	Upper
152	100		
150	158.7	123.7	185.5
115	70.6	54.3	81.5

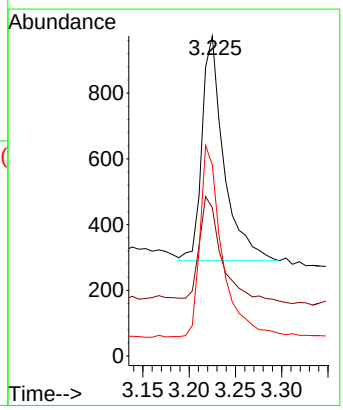


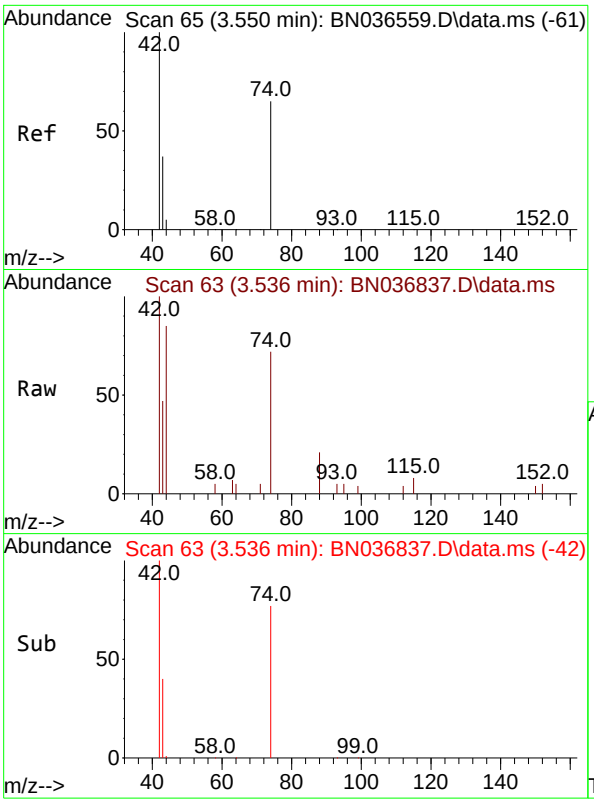


#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.225 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion: 88 Resp: 1125

Ion	Ratio	Lower	Upper
88	100		
43	47.0	37.8	56.8
58	85.5	67.4	101.2



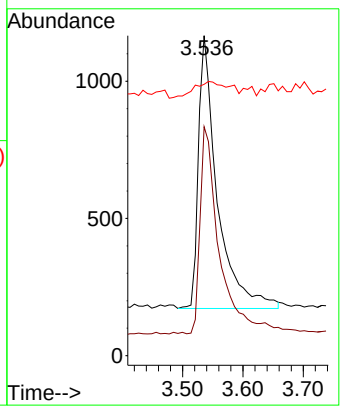


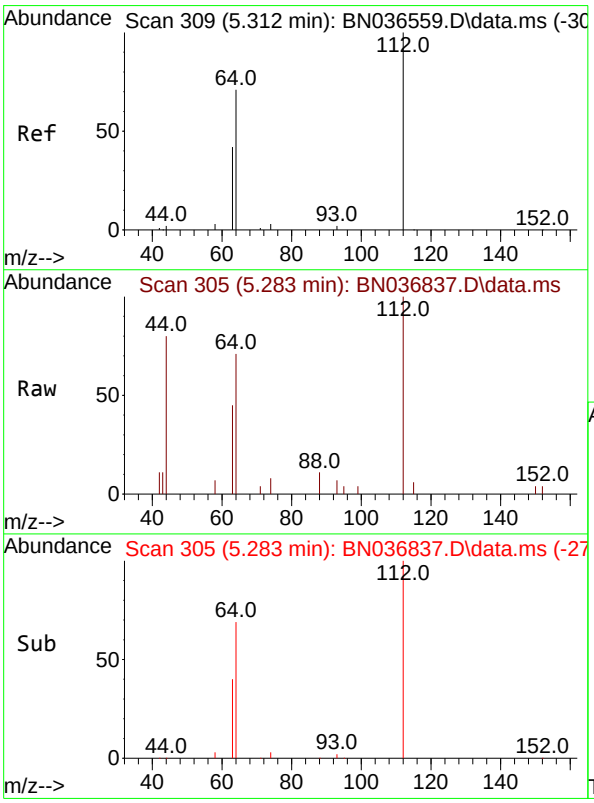
#3
n-Nitrosodimethylamine
Concen: 0.425 ng
RT: 3.536 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2154

Ion	Ratio	Lower	Upper
42	100		
74	76.7	60.6	90.8
44	10.5	6.3	9.5#

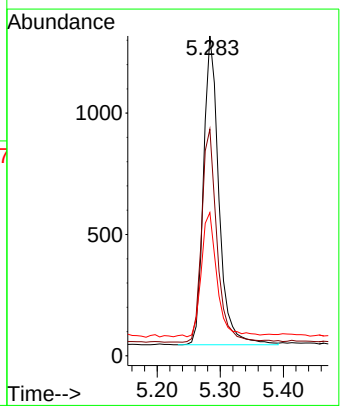


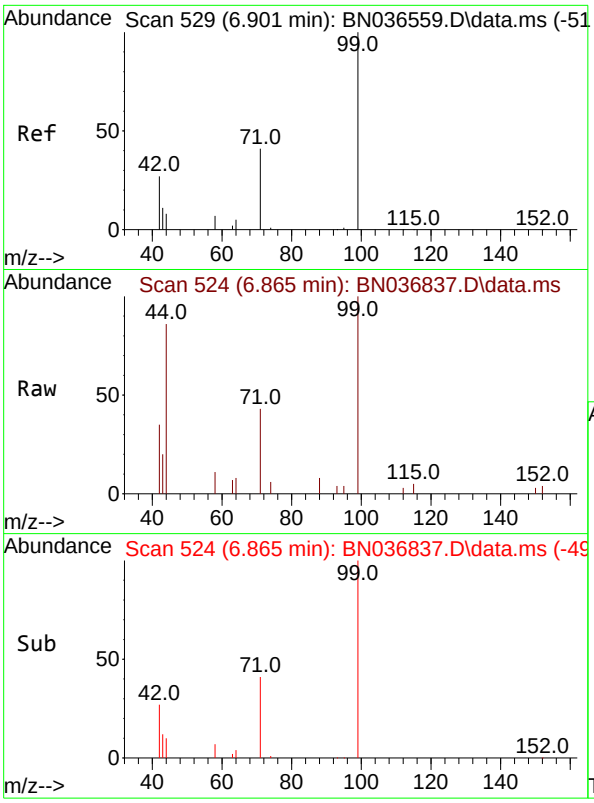


#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.283 min Scan# 305
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:112 Resp: 2154

Ion	Ratio	Lower	Upper
112	100		
64	69.0	53.1	79.7
63	41.0	31.8	47.8



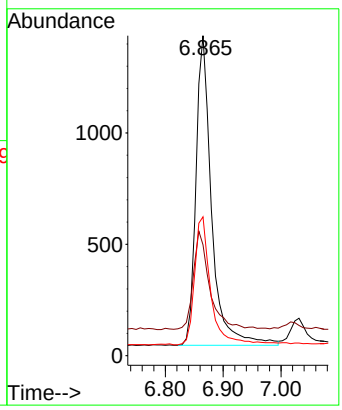


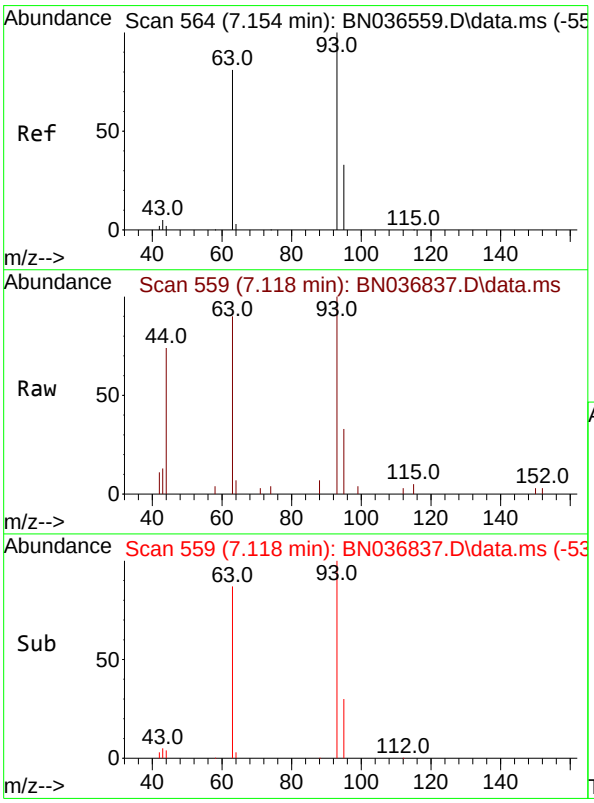
#5
Phenol-d6
Concen: 0.403 ng
RT: 6.865 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2624

Ion	Ratio	Lower	Upper
99	100		
42	33.0	26.5	39.7
71	43.3	34.1	51.1

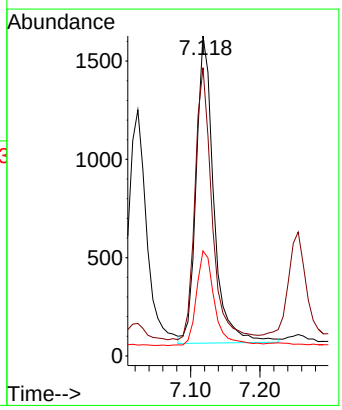


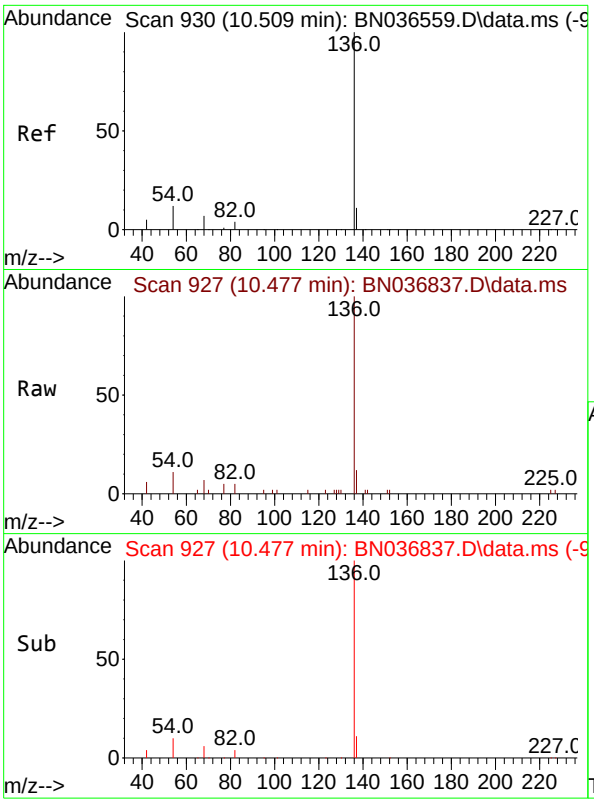


#6
bis(2-Chloroethyl)ether
Concen: 0.412 ng
RT: 7.118 min Scan# 559
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion: 93 Resp: 2771

Ion	Ratio	Lower	Upper
93	100		
63	85.7	67.7	101.5
95	31.5	25.6	38.4



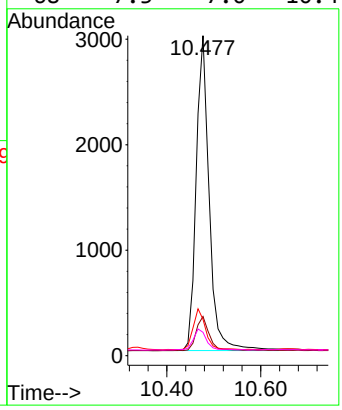


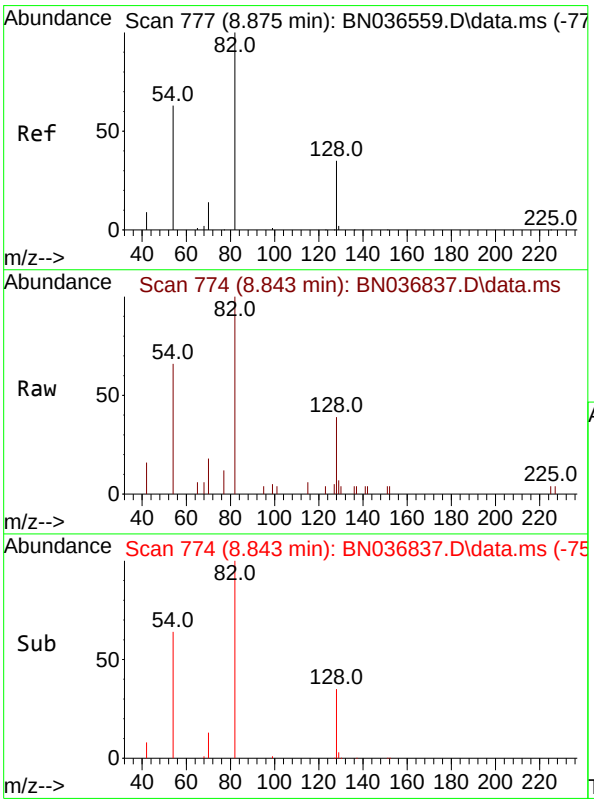
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 5761

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	11.3	11.5	17.3#
68	7.3	7.0	10.4

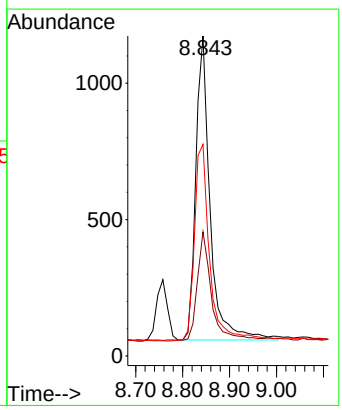


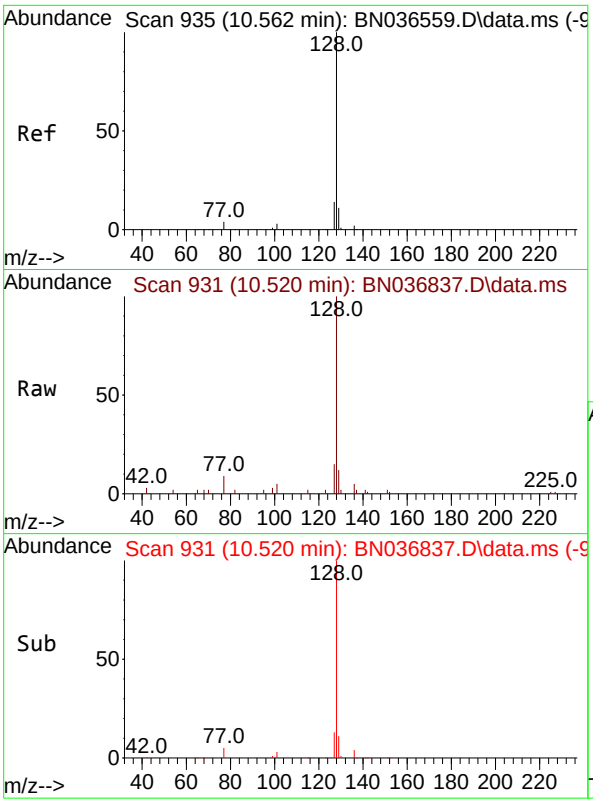


#8
Nitrobenzene-d5
Concen: 0.376 ng
RT: 8.843 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion: 82 Resp: 2357

Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.6	45.8
54	66.2	52.2	78.4



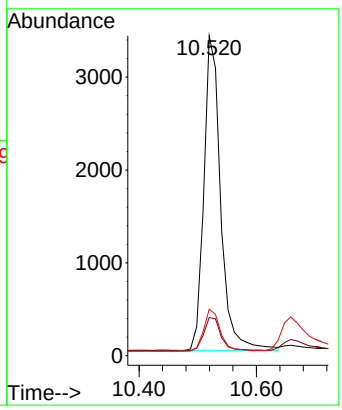


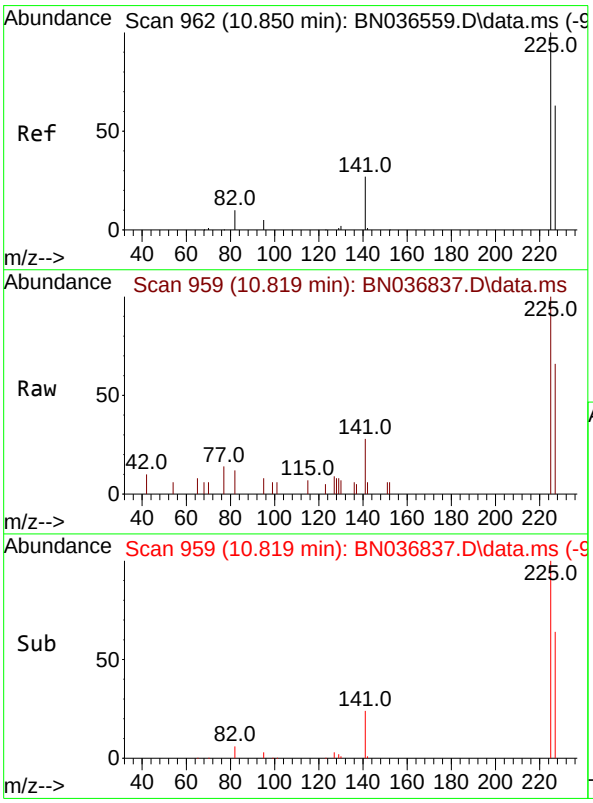
#9
Naphthalene
Concen: 0.397 ng
RT: 10.520 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 6735

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.6	11.8	17.8

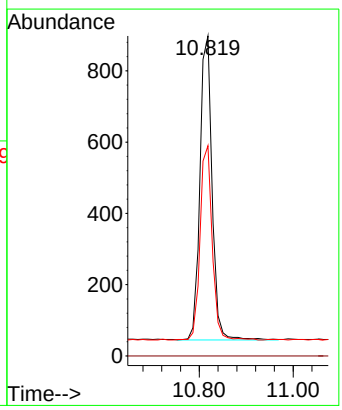


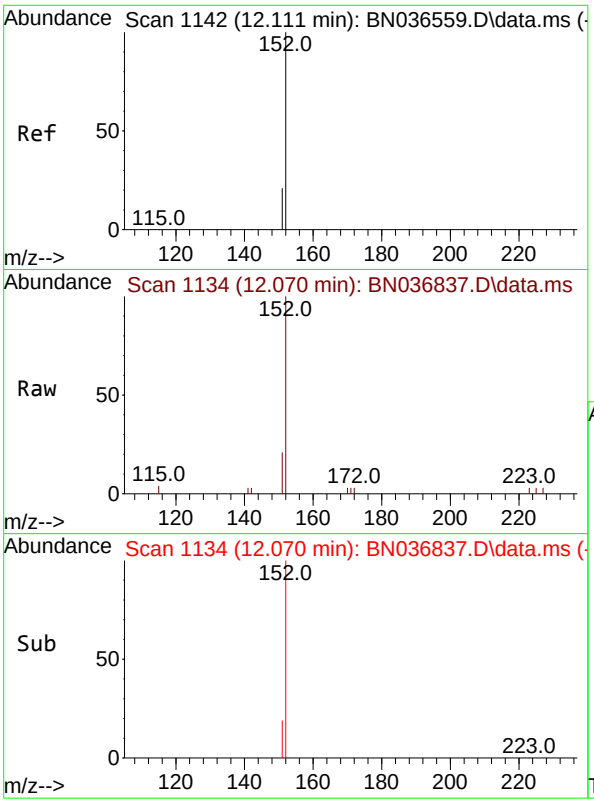


#10
Hexachlorobutadiene
Concen: 0.384 ng
RT: 10.819 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:225 Resp: 1531

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



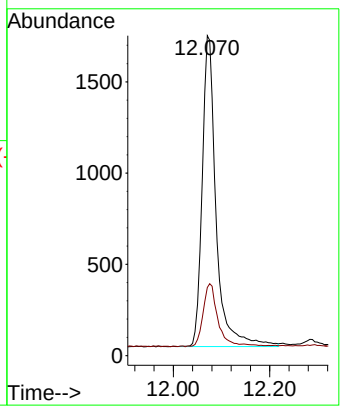


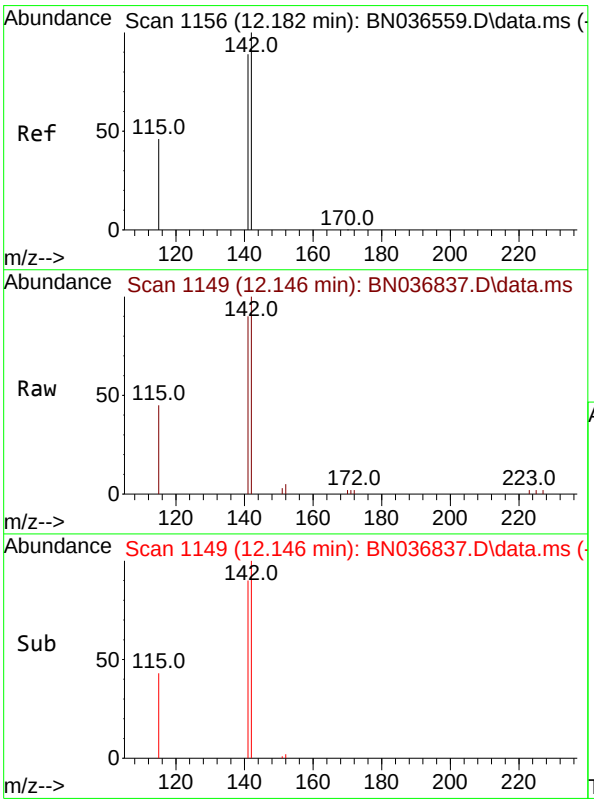
#11
2-Methylnaphthalene-d10
Concen: 0.398 ng
RT: 12.070 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3408

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

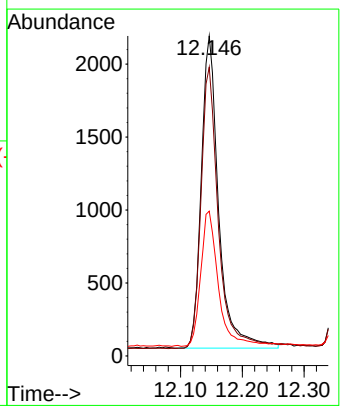


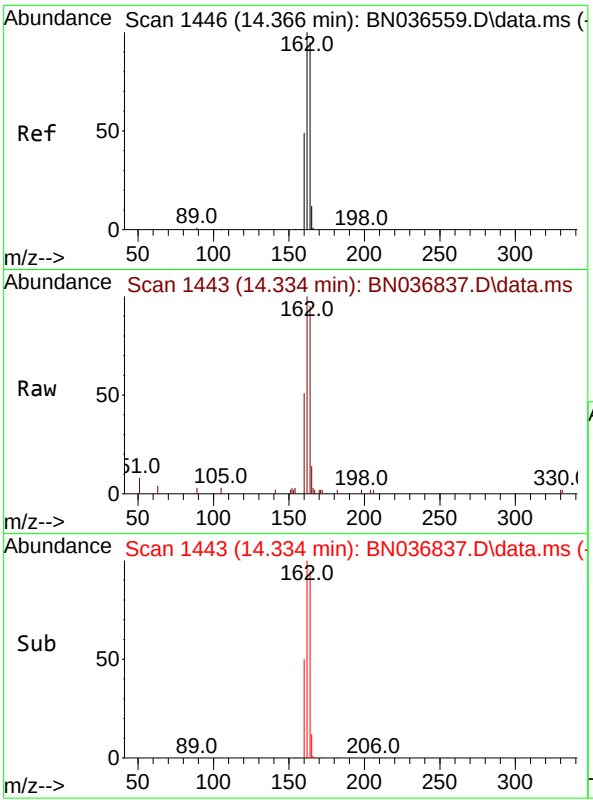


#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.146 min Scan# 1149
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:142 Resp: 4180

Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.7	107.5
115	45.2	38.3	57.5



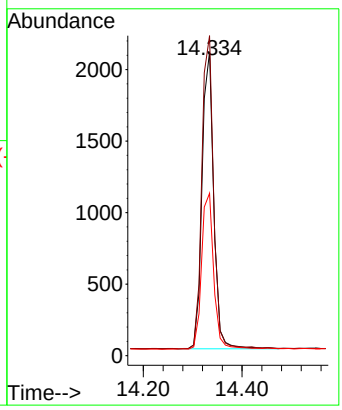


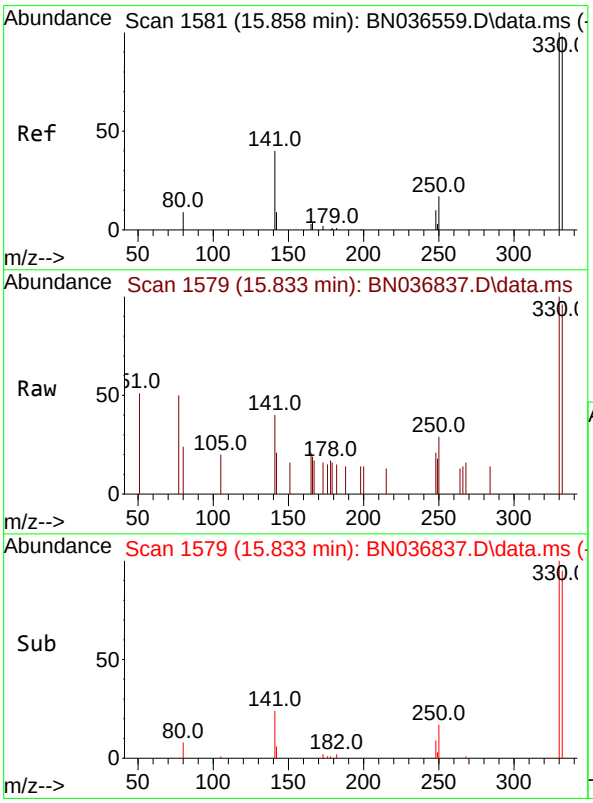
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 3391

Ion	Ratio	Lower	Upper
164	100		
162	105.3	84.2	126.2
160	53.4	42.2	63.2

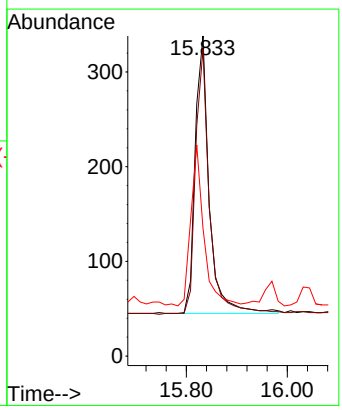


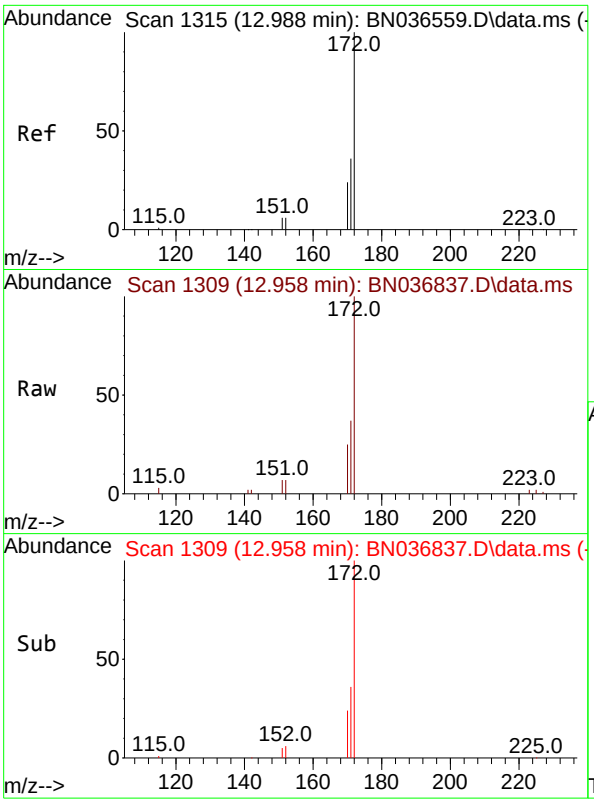


#14
2,4,6-Tribromophenol
Concen: 0.372 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:330 Resp: 572

Ion	Ratio	Lower	Upper
330	100		
332	94.9	75.2	112.8
141	53.5	43.4	65.2



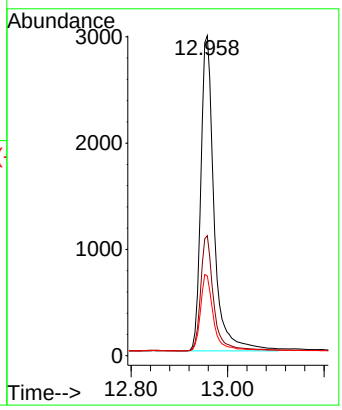


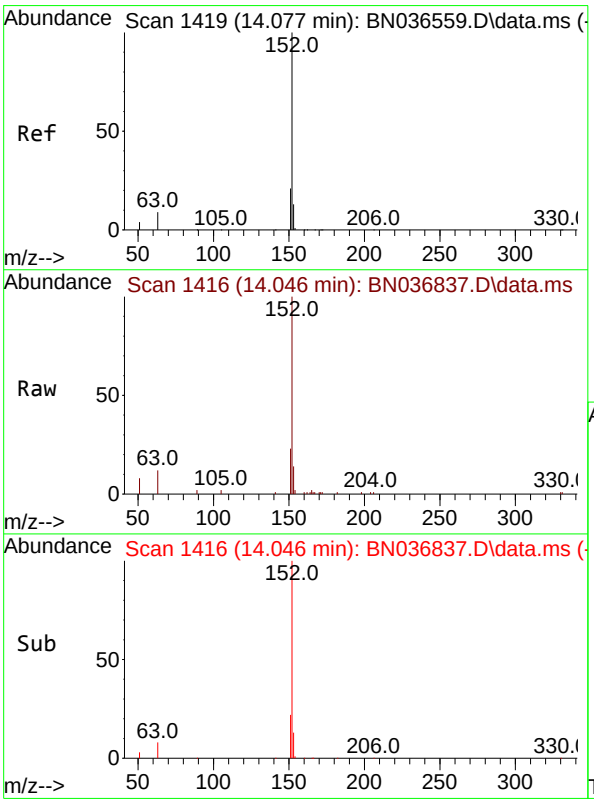
#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 12.958 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 7286

Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	24.9	20.2	30.4

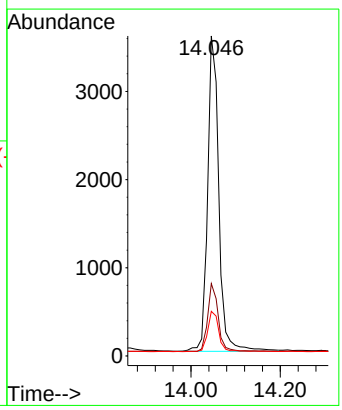


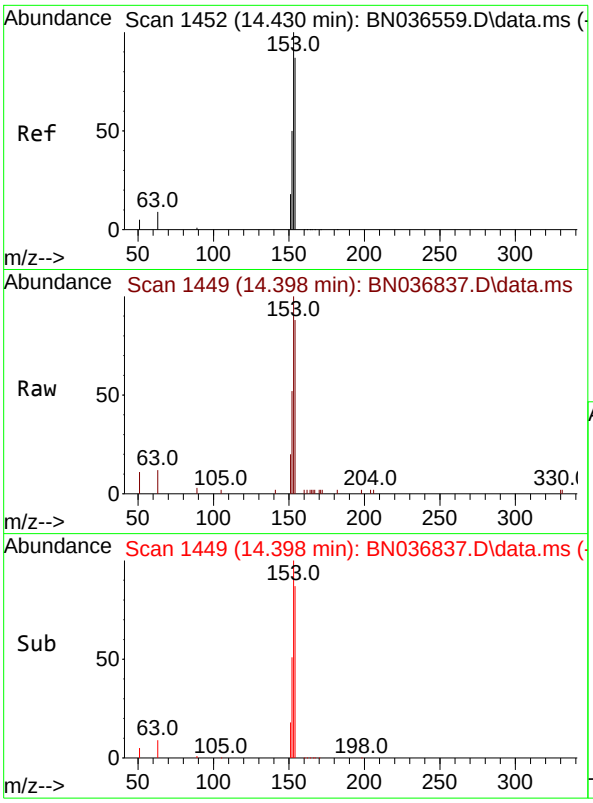


#16
Acenaphthylene
Concen: 0.387 ng
RT: 14.046 min Scan# 1416
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:152 Resp: 6192

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	12.7	10.6	15.8



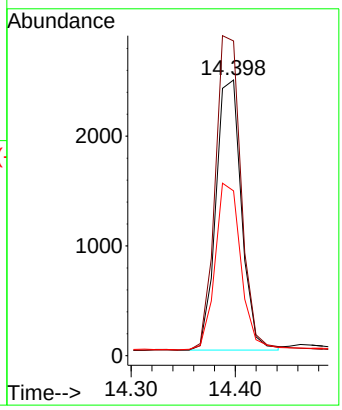


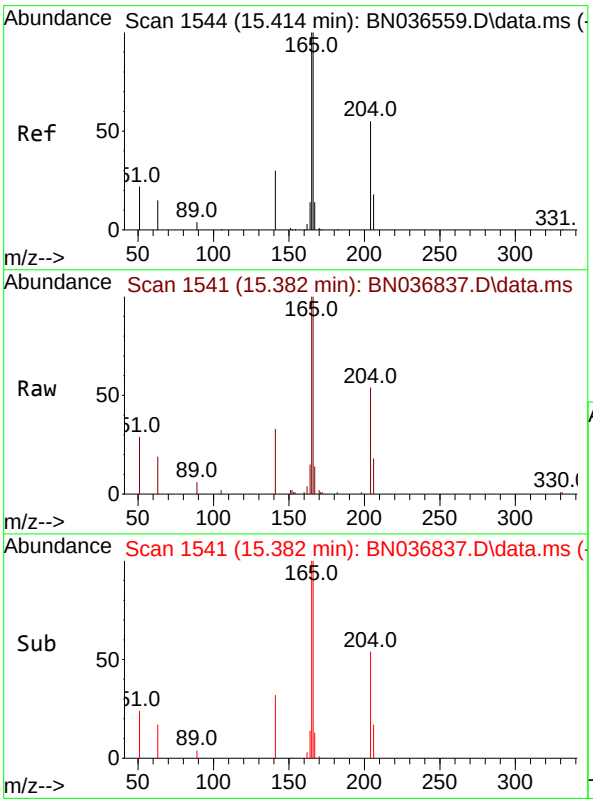
#17
Acenaphthene
Concen: 0.401 ng
RT: 14.398 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4201

Ion	Ratio	Lower	Upper
154	100		
153	119.4	94.1	141.1
152	63.8	49.8	74.6

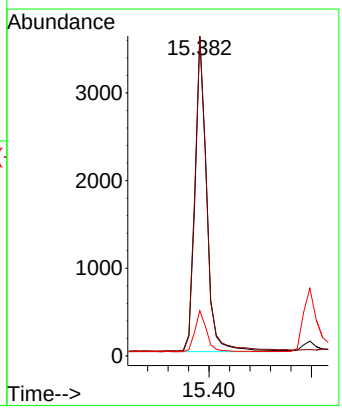


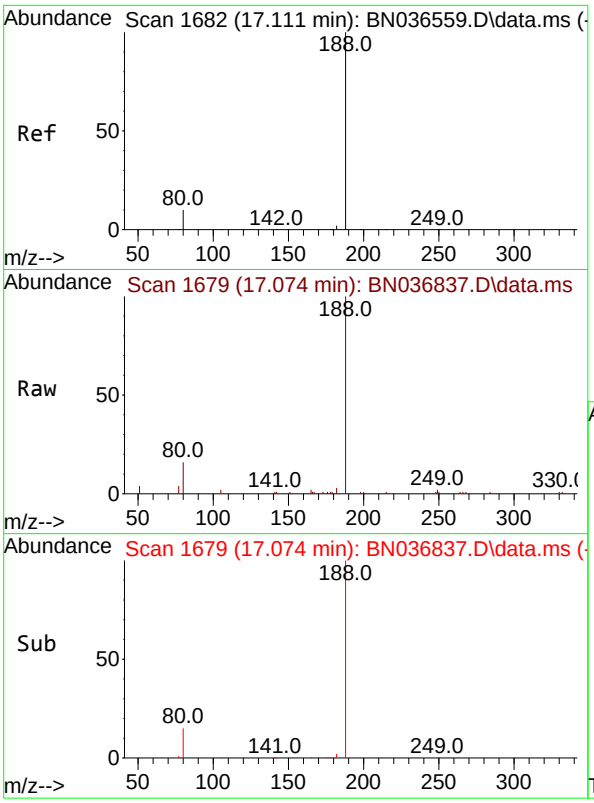


#18
Fluorene
Concen: 0.407 ng
RT: 15.382 min Scan# 1541
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:166 Resp: 5768

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.8	119.8
167	13.0	10.6	15.8



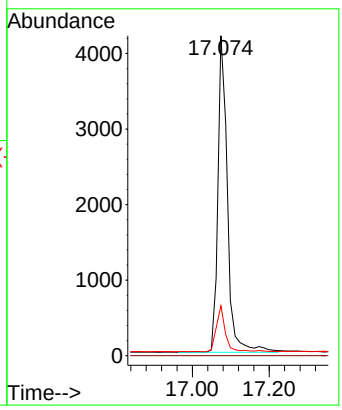


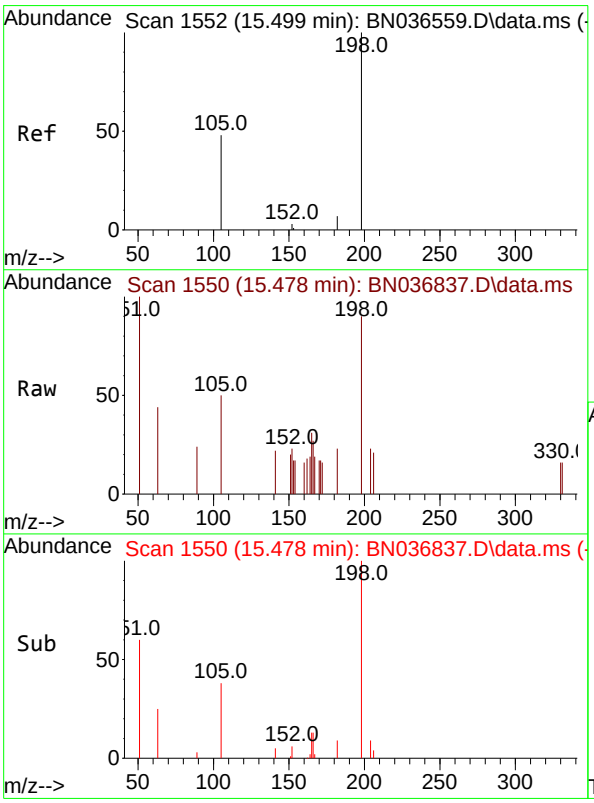
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.074 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 7218

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.6	8.8	13.2#

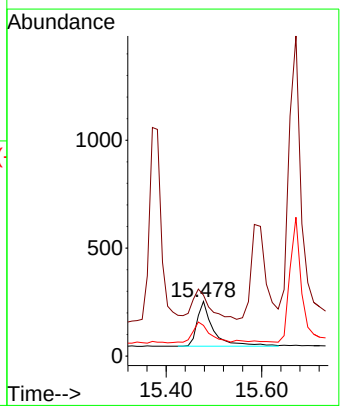


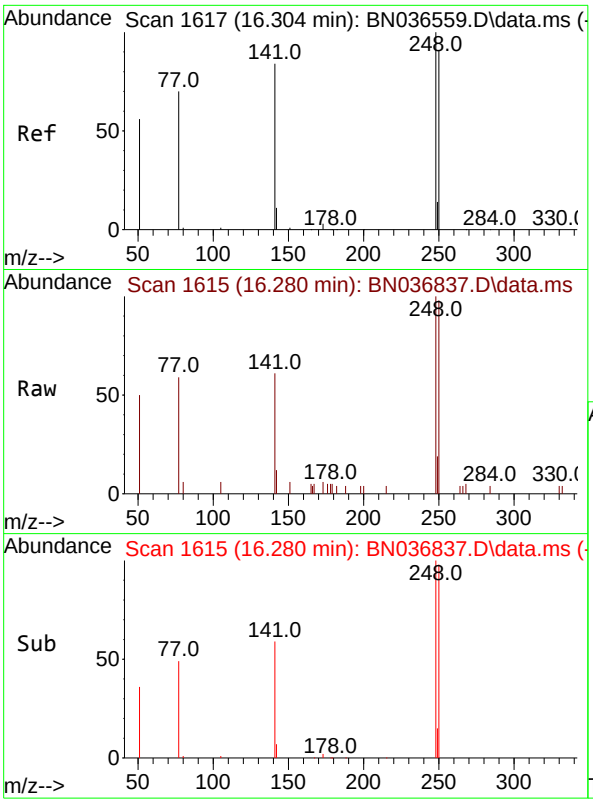


#20
4,6-Dinitro-2-methylphenol
Concen: 0.422 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:198 Resp: 509

Ion	Ratio	Lower	Upper
198	100		
51	111.5	107.9	161.9
105	56.1	56.2	84.2#



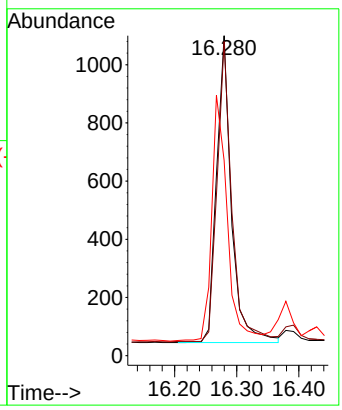


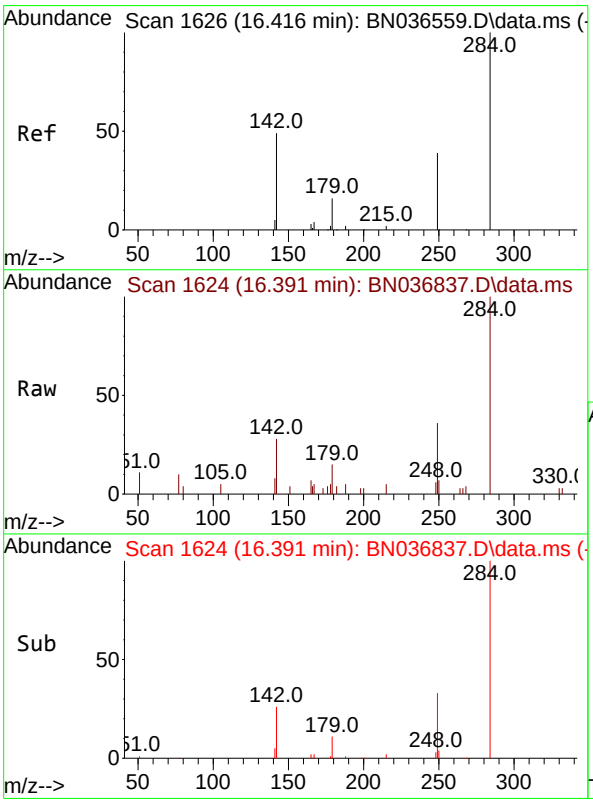
#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1746

Ion	Ratio	Lower	Upper
248	100		
250	98.2	73.0	109.6
141	61.0	68.6	103.0#

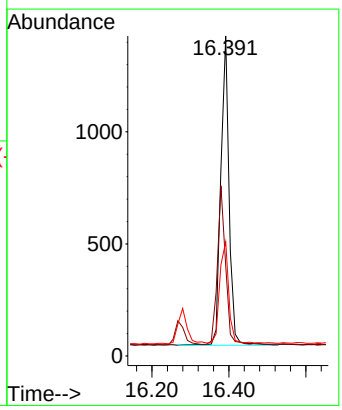


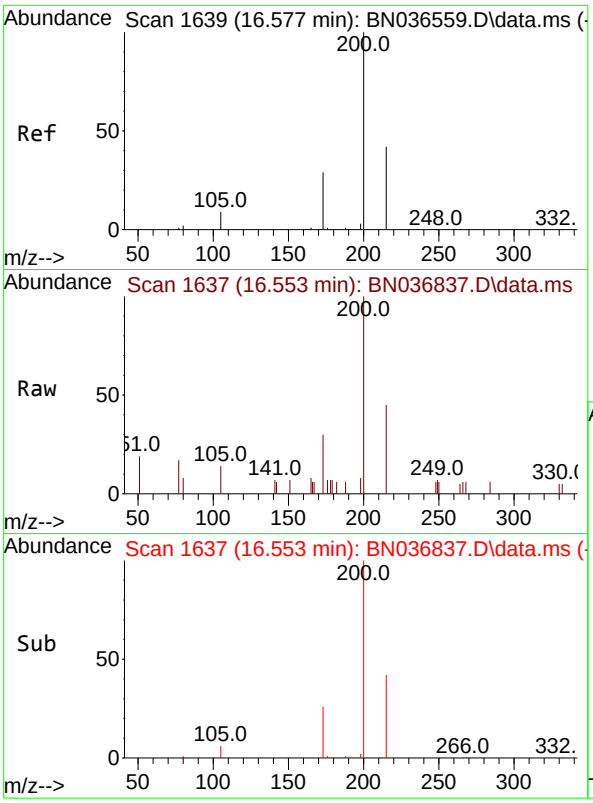


#22
Hexachlorobenzene
Concen: 0.379 ng
RT: 16.391 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:284 Resp: 2067

Ion	Ratio	Lower	Upper
284	100		
142	49.9	37.0	55.4
249	36.1	28.1	42.1



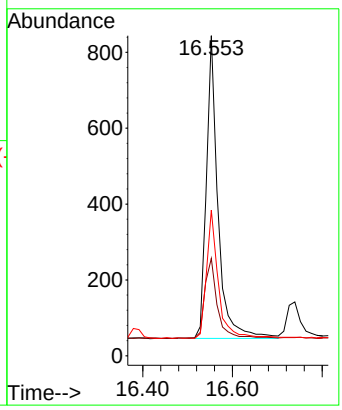


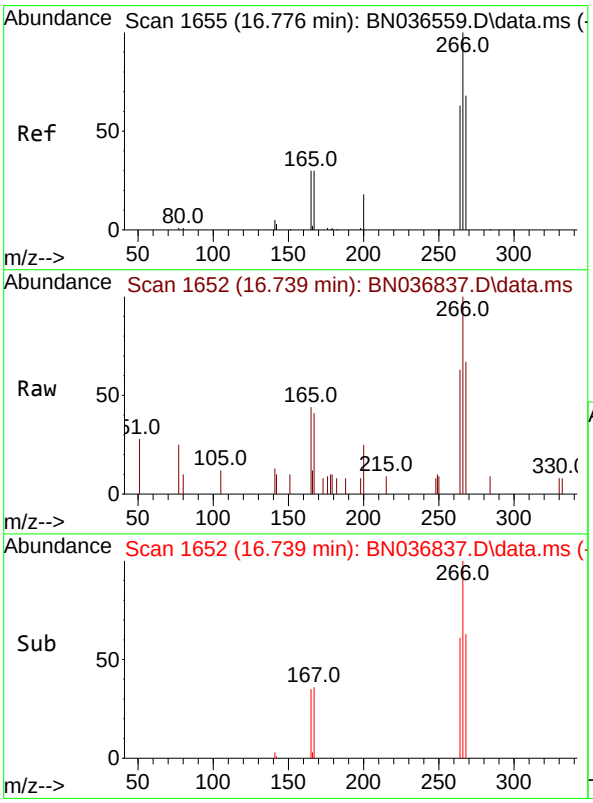
#23
Atrazine
Concen: 0.394 ng
RT: 16.553 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1430

Ion	Ratio	Lower	Upper
200	100		
173	30.5	27.3	40.9
215	45.5	36.8	55.2

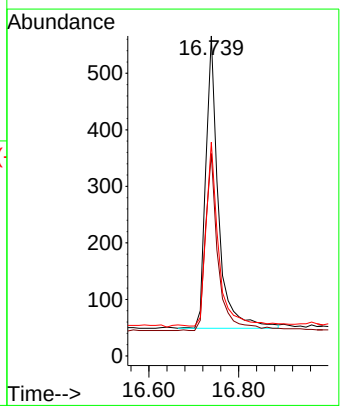


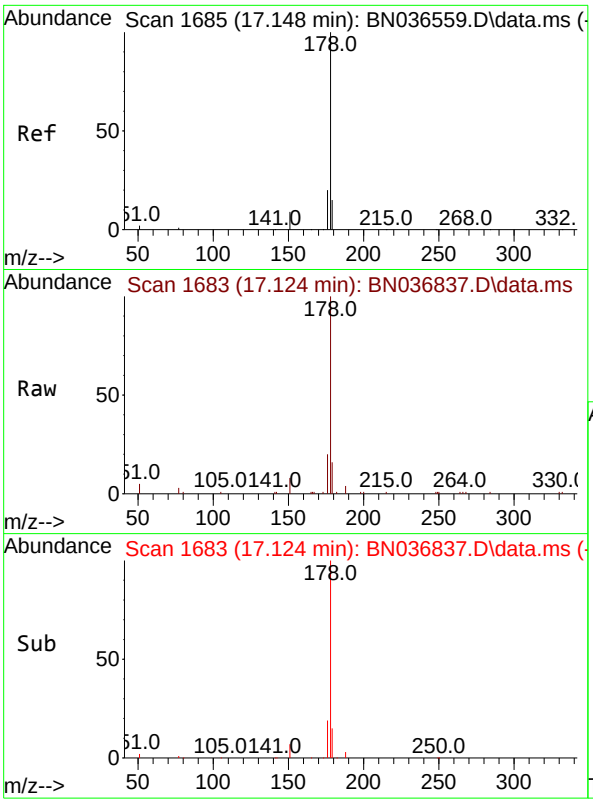


#24
Pentachlorophenol
Concen: 0.405 ng
RT: 16.739 min Scan# 1652
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:266 Resp: 1008

Ion	Ratio	Lower	Upper
266	100		
264	60.3	49.6	74.4
268	62.3	50.9	76.3



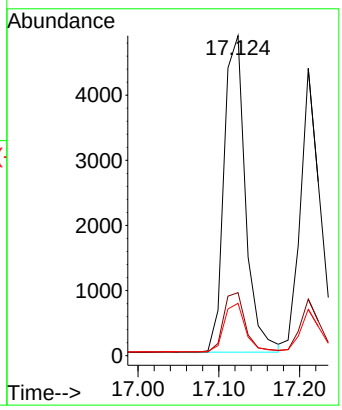


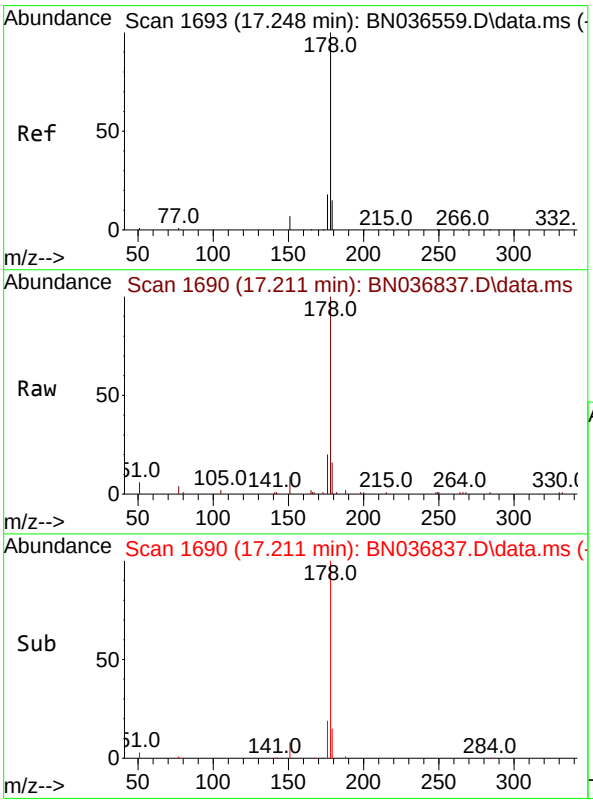
#25
Phenanthrene
Concen: 0.415 ng
RT: 17.124 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 8982

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.9	23.9
179	15.3	12.2	18.4

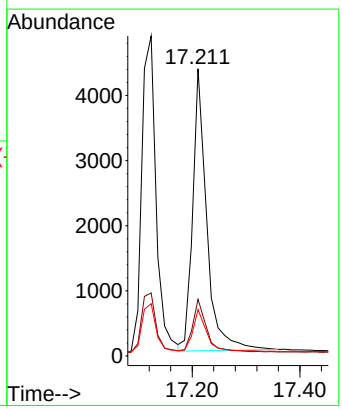


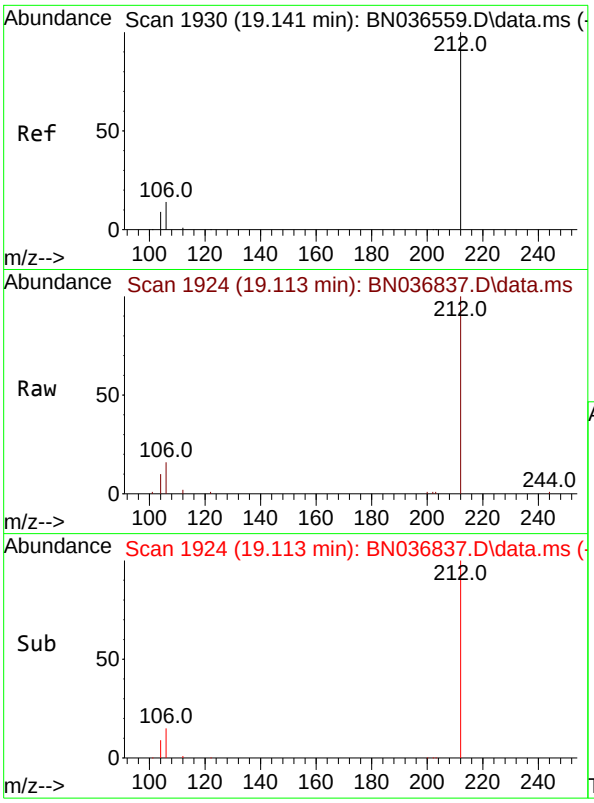


#26
Anthracene
Concen: 0.402 ng
RT: 17.211 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:178 Resp: 7861

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	14.9	12.6	18.8



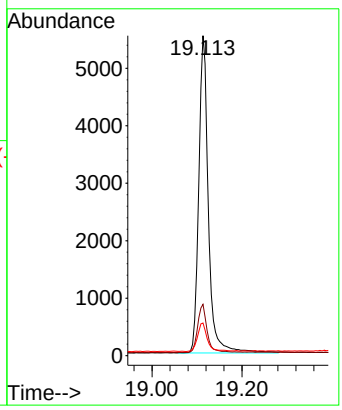


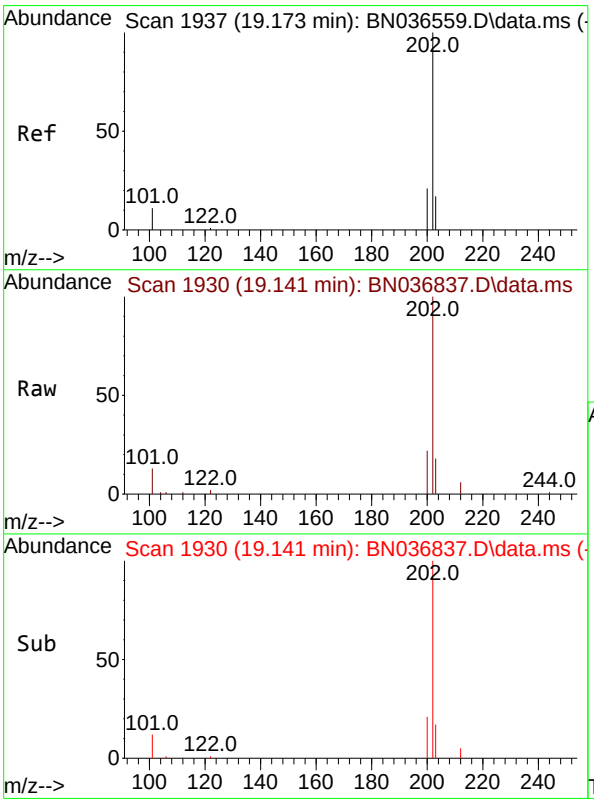
#27
Fluoranthene-d10
Concen: 0.445 ng
RT: 19.113 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 8227

Ion	Ratio	Lower	Upper
212	100		
106	14.9	11.8	17.6
104	9.2	7.3	10.9

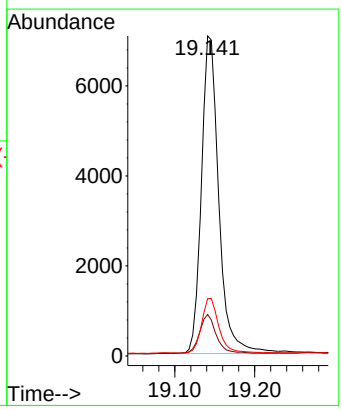


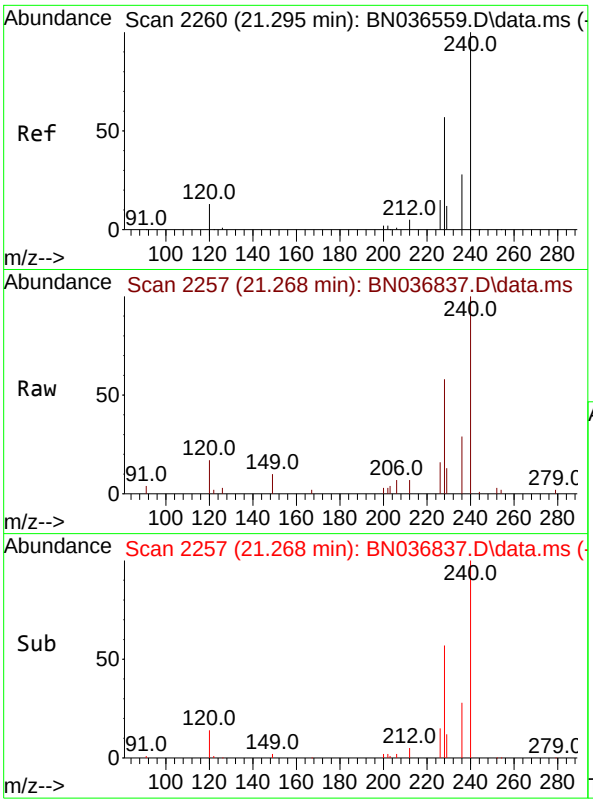


#28
Fluoranthene
Concen: 0.439 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:202 Resp: 10677

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.4	14.0
203	17.0	13.5	20.3



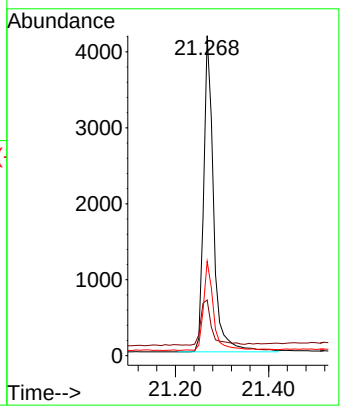


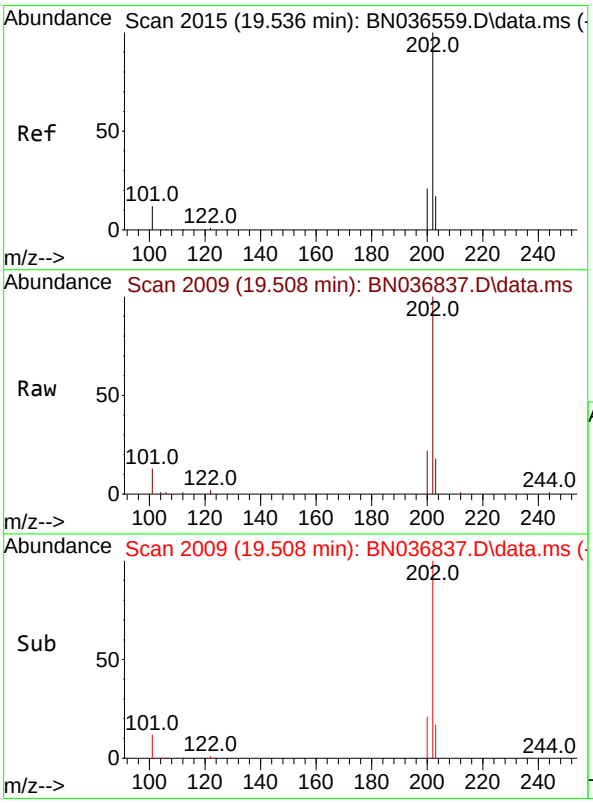
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 6202

Ion	Ratio	Lower	Upper
240	100		
120	17.4	14.6	22.0
236	29.5	24.1	36.1

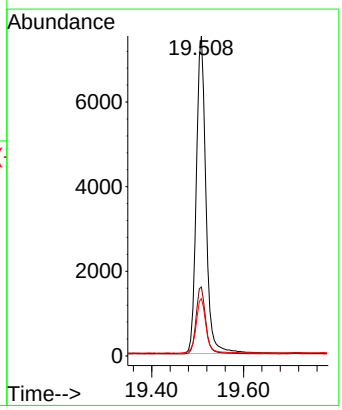


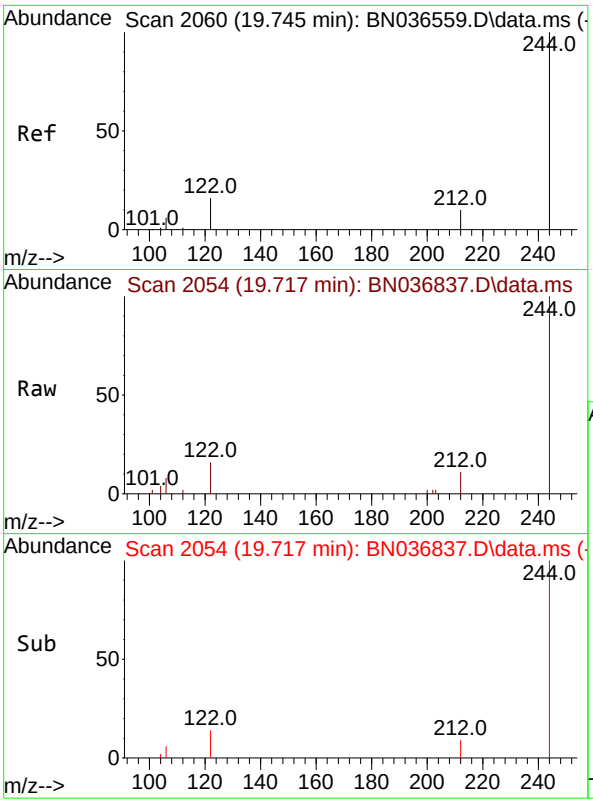


#30
Pyrene
Concen: 0.362 ng
RT: 19.508 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:202 Resp: 10985

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.8	14.1	21.1



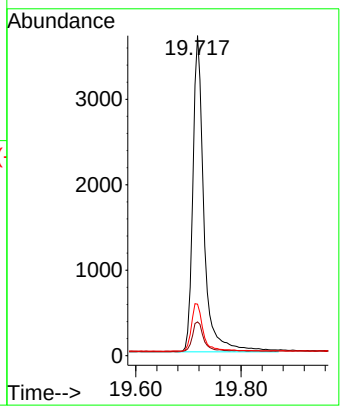


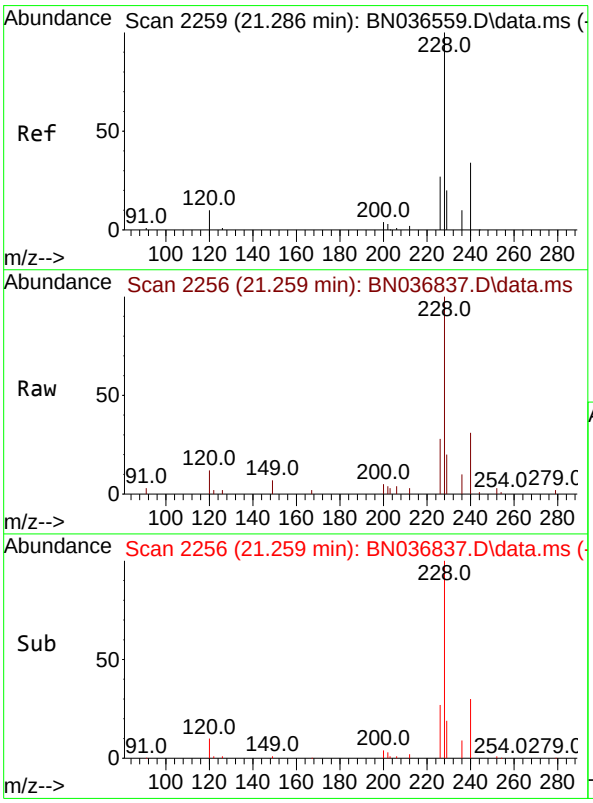
#31
Terphenyl-d14
Concen: 0.366 ng
RT: 19.717 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 5434

Ion	Ratio	Lower	Upper
244	100		
212	10.6	9.6	14.4
122	16.1	13.9	20.9

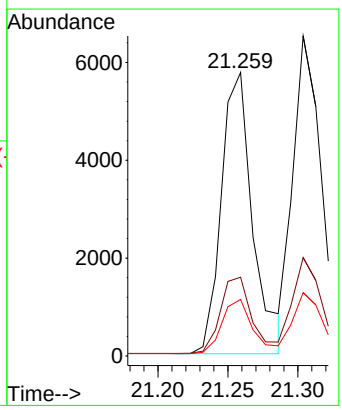


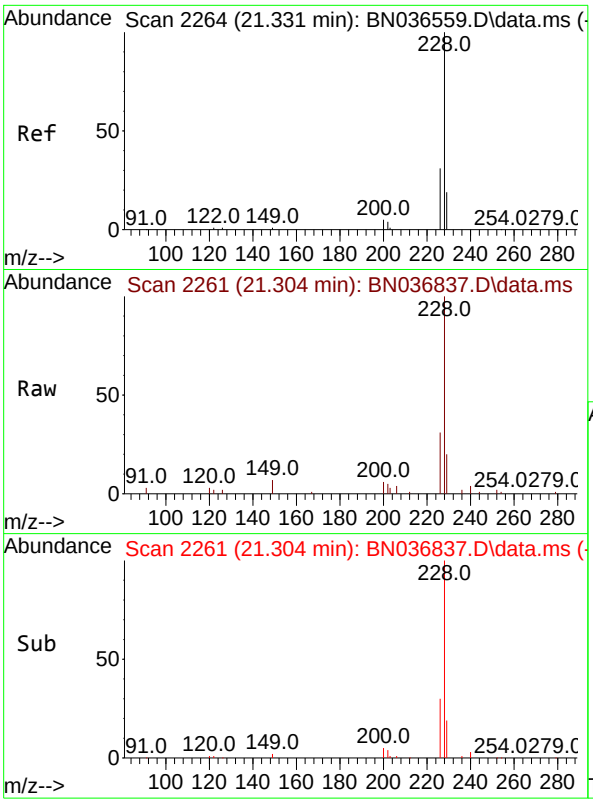


#32
Benzo(a)anthracene
Concen: 0.416 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:228 Resp: 8968

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.5	33.7
229	19.9	16.6	25.0



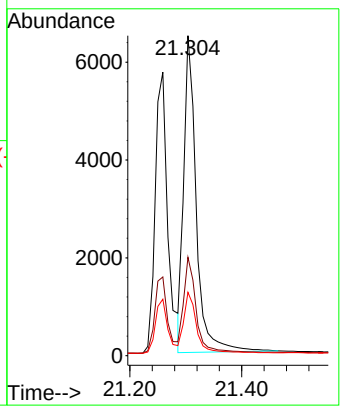


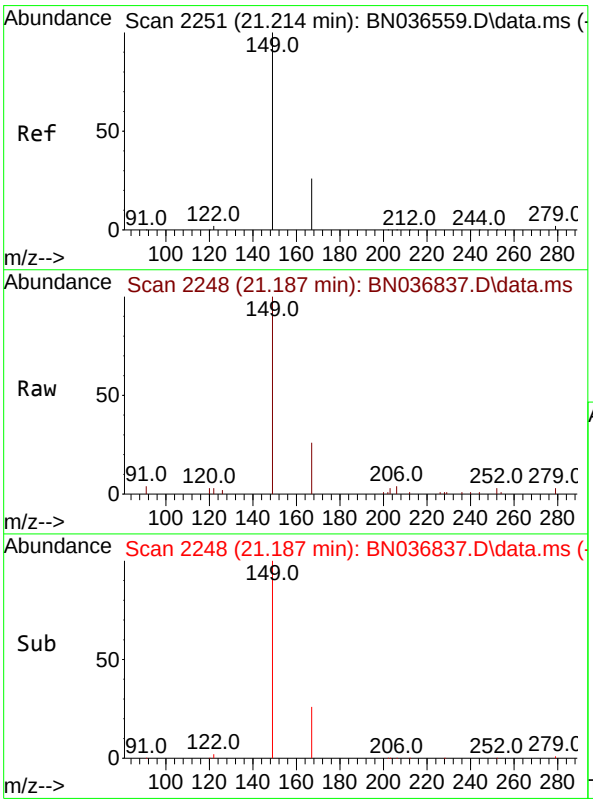
#33
Chrysene
Concen: 0.428 ng
RT: 21.304 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 10083

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.3	37.9
229	19.8	15.8	23.8

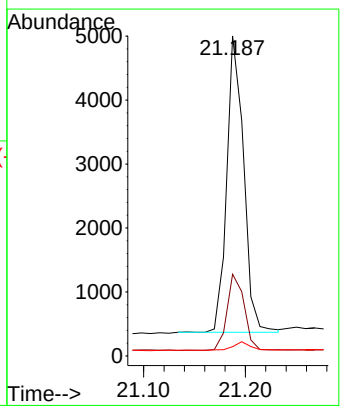


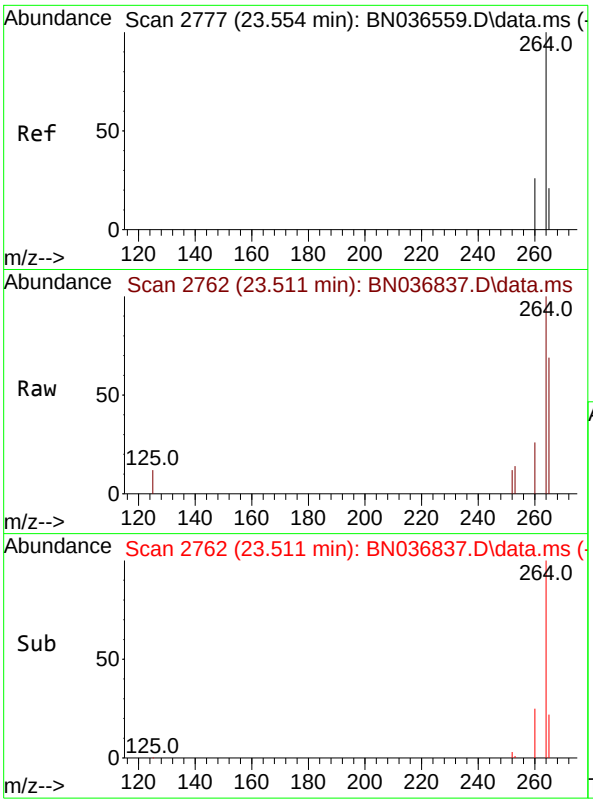


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.347 ng
RT: 21.187 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:149 Resp: 5324

Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.7	31.1
279	3.0	3.6	5.4#



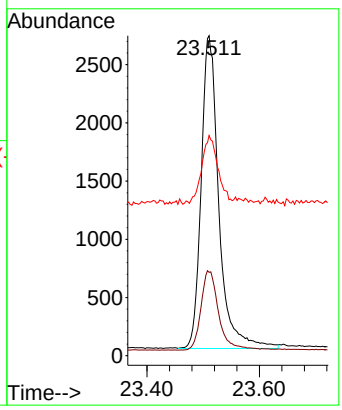


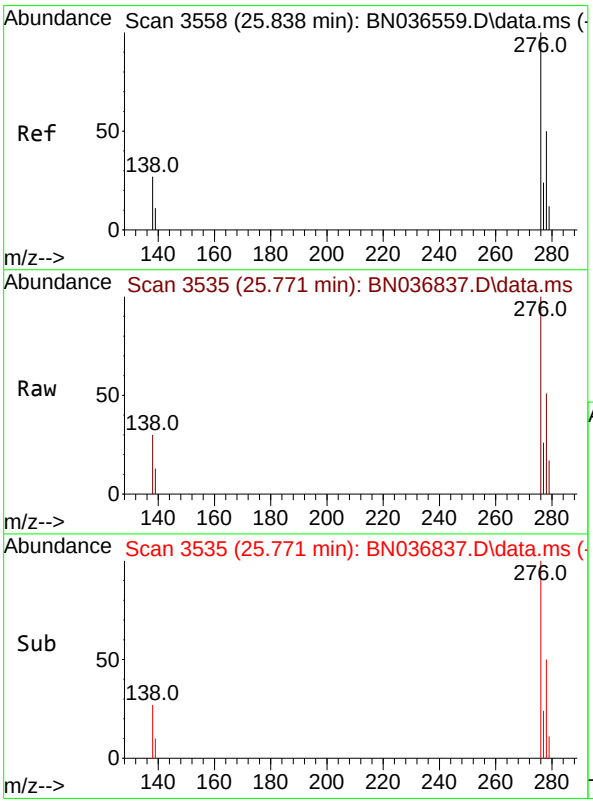
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.511 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 5846

Ion	Ratio	Lower	Upper
264	100		
260	26.0	22.6	33.8
265	68.8	88.1	132.1#

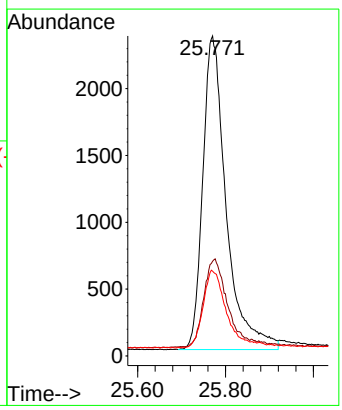


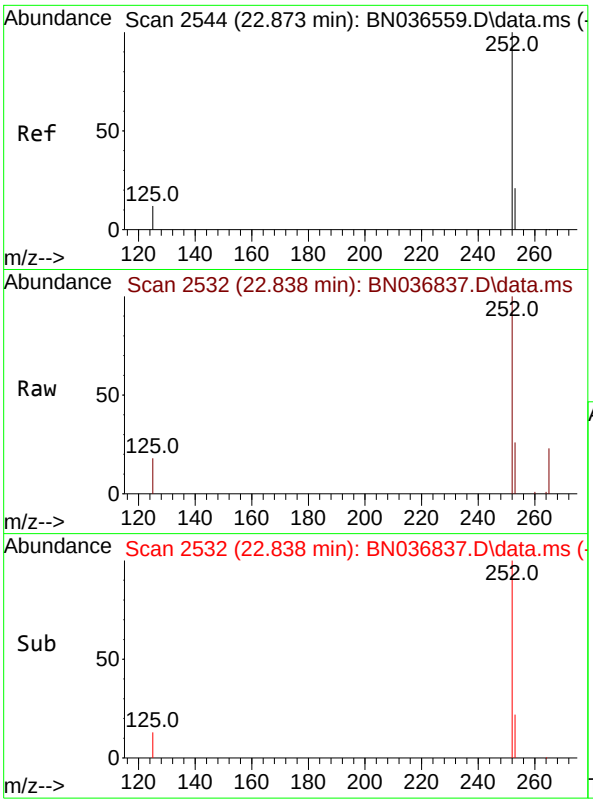


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.412 ng
RT: 25.771 min Scan# 3535
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:276 Resp: 8691

Ion	Ratio	Lower	Upper
276	100		
138	27.6	23.4	35.2
277	24.5	20.0	30.0



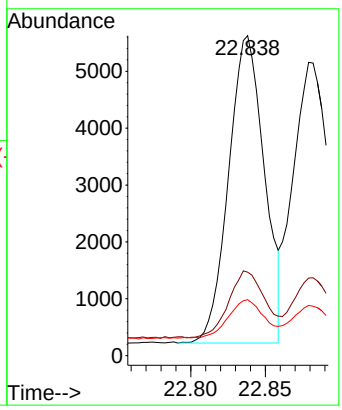


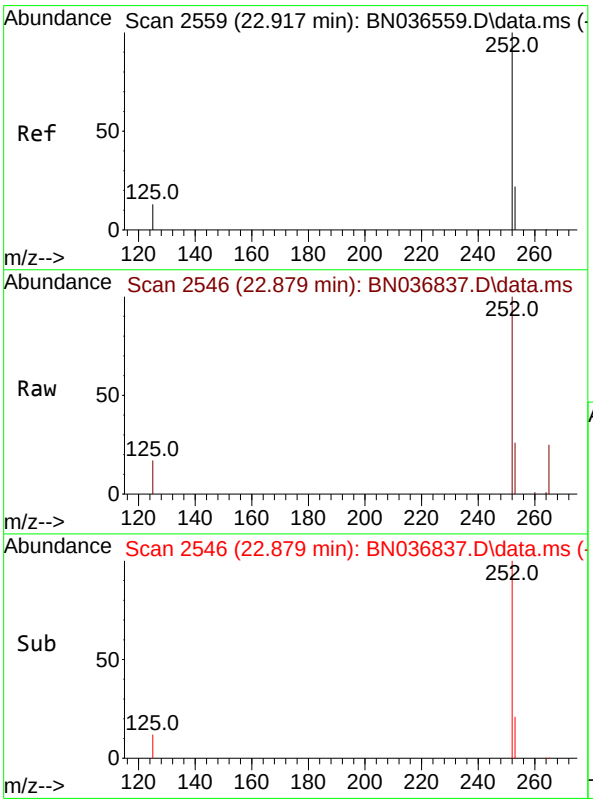
#37
Benzo(b)fluoranthene
Concen: 0.423 ng
RT: 22.838 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 9008

Ion	Ratio	Lower	Upper
252	100		
253	26.1	23.9	35.9
125	17.5	17.4	26.2

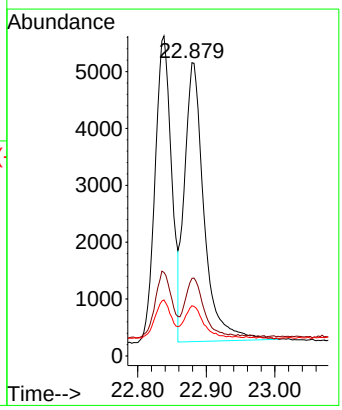


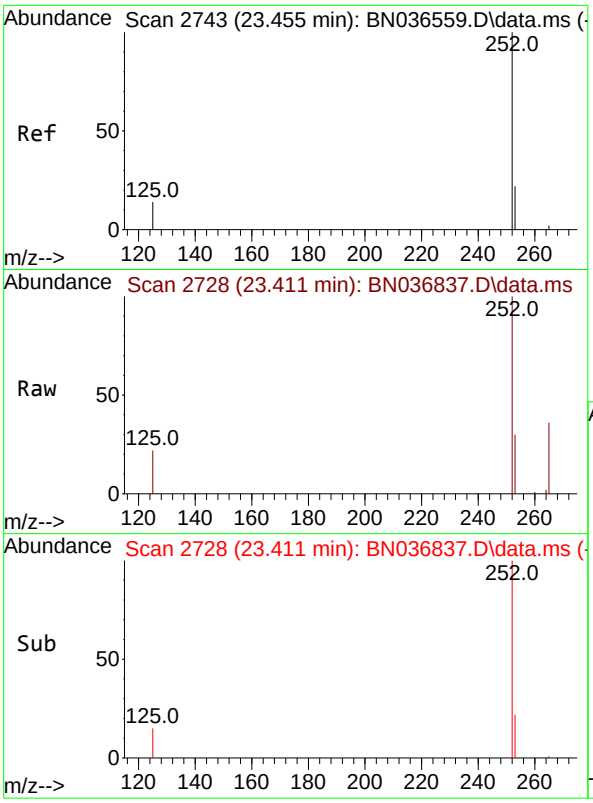


#38
Benzo(k)fluoranthene
Concen: 0.434 ng
RT: 22.879 min Scan# 2546
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:252 Resp: 9694

Ion	Ratio	Lower	Upper
252	100		
253	26.5	24.6	36.8
125	17.1	17.8	26.8#



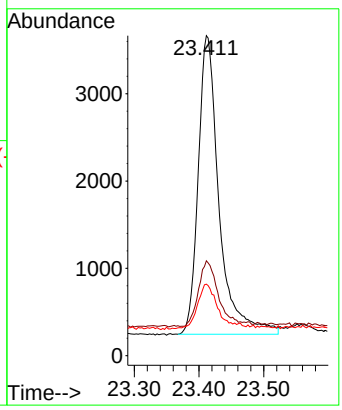


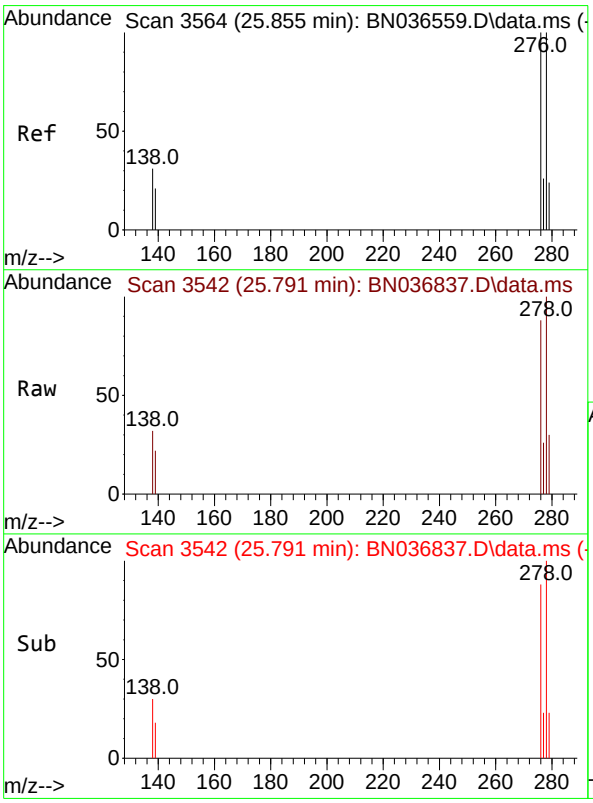
#39
Benzo(a)pyrene
Concen: 0.427 ng
RT: 23.411 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 7658

Ion	Ratio	Lower	Upper
252	100		
253	29.6	27.8	41.8
125	22.3	22.7	34.1#

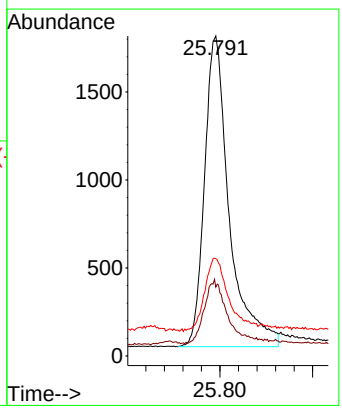


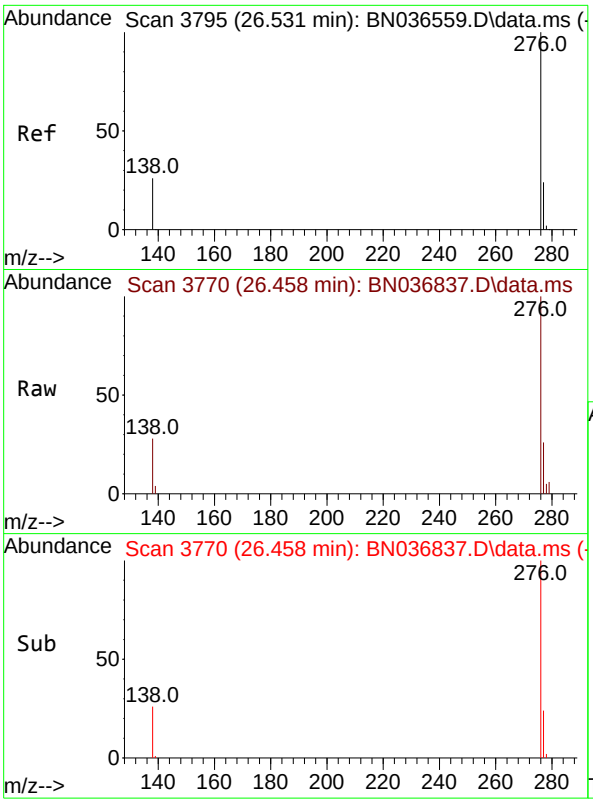


#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.791 min Scan# 3542
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Tgt Ion:278 Resp: 6556

Ion	Ratio	Lower	Upper
278	100		
139	21.5	20.8	31.2
279	30.4	28.8	43.2



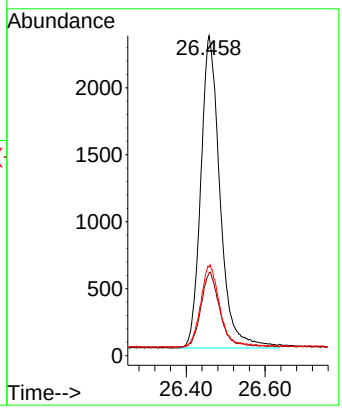


#41
Benzo(g,h,i)perylene
Concen: 0.420 ng
RT: 26.458 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036837.D
Acq: 04 Apr 2025 13:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 7891

Ion	Ratio	Lower	Upper
276	100		
277	25.9	22.2	33.4
138	27.7	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036837.D
Acq On : 04 Apr 2025 13:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 04 17:31:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 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	102	0.00
2		1,4-Dioxane	0.444	0.498	-12.2	102	0.00
3		n-Nitrosodimethylamine	0.898	0.953	-6.1	104	0.00
4	S	2-Fluorophenol	0.932	0.953	-2.3	99	0.00
5	S	Phenol-d6	1.152	1.161	-0.8	105	0.00
6		bis(2-Chloroethyl)ether	1.190	1.226	-3.0	106	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00
8	S	Nitrobenzene-d5	0.435	0.409	6.0	112	0.00
9		Naphthalene	1.177	1.169	0.7	110	0.00
10		Hexachlorobutadiene	0.277	0.266	4.0	102	0.00
11	SURR	2-Methylnaphthalene-d10	0.595	0.592	0.5	110	0.00
12		2-Methylnaphthalene	0.749	0.726	3.1	107	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	112	0.00
14	S	2,4,6-Tribromophenol	0.182	0.169	7.1	101	0.00
15	S	2-Fluorobiphenyl	2.327	2.149	7.6	100	0.00
16		Acenaphthylene	1.888	1.826	3.3	106	0.00
17		Acenaphthene	1.236	1.239	-0.2	108	0.00
18		Fluorene	1.672	1.701	-1.7	108	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	120	0.00
20		4,6-Dinitro-2-methylphenol	0.086	0.071	17.4	110	0.00
21		4-Bromophenyl-phenylether	0.251	0.242	3.6	106	0.00
22		Hexachlorobenzene	0.303	0.286	5.6	102	0.00
23		Atrazine	0.201	0.198	1.5	112	0.00
24		Pentachlorophenol	0.138	0.140	-1.4	123	0.00
25		Phenanthrene	1.200	1.244	-3.7	115	0.00
26		Anthracene	1.083	1.089	-0.6	114	0.00
27	SURR	Fluoranthene-d10	1.025	1.140	-11.2	123	0.00
28		Fluoranthene	1.348	1.479	-9.7	122	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	151#	0.00
30		Pyrene	1.956	1.771	9.5	125	0.00
31	S	Terphenyl-d14	0.958	0.876	8.6	129	0.00
32		Benzo(a)anthracene	1.391	1.446	-4.0	152#	0.00
33		Chrysene	1.520	1.626	-7.0	152#	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	0.858	13.3	124	0.00
35	I	Perylene-d12	1.000	1.000	0.0	165#	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.487	-3.0	159#	0.00
37		Benzo(b)fluoranthene	1.456	1.541	-5.8	165#	0.00
38		Benzo(k)fluoranthene	1.527	1.658	-8.6	169#	0.00
39	C	Benzo(a)pyrene	1.226	1.310	-6.9	166#	0.00
40		Dibenzo(a,h)anthracene	1.124	1.121	0.3	159#	0.00
41		Benzo(g,h,i)perylene	1.286	1.350	-5.0	161#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036837.D
Acq On : 04 Apr 2025 13:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 04 17:31:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 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	102	0.00
2		1,4-Dioxane	0.400	0.449	-12.2	102	0.00
3		n-Nitrosodimethylamine	0.400	0.425	-6.2	104	0.00
4	S	2-Fluorophenol	0.400	0.409	-2.2	99	0.00
5	S	Phenol-d6	0.400	0.403	-0.8	105	0.00
6		bis(2-Chloroethyl)ether	0.400	0.412	-3.0	106	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	113	0.00
8	S	Nitrobenzene-d5	0.400	0.376	6.0	112	0.00
9		Naphthalene	0.400	0.397	0.8	110	0.00
10		Hexachlorobutadiene	0.400	0.384	4.0	102	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.398	0.5	110	0.00
12		2-Methylnaphthalene	0.400	0.388	3.0	107	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	112	0.00
14	S	2,4,6-Tribromophenol	0.400	0.372	7.0	101	0.00
15	S	2-Fluorobiphenyl	0.400	0.369	7.8	100	0.00
16		Acenaphthylene	0.400	0.387	3.3	106	0.00
17		Acenaphthene	0.400	0.401	-0.3	108	0.00
18		Fluorene	0.400	0.407	-1.7	108	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	120	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.422	-5.5	110	0.00
21		4-Bromophenyl-phenylether	0.400	0.386	3.5	106	0.00
22		Hexachlorobenzene	0.400	0.379	5.3	102	0.00
23		Atrazine	0.400	0.394	1.5	112	0.00
24		Pentachlorophenol	0.400	0.405	-1.3	123	0.00
25		Phenanthrene	0.400	0.415	-3.7	115	0.00
26		Anthracene	0.400	0.402	-0.5	114	0.00
27	SURR	Fluoranthene-d10	0.400	0.445	-11.2	123	0.00
28		Fluoranthene	0.400	0.439	-9.7	122	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	151	0.00
30		Pyrene	0.400	0.362	9.5	125	0.00
31	S	Terphenyl-d14	0.400	0.366	8.5	129	0.00
32		Benzo(a)anthracene	0.400	0.416	-4.0	152	0.00
33		Chrysene	0.400	0.428	-7.0	152	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.347	13.3	124	0.00
35	I	Perylene-d12	0.400	0.400	0.0	165	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.412	-3.0	159	0.00
37		Benzo(b)fluoranthene	0.400	0.423	-5.7	165	0.00
38		Benzo(k)fluoranthene	0.400	0.434	-8.5	169	0.00
39	C	Benzo(a)pyrene	0.400	0.427	-6.7	166	0.00
40		Dibenzo(a,h)anthracene	0.400	0.399	0.3	159	0.00
41		Benzo(g,h,i)perylene	0.400	0.420	-5.0	161	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: JACO05

Lab Code: CHEM Case No.: Q1731 SAS No.: Q1731 SDG No.: Q1731

Instrument ID: BNA_N Calibration Date/Time: 04/07/2025 09:10

Lab File ID: BN036847.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.593		-0.3	20.0
Fluoranthene-d10	1.025	1.128		10.0	20.0
2-Fluorophenol	0.932	0.910		-2.4	20.0
Phenol-d6	1.152	1.108		-3.8	20.0
Nitrobenzene-d5	0.435	0.406		-6.7	20.0
2-Fluorobiphenyl	2.327	2.119		-8.9	20.0
2,4,6-Tribromophenol	0.182	0.174		-4.4	20.0
Terphenyl-d14	0.958	0.887		-7.4	20.0
1,4-Dioxane	0.444	0.474		6.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036847.D
Acq On : 07 Apr 2025 09:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Apr 07 10:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

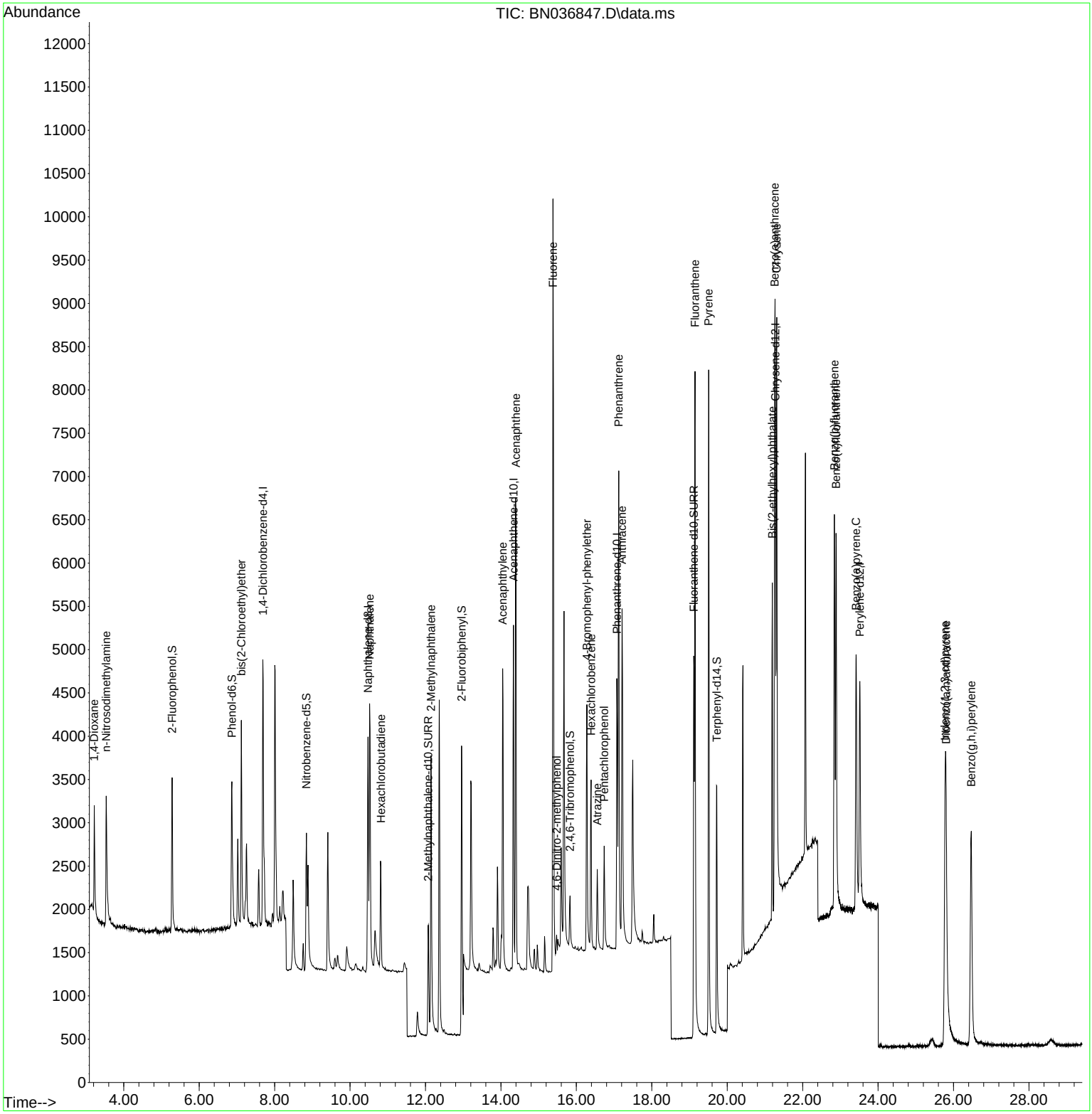
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.688	152	1549	0.400	ng		0.00
7) Naphthalene-d8	10.477	136	3923	0.400	ng		0.00
13) Acenaphthene-d10	14.334	164	2335	0.400	ng		0.00
19) Phenanthrene-d10	17.074	188	5079	0.400	ng	#	0.00
29) Chrysene-d12	21.277	240	4233	0.400	ng	#	0.00
35) Perylene-d12	23.516	264	3968	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.283	112	1410	0.391	ng		0.00
5) Phenol-d6	6.865	99	1716	0.385	ng		0.00
8) Nitrobenzene-d5	8.843	82	1593	0.373	ng		0.00
11) 2-Methylnaphthalene-d10	12.070	152	2328	0.399	ng		0.00
14) 2,4,6-Tribromophenol	15.833	330	407	0.384	ng		0.00
15) 2-Fluorobiphenyl	12.958	172	4949	0.364	ng		0.00
27) Fluoranthene-d10	19.113	212	5730	0.440	ng		0.00
31) Terphenyl-d14	19.722	244	3755	0.370	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.218	88	734	0.427	ng		92
3) n-Nitrosodimethylamine	3.535	42	1544	0.444	ng	#	98
6) bis(2-Chloroethyl)ether	7.118	93	1860	0.403	ng		100
9) Naphthalene	10.519	128	4595	0.398	ng		100
10) Hexachlorobutadiene	10.818	225	1067	0.393	ng	#	99
12) 2-Methylnaphthalene	12.146	142	2892	0.394	ng		99
16) Acenaphthylene	14.045	152	4321	0.392	ng		99
17) Acenaphthene	14.398	154	2923	0.405	ng		99
18) Fluorene	15.382	166	4059	0.416	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	376	0.436	ng		94
21) 4-Bromophenyl-phenylether	16.280	248	1208	0.380	ng	#	87
22) Hexachlorobenzene	16.391	284	1498	0.390	ng		97
23) Atrazine	16.553	200	989	0.388	ng		96
24) Pentachlorophenol	16.739	266	719	0.410	ng		97
25) Phenanthrene	17.124	178	6306	0.414	ng		99
26) Anthracene	17.210	178	5484	0.399	ng		98
28) Fluoranthene	19.146	202	7695	0.450	ng		99
30) Pyrene	19.508	202	7751	0.374	ng		100
32) Benzo(a)anthracene	21.259	228	5720	0.389	ng		99
33) Chrysene	21.313	228	7221	0.449	ng		98
34) Bis(2-ethylhexyl)phtha...	21.196	149	3698	0.353	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.773	276	5962	0.416	ng		96
37) Benzo(b)fluoranthene	22.841	252	6173	0.427	ng		96
38) Benzo(k)fluoranthene	22.885	252	6741	0.445	ng		93
39) Benzo(a)pyrene	23.417	252	5226	0.430	ng		93
40) Dibenzo(a,h)anthracene	25.803	278	4339	0.389	ng		96
41) Benzo(g,h,i)perylene	26.469	276	5619	0.441	ng		98

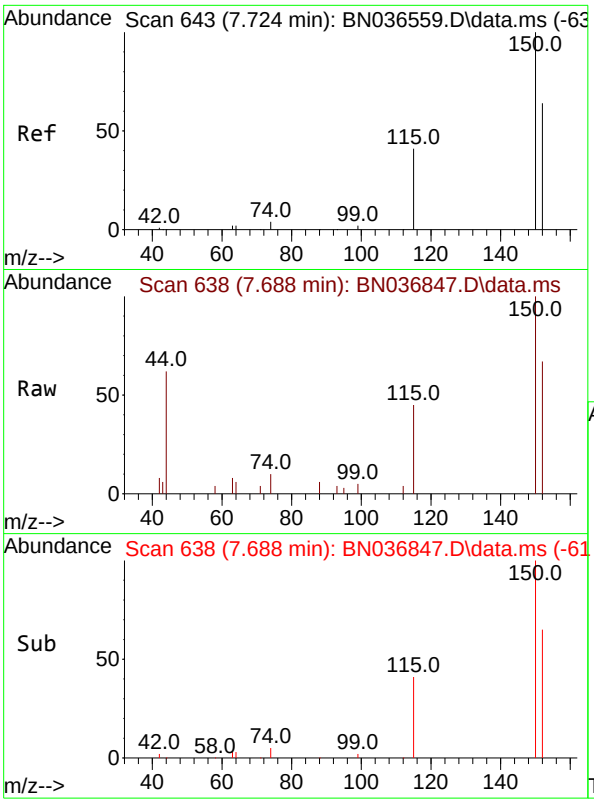
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036847.D
Acq On : 07 Apr 2025 09:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Apr 07 10:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration



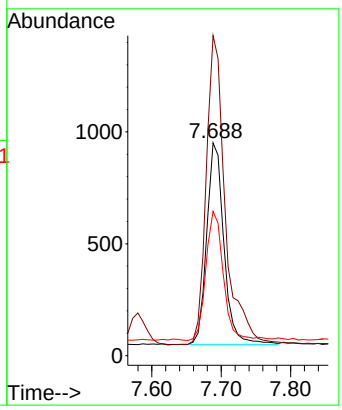


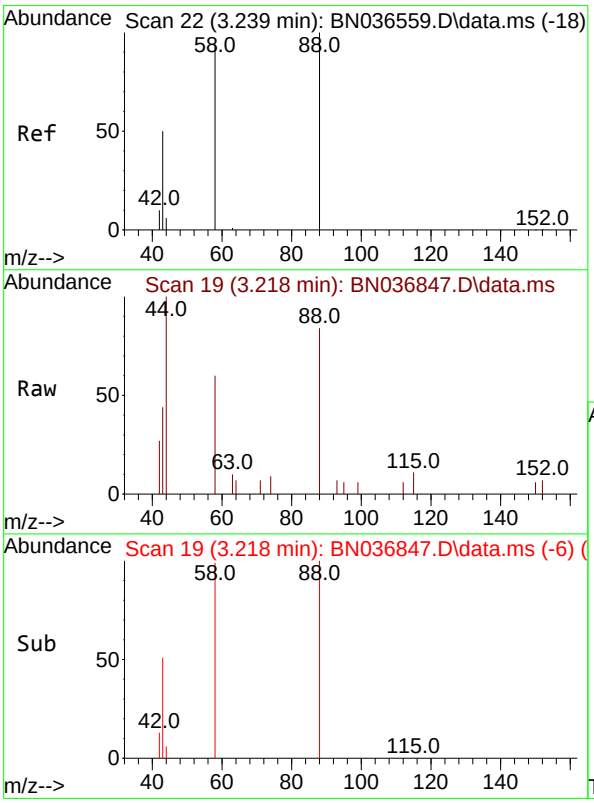
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.688 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1549

Ion	Ratio	Lower	Upper
152	100		
150	150.4	123.7	185.5
115	67.8	54.3	81.5

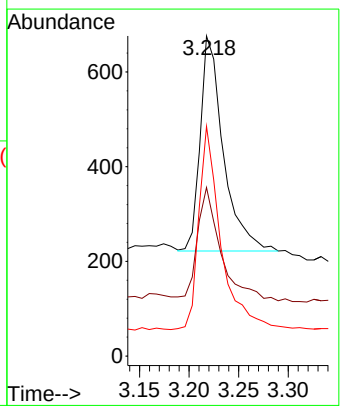


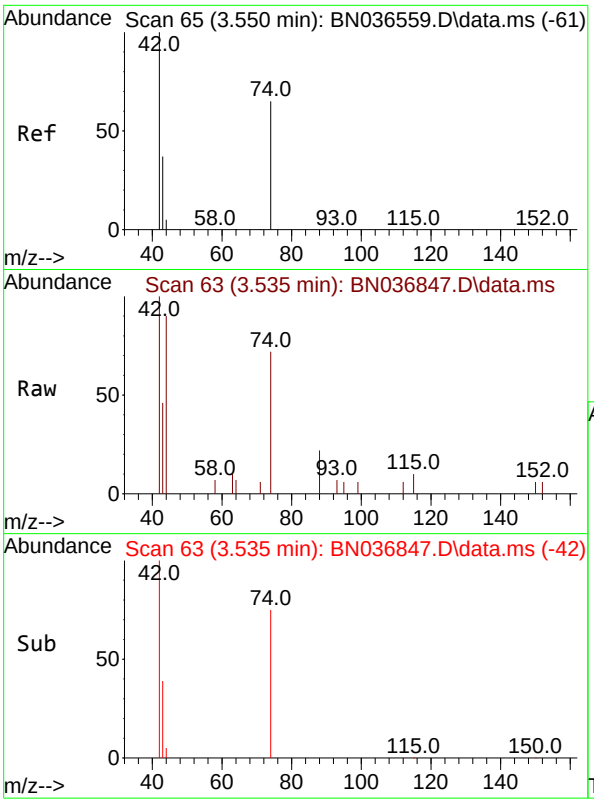


#2
1,4-Dioxane
Concen: 0.427 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.007 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion: 88 Resp: 734

Ion	Ratio	Lower	Upper
88	100		
43	53.5	37.8	56.8
58	90.7	67.4	101.2



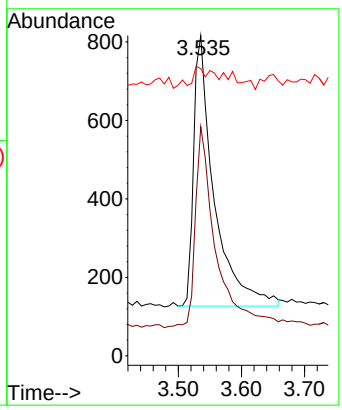


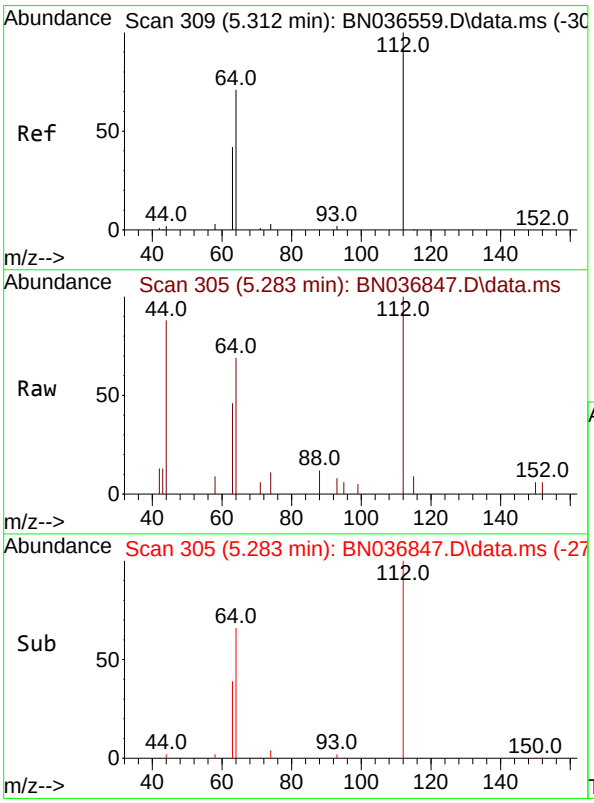
#3
n-Nitrosodimethylamine
Concen: 0.444 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1544

Ion	Ratio	Lower	Upper
42	100		
74	74.7	60.6	90.8
44	6.1	6.3	9.5#

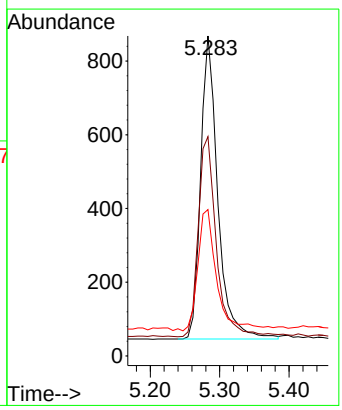


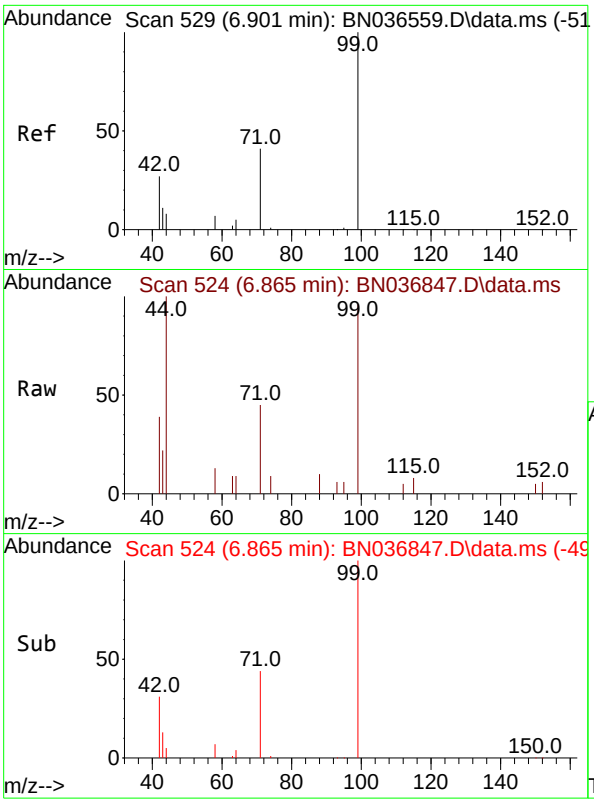


#4
2-Fluorophenol
Concen: 0.391 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:112 Resp: 1410

Ion	Ratio	Lower	Upper
112	100		
64	70.4	53.1	79.7
63	45.0	31.8	47.8



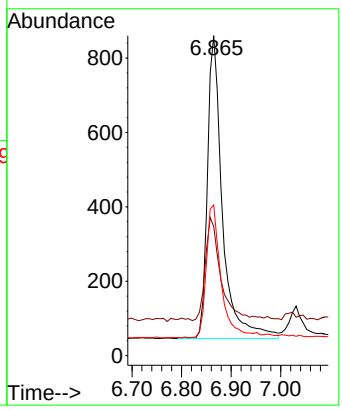


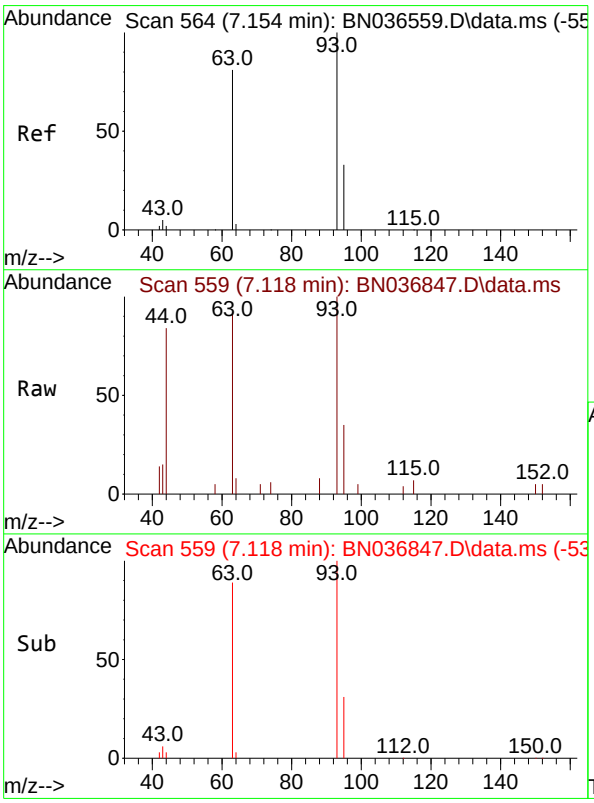
#5
Phenol-d6
Concen: 0.385 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1716

Ion	Ratio	Lower	Upper
99	100		
42	36.0	26.5	39.7
71	43.4	34.1	51.1

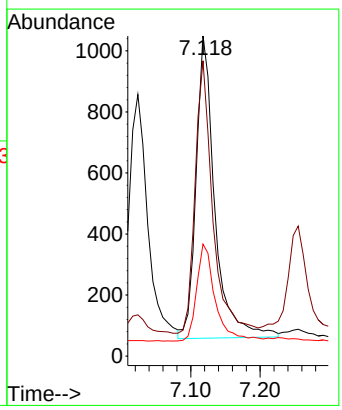


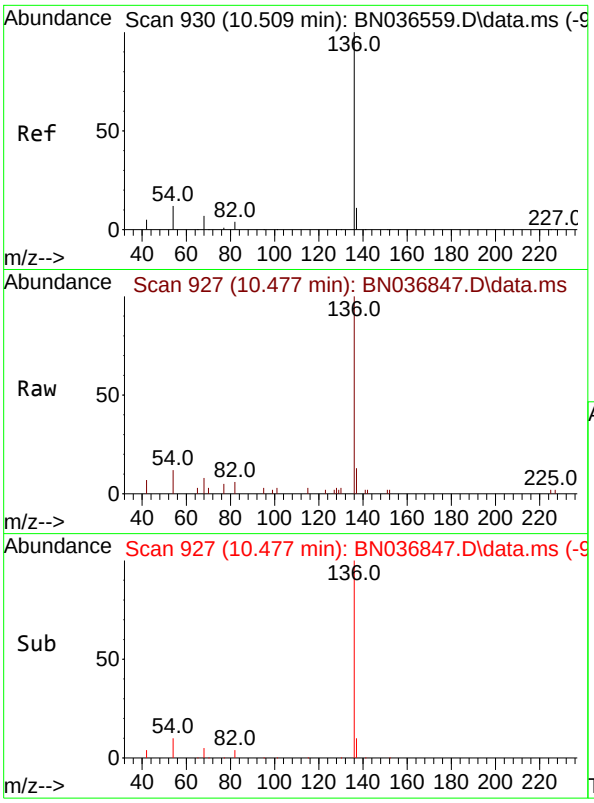


#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion: 93 Resp: 1860

Ion	Ratio	Lower	Upper
93	100		
63	84.7	67.7	101.5
95	31.8	25.6	38.4



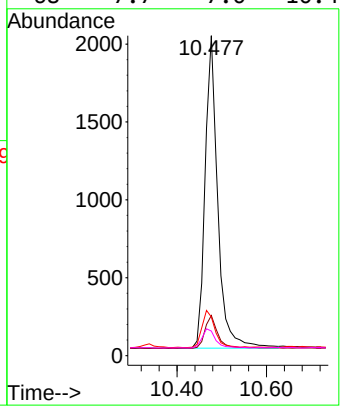


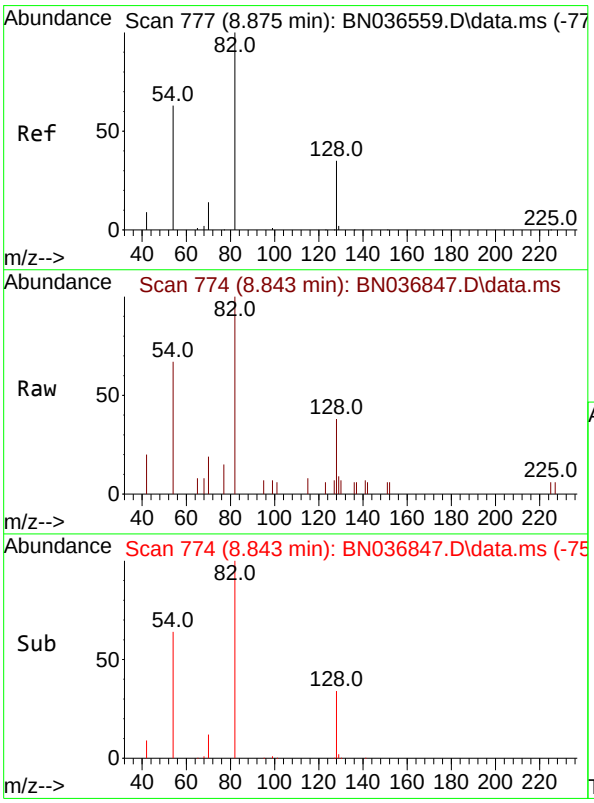
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 3923

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	12.1	11.5	17.3
68	7.7	7.0	10.4

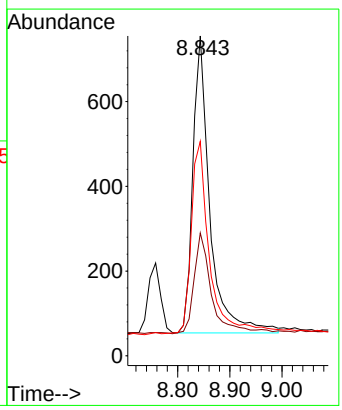


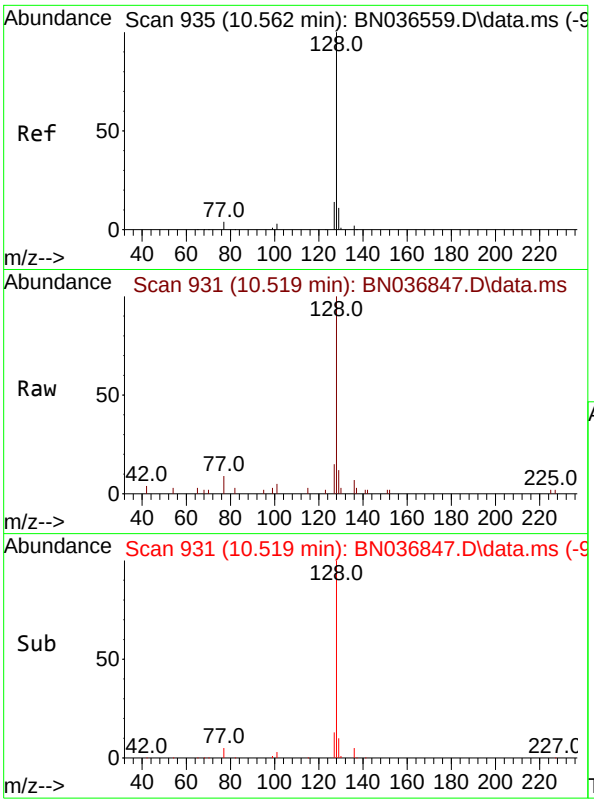


#8
Nitrobenzene-d5
Concen: 0.373 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion: 82 Resp: 1593

Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.6	45.8
54	67.0	52.2	78.4



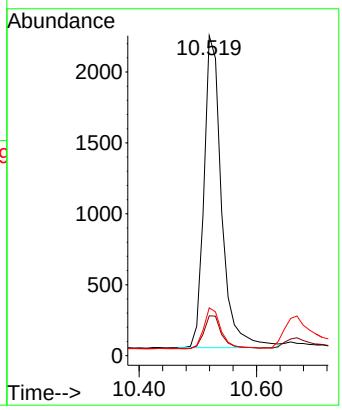


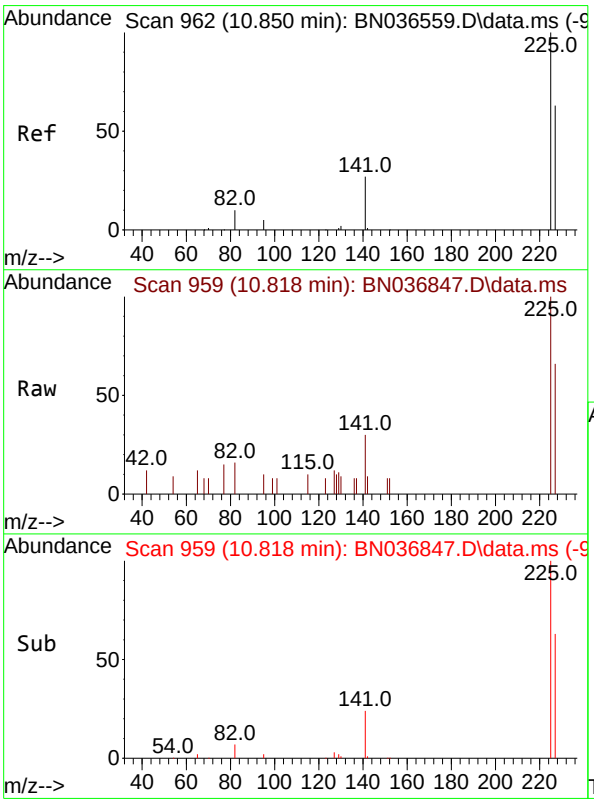
#9
Naphthalene
Concen: 0.398 ng
RT: 10.519 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4595

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.9	11.8	17.8

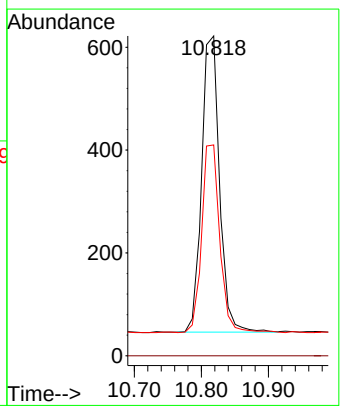


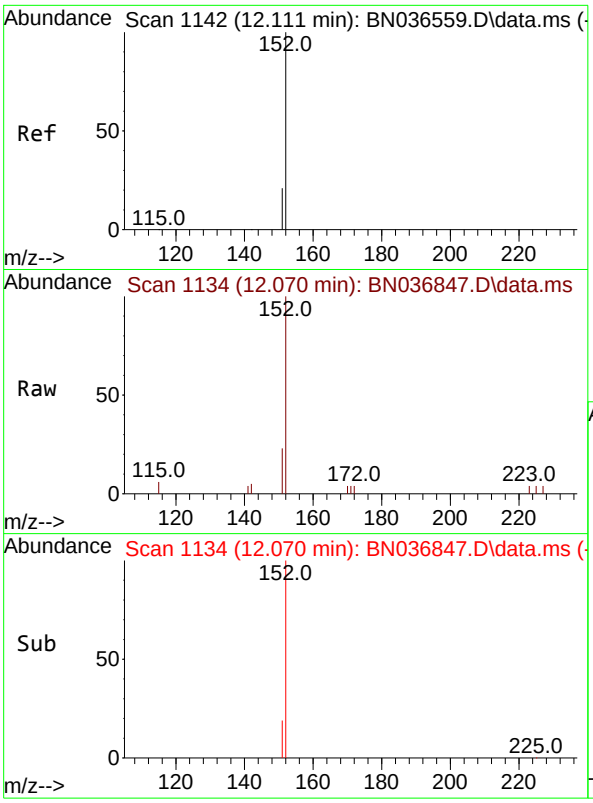


#10
Hexachlorobutadiene
Concen: 0.393 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:225 Resp: 1067

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.8	77.8



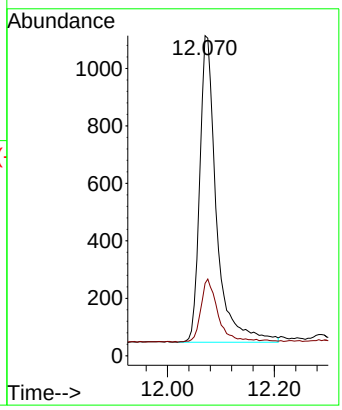


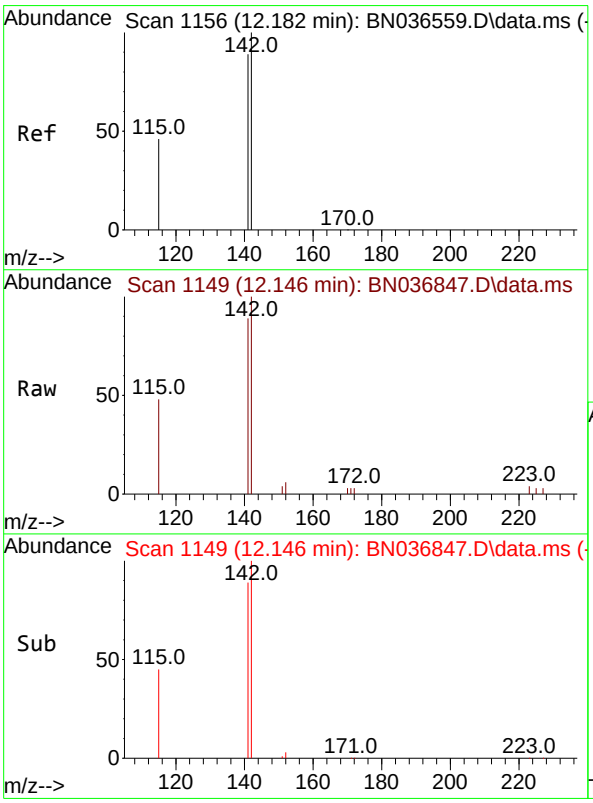
#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.070 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2328

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

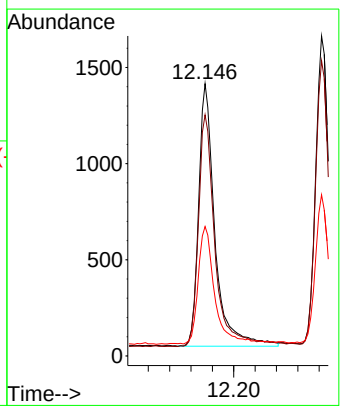


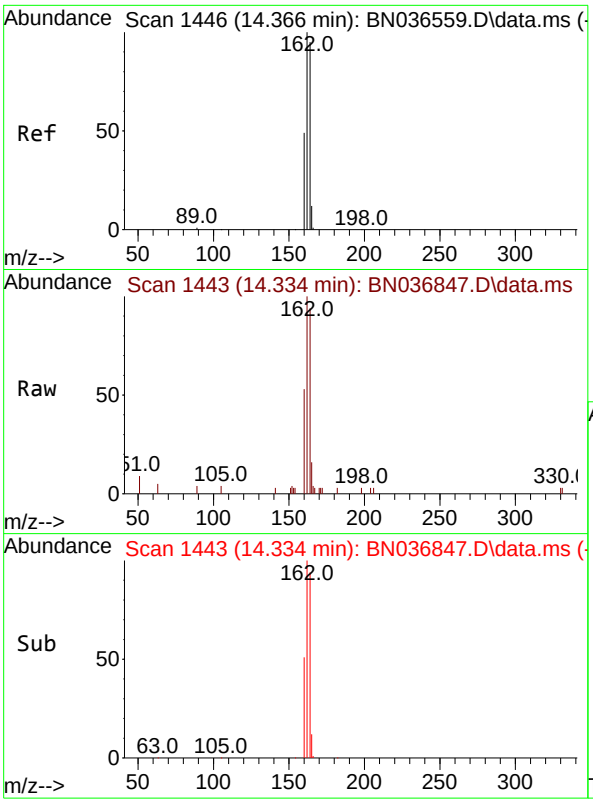


#12
2-Methylnaphthalene
Concen: 0.394 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:142 Resp: 2892

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.7	107.5
115	47.5	38.3	57.5



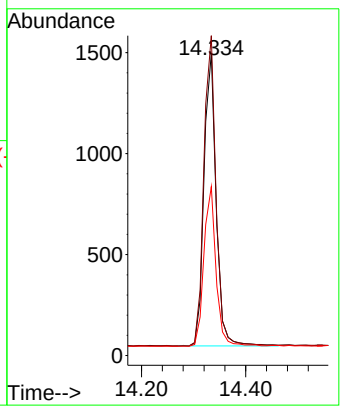


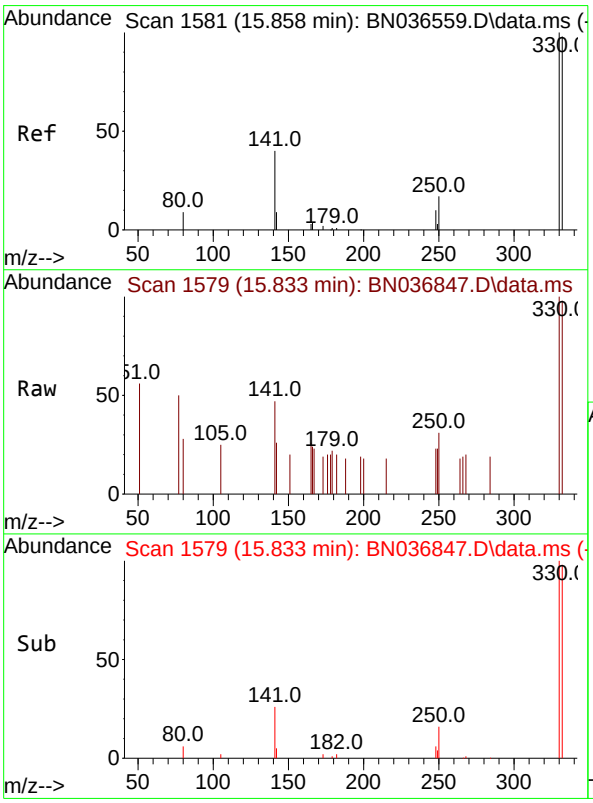
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2335

Ion	Ratio	Lower	Upper
164	100		
162	105.9	84.2	126.2
160	55.9	42.2	63.2

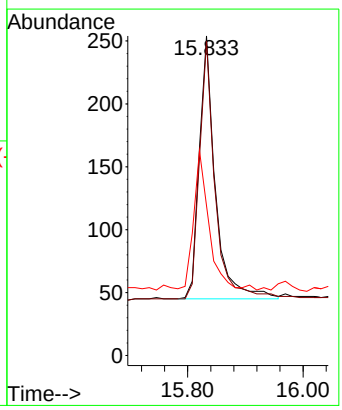


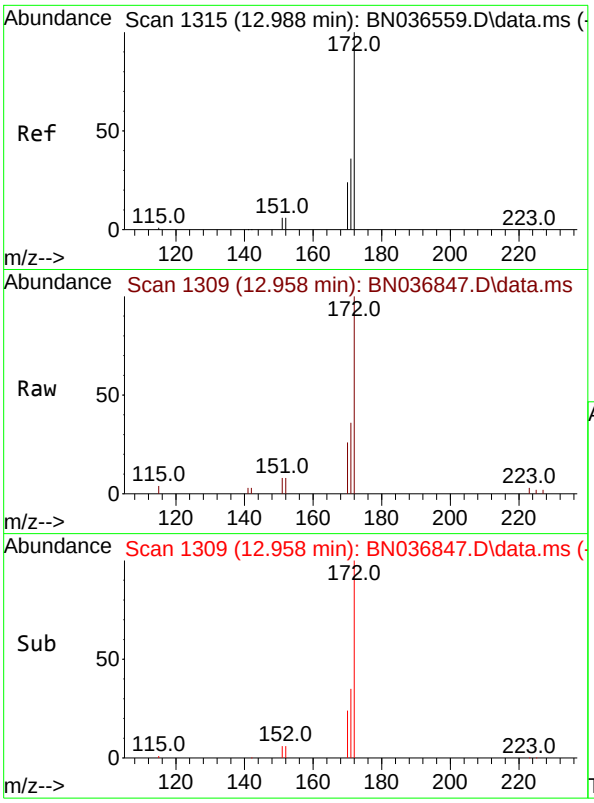


#14
2,4,6-Tribromophenol
Concen: 0.384 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:330 Resp: 407

Ion	Ratio	Lower	Upper
330	100		
332	94.8	75.2	112.8
141	48.9	43.4	65.2



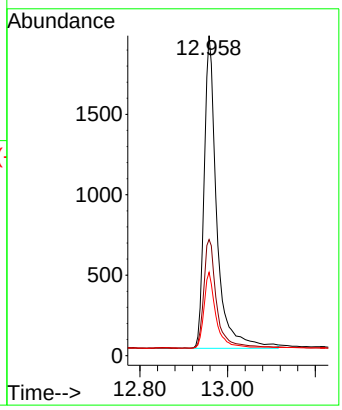


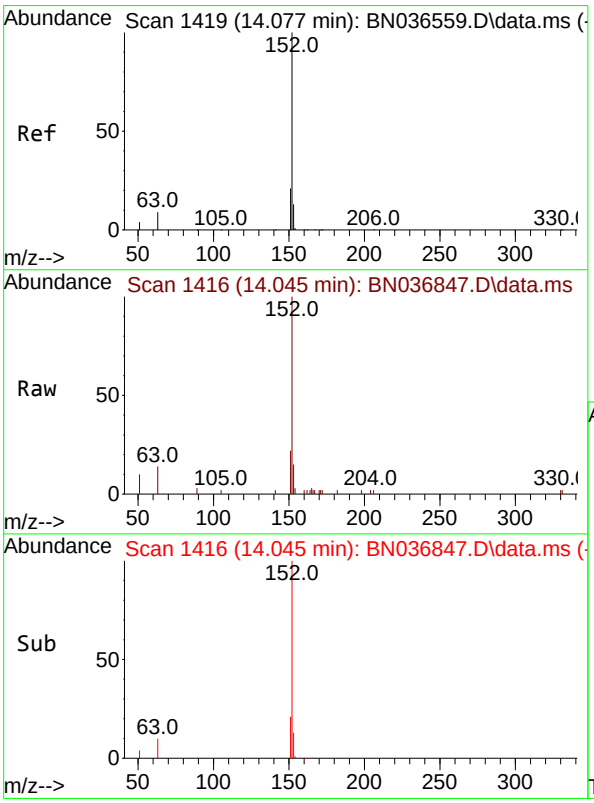
#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 4949

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.5	44.3
170	26.0	20.2	30.4

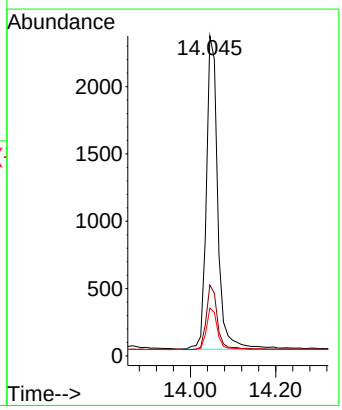


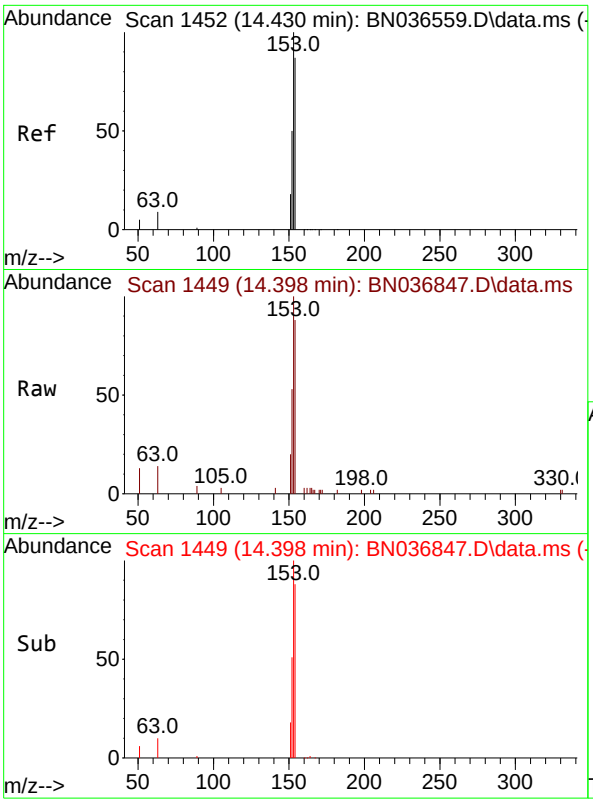


#16
Acenaphthylene
Concen: 0.392 ng
RT: 14.045 min Scan# 1416
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:152 Resp: 4321

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	12.7	10.6	15.8



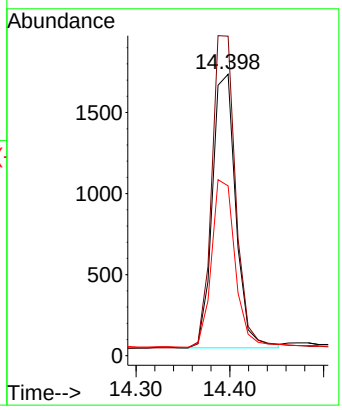


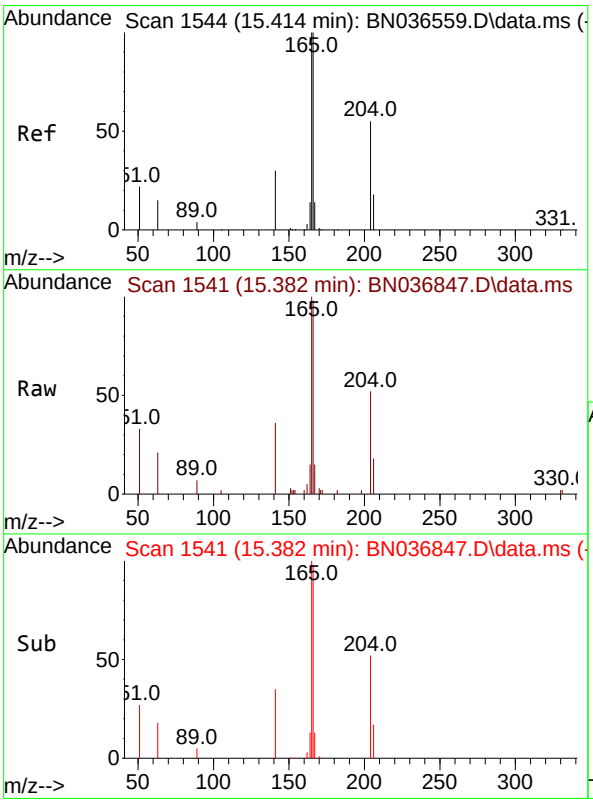
#17
Acenaphthene
Concen: 0.405 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 2923

Ion	Ratio	Lower	Upper
154	100		
153	118.3	94.1	141.1
152	62.5	49.8	74.6

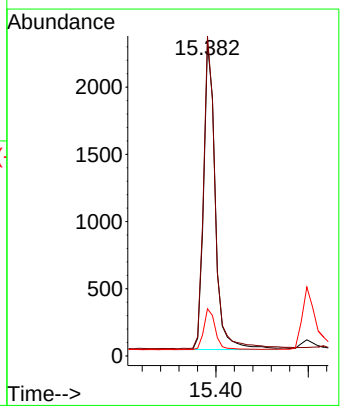


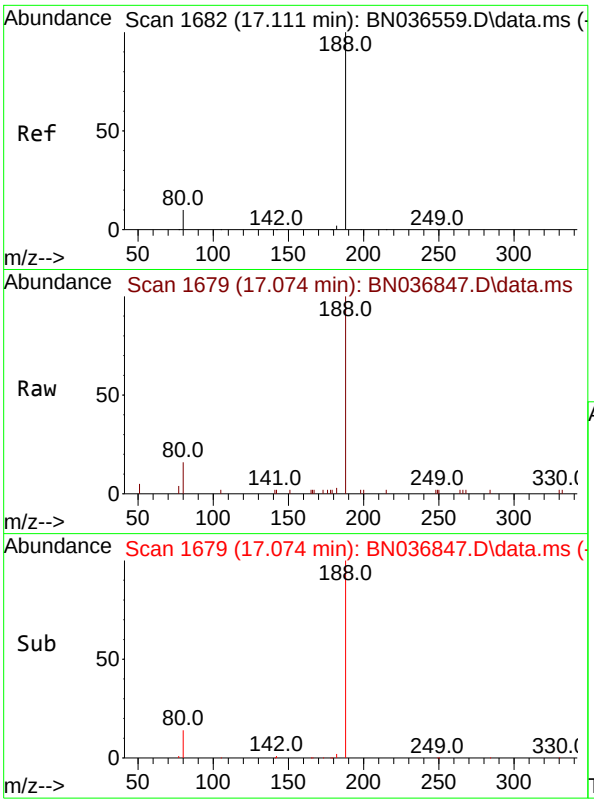


#18
Fluorene
Concen: 0.416 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:166 Resp: 4059

Ion	Ratio	Lower	Upper
166	100		
165	101.4	79.8	119.8
167	13.0	10.6	15.8



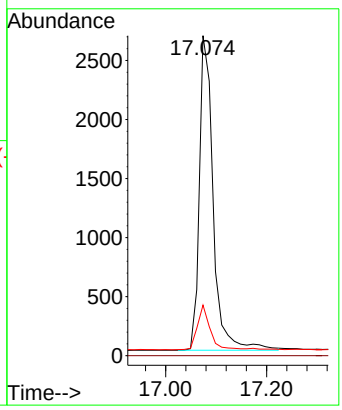


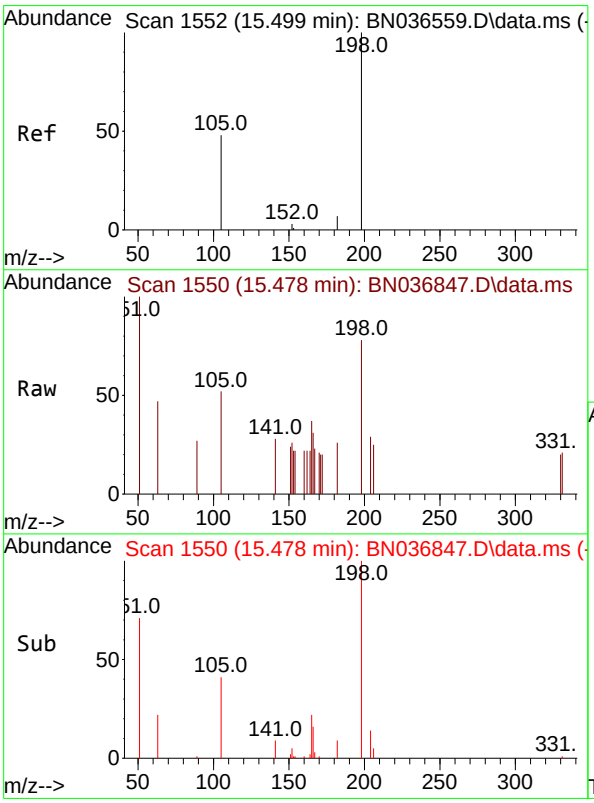
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.074 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 5079

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.8	8.8	13.2#

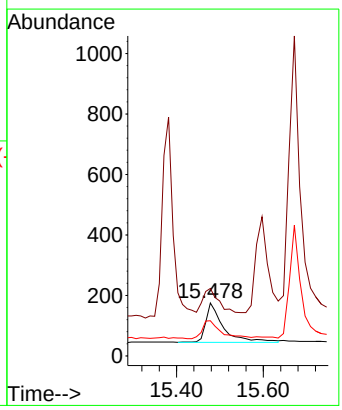


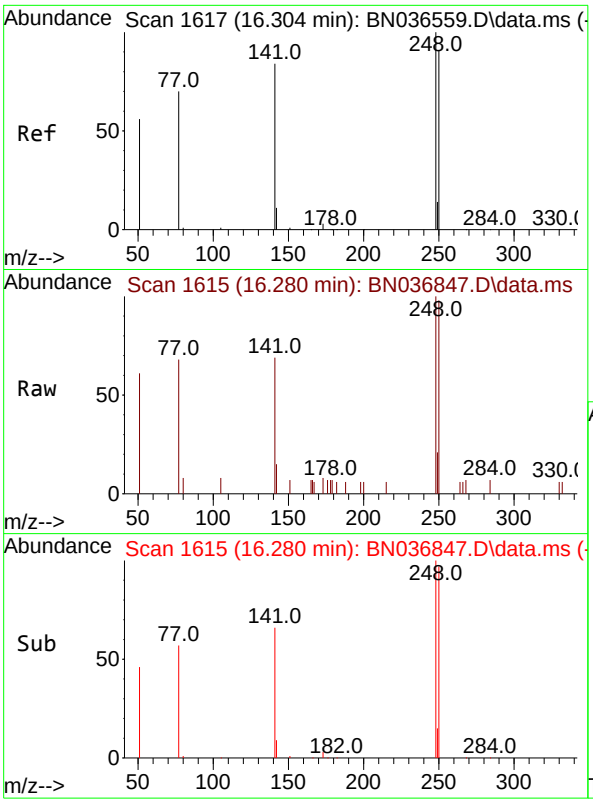


#20
4,6-Dinitro-2-methylphenol
Concen: 0.436 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:198 Resp: 376

Ion	Ratio	Lower	Upper
198	100		
51	127.4	107.9	161.9
105	66.3	56.2	84.2



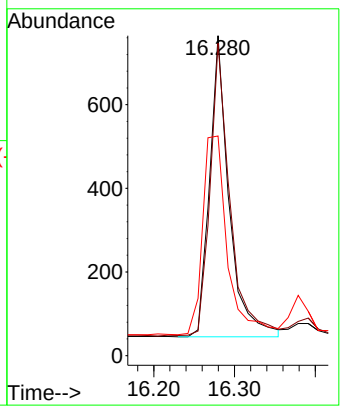


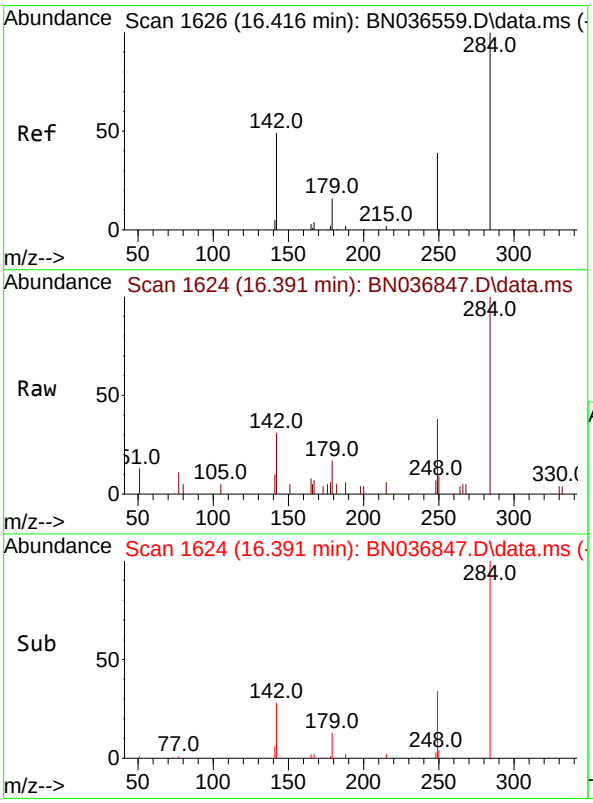
#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1208

Ion	Ratio	Lower	Upper
248	100		
250	97.6	73.0	109.6
141	68.6	68.6	103.0#

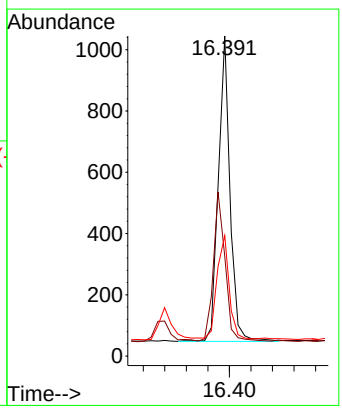


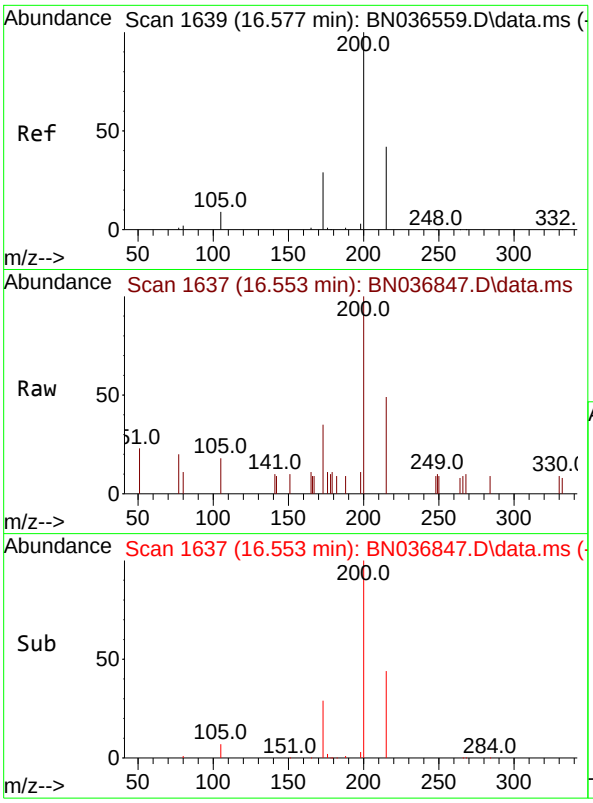


#22
Hexachlorobenzene
Concen: 0.390 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:284 Resp: 1498

Ion	Ratio	Lower	Upper
284	100		
142	48.9	37.0	55.4
249	36.3	28.1	42.1



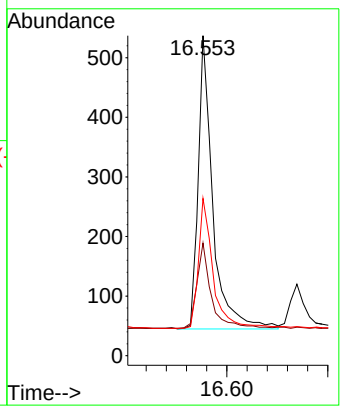


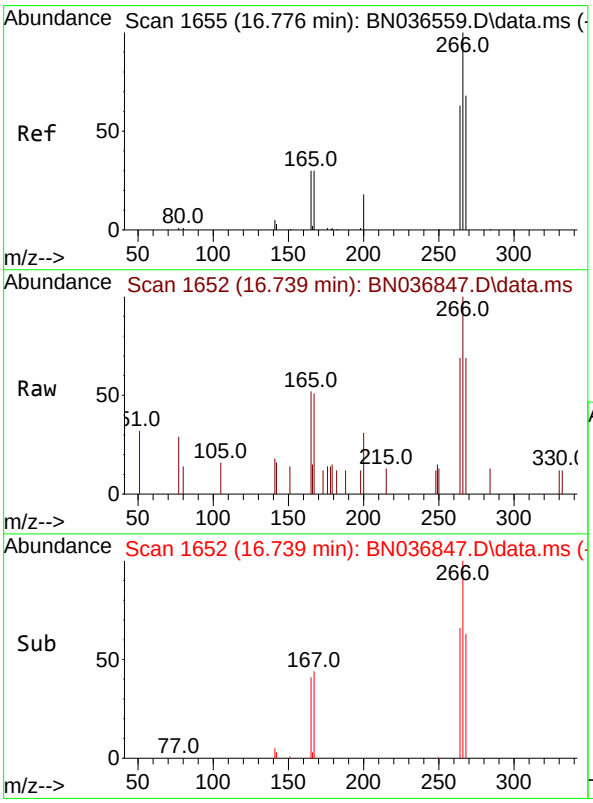
#23
Atrazine
Concen: 0.388 ng
RT: 16.553 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 989

Ion	Ratio	Lower	Upper
200	100		
173	35.2	27.3	40.9
215	49.2	36.8	55.2

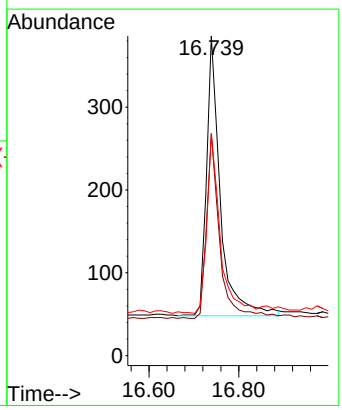


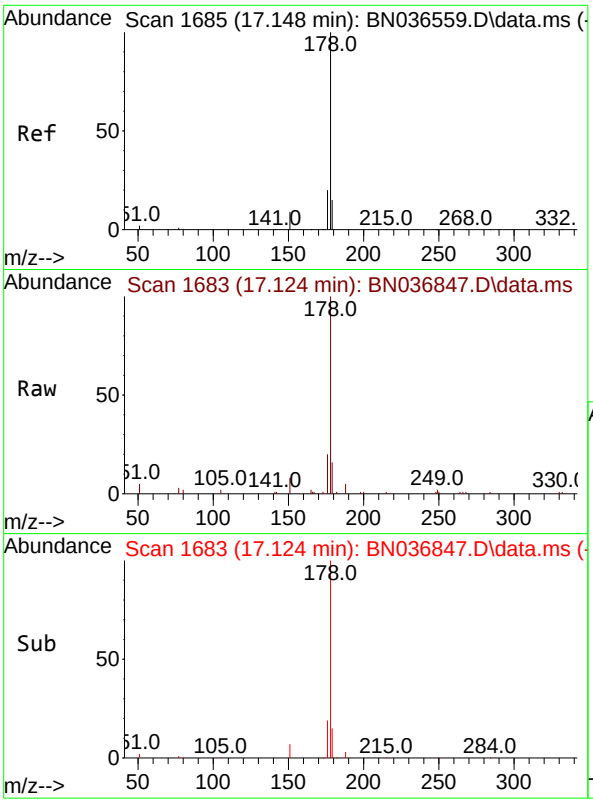


#24
Pentachlorophenol
Concen: 0.410 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:266 Resp: 719

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.6	74.4
268	60.4	50.9	76.3



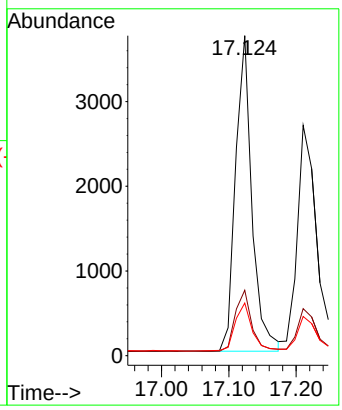


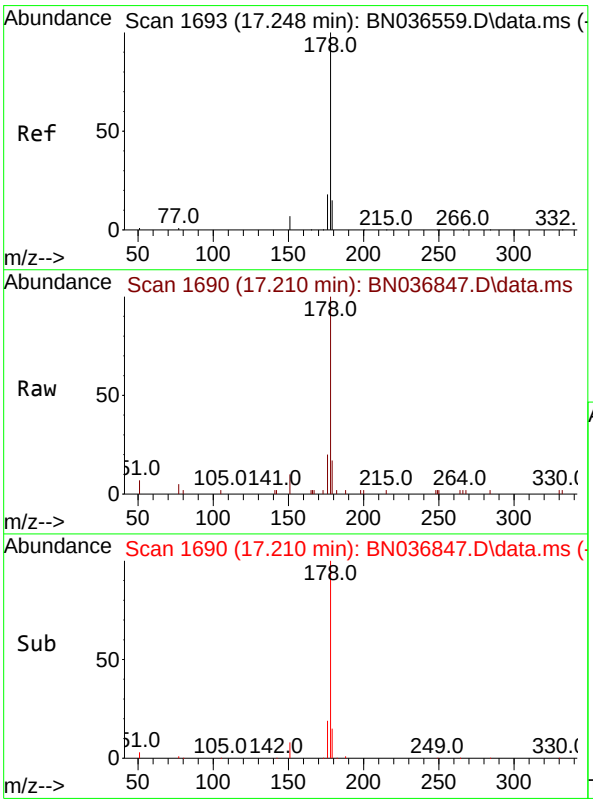
#25
Phenanthrene
Concen: 0.414 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 6306

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.8	12.2	18.4

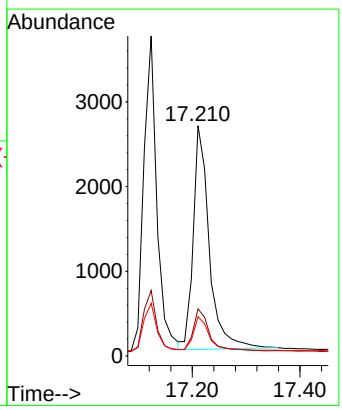


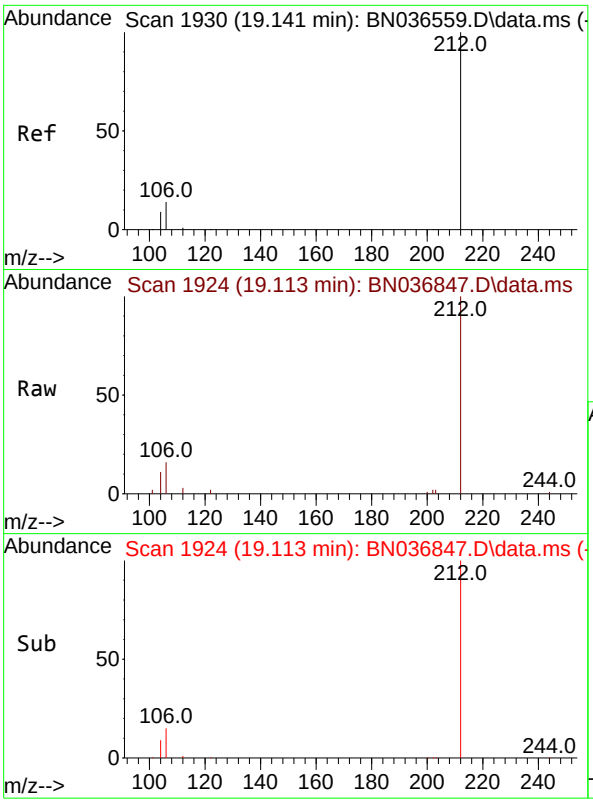


#26
Anthracene
Concen: 0.399 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:178 Resp: 5484

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	14.7	12.6	18.8



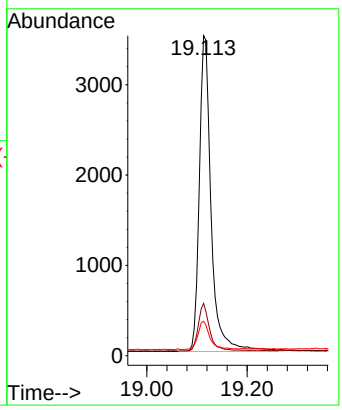


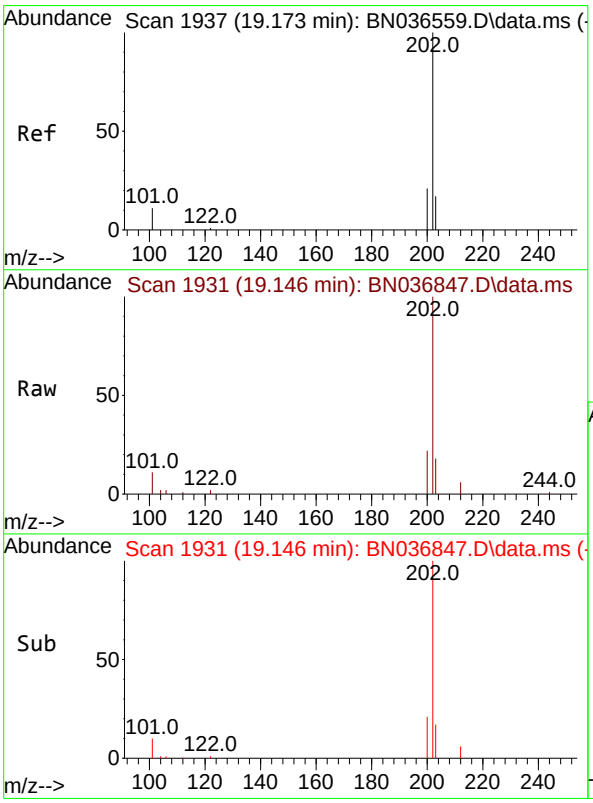
#27
Fluoranthene-d10
Concen: 0.440 ng
RT: 19.113 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 5730

Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.8	17.6
104	8.8	7.3	10.9

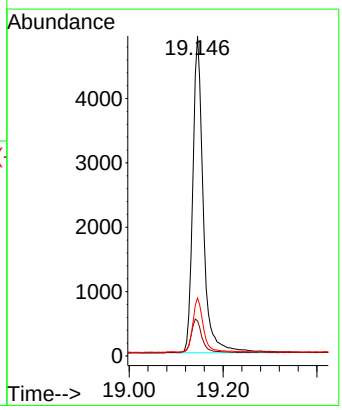


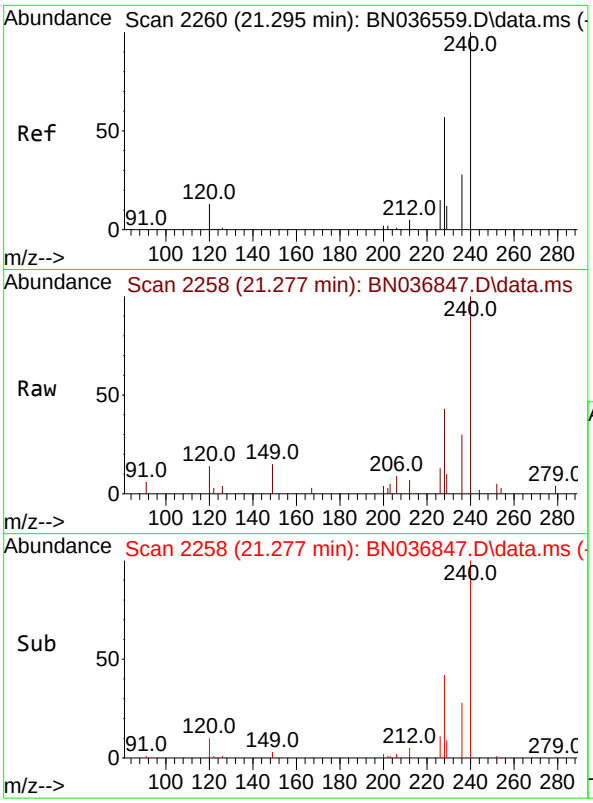


#28
Fluoranthene
Concen: 0.450 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.004 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:202 Resp: 7695

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	14.0
203	16.9	13.5	20.3



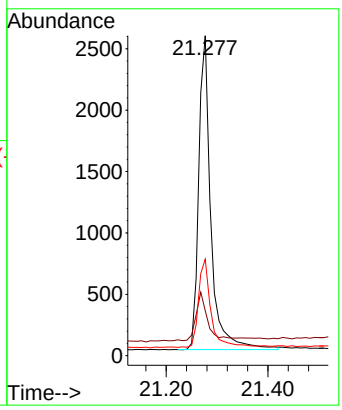


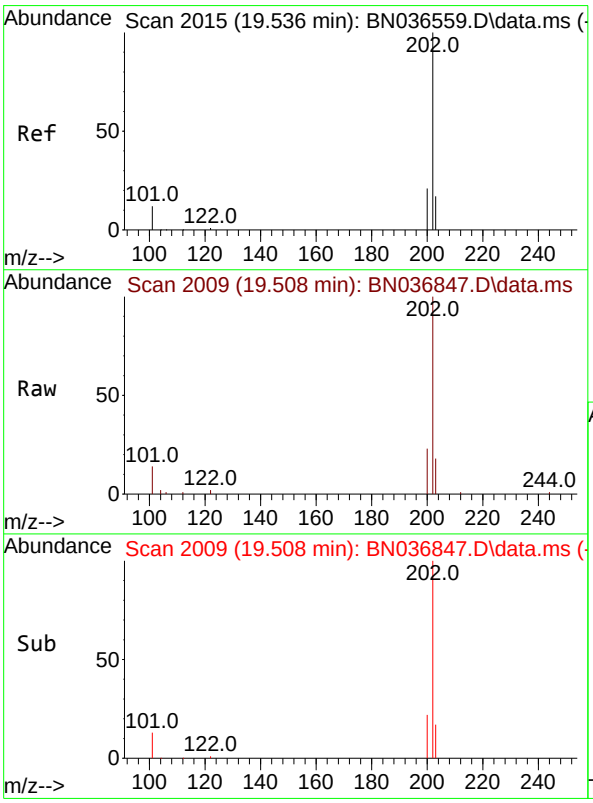
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 4233

Ion	Ratio	Lower	Upper
240	100		
120	14.0	14.6	22.0#
236	30.1	24.1	36.1

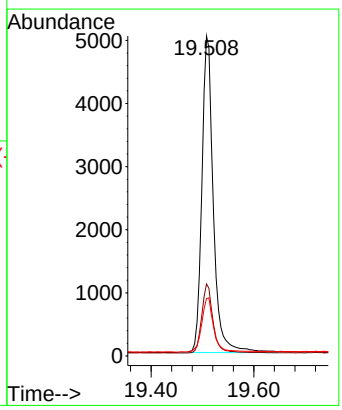


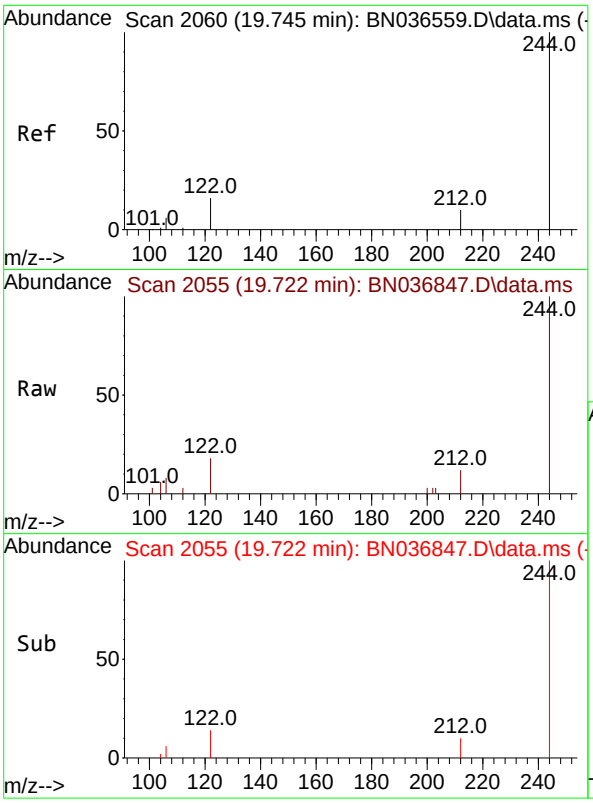


#30
Pyrene
Concen: 0.374 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:202 Resp: 7751

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.7	14.1	21.1



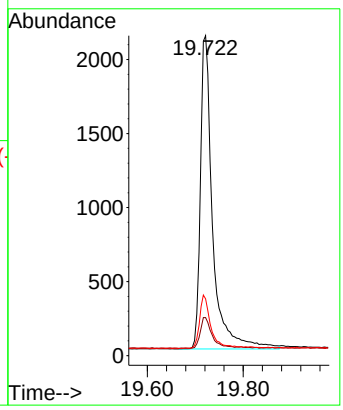


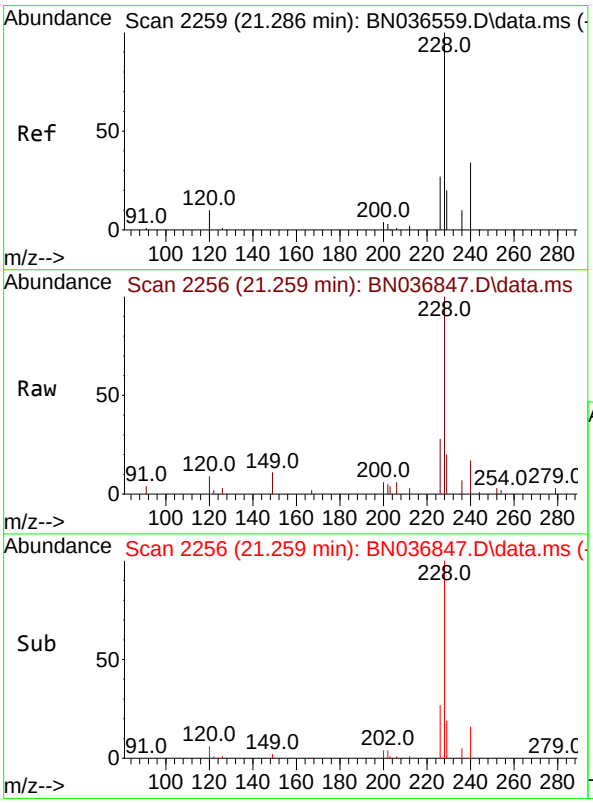
#31
Terphenyl-d14
Concen: 0.370 ng
RT: 19.722 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 3755

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	17.7	13.9	20.9

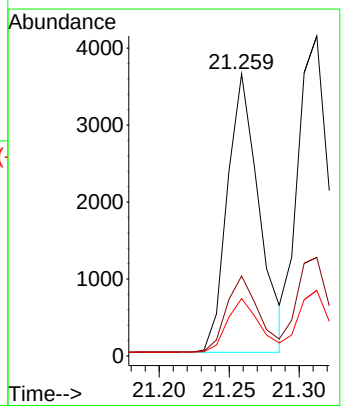


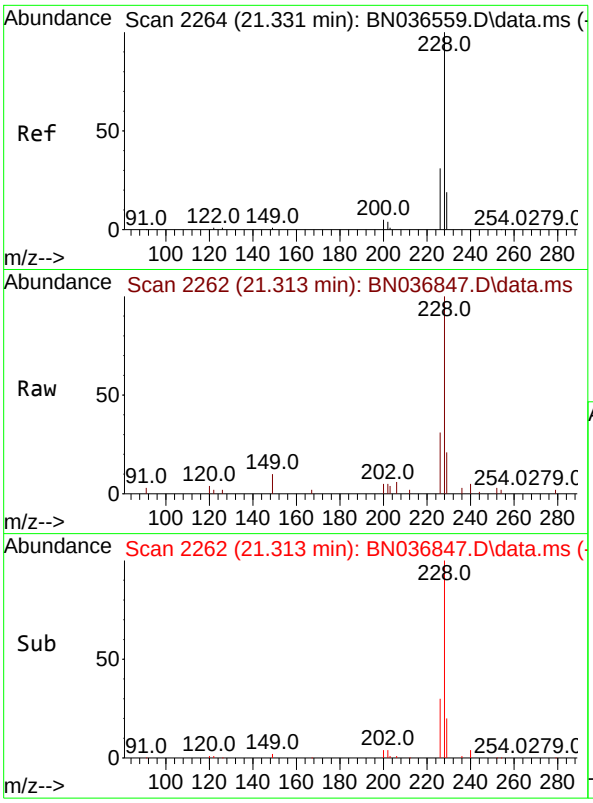


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:228 Resp: 5720

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	20.4	16.6	25.0



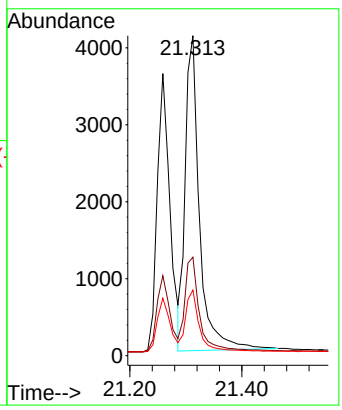


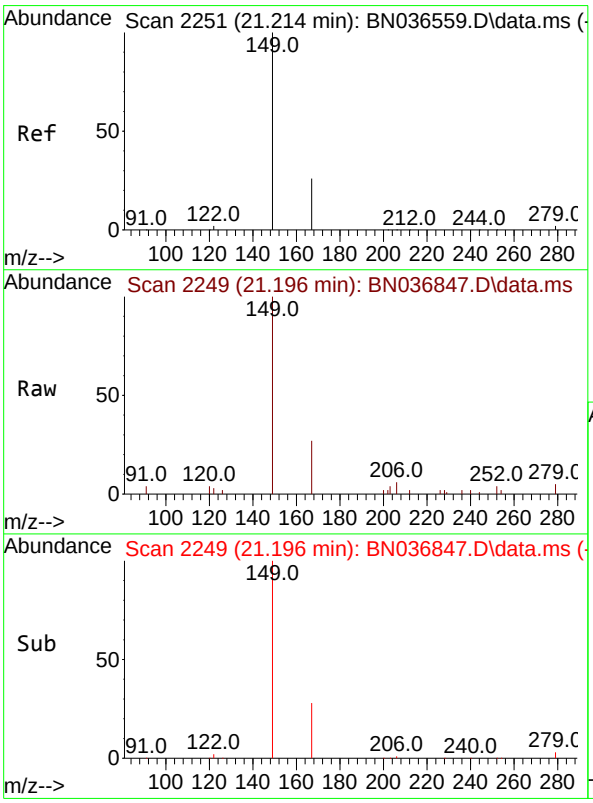
#33
Chrysene
Concen: 0.449 ng
RT: 21.313 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 7221

Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.3	37.9
229	20.5	15.8	23.8

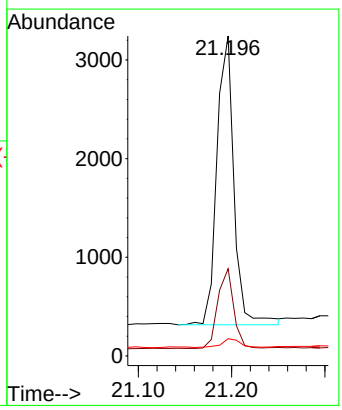


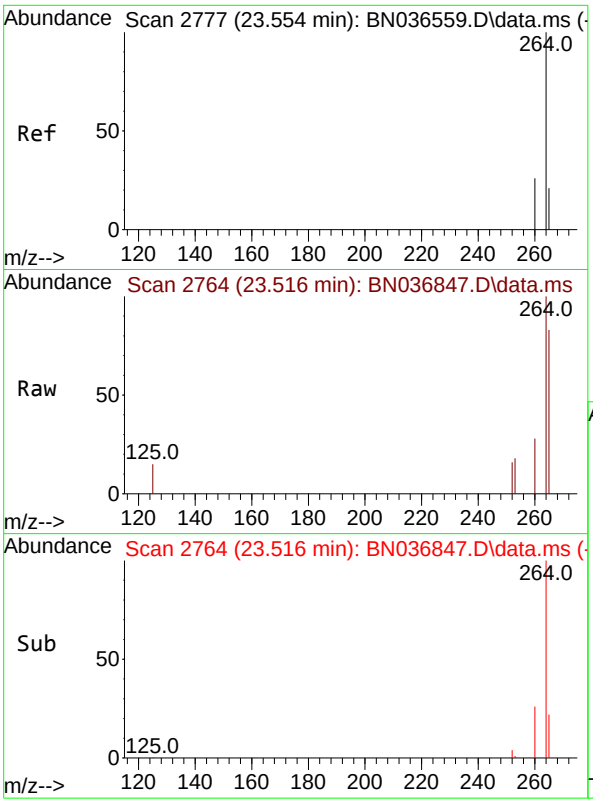


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.353 ng
RT: 21.196 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:149 Resp: 3698

Ion	Ratio	Lower	Upper
149	100		
167	25.6	20.7	31.1
279	3.3	3.6	5.4#



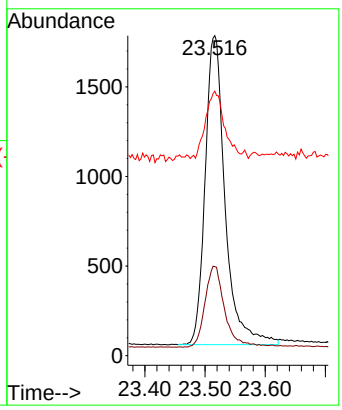


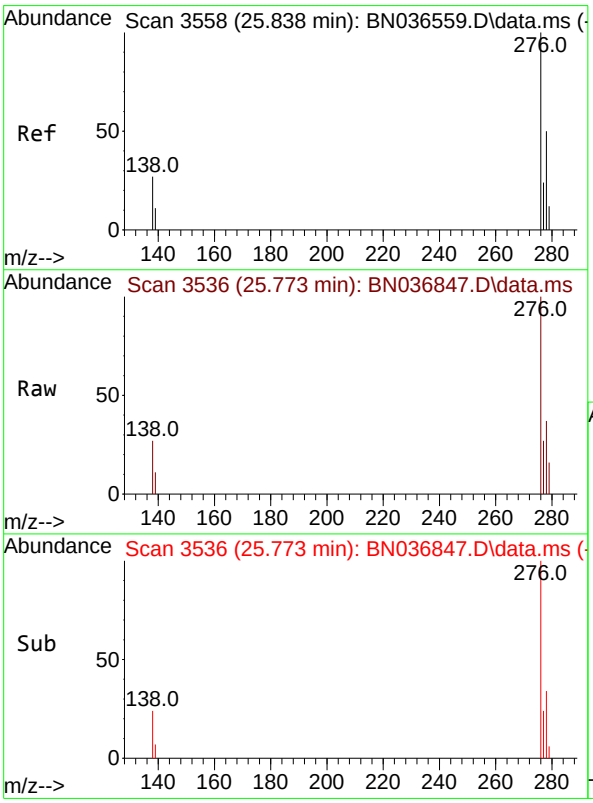
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 3968

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	82.6	88.1	132.1#

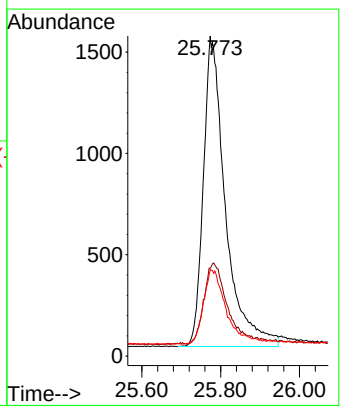


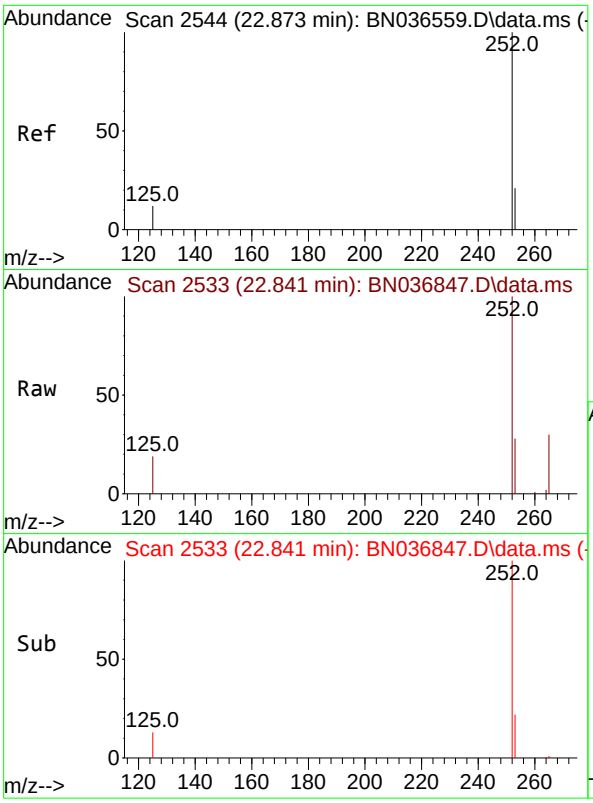


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.416 ng
RT: 25.773 min Scan# 3536
Delta R.T. 0.003 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:276 Resp: 5962

Ion	Ratio	Lower	Upper
276	100		
138	27.3	23.4	35.2
277	23.2	20.0	30.0



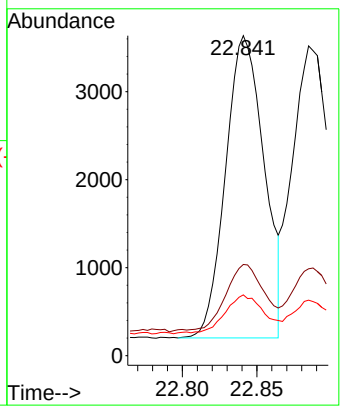


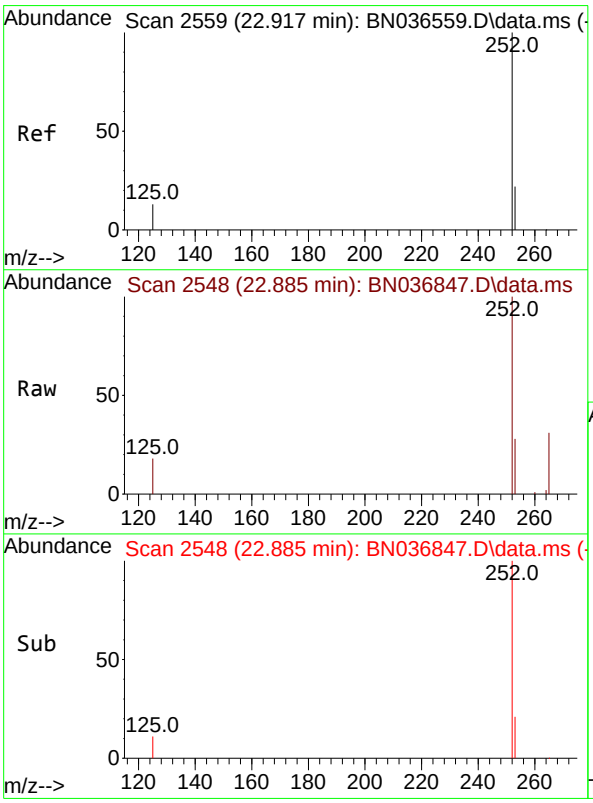
#37
Benzo(b)fluoranthene
Concen: 0.427 ng
RT: 22.841 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 6173

Ion	Ratio	Lower	Upper
252	100		
253	28.5	23.9	35.9
125	19.0	17.4	26.2

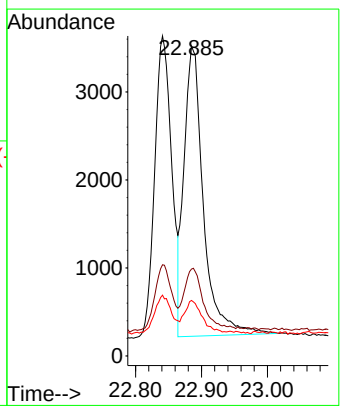


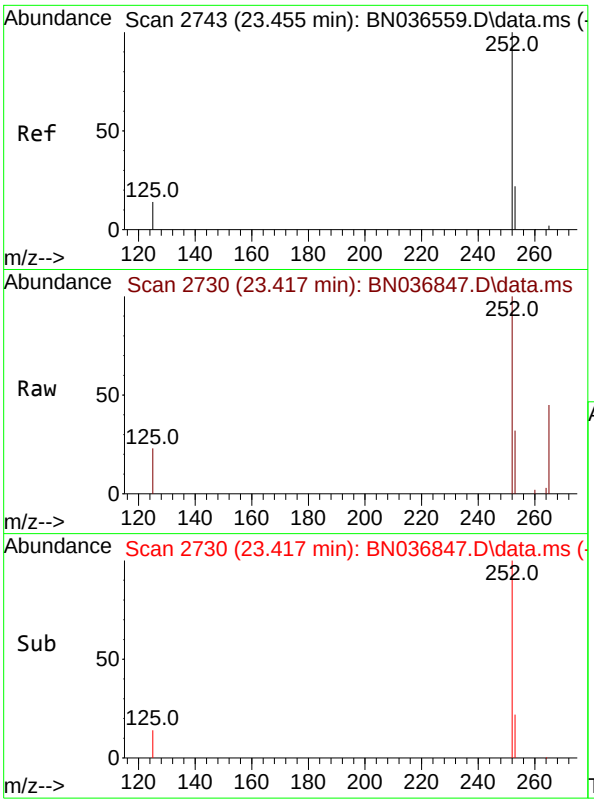


#38
Benzo(k)fluoranthene
Concen: 0.445 ng
RT: 22.885 min Scan# 2548
Delta R.T. 0.006 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:252 Resp: 6741

Ion	Ratio	Lower	Upper
252	100		
253	28.0	24.6	36.8
125	18.0	17.8	26.8



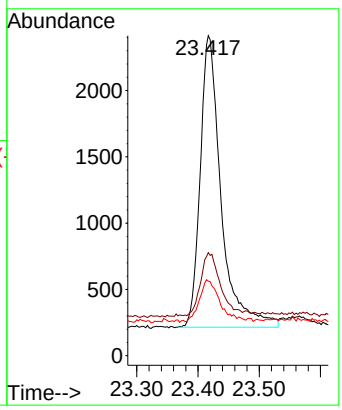


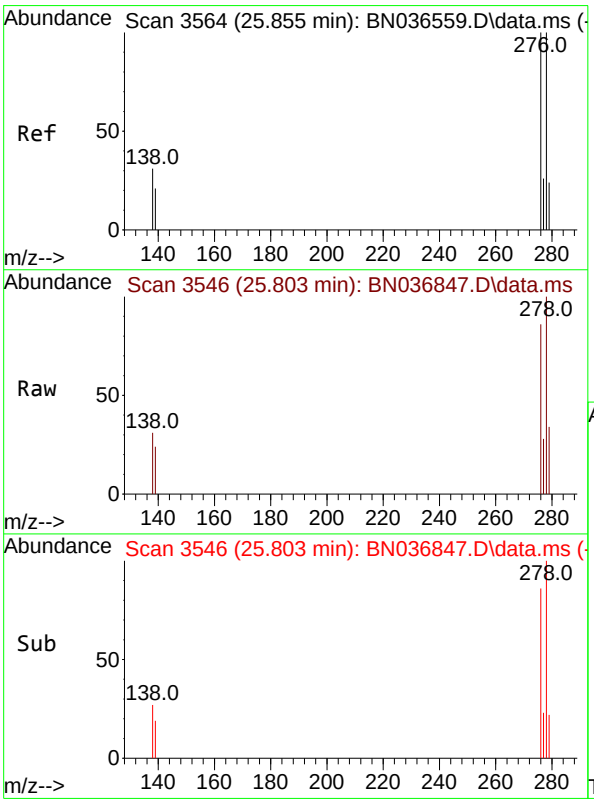
#39
Benzo(a)pyrene
Concen: 0.430 ng
RT: 23.417 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5226

Ion	Ratio	Lower	Upper
252	100		
253	32.2	27.8	41.8
125	23.3	22.7	34.1

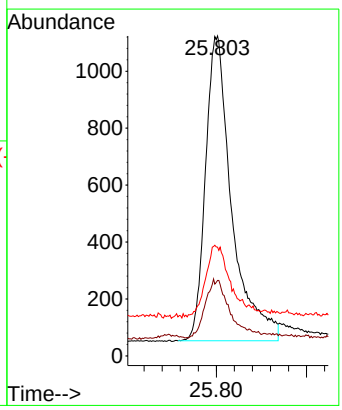


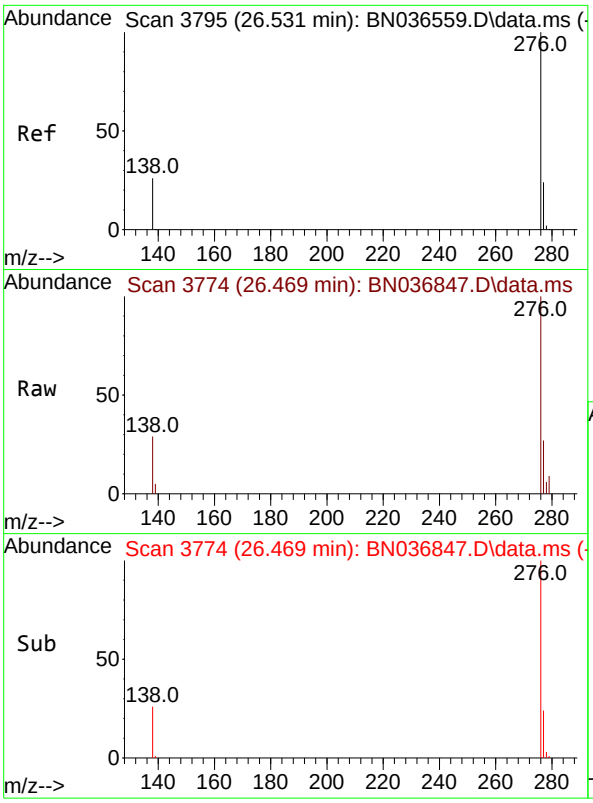


#40
Dibenzo(a,h)anthracene
Concen: 0.389 ng
RT: 25.803 min Scan# 3546
Delta R.T. 0.011 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Tgt Ion:278 Resp: 4339

Ion	Ratio	Lower	Upper
278	100		
139	23.6	20.8	31.2
279	34.0	28.8	43.2



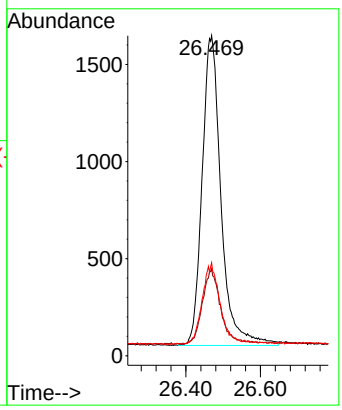


#41
Benzo(g,h,i)perylene
Concen: 0.441 ng
RT: 26.469 min Scan# 3
Delta R.T. 0.012 min
Lab File: BN036847.D
Acq: 07 Apr 2025 09:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 5619

Ion	Ratio	Lower	Upper
276	100		
277	27.2	22.2	33.4
138	29.1	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036847.D
Acq On : 07 Apr 2025 09:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 07 10:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 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	70	0.00
2		1,4-Dioxane	0.444	0.474	-6.8	67	0.00
3		n-Nitrosodimethylamine	0.898	0.997	-11.0	75	0.00
4	S	2-Fluorophenol	0.932	0.910	2.4	65	0.00
5	S	Phenol-d6	1.152	1.108	3.8	69	0.00
6		bis(2-Chloroethyl)ether	1.190	1.201	-0.9	71	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	77	0.00
8	S	Nitrobenzene-d5	0.435	0.406	6.7	75	0.00
9		Naphthalene	1.177	1.171	0.5	75	0.00
10		Hexachlorobutadiene	0.277	0.272	1.8	71	0.00
11	SURR	2-Methylnaphthalene-d10	0.595	0.593	0.3	75	0.00
12		2-Methylnaphthalene	0.749	0.737	1.6	74	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	77	0.00
14	S	2,4,6-Tribromophenol	0.182	0.174	4.4	72	0.00
15	S	2-Fluorobiphenyl	2.327	2.119	8.9	68	0.00
16		Acenaphthylene	1.888	1.851	2.0	74	0.00
17		Acenaphthene	1.236	1.252	-1.3	75	0.00
18		Fluorene	1.672	1.738	-3.9	76	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00
20		4,6-Dinitro-2-methylphenol	0.086	0.074	14.0	81	0.00
21		4-Bromophenyl-phenylether	0.251	0.238	5.2	73	0.00
22		Hexachlorobenzene	0.303	0.295	2.6	74	0.00
23		Atrazine	0.201	0.195	3.0	77	0.00
24		Pentachlorophenol	0.138	0.142	-2.9	88	0.00
25		Phenanthrene	1.200	1.242	-3.5	81	0.00
26		Anthracene	1.083	1.080	0.3	80	0.00
27	SURR	Fluoranthene-d10	1.025	1.128	-10.0	86	0.00
28		Fluoranthene	1.348	1.515	-12.4	88	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30		Pyrene	1.956	1.831	6.4	88	0.00
31	S	Terphenyl-d14	0.958	0.887	7.4	89	0.00
32		Benzo(a)anthracene	1.391	1.351	2.9	97	0.00
33		Chrysene	1.520	1.706	-12.2	109	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	0.874	11.7	86	0.00
35	I	Perylene-d12	1.000	1.000	0.0	112	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.503	-4.1	109	0.00
37		Benzo(b)fluoranthene	1.456	1.556	-6.9	113	0.00
38		Benzo(k)fluoranthene	1.527	1.699	-11.3	118	0.00
39	C	Benzo(a)pyrene	1.226	1.317	-7.4	113	0.00
40		Dibenzo(a,h)anthracene	1.124	1.093	2.8	105	0.01
41		Benzo(g,h,i)perylene	1.286	1.416	-10.1	115	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036847.D
Acq On : 07 Apr 2025 09:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 07 10:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 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	70	0.00
2		1,4-Dioxane	0.400	0.427	-6.7	67	0.00
3		n-Nitrosodimethylamine	0.400	0.444	-11.0	75	0.00
4	S	2-Fluorophenol	0.400	0.391	2.3	65	0.00
5	S	Phenol-d6	0.400	0.385	3.8	69	0.00
6		bis(2-Chloroethyl)ether	0.400	0.403	-0.8	71	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	77	0.00
8	S	Nitrobenzene-d5	0.400	0.373	6.8	75	0.00
9		Naphthalene	0.400	0.398	0.5	75	0.00
10		Hexachlorobutadiene	0.400	0.393	1.8	71	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	75	0.00
12		2-Methylnaphthalene	0.400	0.394	1.5	74	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	77	0.00
14	S	2,4,6-Tribromophenol	0.400	0.384	4.0	72	0.00
15	S	2-Fluorobiphenyl	0.400	0.364	9.0	68	0.00
16		Acenaphthylene	0.400	0.392	2.0	74	0.00
17		Acenaphthene	0.400	0.405	-1.3	75	0.00
18		Fluorene	0.400	0.416	-4.0	76	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	85	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.436	-9.0	81	0.00
21		4-Bromophenyl-phenylether	0.400	0.380	5.0	73	0.00
22		Hexachlorobenzene	0.400	0.390	2.5	74	0.00
23		Atrazine	0.400	0.388	3.0	77	0.00
24		Pentachlorophenol	0.400	0.410	-2.5	88	0.00
25		Phenanthrene	0.400	0.414	-3.5	81	0.00
26		Anthracene	0.400	0.399	0.3	80	0.00
27	SURR	Fluoranthene-d10	0.400	0.440	-10.0	86	0.00
28		Fluoranthene	0.400	0.450	-12.5	88	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30		Pyrene	0.400	0.374	6.5	88	0.00
31	S	Terphenyl-d14	0.400	0.370	7.5	89	0.00
32		Benzo(a)anthracene	0.400	0.389	2.8	97	0.00
33		Chrysene	0.400	0.449	-12.2	109	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.353	11.8	86	0.00
35	I	Perylene-d12	0.400	0.400	0.0	112	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.416	-4.0	109	0.00
37		Benzo(b)fluoranthene	0.400	0.427	-6.7	113	0.00
38		Benzo(k)fluoranthene	0.400	0.445	-11.2	118	0.00
39	C	Benzo(a)pyrene	0.400	0.430	-7.5	113	0.00
40		Dibenzo(a,h)anthracene	0.400	0.389	2.8	105	0.01
41		Benzo(g,h,i)perylene	0.400	0.441	-10.2	115	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

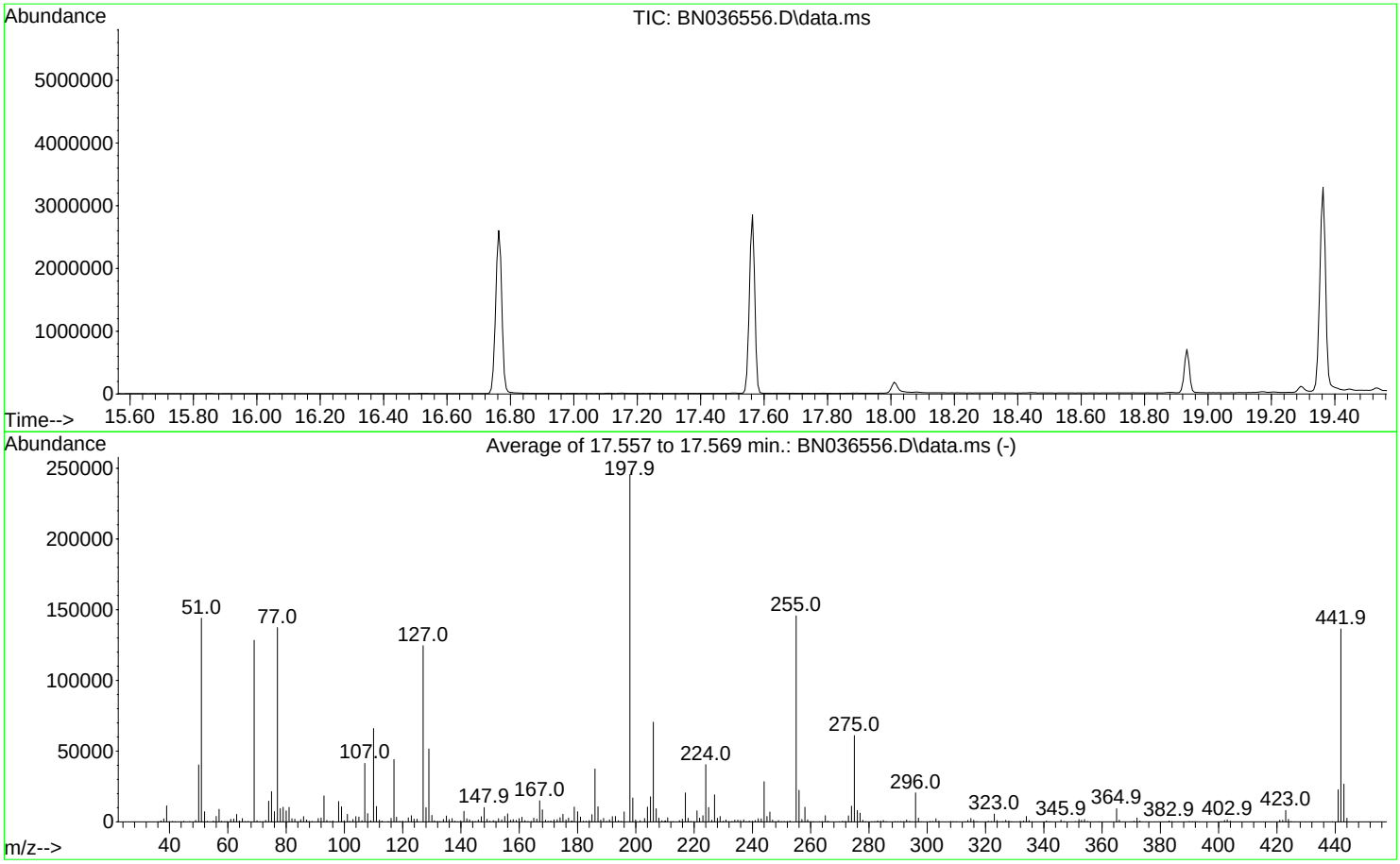
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

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



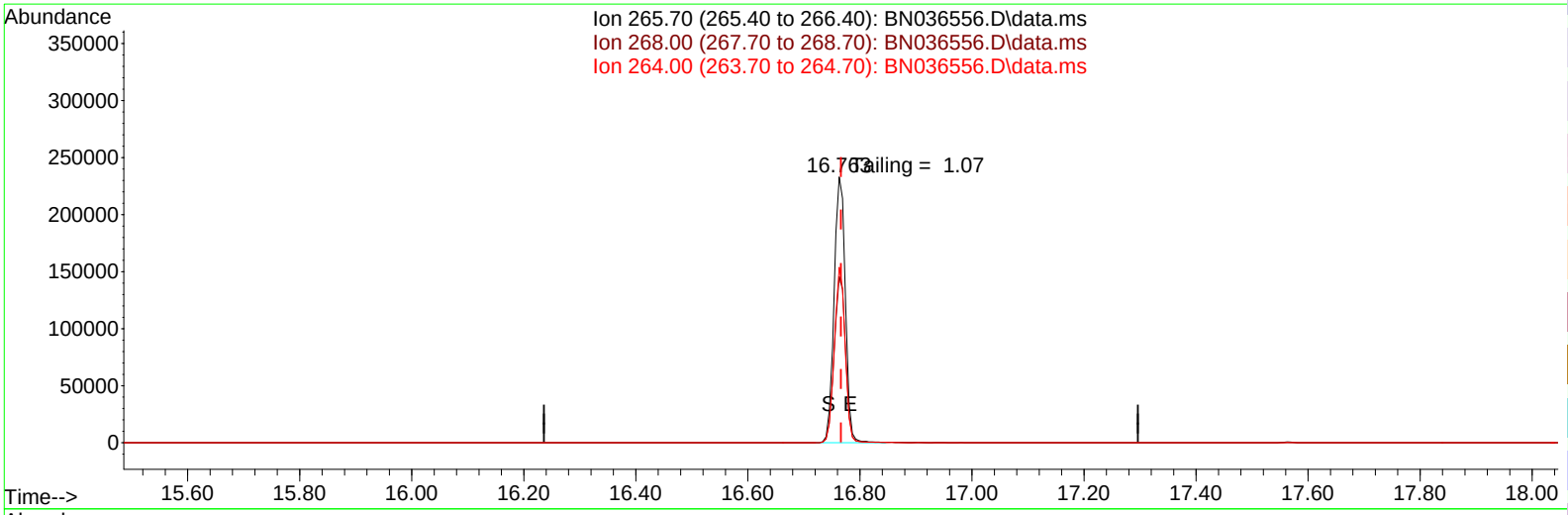
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

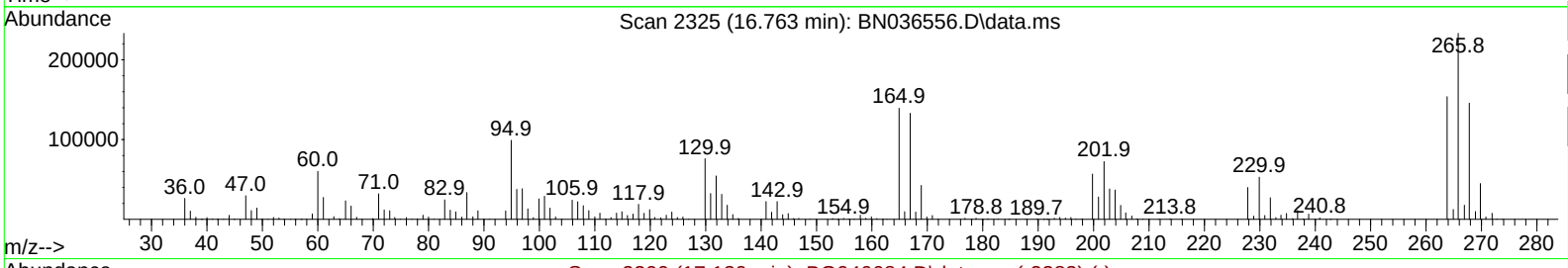
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.6	144050	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	128410	PASS
70	69	0.00	2	0.7	835	PASS
127	198	10	80	50.7	124576	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	245632	PASS
199	198	5	9	6.9	16887	PASS
275	198	10	60	24.8	60997	PASS
365	198	1	100	3.8	9349	PASS
441	198	0.01	100	9.3	22761	PASS
442	442	50	100	100.0	136488	PASS
443	442	15	24	19.6	26765	PASS

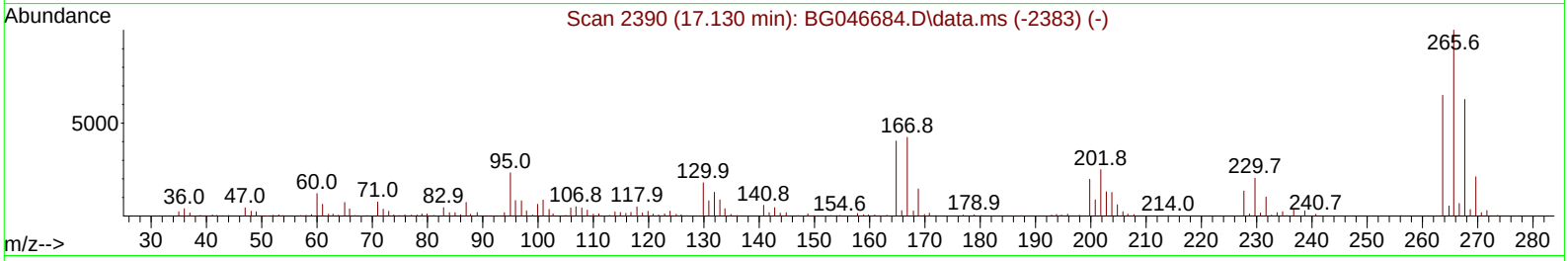
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN036556.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 23577.14 ng

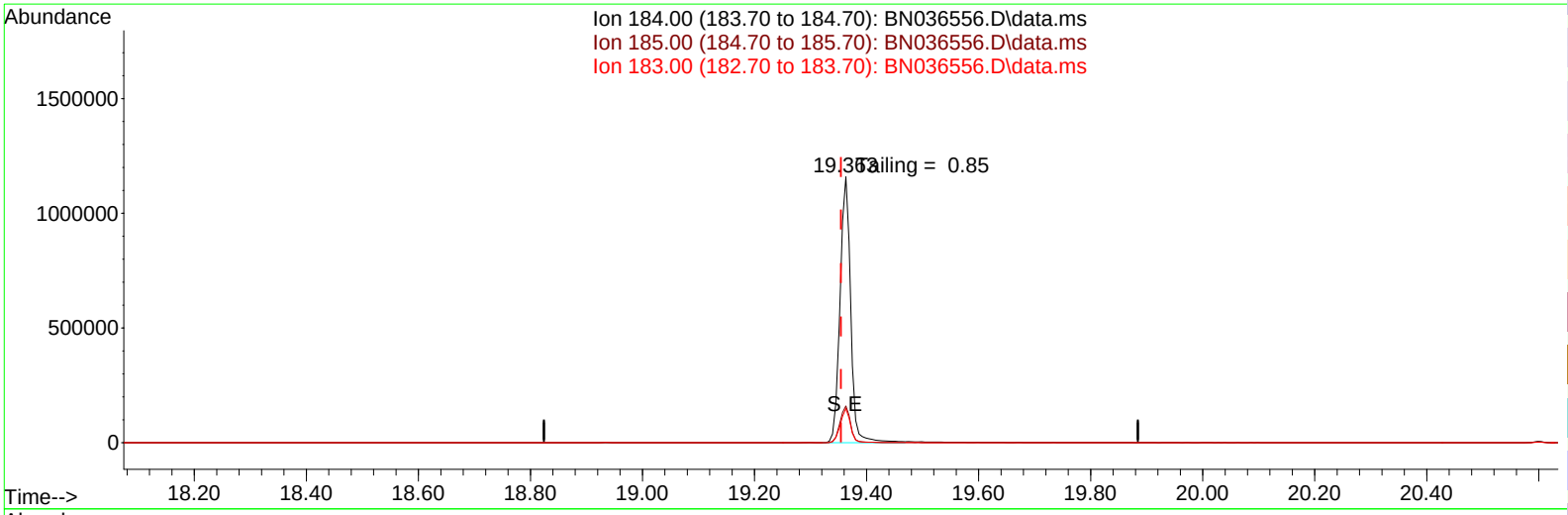
response 323613

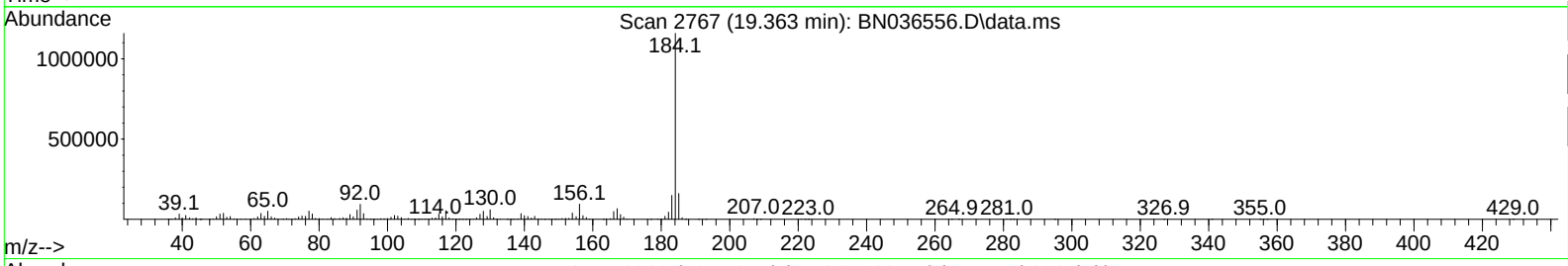
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.52
264.00	61.60	66.01
0.00	0.00	0.00

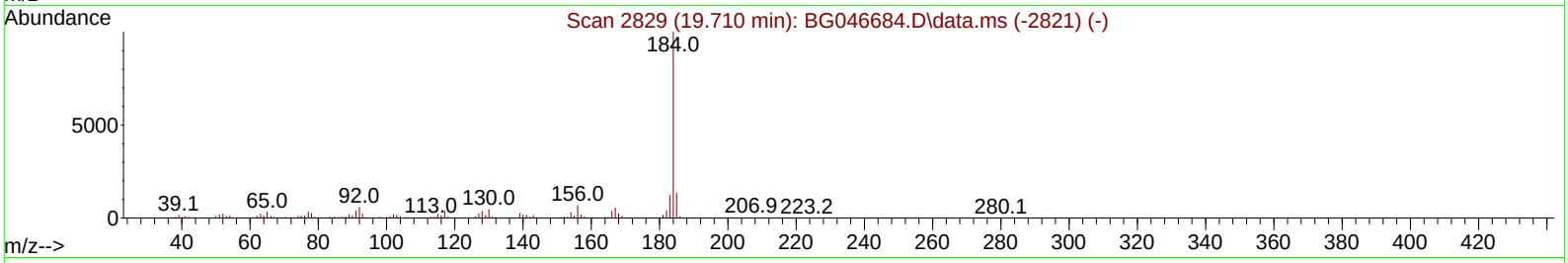
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN036556.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1553313

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.86
183.00	13.20	12.85
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

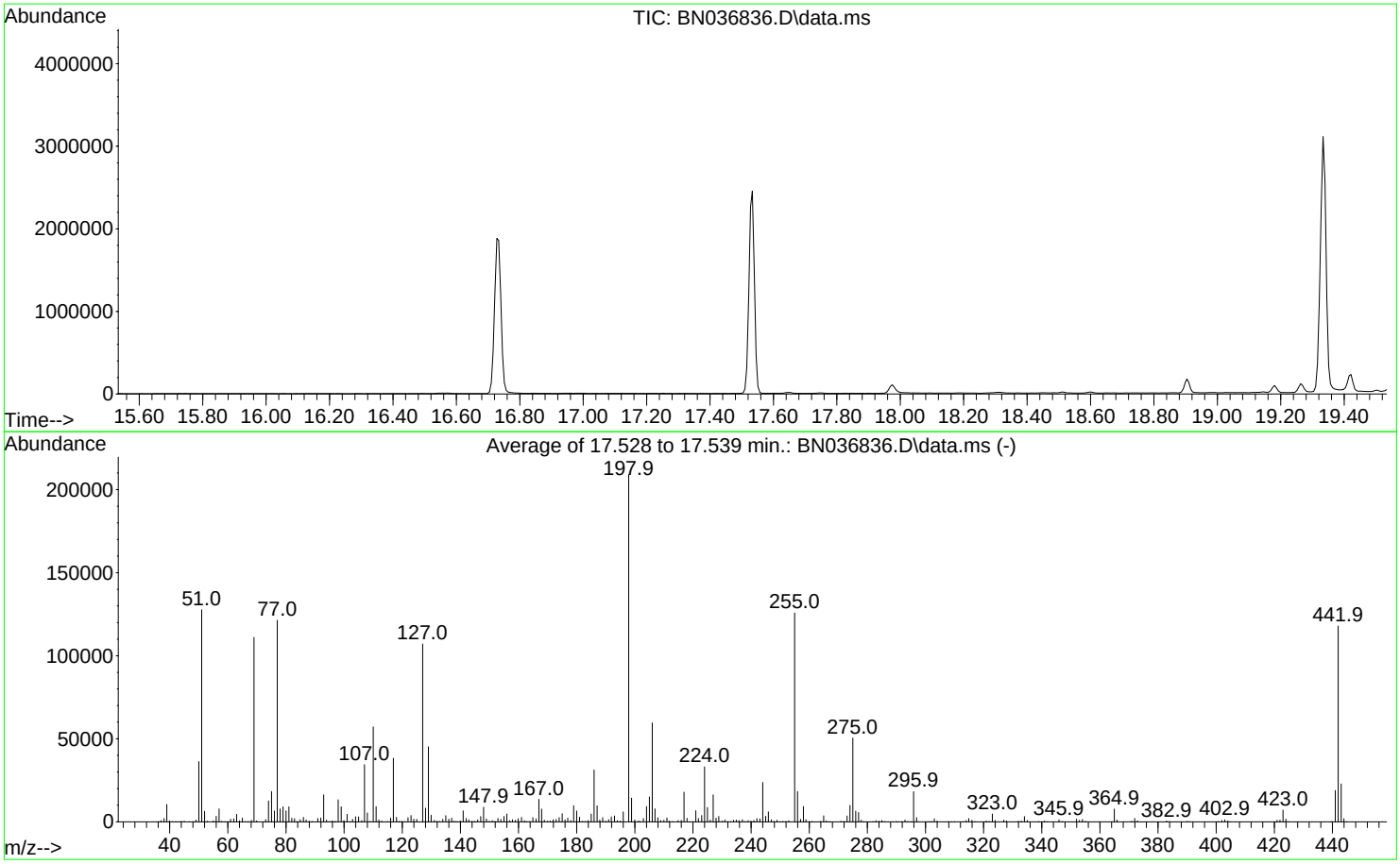
Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_N	BN036556.D
Compound Name	**Response**	**Retention Time**
DDT	1110406	20.598
DDD	11596	20.21
DDE	530	19.645
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12126	1122532	1.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036836.D
Acq On : 04 Apr 2025 13:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Apr 04 17:30:43 2025



AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2448

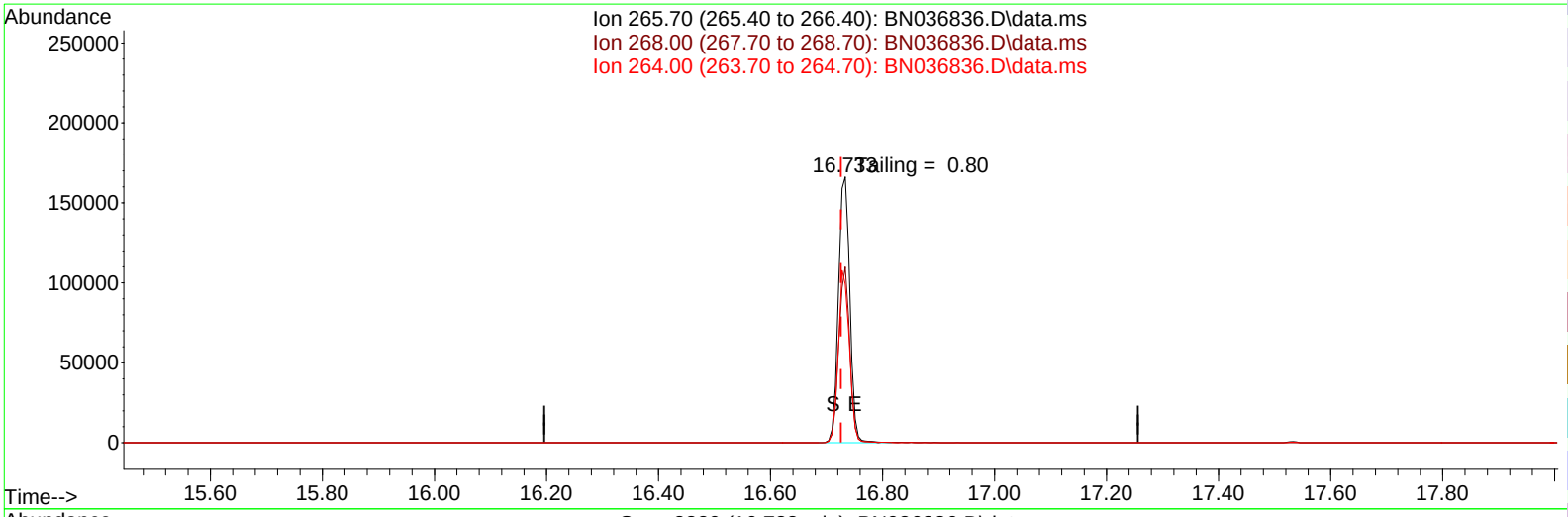
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	61.1	127701	PASS
68	69	0.00	2	0.8	926	PASS
69	198	0.00	100	53.1	111072	PASS
70	69	0.00	2	0.6	654	PASS
127	198	10	80	51.2	107067	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	209109	PASS
199	198	5	9	6.8	14277	PASS
275	198	10	60	24.1	50483	PASS
365	198	1	100	3.7	7782	PASS
441	198	0.01	100	9.1	18954	PASS
442	442	50	100	100.0	117920	PASS
443	442	15	24	19.3	22803	PASS

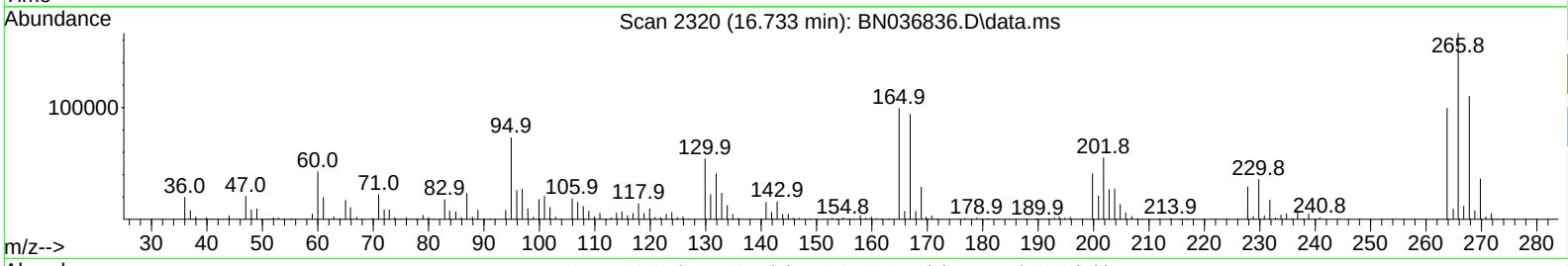
Sample Results: **BN036836.D**

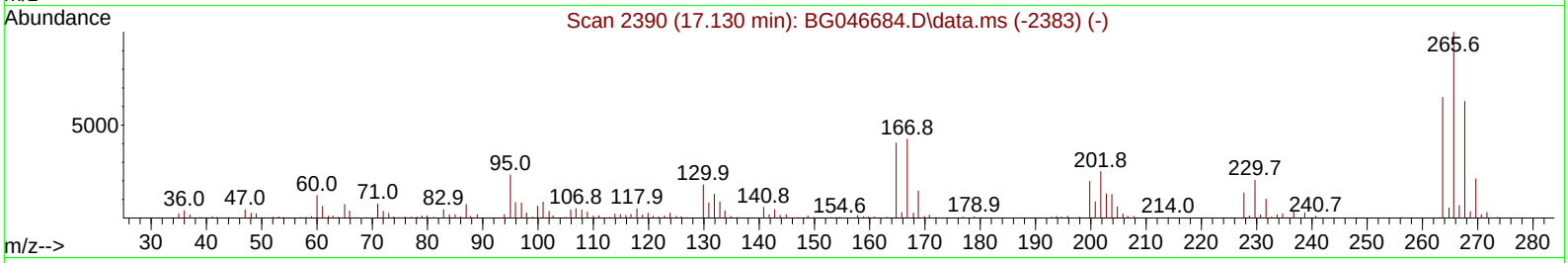
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036836.D
Acq On : 04 Apr 2025 13:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 04 17:15:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration







TIC: BN036836.D\data.ms

(70) Pentachlorophenol (C)

16.733min (+ 0.008) 19292.53 ng

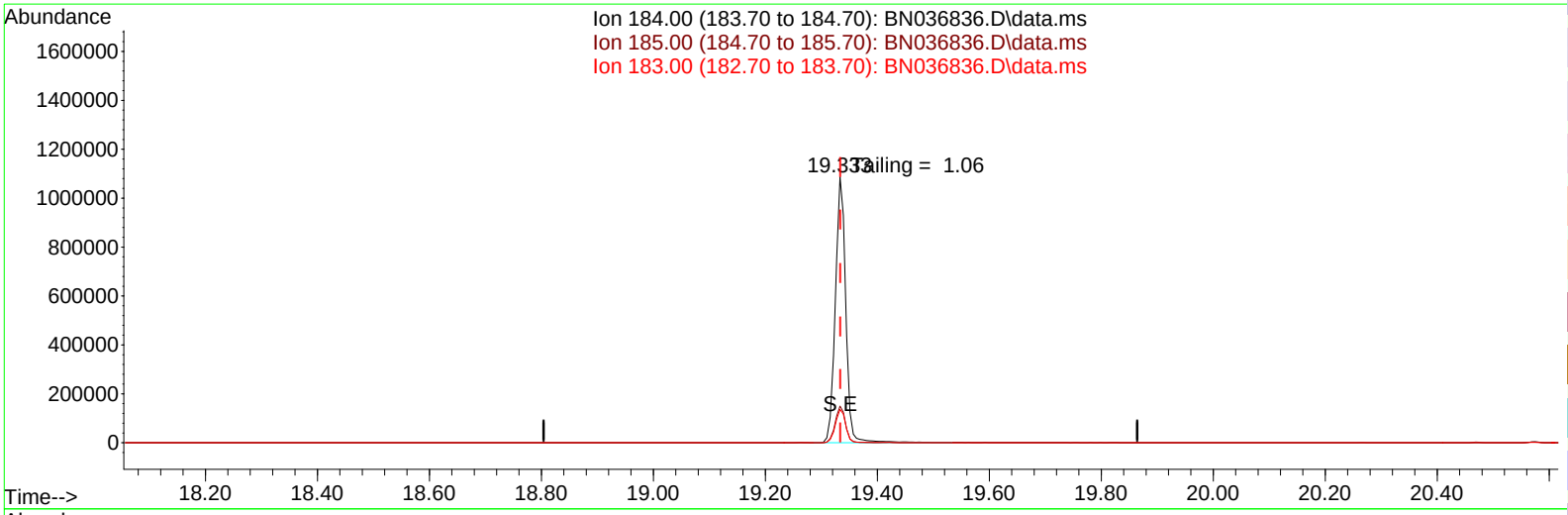
response 236340

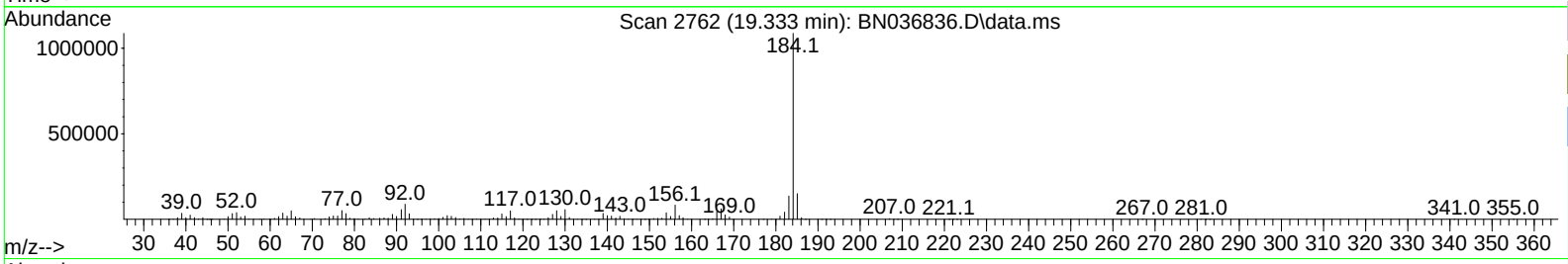
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.13
264.00	61.60	59.69
0.00	0.00	0.00

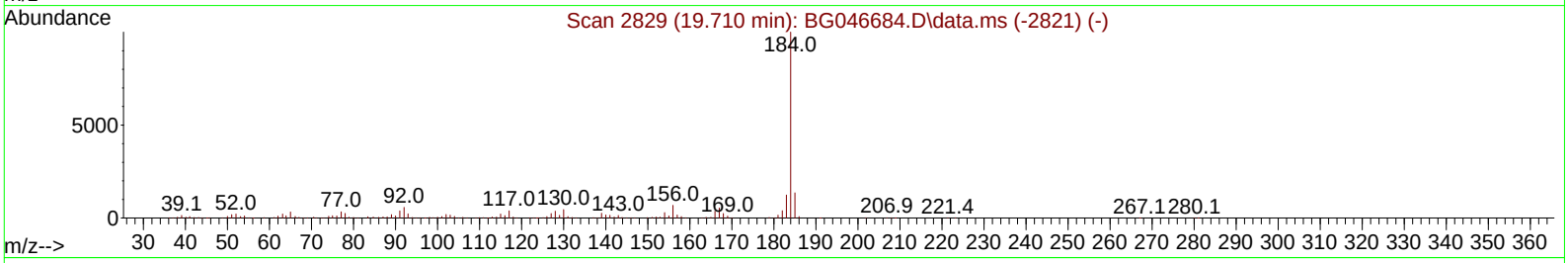
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036836.D
Acq On : 04 Apr 2025 13:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 04 17:18:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration







TIC: BN036836.D\data.ms

(77) Benzidine

19.333min (-0.001) 0.00 ng

response 1395649

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.79
183.00	13.20	12.54
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

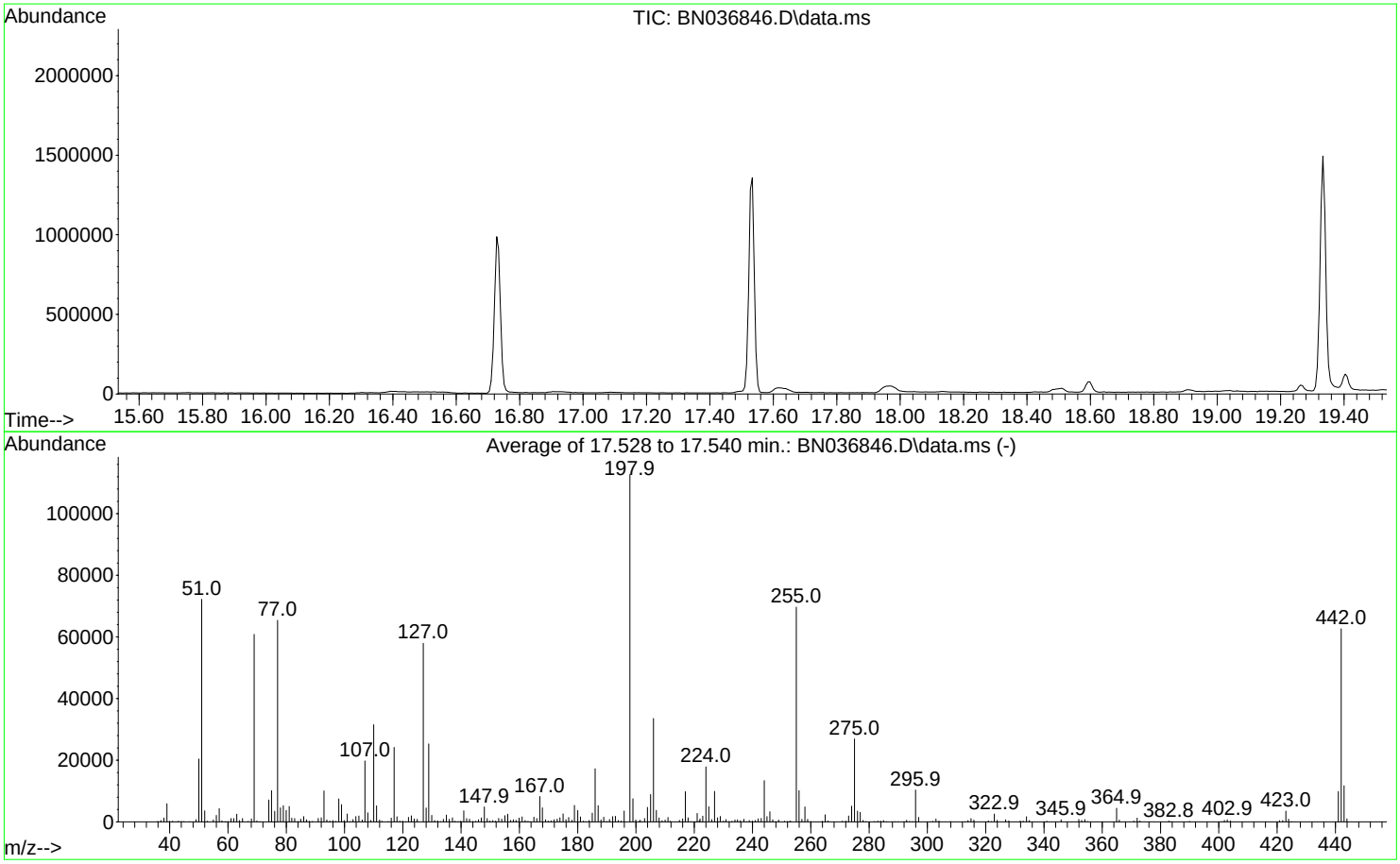
Date	Instrument Name	DFTPP Data File
4/4/2025	BNA_N	BN036836.D
Compound Name	**Response**	**Retention Time**
DDT	793119	20.574
DDD	11889	20.133
DDE	312	19.622
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12201	805320	1.52

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036846.D
Acq On : 07 Apr 2025 08:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Apr 04 17:30:43 2025



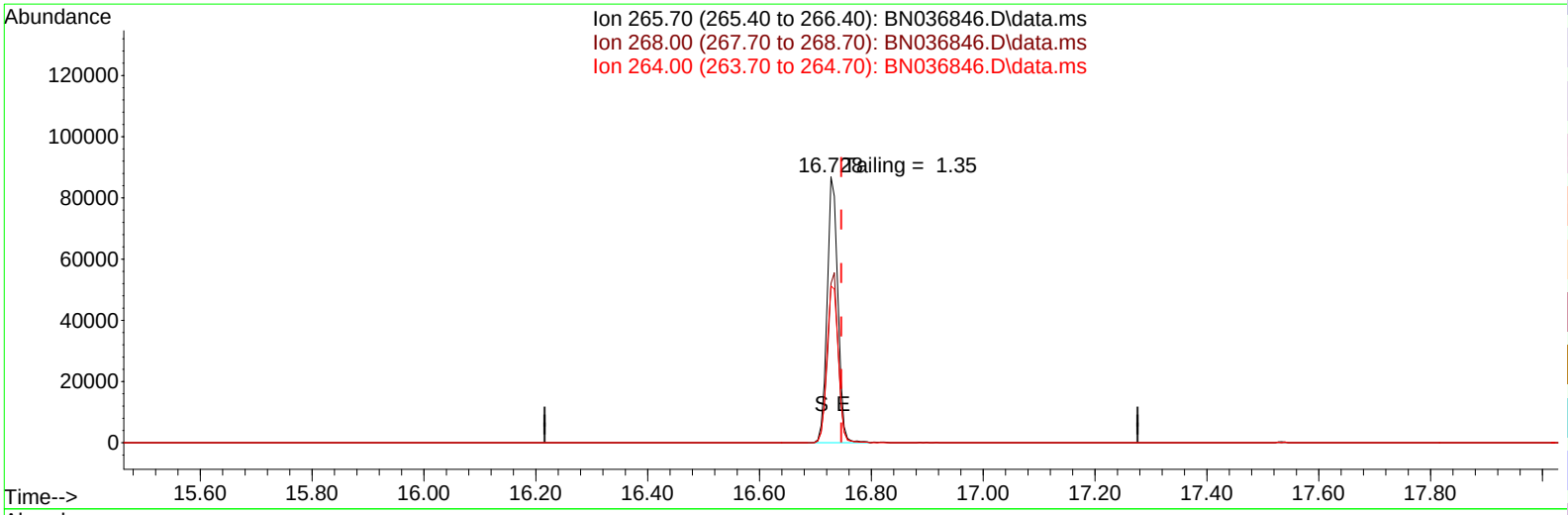
AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2448

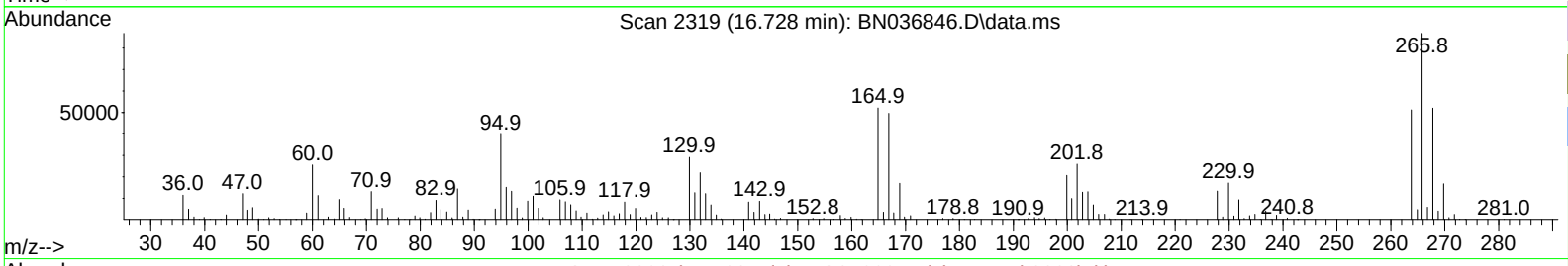
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	64.1	72241	PASS
68	69	0.00	2	1.6	1000	PASS
69	198	0.00	100	54.0	60832	PASS
70	69	0.00	2	0.5	313	PASS
127	198	10	80	51.4	57968	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	112723	PASS
199	198	5	9	6.7	7515	PASS
275	198	10	60	23.9	26899	PASS
365	198	1	100	3.9	4404	PASS
441	198	0.01	100	8.8	9864	PASS
442	442	50	100	100.0	62661	PASS
443	442	15	24	18.7	11731	PASS

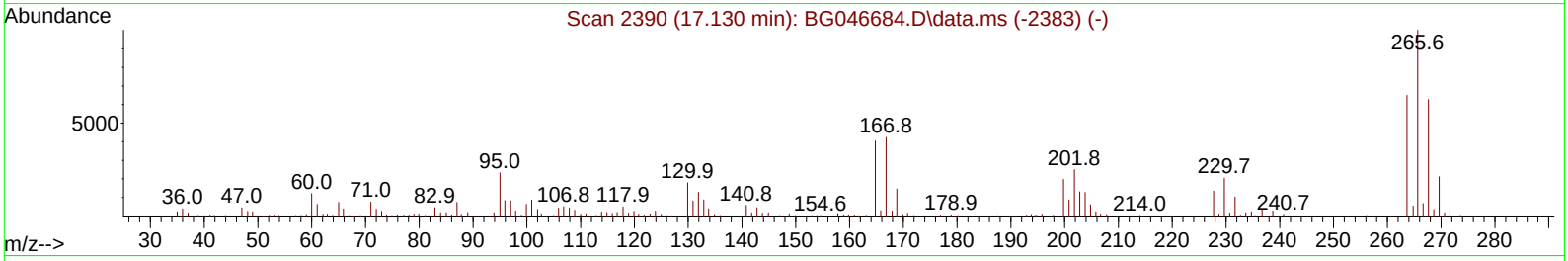
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036846.D
Acq On : 07 Apr 2025 08:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 07 17:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration







TIC: BN036846.D\data.ms

(70) Pentachlorophenol (C)

16.728min (-0.018) 17027.90 ng

response 115056

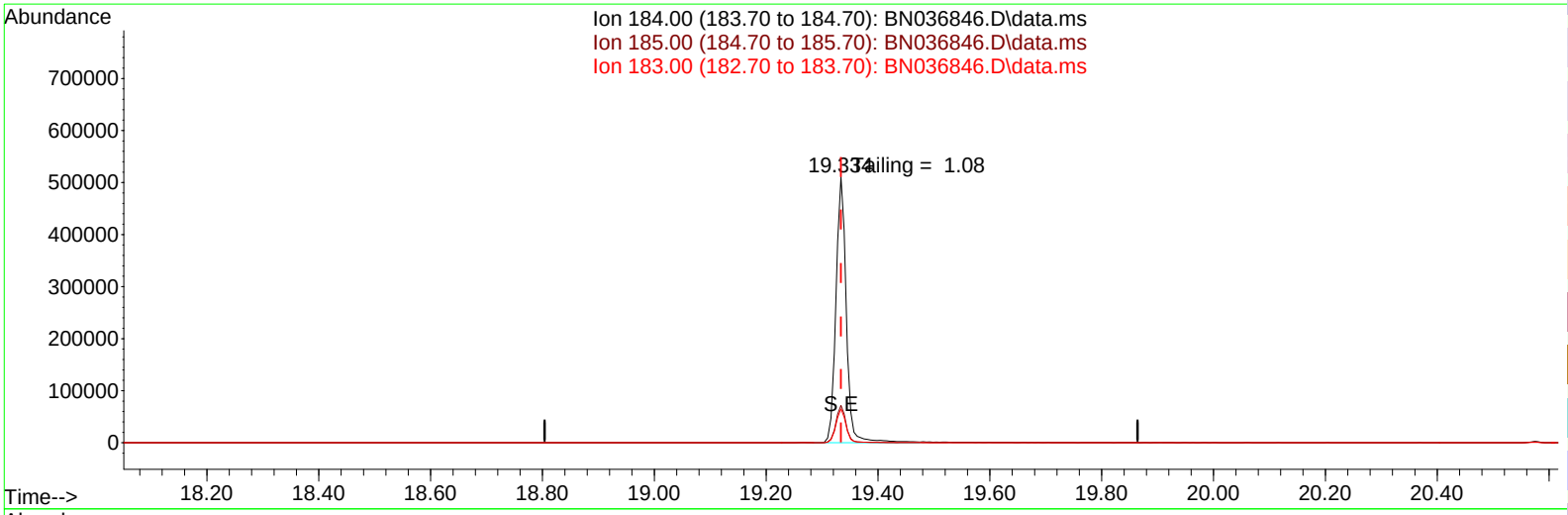
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.94
264.00	61.60	58.97
0.00	0.00	0.00

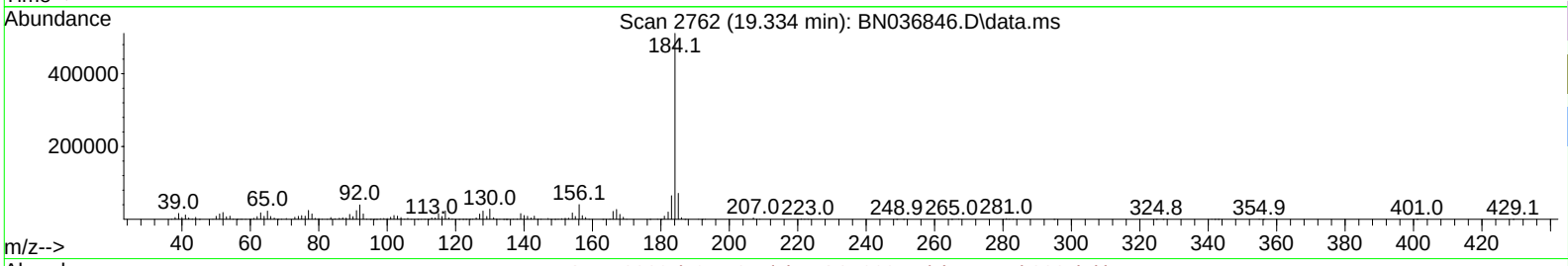
Sample Results: **BN036846.D**

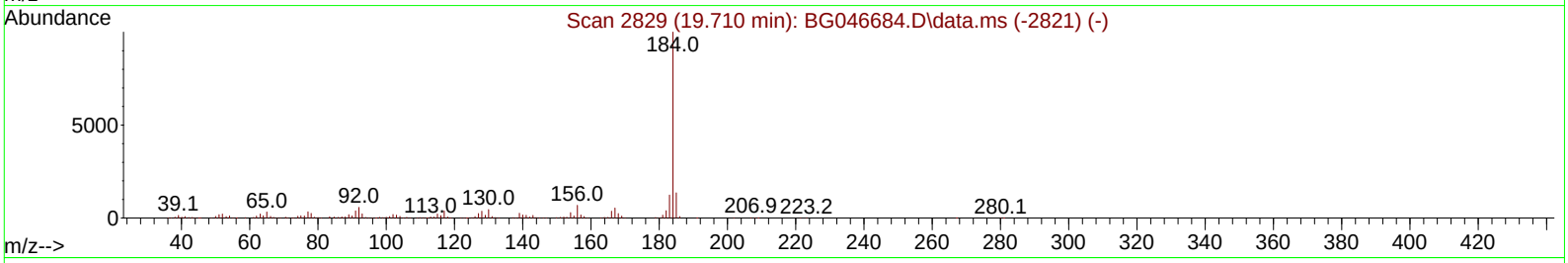
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036846.D
Acq On : 07 Apr 2025 08:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 07 17:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration







TIC: BN036846.D\data.ms

(77) Benzidine

19.334min (-0.001) 0.00 ng

response 661335

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.02
183.00	13.20	12.73
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
4/7/2025	BNA_N	BN036846.D
Compound Name	**Response**	**Retention Time**
DDT	386395	20.575
DDD	7439	20.133
DDE	337	19.628
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
7776	394171	1.97

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	PB167468BL	SDG No.:	Q1731
Lab Sample ID:	PB167468BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036848.D	1	04/04/25 11:35	04/07/25 09:46	PB167468

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		30 (20) - 150 (139)	88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 (30) - 150 (150)	109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		30 (27) - 130 (154)	80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		30 (25) - 130 (149)	72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		30 (54) - 130 (175)	91%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1480	7.695			
1146-65-2	Naphthalene-d8	3400	10.487			
15067-26-2	Acenaphthene-d10	2000	14.345			
1517-22-2	Phenanthrene-d10	4120	17.099			
1719-03-5	Chrysene-d12	3560	21.277			
1520-96-3	Perylene-d12	3340	23.519			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036848.D
Acq On : 07 Apr 2025 09:46
Operator : RC/JU
Sample : PB167468BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167468BL

Quant Time: Apr 07 10:42:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

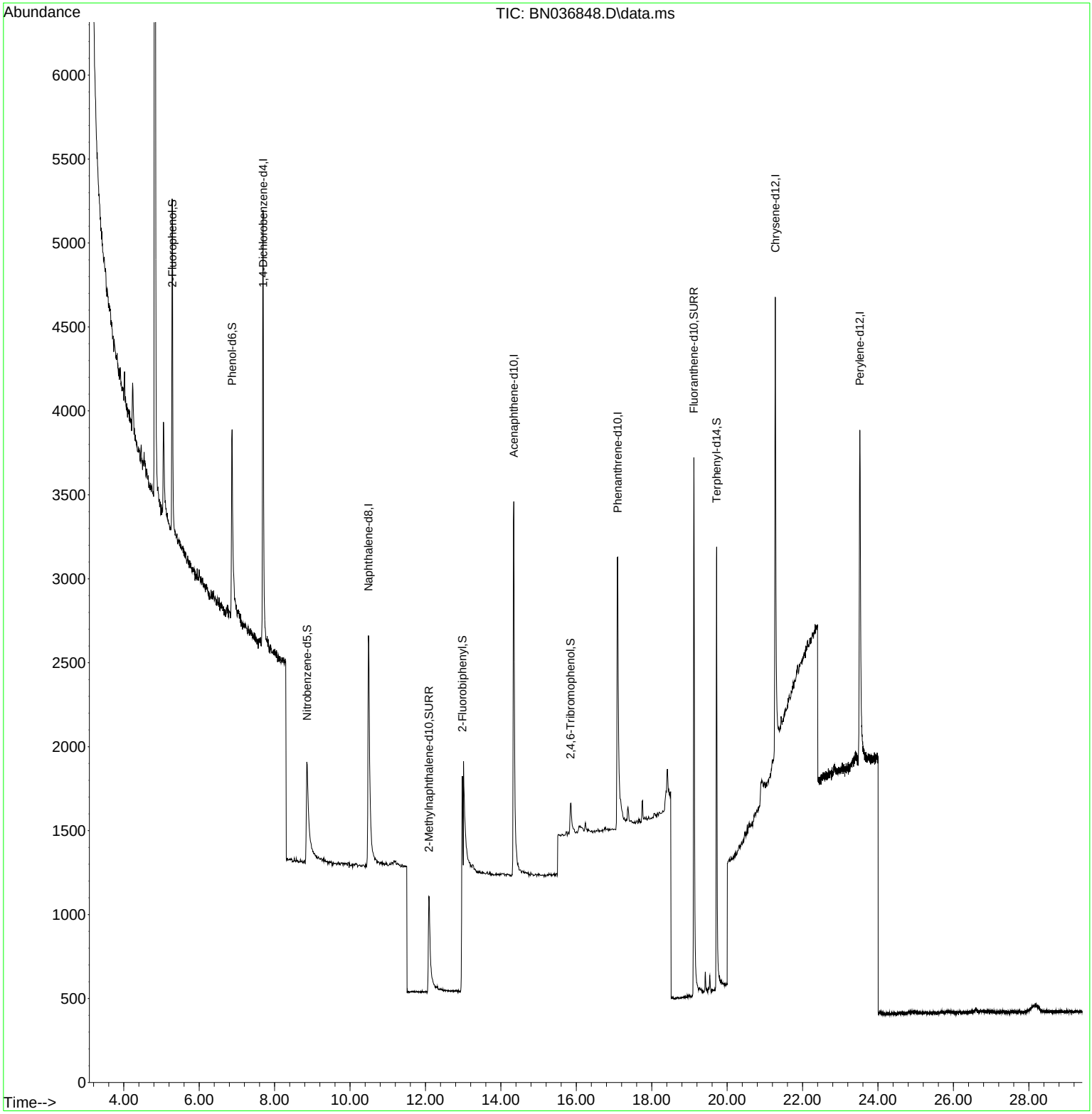
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1482	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	3397	0.400	ng	# 0.01
13) Acenaphthene-d10	14.345	164	1996	0.400	ng	0.01
19) Phenanthrene-d10	17.099	188	4124	0.400	ng	0.02
29) Chrysene-d12	21.277	240	3561	0.400	ng	0.00
35) Perylene-d12	23.519	264	3343	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1557	0.451	ng	0.00
5) Phenol-d6	6.872	99	1621	0.380	ng	0.00
8) Nitrobenzene-d5	8.865	82	1188	0.321	ng	0.02
11) 2-Methylnaphthalene-d10	12.091	152	1791	0.354	ng	0.02
14) 2,4,6-Tribromophenol	15.845	330	210	0.232	ng	0.01
15) 2-Fluorobiphenyl	12.978	172	3337	0.287	ng	0.02
27) Fluoranthene-d10	19.118	212	4594	0.435	ng	0.00
31) Terphenyl-d14	19.722	244	3114	0.365	ng	0.00
Target Compounds						Qvalue

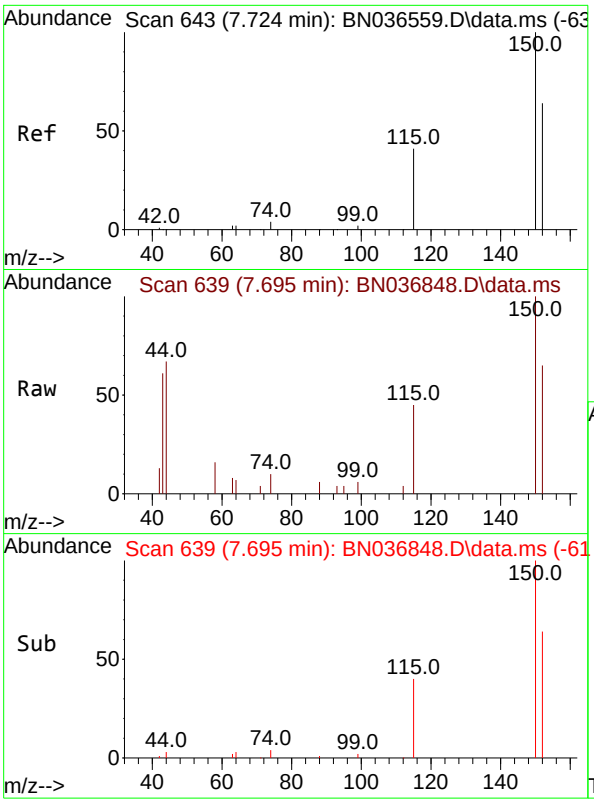
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040725\
Data File : BN036848.D
Acq On : 07 Apr 2025 09:46
Operator : RC/JU
Sample : PB167468BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167468BL

Quant Time: Apr 07 10:42:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration



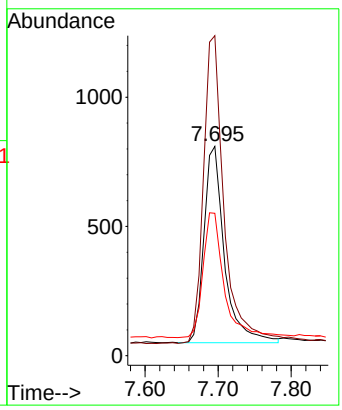


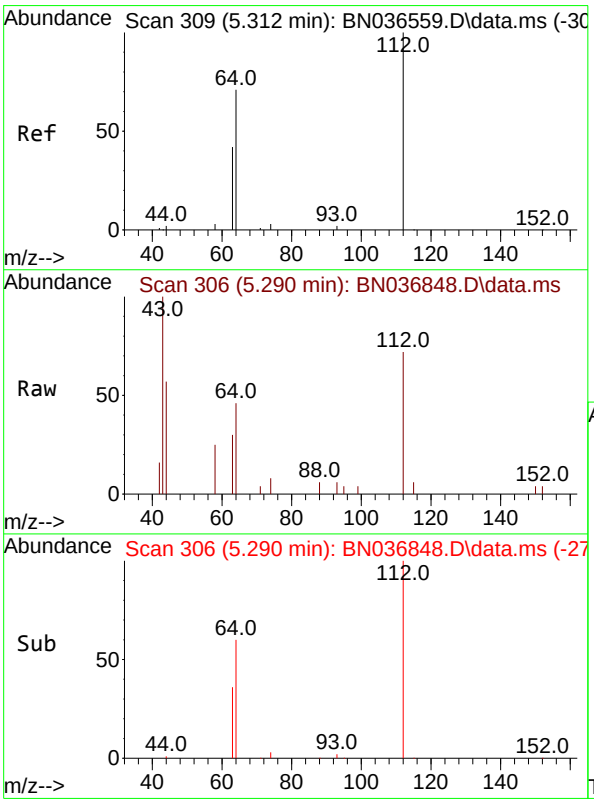
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Instrument :
BNA_N
ClientSampleId :
PB167468BL

Tgt Ion:152 Resp: 1482

Ion	Ratio	Lower	Upper
152	100		
150	152.8	123.7	185.5
115	68.0	54.3	81.5

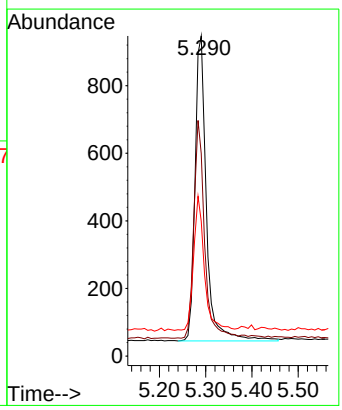


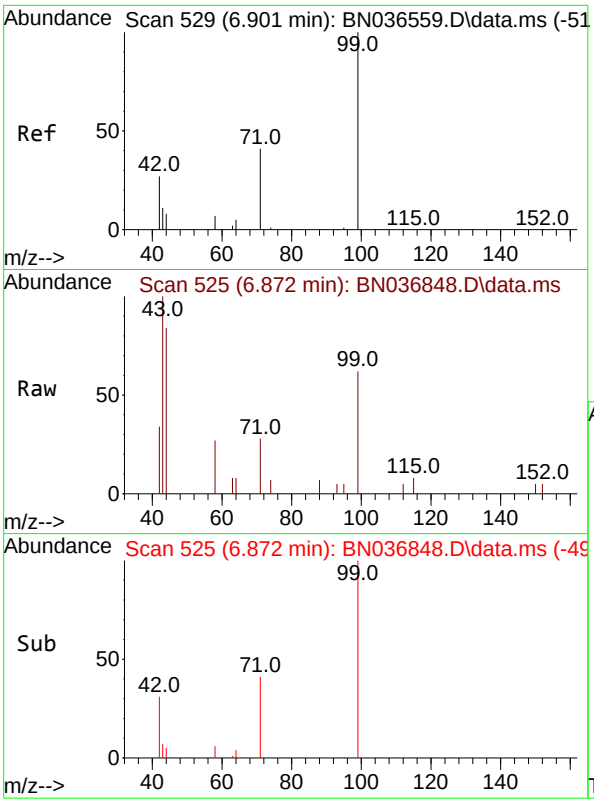


#4
2-Fluorophenol
Concen: 0.451 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.007 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Tgt Ion:112 Resp: 1557

Ion	Ratio	Lower	Upper
112	100		
64	67.6	53.1	79.7
63	41.5	31.8	47.8



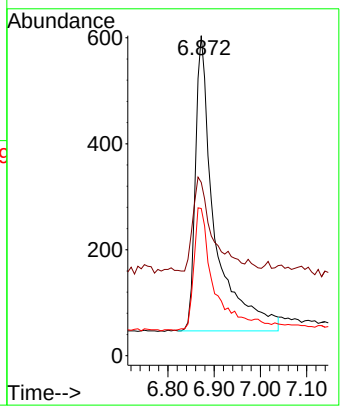


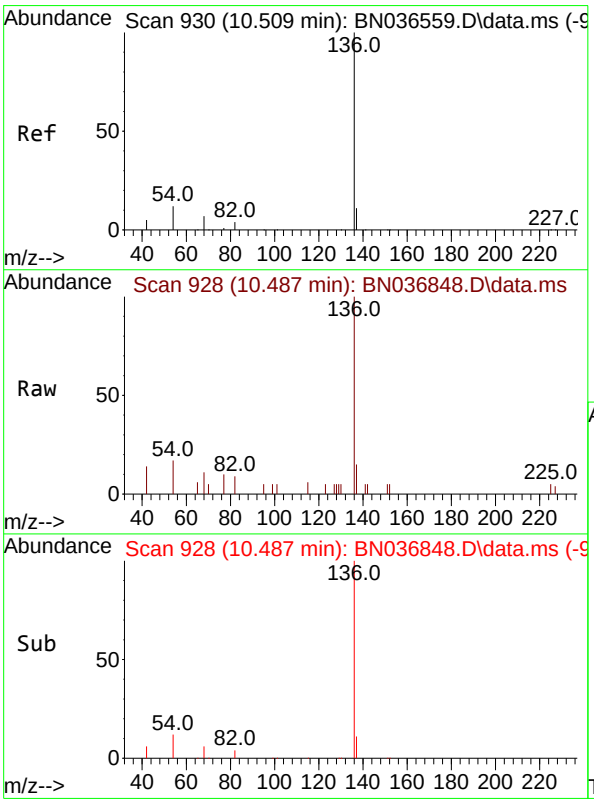
#5
Phenol-d6
Concen: 0.380 ng
RT: 6.872 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Instrument :
BNA_N
ClientSampleId :
PB167468BL

Tgt Ion: 99 Resp: 1621

Ion	Ratio	Lower	Upper
99	100		
42	31.3	26.5	39.7
71	41.7	34.1	51.1

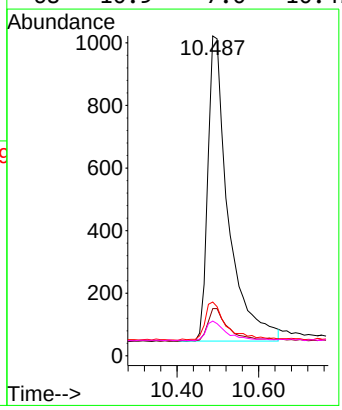


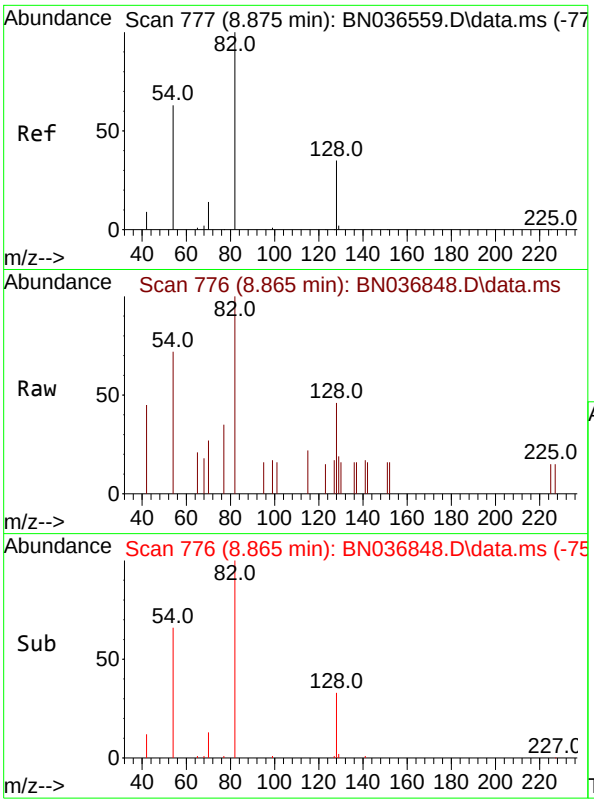


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. 0.011 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Tgt Ion:136 Resp: 3397

Ion	Ratio	Lower	Upper
136	100		
137	14.8	10.3	15.5
54	16.8	11.5	17.3
68	10.9	7.0	10.4#



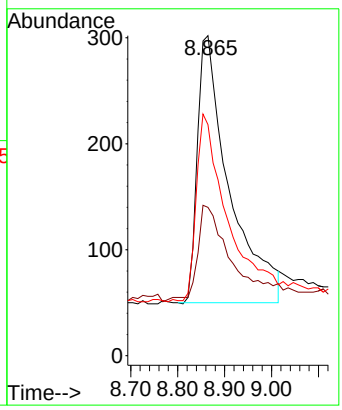


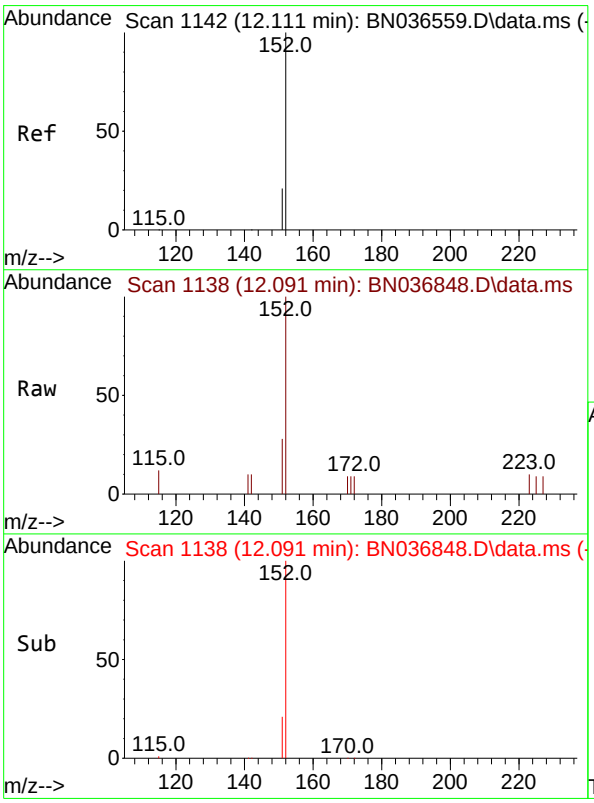
#8
Nitrobenzene-d5
Concen: 0.321 ng
RT: 8.865 min Scan# 7
Delta R.T. 0.021 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Instrument :
BNA_N
ClientSampleId :
PB167468BL

Tgt Ion: 82 Resp: 1188

Ion	Ratio	Lower	Upper
82	100		
128	46.4	30.6	45.8#
54	72.2	52.2	78.4

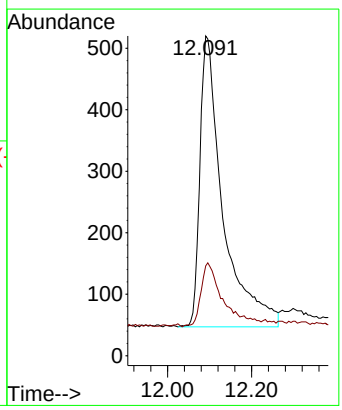


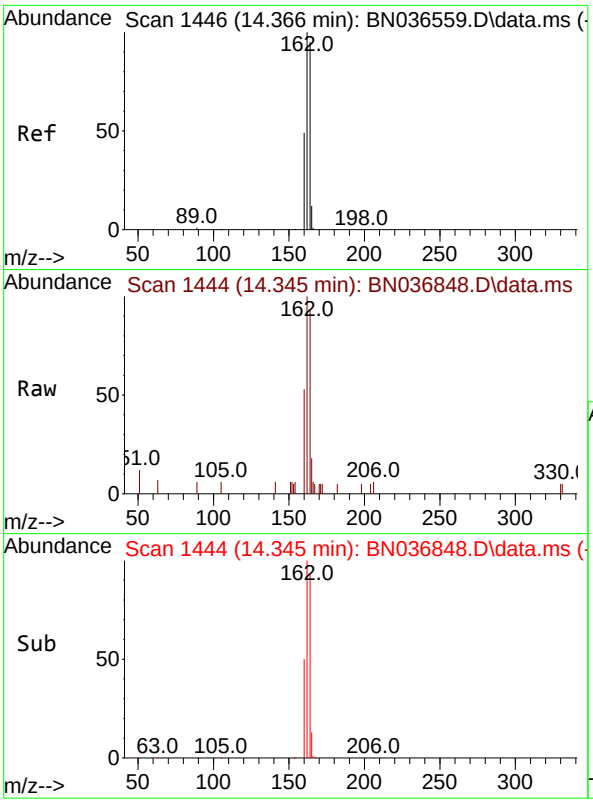


#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.020 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Tgt Ion:152 Resp: 1791

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6



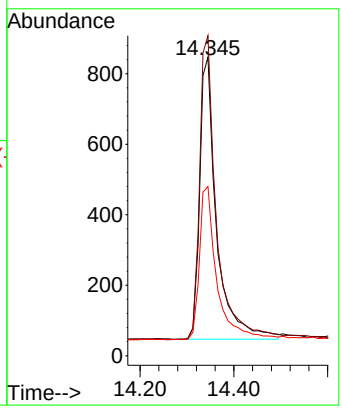


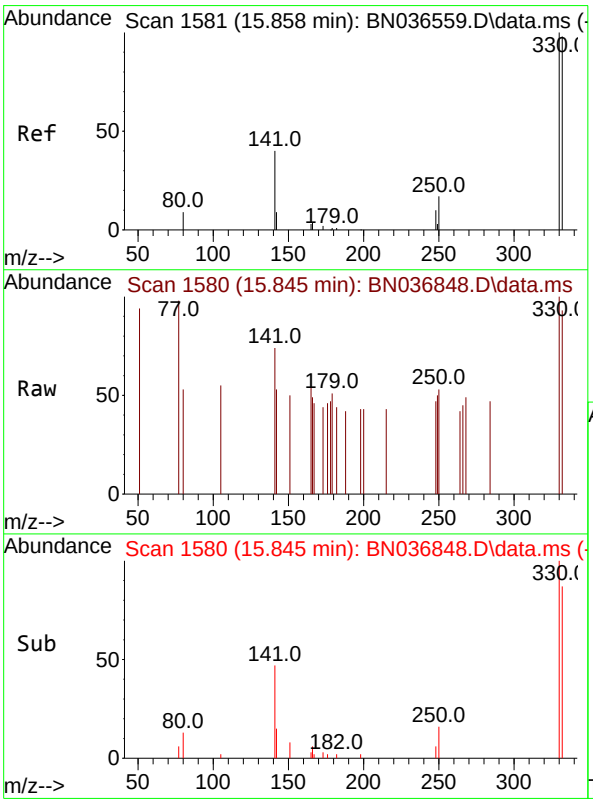
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Instrument :
BNA_N
ClientSampleId :
PB167468BL

Tgt Ion:164 Resp: 1996

Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.2
160	56.7	42.2	63.2

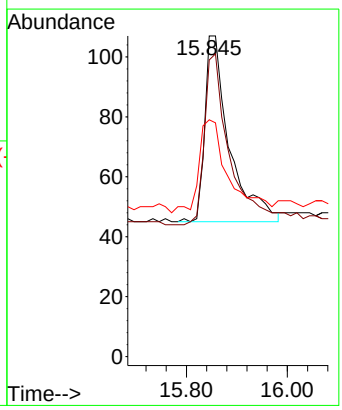


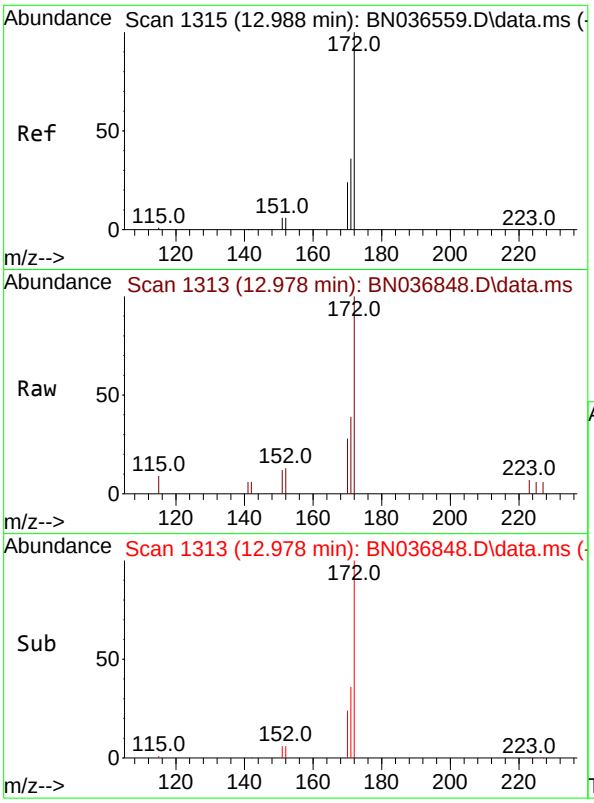


#14
2,4,6-Tribromophenol
Concen: 0.232 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.012 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Tgt Ion:330 Resp: 210

Ion	Ratio	Lower	Upper
330	100		
332	93.8	75.2	112.8
141	59.5	43.4	65.2



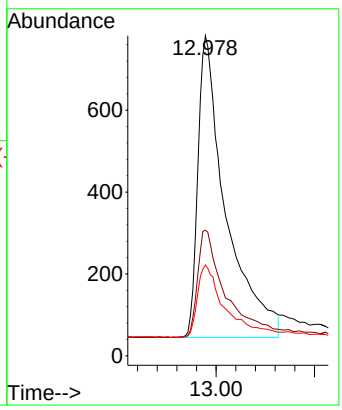


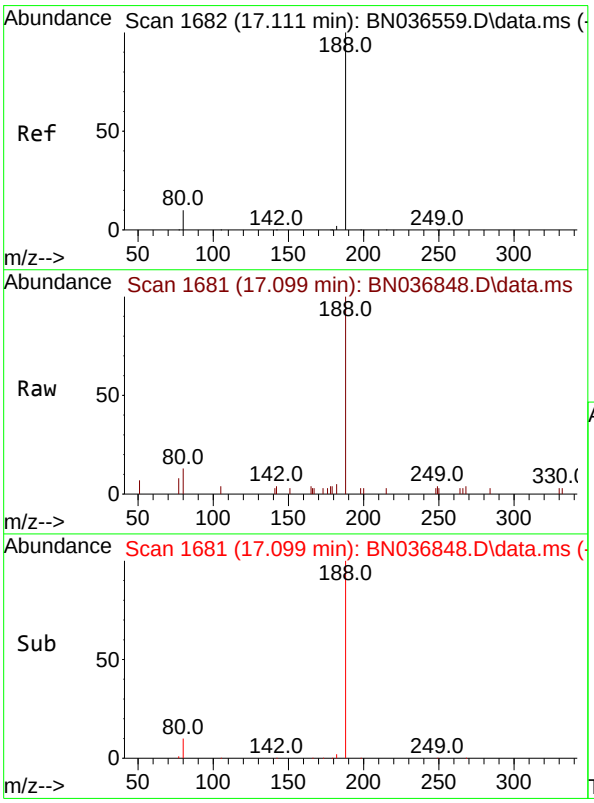
#15
2-Fluorobiphenyl
Concen: 0.287 ng
RT: 12.978 min Scan# 1
Delta R.T. 0.020 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Instrument :
BNA_N
ClientSampleId :
PB167468BL

Tgt Ion:172 Resp: 3337

Ion	Ratio	Lower	Upper
172	100		
171	39.3	29.5	44.3
170	28.4	20.2	30.4

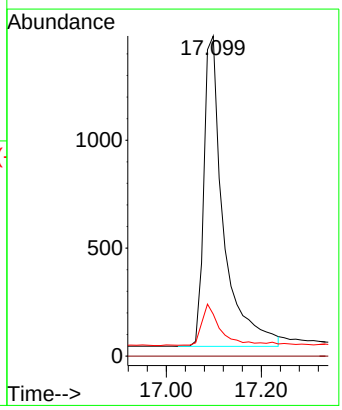


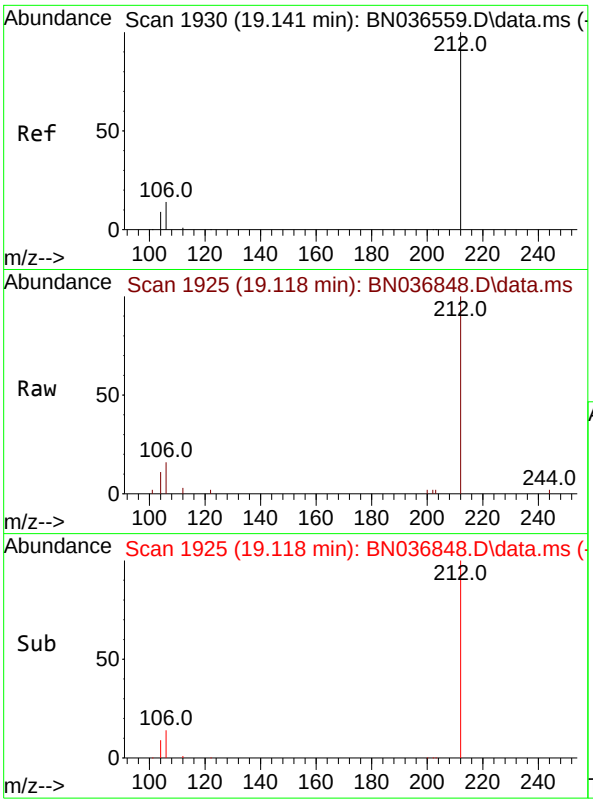


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. 0.025 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Tgt Ion:188 Resp: 4124

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.1	8.8	13.2



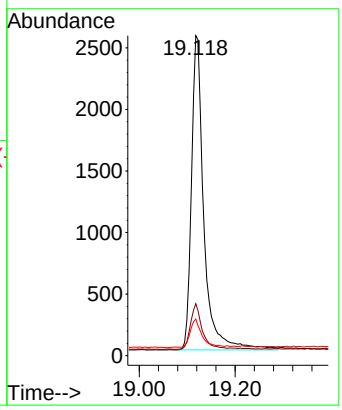


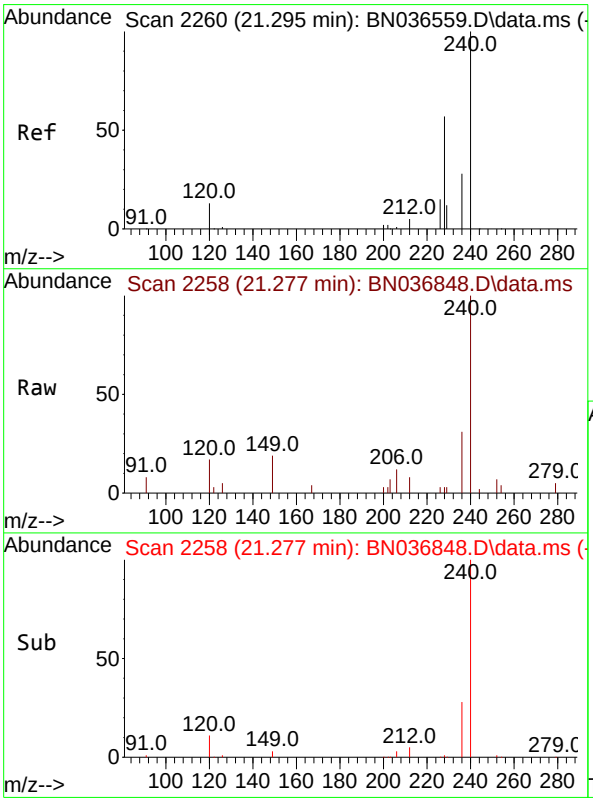
#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.118 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Instrument :
BNA_N
ClientSampleId :
PB167468BL

Tgt Ion:212 Resp: 4594

Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.8	17.6
104	8.3	7.3	10.9

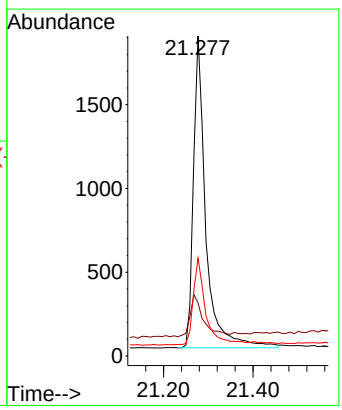


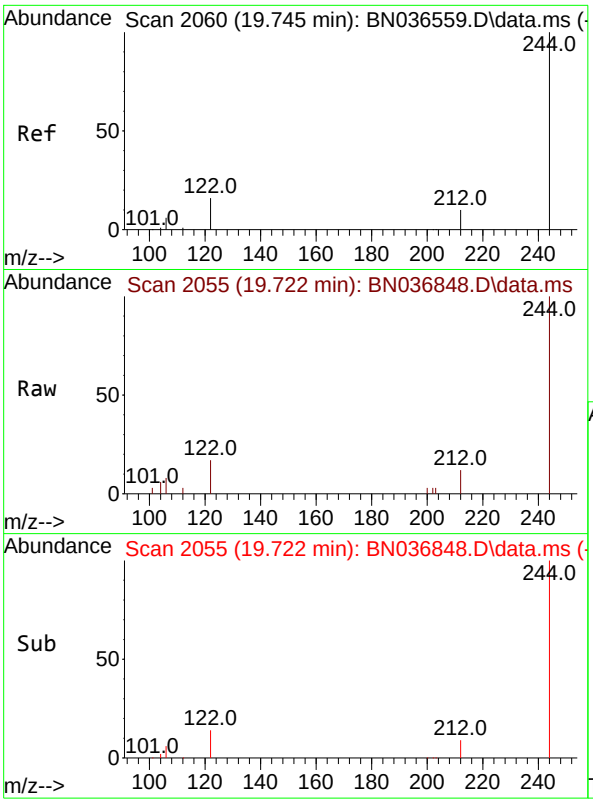


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. 0.009 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Tgt Ion:240 Resp: 3561

Ion	Ratio	Lower	Upper
240	100		
120	16.6	14.6	22.0
236	30.6	24.1	36.1



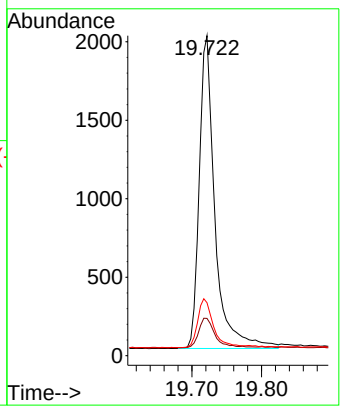


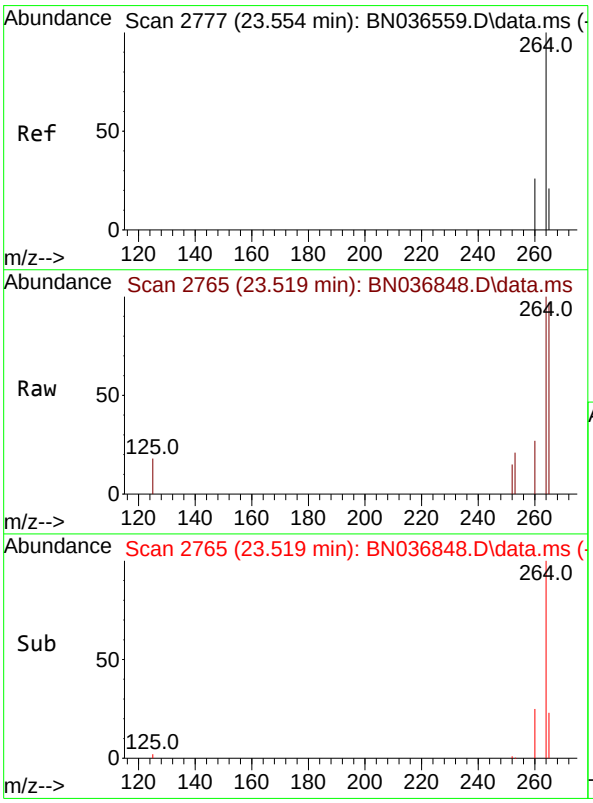
#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.722 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Instrument :
BNA_N
ClientSampleId :
PB167468BL

Tgt Ion:244 Resp: 3114

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	16.6	13.9	20.9

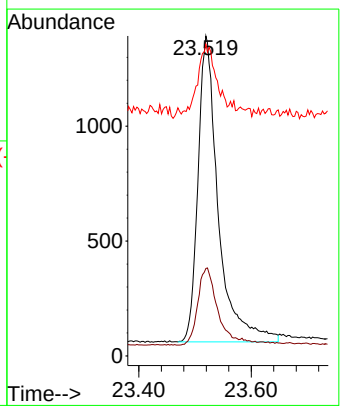




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. 0.009 min
Lab File: BN036848.D
Acq: 07 Apr 2025 09:46

Tgt Ion:264 Resp: 3343

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	97.4	88.1	132.1



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	PB167468BS	SDG No.:	Q1731
Lab Sample ID:	PB167468BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036844.D	1	04/04/25 11:35	04/04/25 20:22	PB167468

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.38		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.40		30 (20) - 150 (139)	99%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 (30) - 150 (150)	99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (27) - 130 (154)	88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		30 (25) - 130 (149)	95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		30 (54) - 130 (175)	91%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.695			
1146-65-2	Naphthalene-d8	4830	10.477			
15067-26-2	Acenaphthene-d10	2640	14.334			
1517-22-2	Phenanthrene-d10	5360	17.074			
1719-03-5	Chrysene-d12	4130	21.268			
1520-96-3	Perylene-d12	3660	23.51			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036844.D
Acq On : 04 Apr 2025 20:22
Operator : RC/JU
Sample : PB167468BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 04 22:50:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	1969	0.400	ng		0.00
7) Naphthalene-d8	10.477	136	4826	0.400	ng		0.00
13) Acenaphthene-d10	14.334	164	2640	0.400	ng		0.00
19) Phenanthrene-d10	17.074	188	5356	0.400	ng	#	0.00
29) Chrysene-d12	21.268	240	4128	0.400	ng		0.00
35) Perylene-d12	23.510	264	3662	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1952	0.425	ng		0.00
5) Phenol-d6	6.872	99	2348	0.414	ng		0.00
8) Nitrobenzene-d5	8.843	82	1839	0.350	ng		0.00
11) 2-Methylnaphthalene-d10	12.070	152	2853m	0.397	ng		0.00
14) 2,4,6-Tribromophenol	15.833	330	442	0.369	ng		0.00
15) 2-Fluorobiphenyl	12.958	172	5850	0.381	ng		0.00
27) Fluoranthene-d10	19.113	212	5446	0.397	ng		0.00
31) Terphenyl-d14	19.722	244	3607	0.365	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.218	88	832	0.381	ng	#	56
3) n-Nitrosodimethylamine	3.528	42	1952	0.442	ng	#	97
6) bis(2-Chloroethyl)ether	7.118	93	2349	0.401	ng		100
9) Naphthalene	10.519	128	5669	0.399	ng		99
10) Hexachlorobutadiene	10.818	225	1296	0.388	ng	#	99
12) 2-Methylnaphthalene	12.146	142	3592	0.398	ng		100
16) Acenaphthylene	14.045	152	5250	0.421	ng		100
17) Acenaphthene	14.398	154	3384	0.415	ng		99
18) Fluorene	15.382	166	4527	0.410	ng		100
20) 4,6-Dinitro-2-methylph...	15.478	198	385	0.427	ng		93
21) 4-Bromophenyl-phenylether	16.280	248	1384	0.412	ng		91
22) Hexachlorobenzene	16.391	284	1620	0.400	ng		97
23) Atrazine	16.553	200	1189	0.442	ng		97
24) Pentachlorophenol	16.739	266	1233	0.667	ng		98
25) Phenanthrene	17.124	178	6887	0.429	ng		100
26) Anthracene	17.210	178	6358	0.439	ng		99
28) Fluoranthene	19.146	202	7791	0.432	ng		99
30) Pyrene	19.508	202	8053	0.399	ng		100
32) Benzo(a)anthracene	21.259	228	6120	0.426	ng		99
33) Chrysene	21.304	228	7002	0.446	ng		99
34) Bis(2-ethylhexyl)phtha...	21.187	149	3668	0.359	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.776	276	5948	0.450	ng		99
37) Benzo(b)fluoranthene	22.838	252	5760	0.432	ng		96
38) Benzo(k)fluoranthene	22.882	252	6336	0.453	ng		95
39) Benzo(a)pyrene	23.414	252	5295	0.472	ng	#	93
40) Dibenzo(a,h)anthracene	25.794	278	4360	0.424	ng		95
41) Benzo(g,h,i)perylene	26.460	276	4917	0.418	ng		97

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

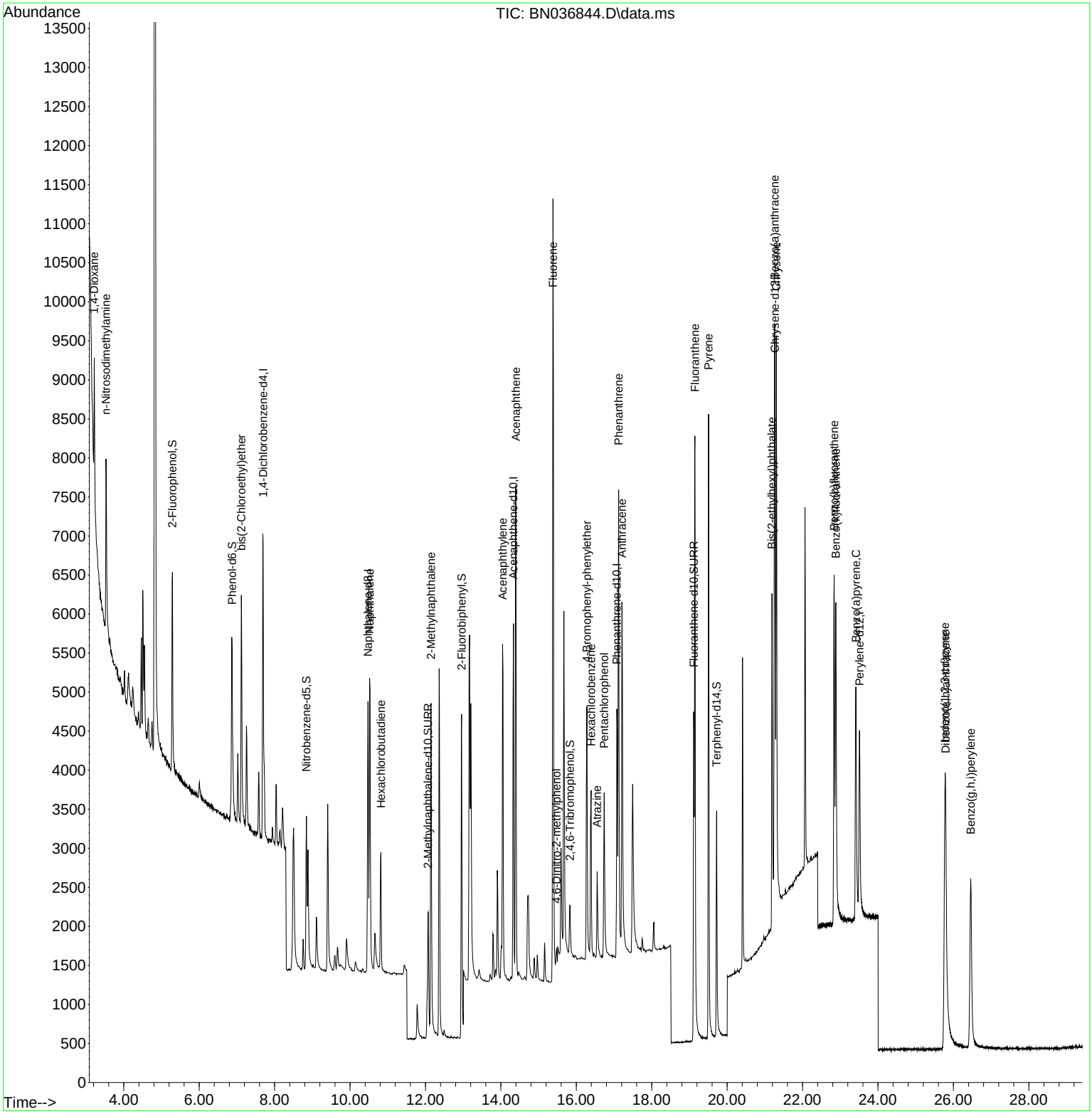
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Data File : BN036844.D
Acq On : 04 Apr 2025 20:22
Operator : RC/JU
Sample : PB167468BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

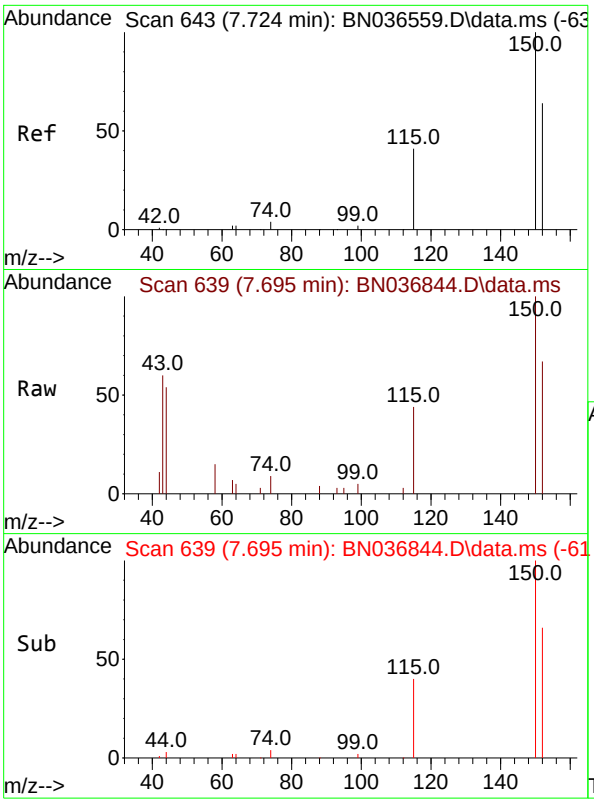
Quant Time: Apr 04 22:50:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/07/2025
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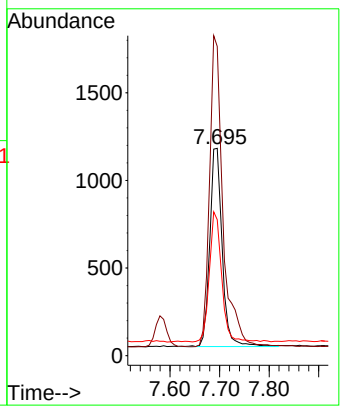




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:152 Resp: 196

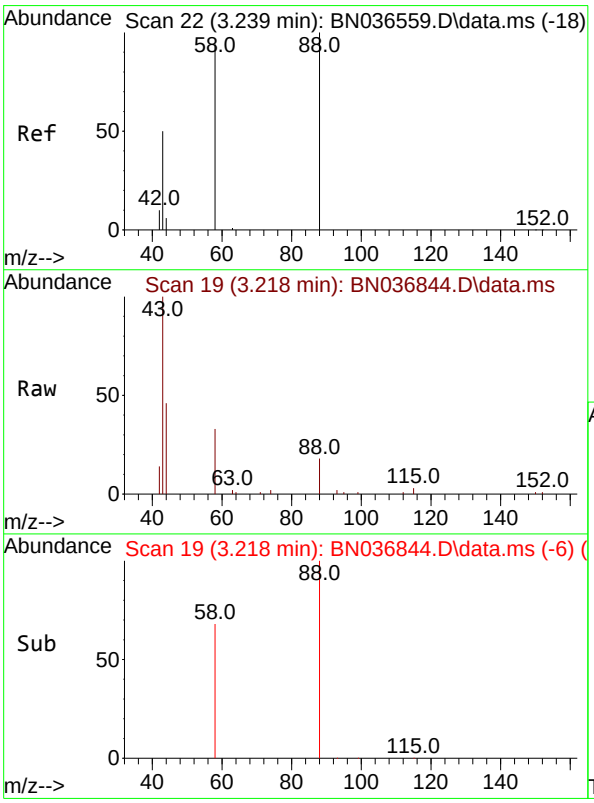
Ion	Ratio	Lower	Upper
152	100		
150	149.2	123.7	185.5
115	65.6	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

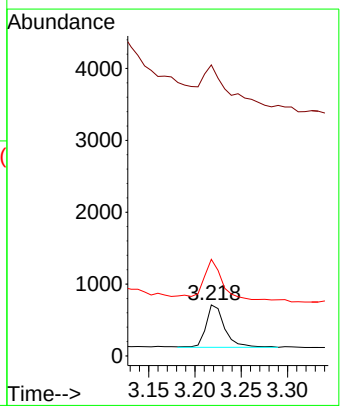
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

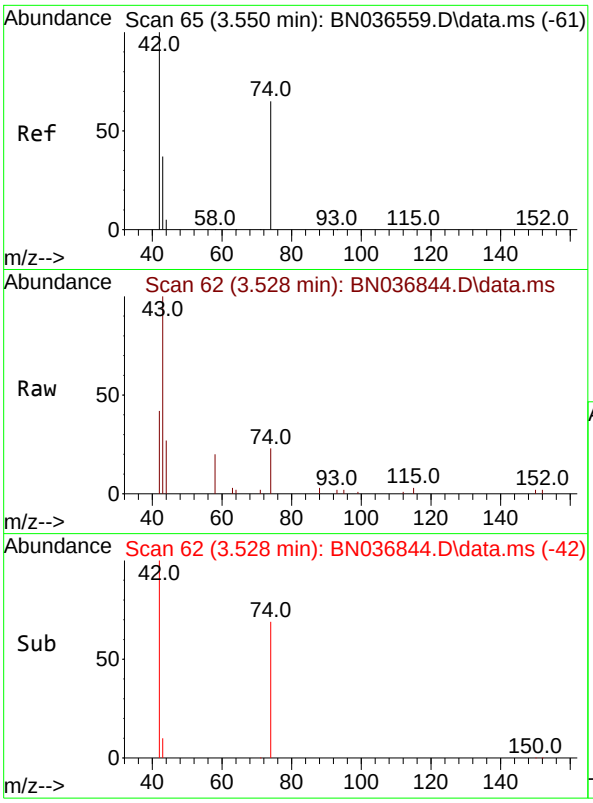


#2
1,4-Dioxane
Concen: 0.381 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.007 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion: 88 Resp: 832

Ion	Ratio	Lower	Upper
88	100		
43	125.2	37.8	56.8#
58	88.1	67.4	101.2

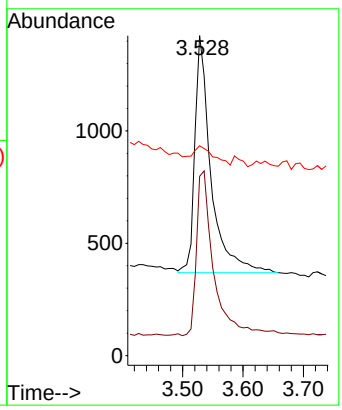




#3
n-Nitrosodimethylamine
Concen: 0.442 ng
RT: 3.528 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion: 42 Resp: 195

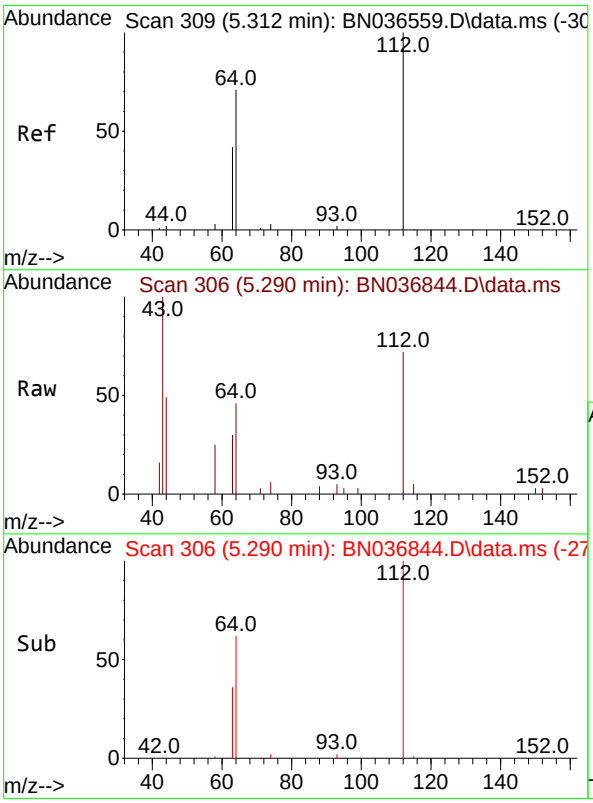
Ion	Ratio	Lower	Upper
42	100		
74	73.6	60.6	90.8
44	9.7	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

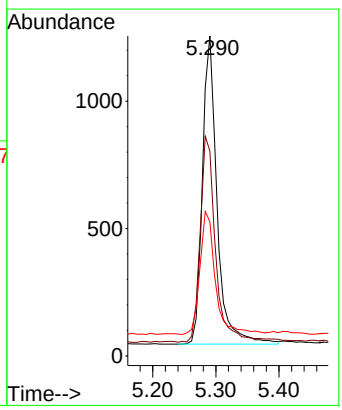
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

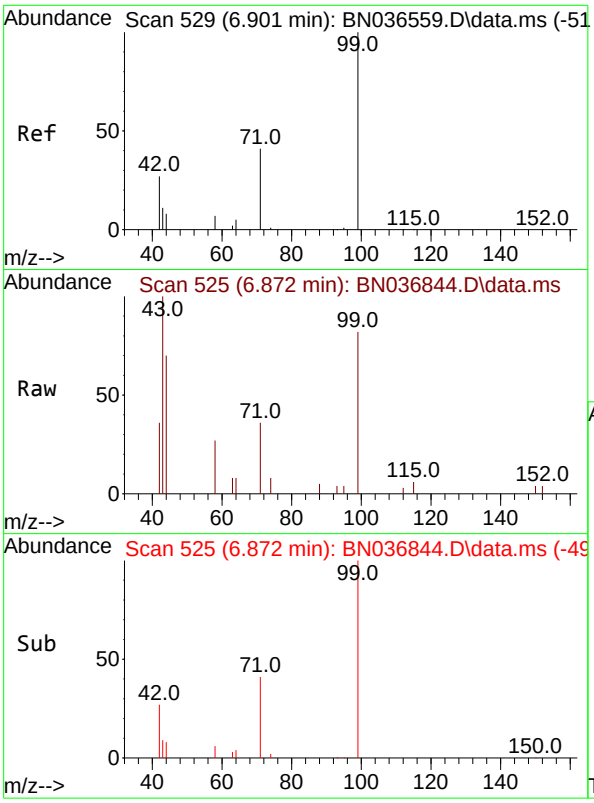


#4
2-Fluorophenol
Concen: 0.425 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.007 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:112 Resp: 1952

Ion	Ratio	Lower	Upper
112	100		
64	71.1	53.1	79.7
63	42.3	31.8	47.8

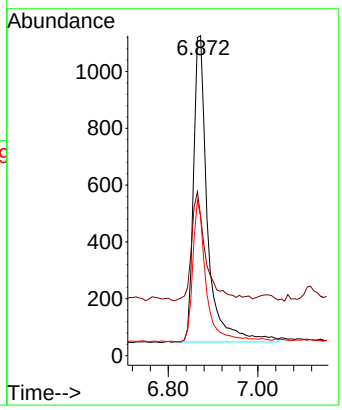




#5
Phenol-d6
Concen: 0.414 ng
RT: 6.872 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion: 99 Resp: 234

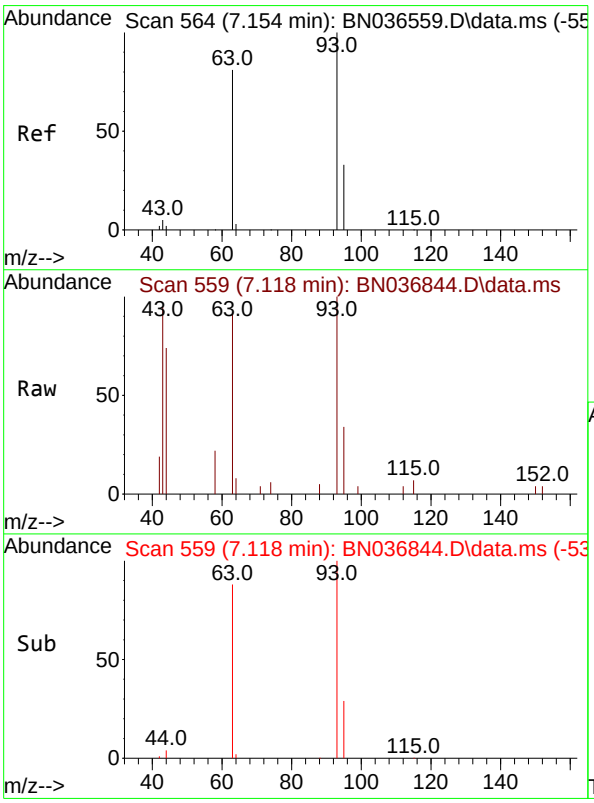
Ion	Ratio	Lower	Upper
99	100		
42	35.3	26.5	39.7
71	44.4	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

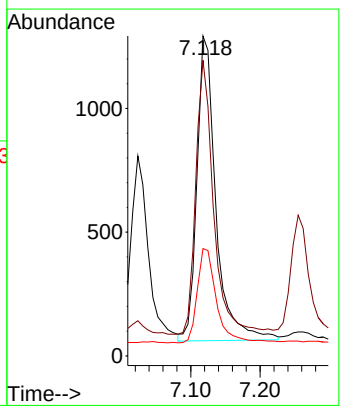
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

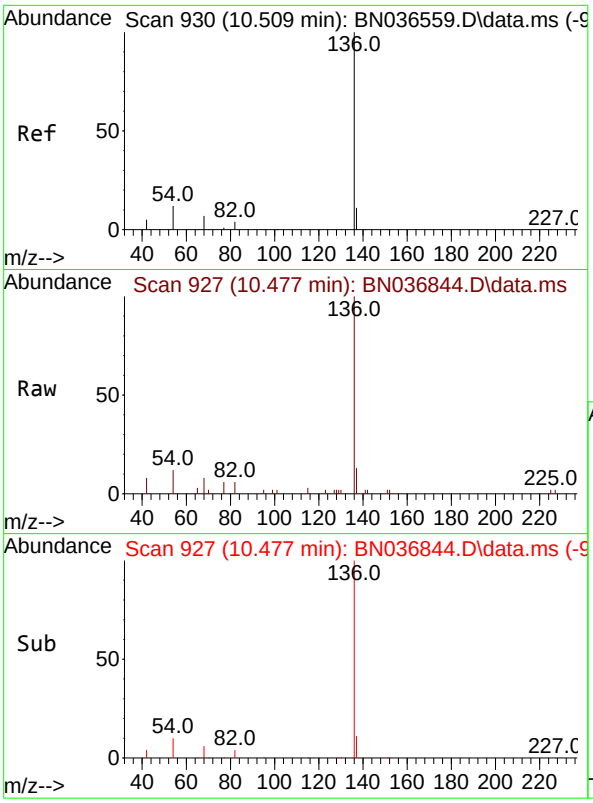


#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion: 93 Resp: 2349

Ion	Ratio	Lower	Upper
93	100		
63	84.5	67.7	101.5
95	31.4	25.6	38.4

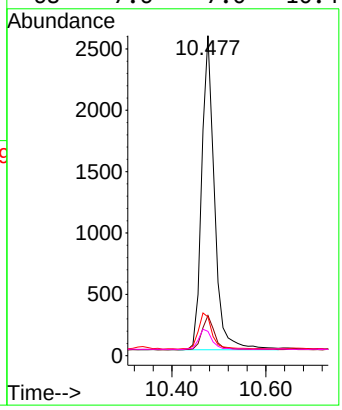




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:136 Resp: 482

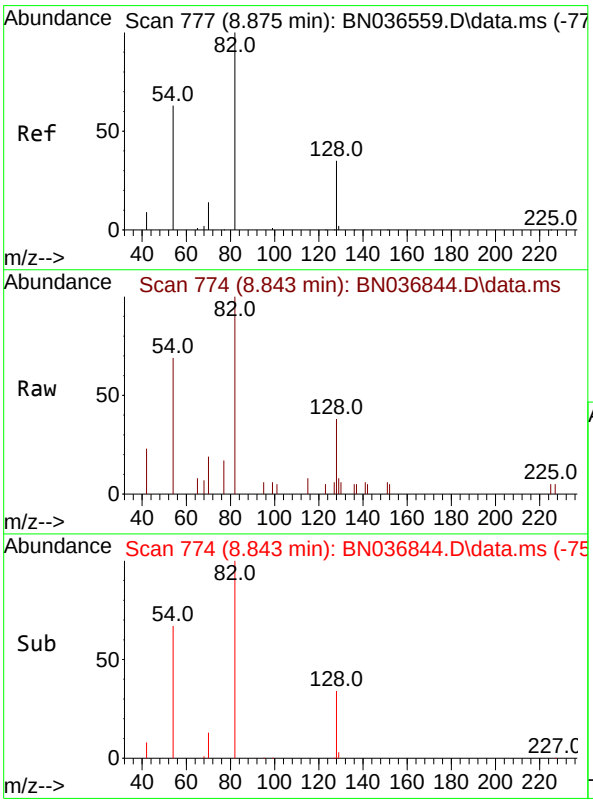
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	12.1	11.5	17.3
68	7.6	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

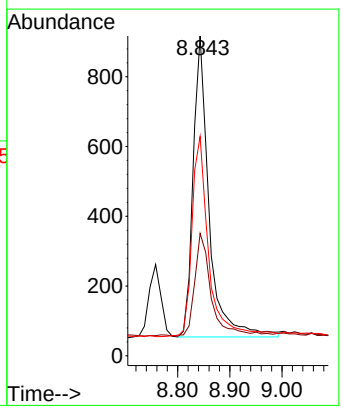
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

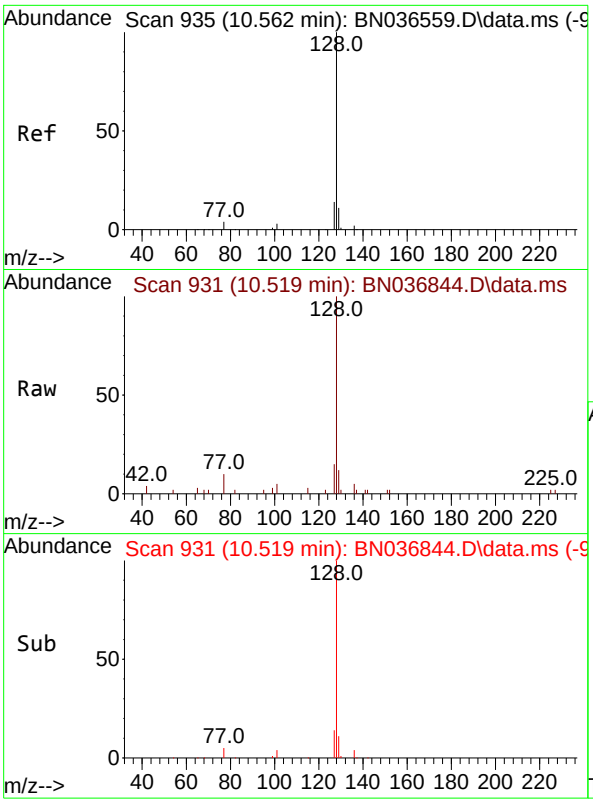


#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion: 82 Resp: 1839

Ion	Ratio	Lower	Upper
82	100		
128	38.3	30.6	45.8
54	68.6	52.2	78.4

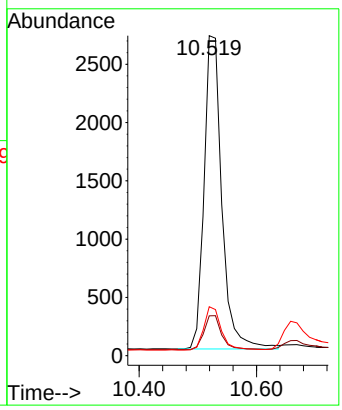




#9
Naphthalene
Concen: 0.399 ng
RT: 10.519 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:128 Resp: 566

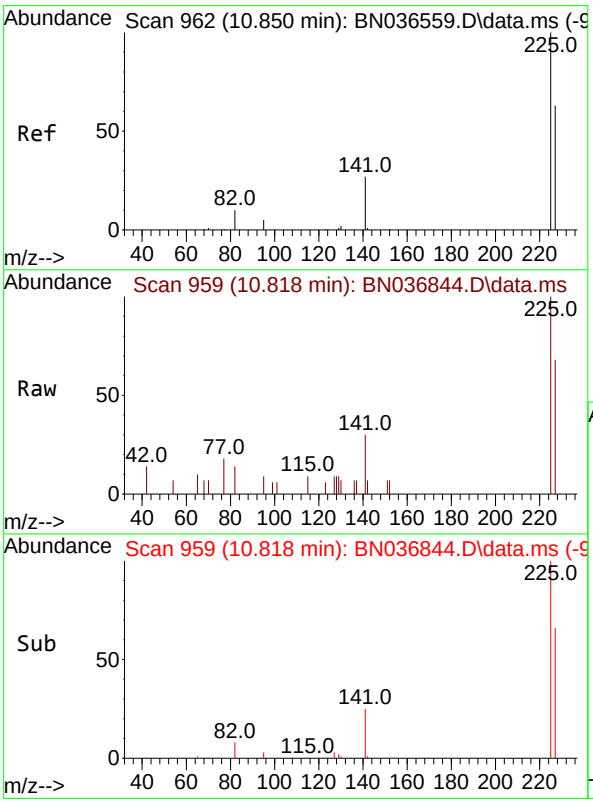
Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	15.3	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

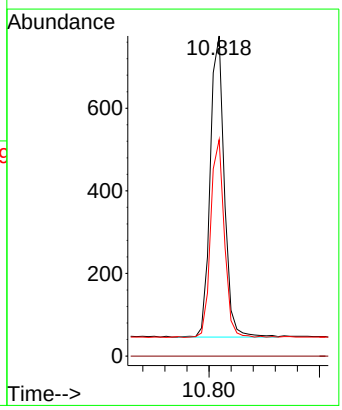
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

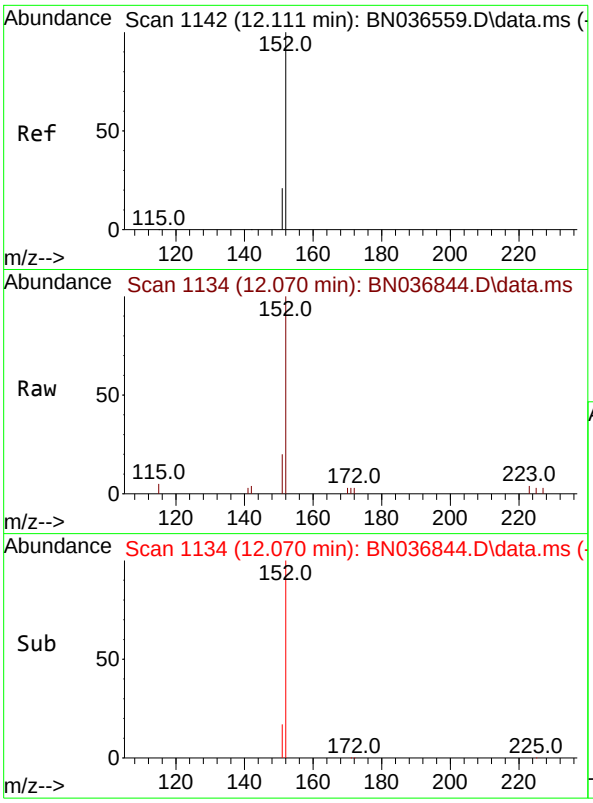


#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:225 Resp: 1296

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.397 ng m
RT: 12.070 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

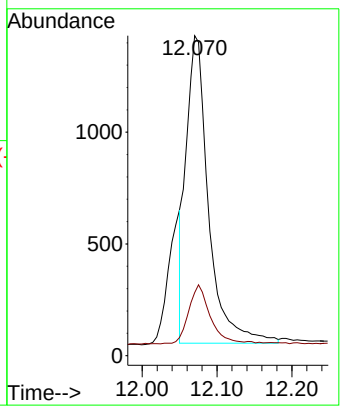
Tgt Ion:152 Resp: 285

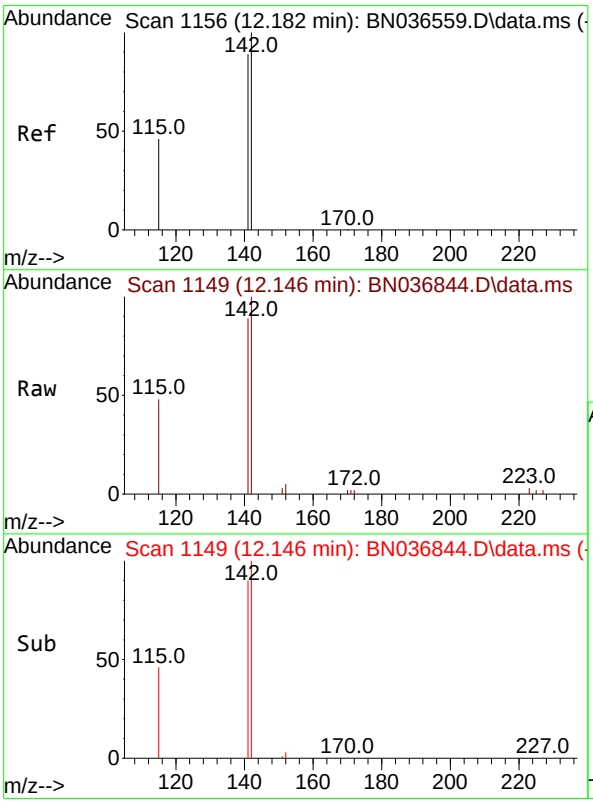
Ion	Ratio	Lower	Upper
152	100		
151	18.4	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

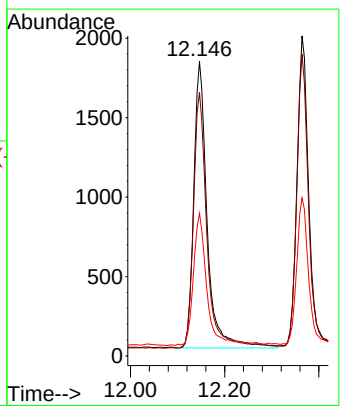


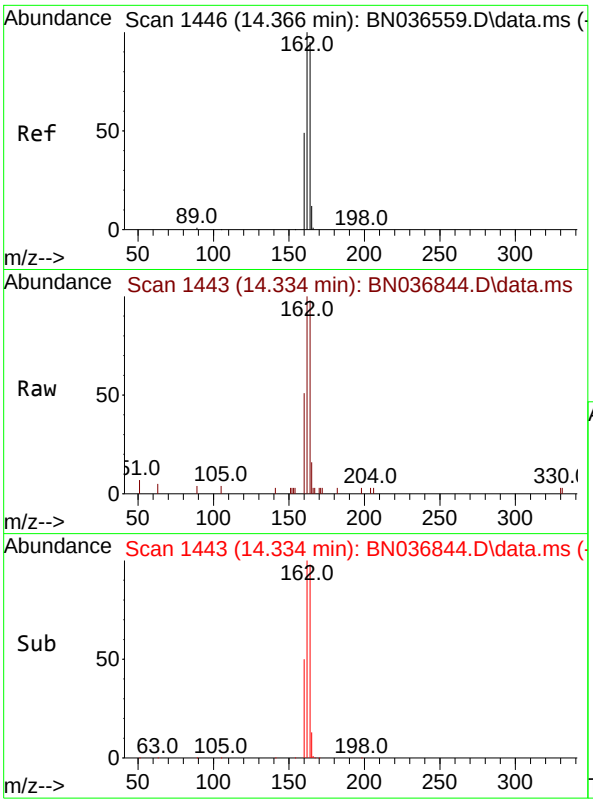


#12
2-Methylnaphthalene
Concen: 0.398 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:142 Resp: 3592

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.7	107.5
115	48.5	38.3	57.5

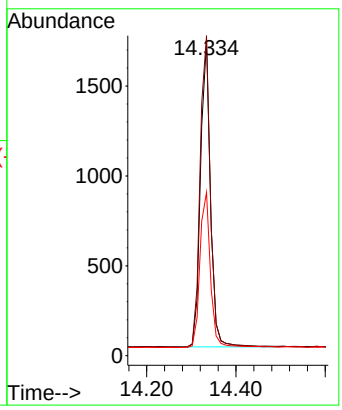




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:164 Resp: 264

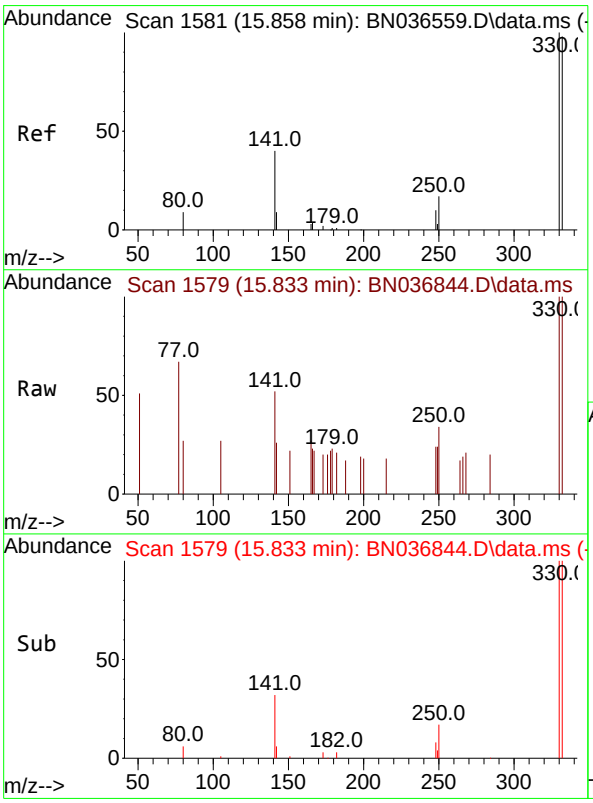
Ion	Ratio	Lower	Upper
164	100		
162	101.7	84.2	126.2
160	51.9	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

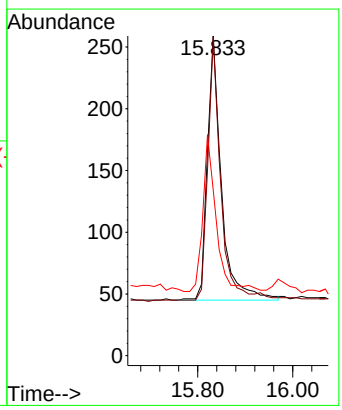
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

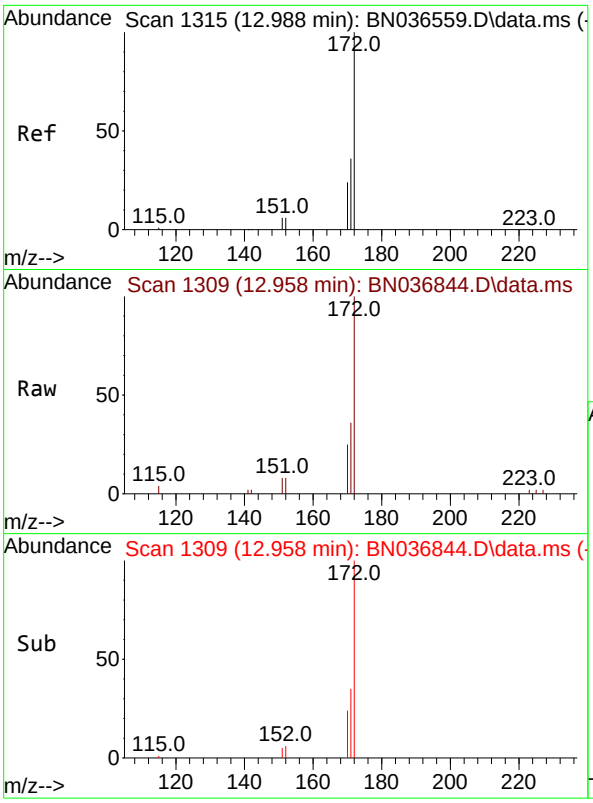


#14
2,4,6-Tribromophenol
Concen: 0.369 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:330 Resp: 442

Ion	Ratio	Lower	Upper
330	100		
332	91.2	75.2	112.8
141	55.9	43.4	65.2

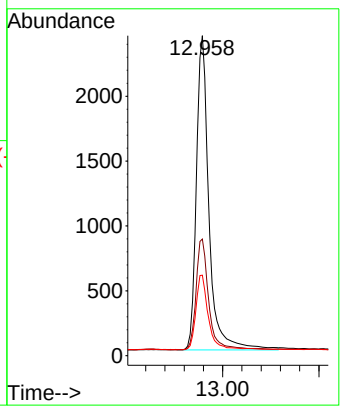




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:172 Resp: 585

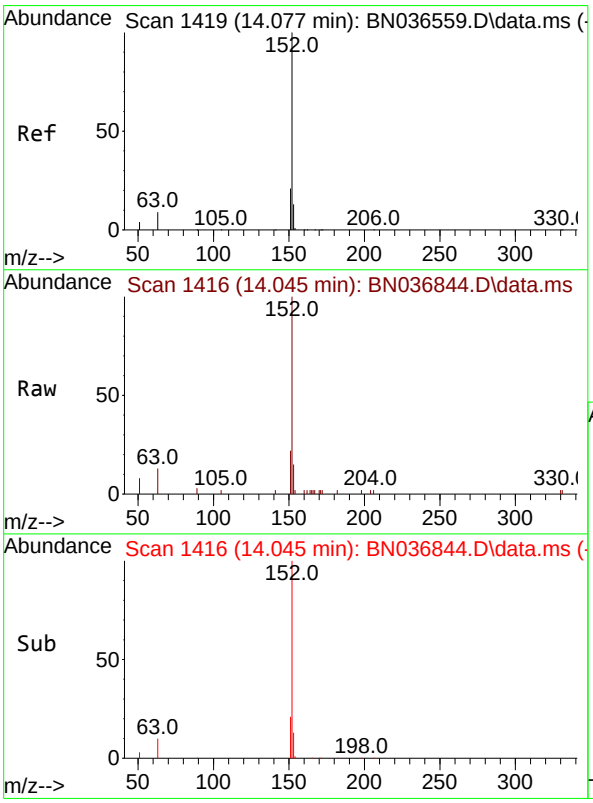
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.5	44.3
170	25.1	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

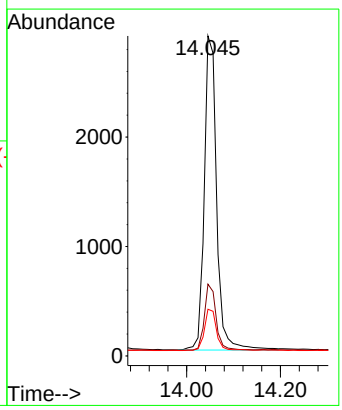
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

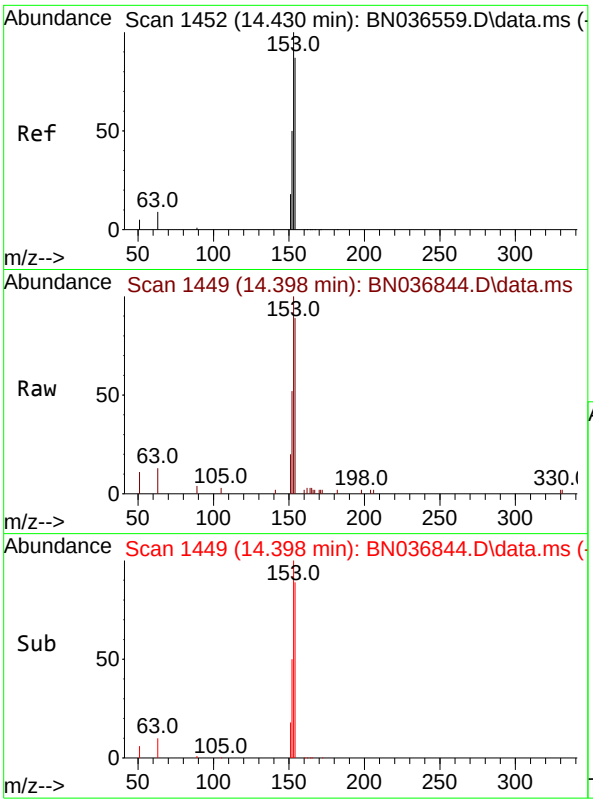


#16
Acenaphthylene
Concen: 0.421 ng
RT: 14.045 min Scan# 1416
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:152 Resp: 5250

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	13.0	10.6	15.8

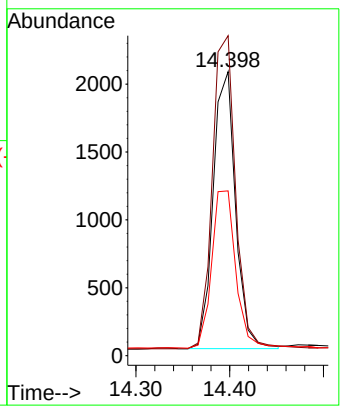




#17
Acenaphthene
Concen: 0.415 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:154 Resp: 338

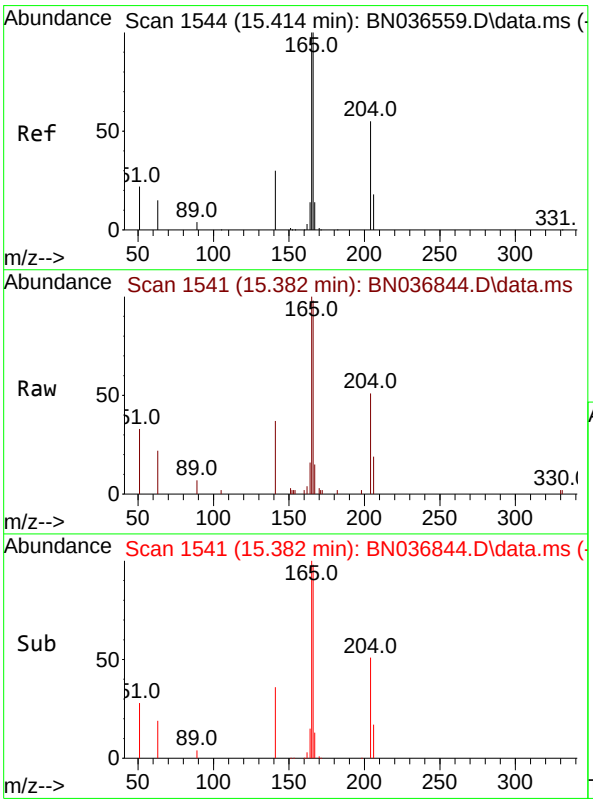
Ion	Ratio	Lower	Upper
154	100		
153	119.0	94.1	141.1
152	61.6	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

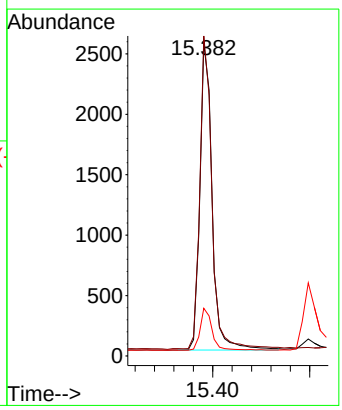
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

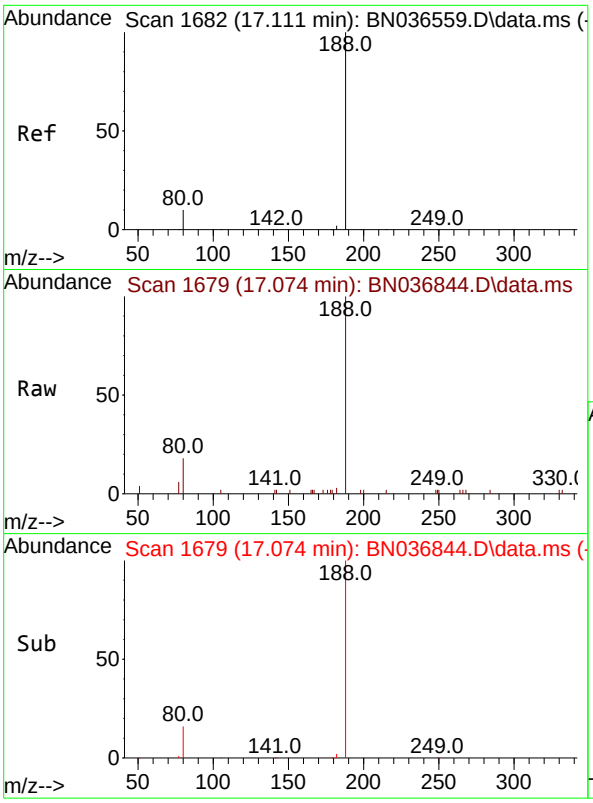


#18
Fluorene
Concen: 0.410 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:166 Resp: 4527

Ion	Ratio	Lower	Upper
166	100		
165	100.2	79.8	119.8
167	13.1	10.6	15.8

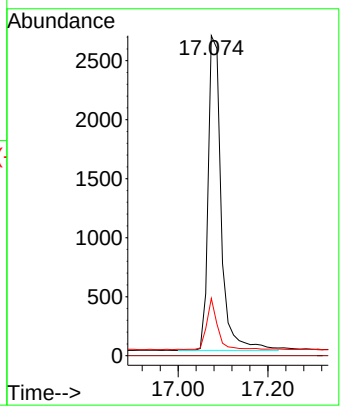




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.074 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:188 Resp: 535(

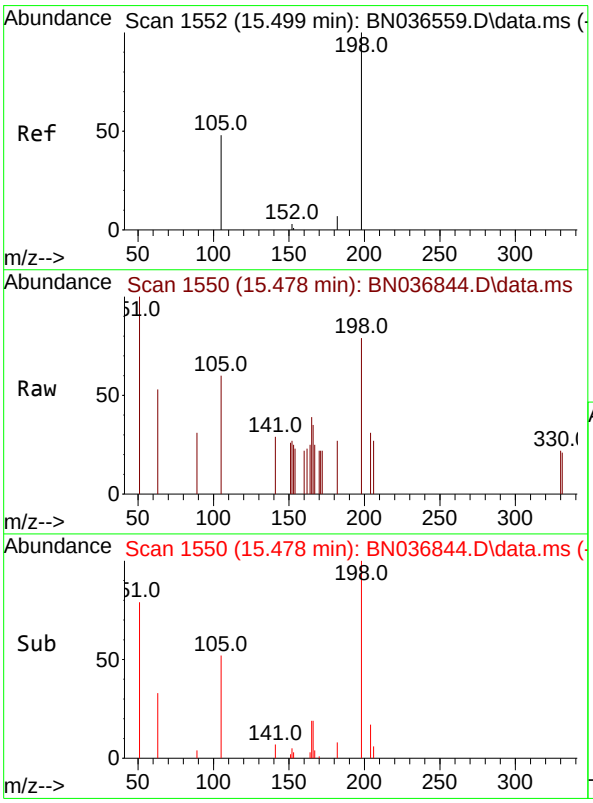
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.9	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

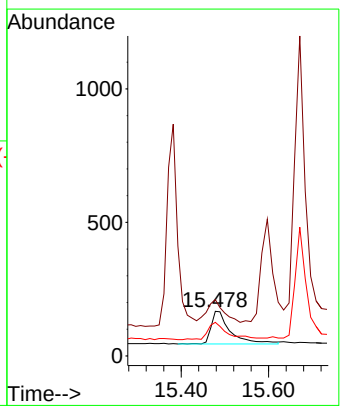
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

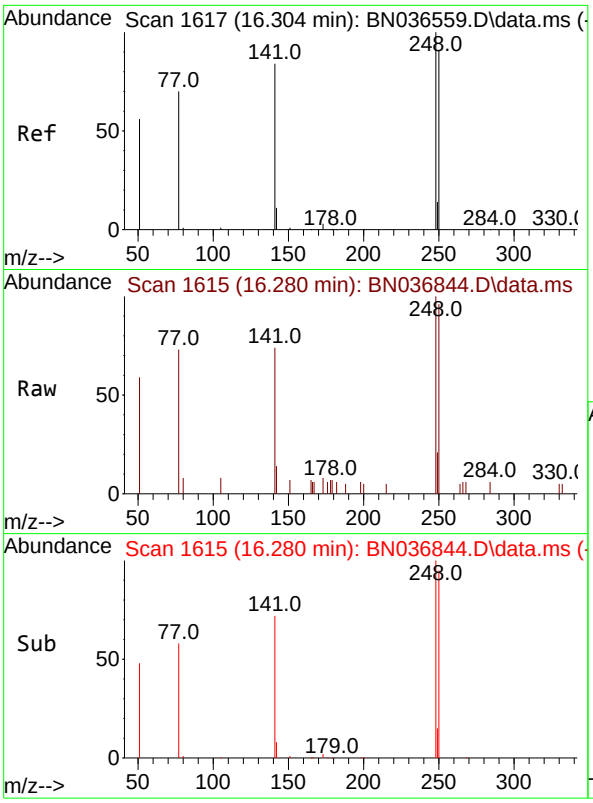


#20
4,6-Dinitro-2-methylphenol
Concen: 0.427 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:198 Resp: 385

Ion	Ratio	Lower	Upper
198	100		
51	126.3	107.9	161.9
105	75.4	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.412 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

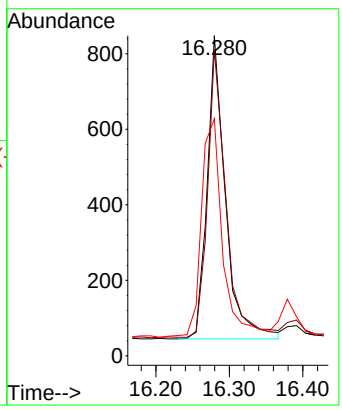
Tgt Ion:248 Resp: 138

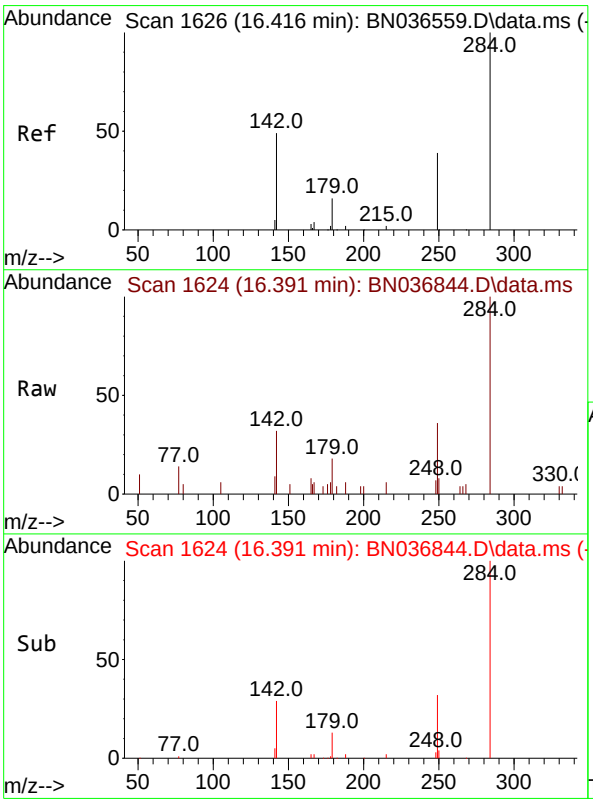
Ion	Ratio	Lower	Upper
248	100		
250	95.6	73.0	109.6
141	74.1	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

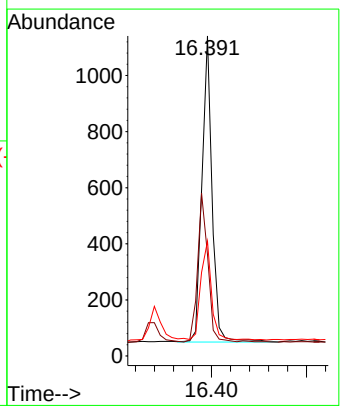


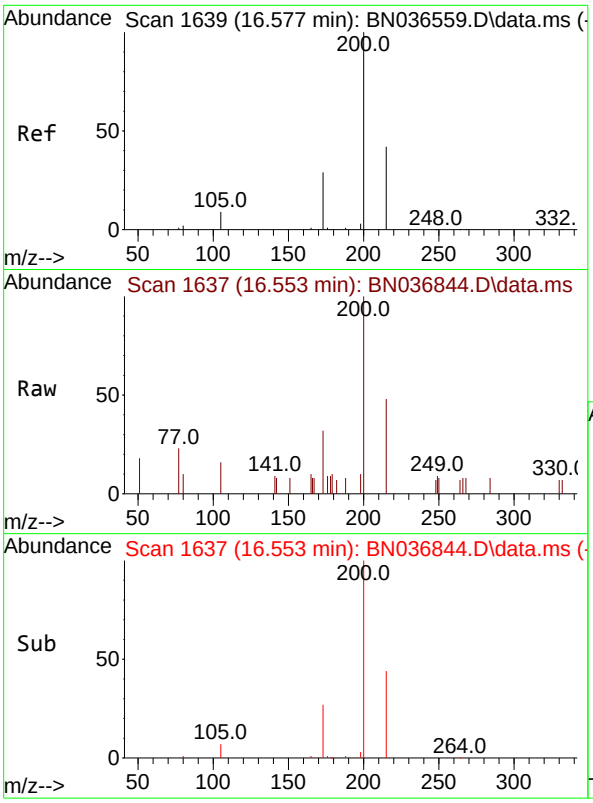


#22
Hexachlorobenzene
Concen: 0.400 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:284 Resp: 1620

Ion	Ratio	Lower	Upper
284	100		
142	48.7	37.0	55.4
249	34.2	28.1	42.1

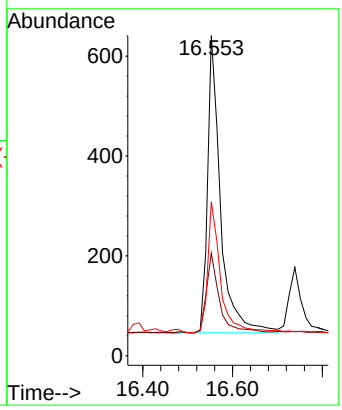




#23
Atrazine
Concen: 0.442 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:200 Resp: 118

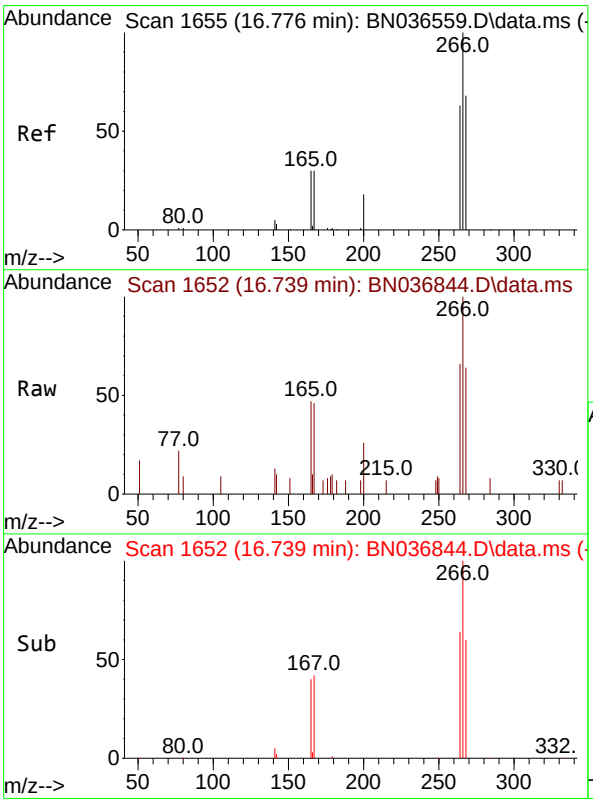
Ion	Ratio	Lower	Upper
200	100		
173	32.1	27.3	40.9
215	48.0	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

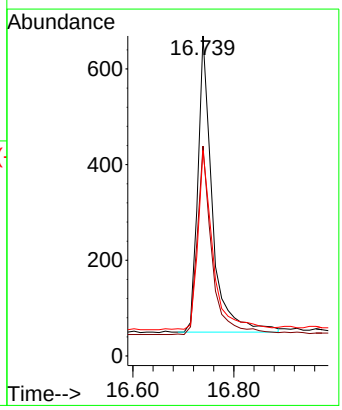
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

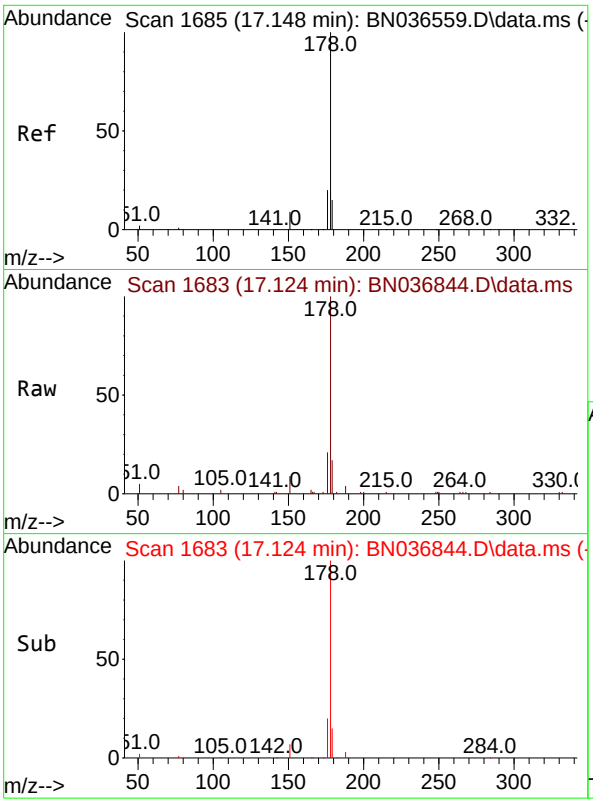


#24
Pentachlorophenol
Concen: 0.667 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:266 Resp: 1233

Ion	Ratio	Lower	Upper
266	100		
264	64.5	49.6	74.4
268	63.0	50.9	76.3

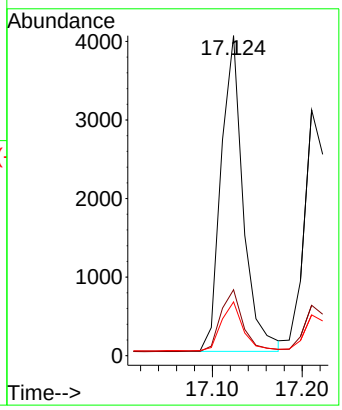




#25
Phenanthrene
Concen: 0.429 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:178 Resp: 688

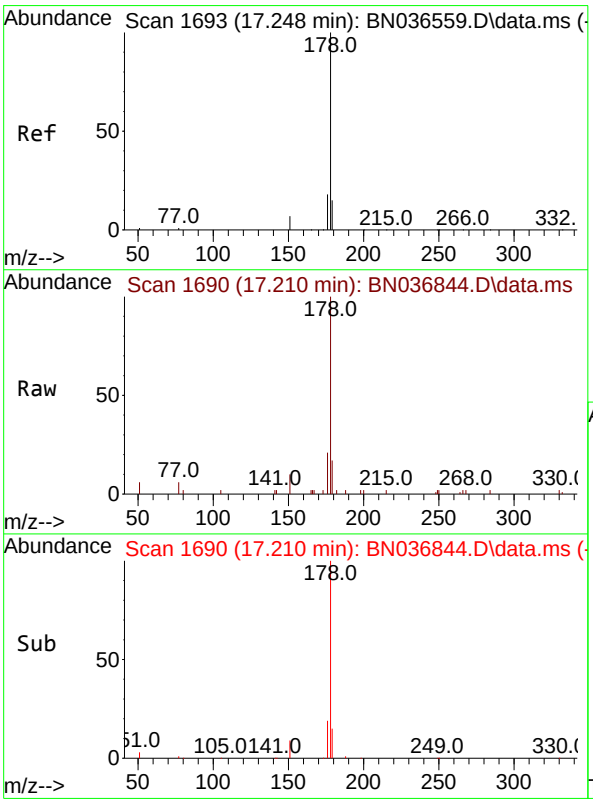
Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.9	23.9
179	15.6	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

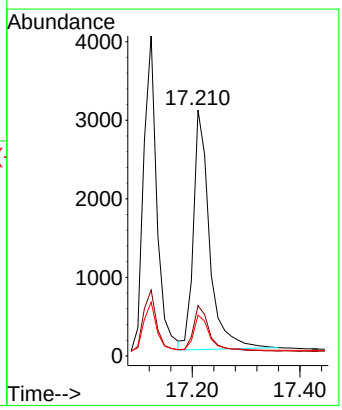
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

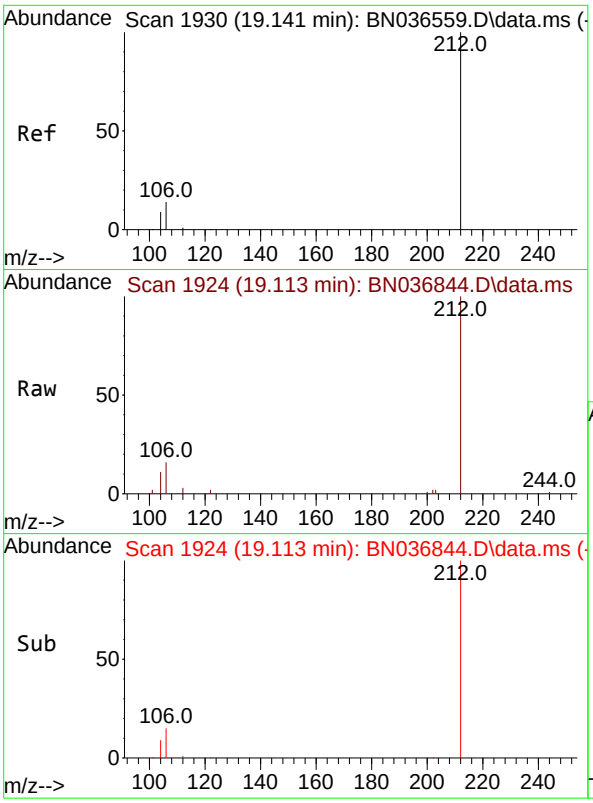


#26
Anthracene
Concen: 0.439 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:178 Resp: 6358

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	14.8	12.6	18.8

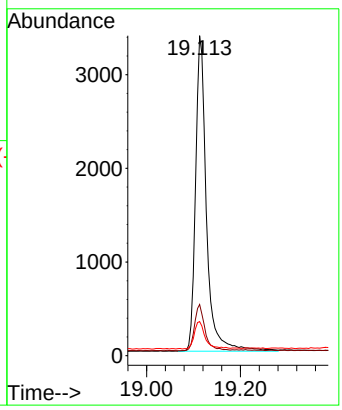




#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 19.113 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:212 Resp: 544

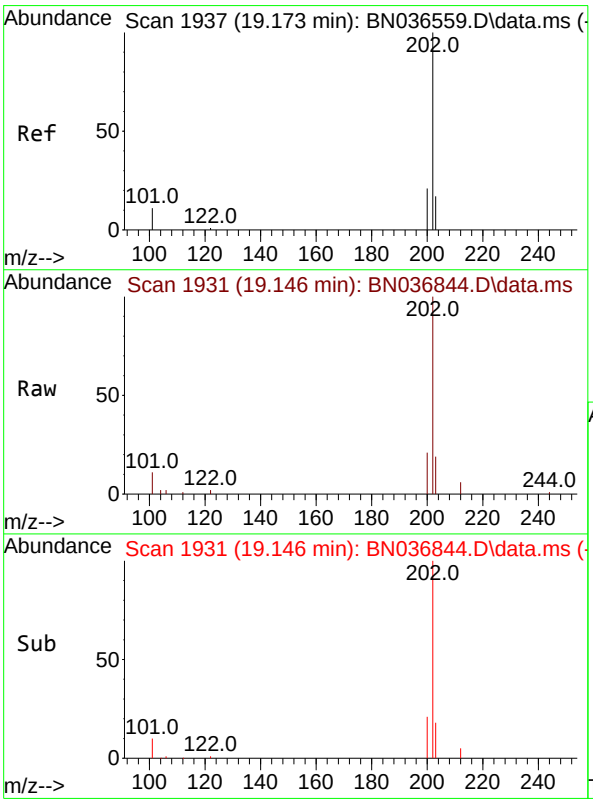
Ion	Ratio	Lower	Upper
212	100		
106	14.0	11.8	17.6
104	8.7	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

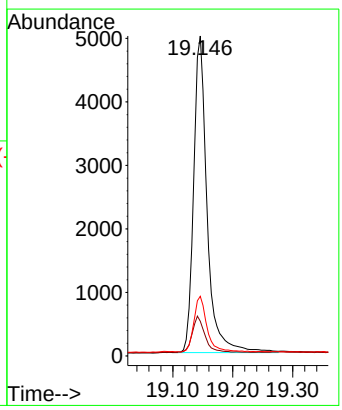
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

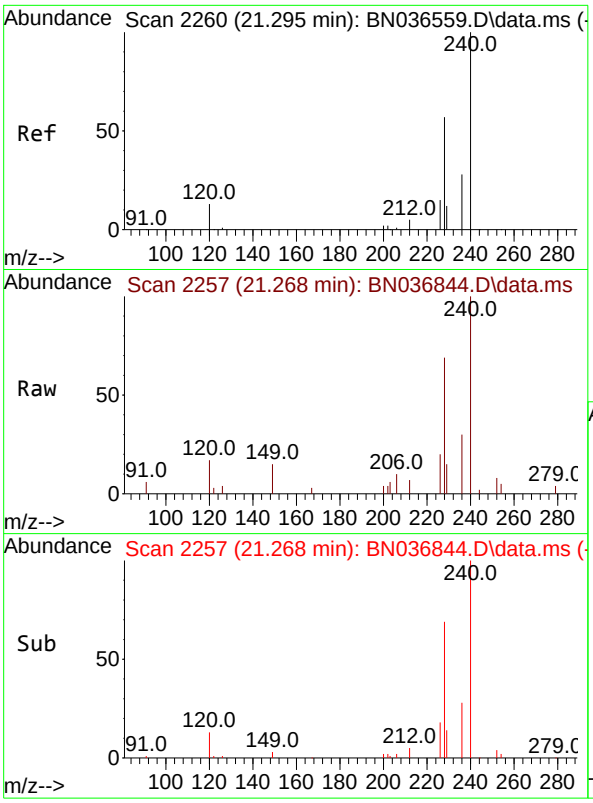


#28
Fluoranthene
Concen: 0.432 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.004 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:202 Resp: 7791

Ion	Ratio	Lower	Upper
202	100		
101	10.9	9.4	14.0
203	17.3	13.5	20.3

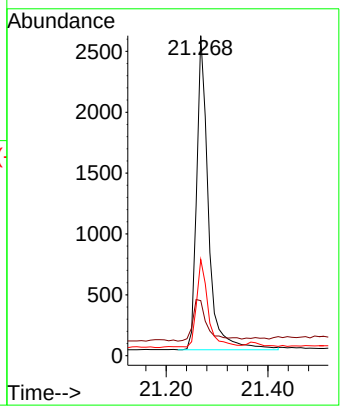




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:240 Resp: 412

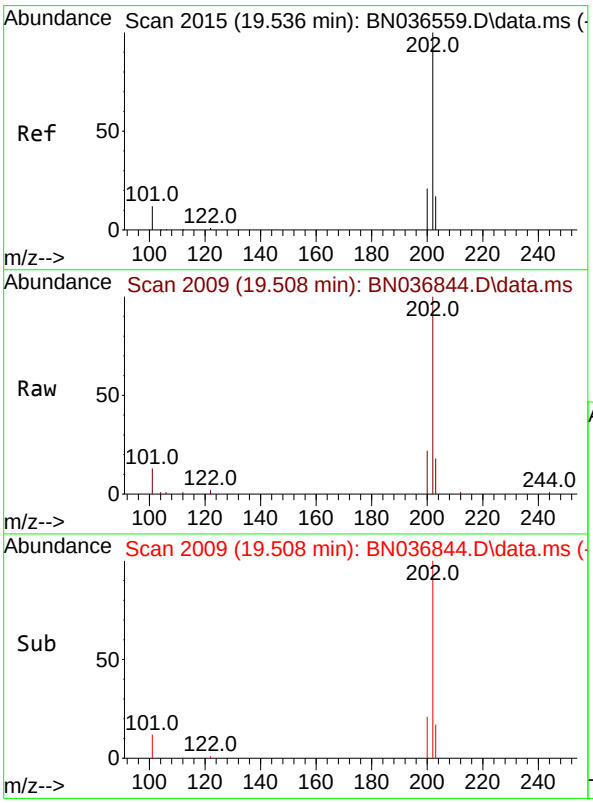
Ion	Ratio	Lower	Upper
240	100		
120	17.2	14.6	22.0
236	30.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

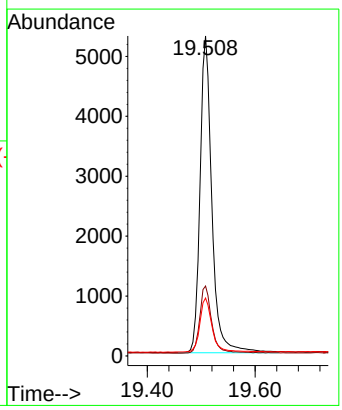
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

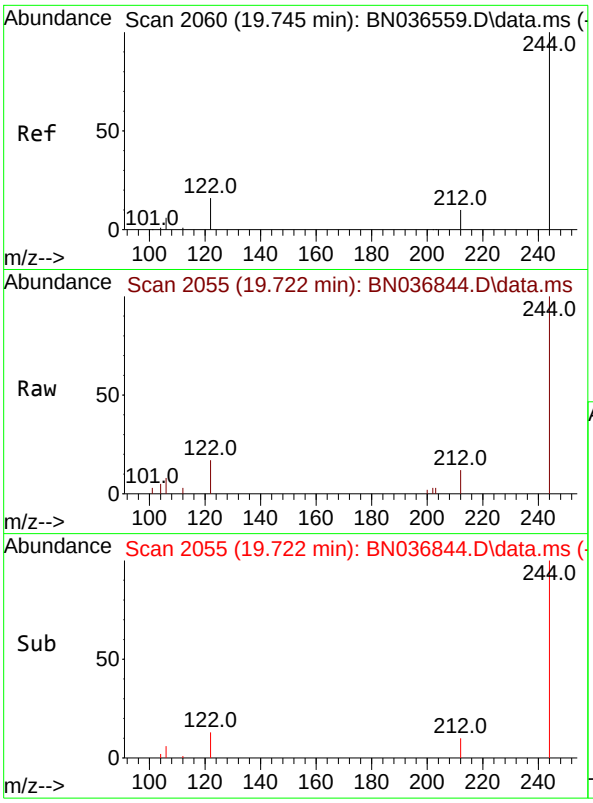


#30
Pyrene
Concen: 0.399 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:202 Resp: 8053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.7	14.1	21.1

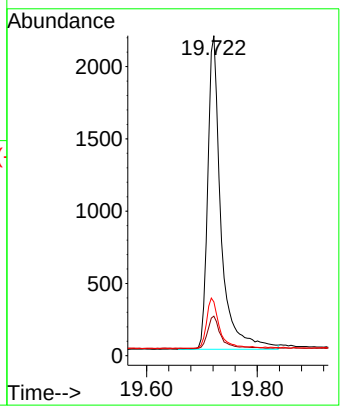




#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.722 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:244 Resp: 360

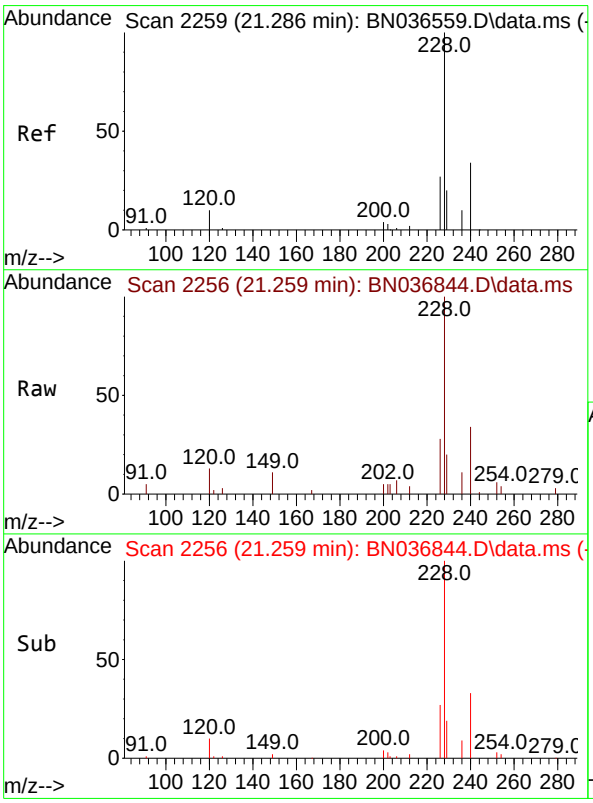
Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.6	14.4
122	16.8	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

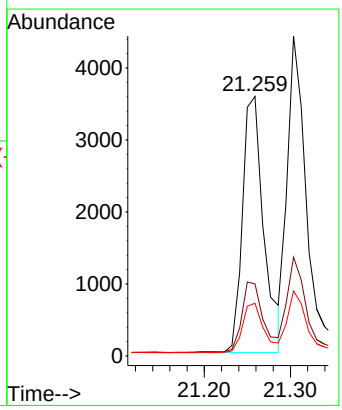
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

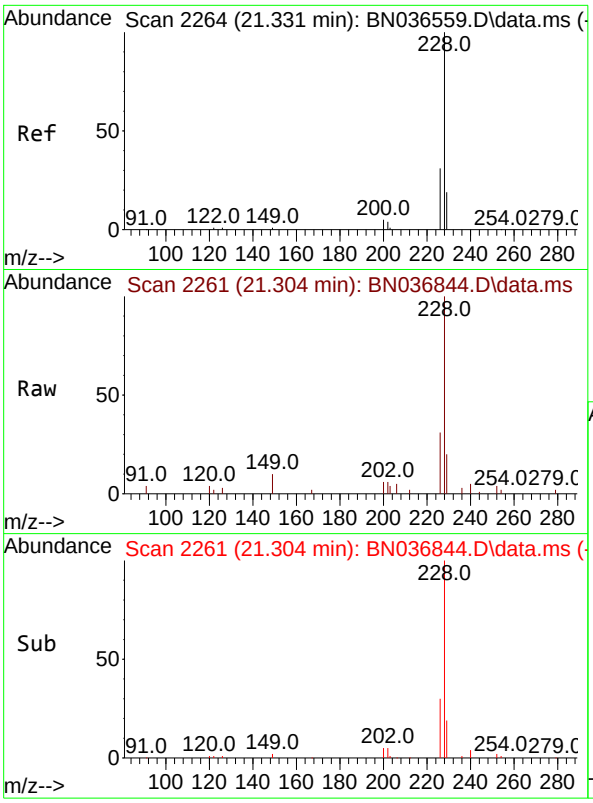


#32
Benzo(a)anthracene
Concen: 0.426 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:228 Resp: 6120

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.5	33.7
229	20.3	16.6	25.0

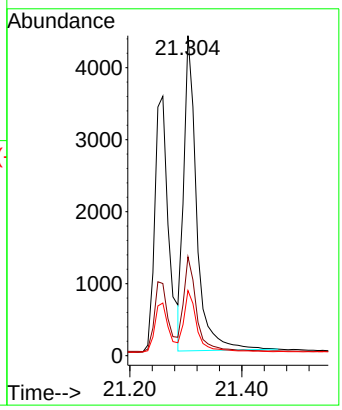




#33
Chrysene
Concen: 0.446 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:228 Resp: 700

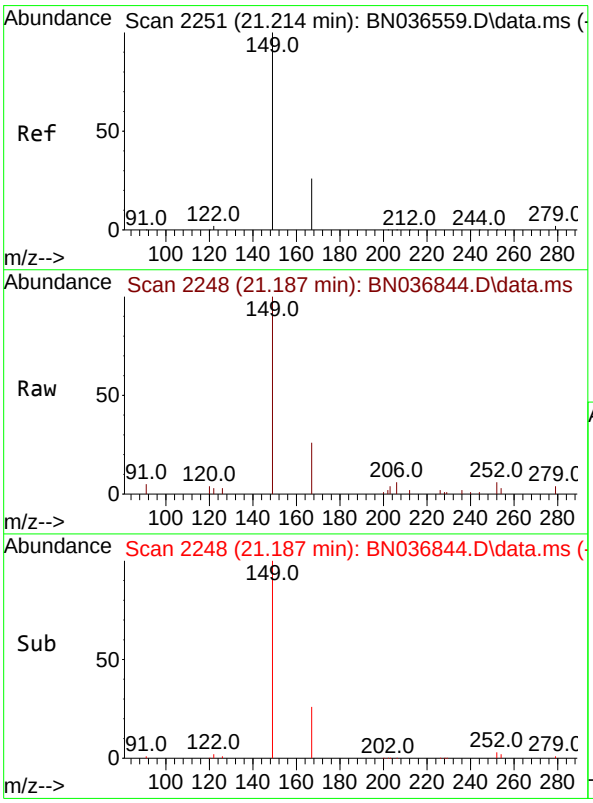
Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.3	37.9
229	20.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
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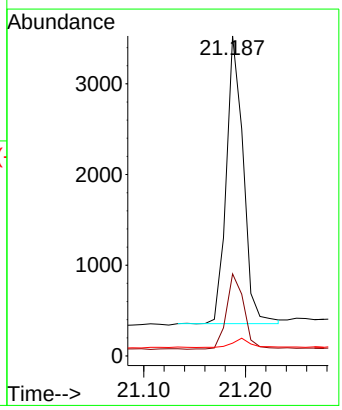
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

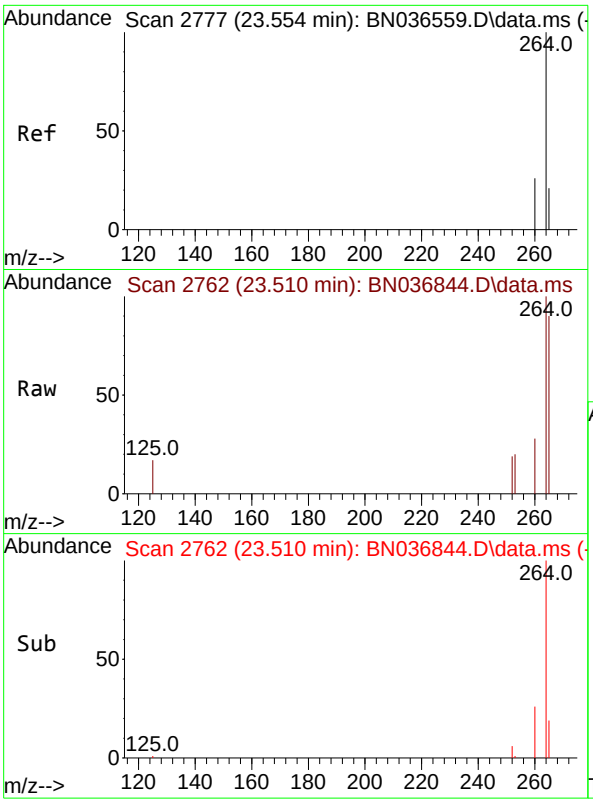


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.359 ng
RT: 21.187 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:149 Resp: 3668

Ion	Ratio	Lower	Upper
149	100		
167	27.6	20.7	31.1
279	3.5	3.6	5.4#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.510 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

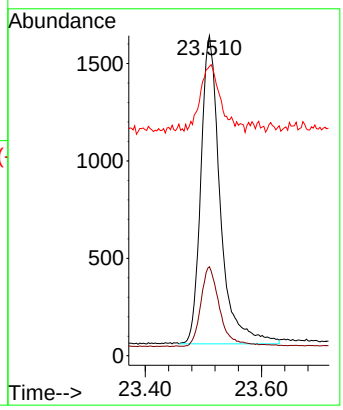
Instrument :
BNA_N
ClientSampleId :
PB167468BS

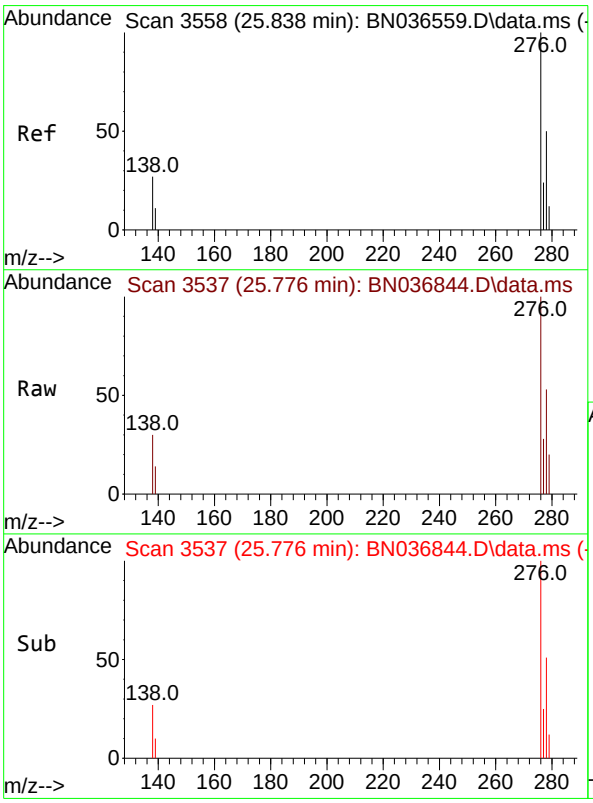
Tgt Ion:264 Resp: 366

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	90.4	88.1	132.1

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Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

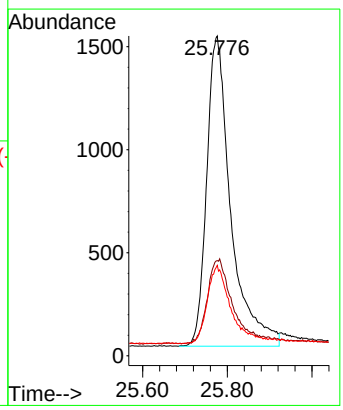


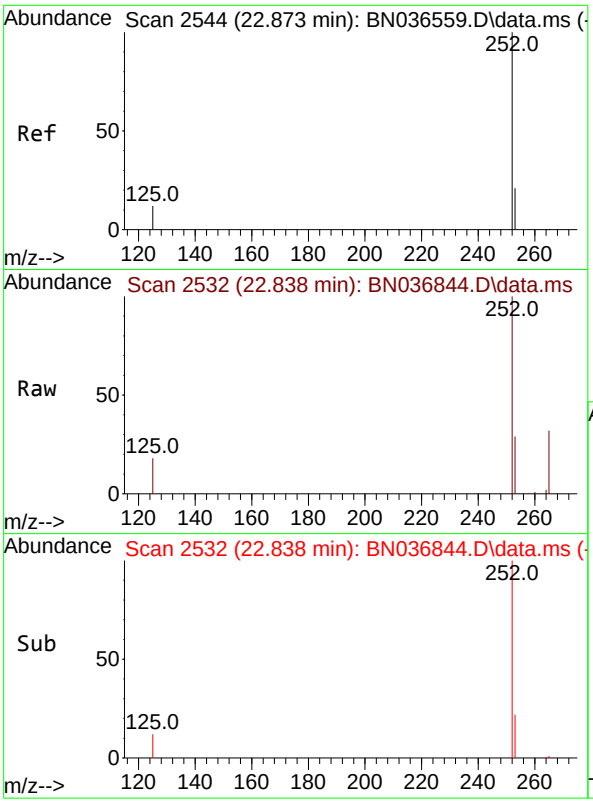


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.450 ng
RT: 25.776 min Scan# 3537
Delta R.T. 0.006 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:276 Resp: 5948

Ion	Ratio	Lower	Upper
276	100		
138	28.0	23.4	35.2
277	25.0	20.0	30.0

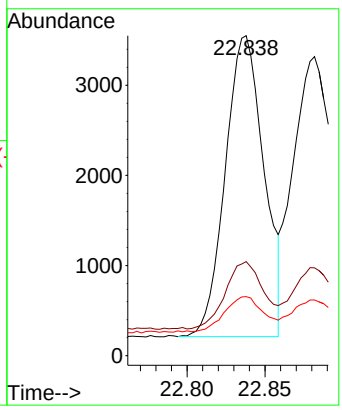




#37
Benzo(b)fluoranthene
Concen: 0.432 ng
RT: 22.838 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:252 Resp: 576

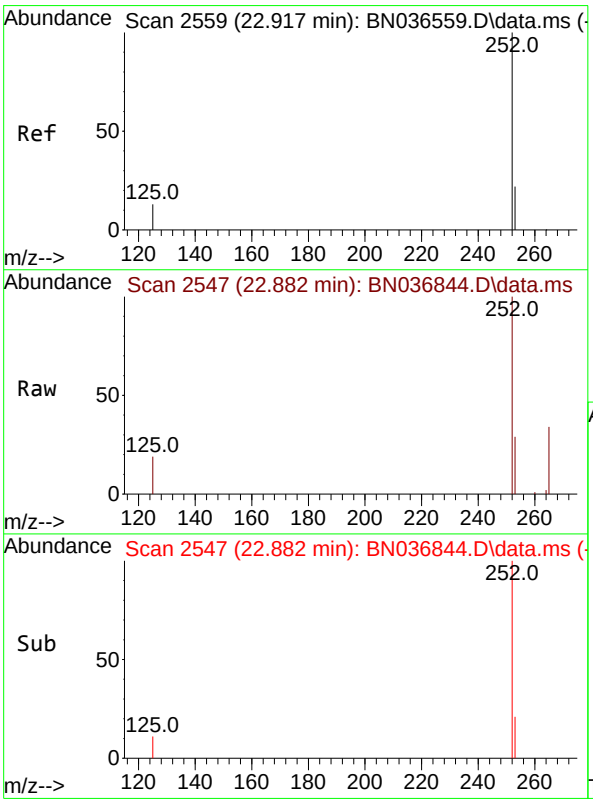
Ion	Ratio	Lower	Upper
252	100		
253	29.4	23.9	35.9
125	18.4	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
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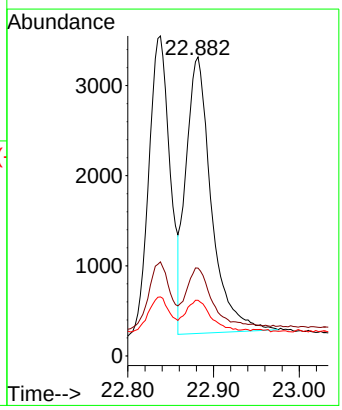
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

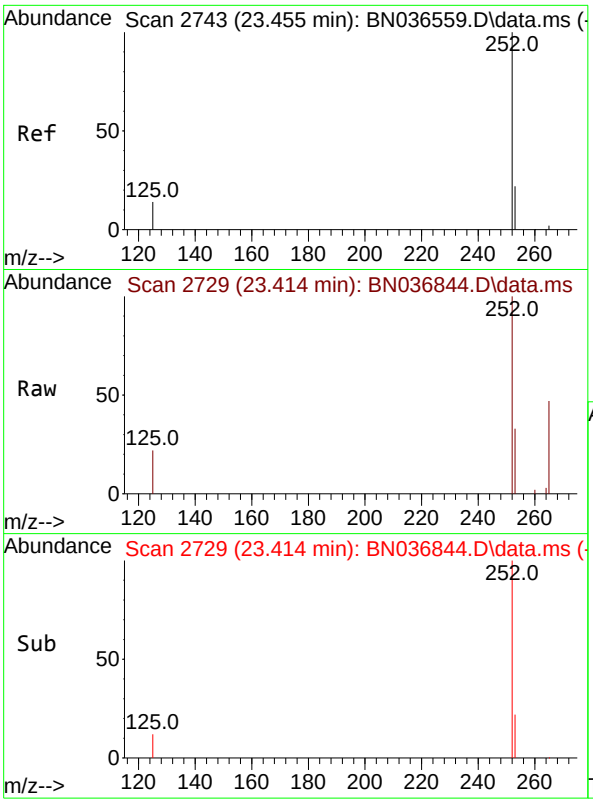


#38
Benzo(k)fluoranthene
Concen: 0.453 ng
RT: 22.882 min Scan# 2547
Delta R.T. 0.003 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:252 Resp: 6336

Ion	Ratio	Lower	Upper
252	100		
253	29.4	24.6	36.8
125	18.6	17.8	26.8

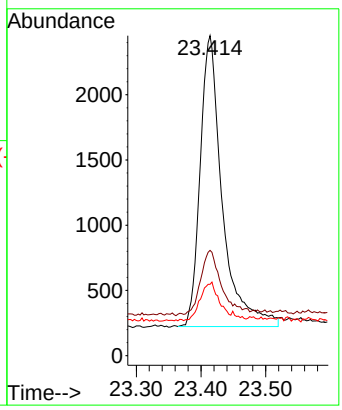




#39
Benzo(a)pyrene
Concen: 0.472 ng
RT: 23.414 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:252 Resp: 529

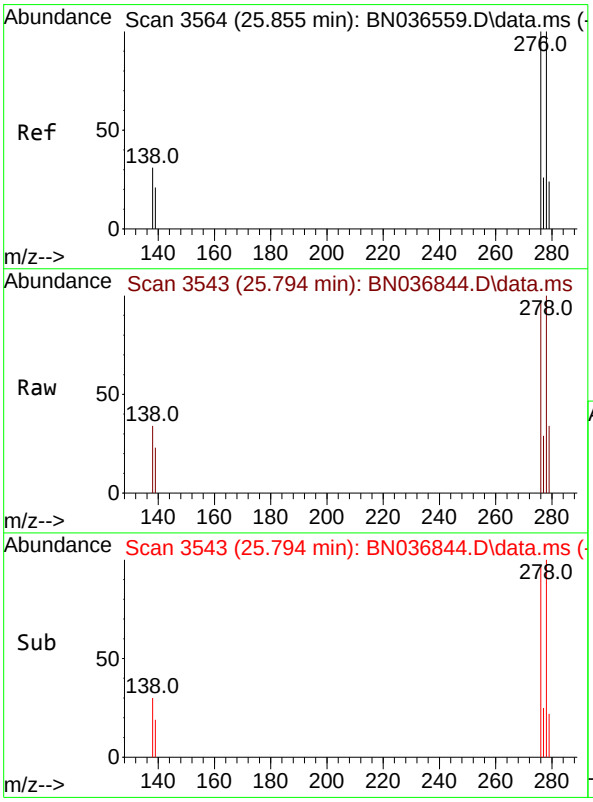
Ion	Ratio	Lower	Upper
252	100		
253	32.9	27.8	41.8
125	22.3	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations APPROVED

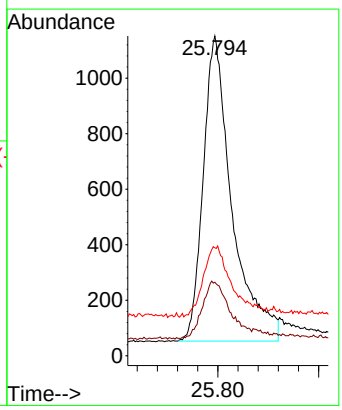
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

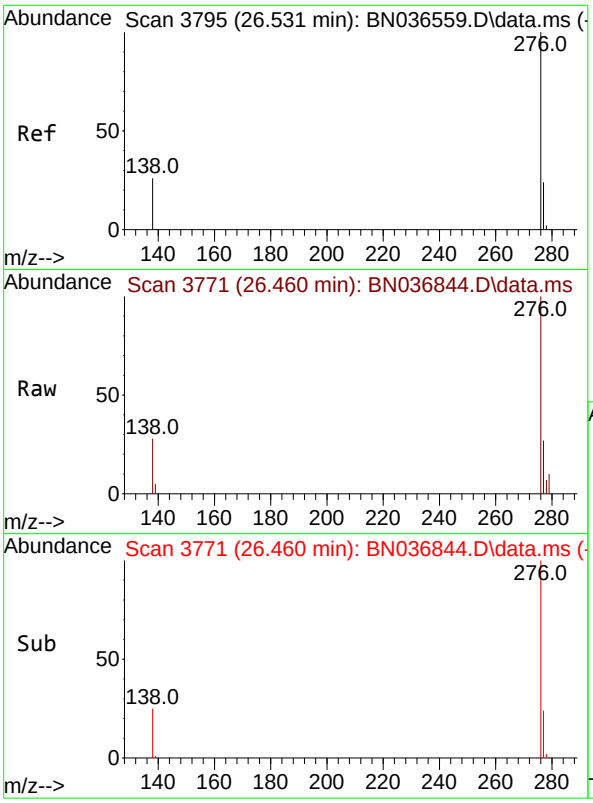


#40
Dibenzo(a,h)anthracene
Concen: 0.424 ng
RT: 25.794 min Scan# 3543
Delta R.T. 0.003 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:278 Resp: 4360

Ion	Ratio	Lower	Upper
278	100		
139	23.0	20.8	31.2
279	33.8	28.8	43.2

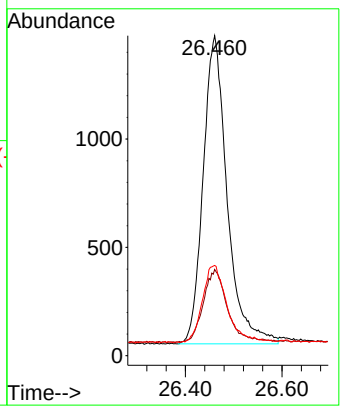




#41
Benzo(g,h,i)perylene
Concen: 0.418 ng
RT: 26.460 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036844.D
Acq: 04 Apr 2025 20:22

Tgt Ion:276 Resp: 491

Ion	Ratio	Lower	Upper
276	100		
277	26.9	22.2	33.4
138	28.2	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167468BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	PB167468BSD	SDG No.:	Q1731
Lab Sample ID:	PB167468BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036845.D	1	04/04/25 11:35	04/04/25 20:58	PB167468

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.37		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.40		30 (20) - 150 (139)	99%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 (30) - 150 (150)	100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (27) - 130 (154)	87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		30 (25) - 130 (149)	92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		30 (54) - 130 (175)	90%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1820	7.695			
1146-65-2	Naphthalene-d8	4420	10.477			
15067-26-2	Acenaphthene-d10	2440	14.334			
1517-22-2	Phenanthrene-d10	5050	17.074			
1719-03-5	Chrysene-d12	4040	21.268			
1520-96-3	Perylene-d12	3560	23.51			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036845.D
Acq On : 04 Apr 2025 20:58
Operator : RC/JU
Sample : PB167468BSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 04 22:50:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1816	0.400	ng	0.00
7) Naphthalene-d8	10.477	136	4421	0.400	ng	0.00
13) Acenaphthene-d10	14.334	164	2443	0.400	ng	0.00
19) Phenanthrene-d10	17.074	188	5048	0.400	ng	# 0.00
29) Chrysene-d12	21.268	240	4039	0.400	ng	0.00
35) Perylene-d12	23.510	264	3561	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1831	0.433	ng	0.00
5) Phenol-d6	6.872	99	2103	0.402	ng	0.00
8) Nitrobenzene-d5	8.843	82	1673	0.348	ng	0.00
11) 2-Methylnaphthalene-d10	12.070	152	2601m	0.396	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	440	0.397	ng	0.00
15) 2-Fluorobiphenyl	12.958	172	5220	0.367	ng	0.00
27) Fluoranthene-d10	19.113	212	5176	0.400	ng	0.00
31) Terphenyl-d14	19.722	244	3479	0.360	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	749	0.372	ng	# 37
3) n-Nitrosodimethylamine	3.528	42	1743	0.428	ng	# 96
6) bis(2-Chloroethyl)ether	7.118	93	2131	0.394	ng	99
9) Naphthalene	10.530	128	5289	0.407	ng	99
10) Hexachlorobutadiene	10.818	225	1193	0.390	ng	# 100
12) 2-Methylnaphthalene	12.146	142	3319	0.401	ng	99
16) Acenaphthylene	14.045	152	5066	0.439	ng	99
17) Acenaphthene	14.398	154	3235	0.429	ng	99
18) Fluorene	15.382	166	4271	0.418	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	358	0.423	ng	87
21) 4-Bromophenyl-phenylether	16.280	248	1246	0.394	ng	86
22) Hexachlorobenzene	16.391	284	1512	0.396	ng	98
23) Atrazine	16.553	200	1148	0.453	ng	97
24) Pentachlorophenol	16.739	266	1207	0.693	ng	98
25) Phenanthrene	17.124	178	6625	0.437	ng	100
26) Anthracene	17.210	178	6076	0.445	ng	99
28) Fluoranthene	19.146	202	7661	0.450	ng	99
30) Pyrene	19.508	202	7929	0.401	ng	99
32) Benzo(a)anthracene	21.250	228	6142	0.437	ng	98
33) Chrysene	21.304	228	6901	0.450	ng	100
34) Bis(2-ethylhexyl)phtha...	21.187	149	3543	0.354	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.770	276	6102	0.475	ng	98
37) Benzo(b)fluoranthene	22.835	252	5947	0.459	ng	95
38) Benzo(k)fluoranthene	22.879	252	6337	0.466	ng	94
39) Benzo(a)pyrene	23.414	252	5404	0.495	ng	# 92
40) Dibenzo(a,h)anthracene	25.791	278	4630	0.463	ng	95
41) Benzo(g,h,i)perylene	26.457	276	4986	0.436	ng	98

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

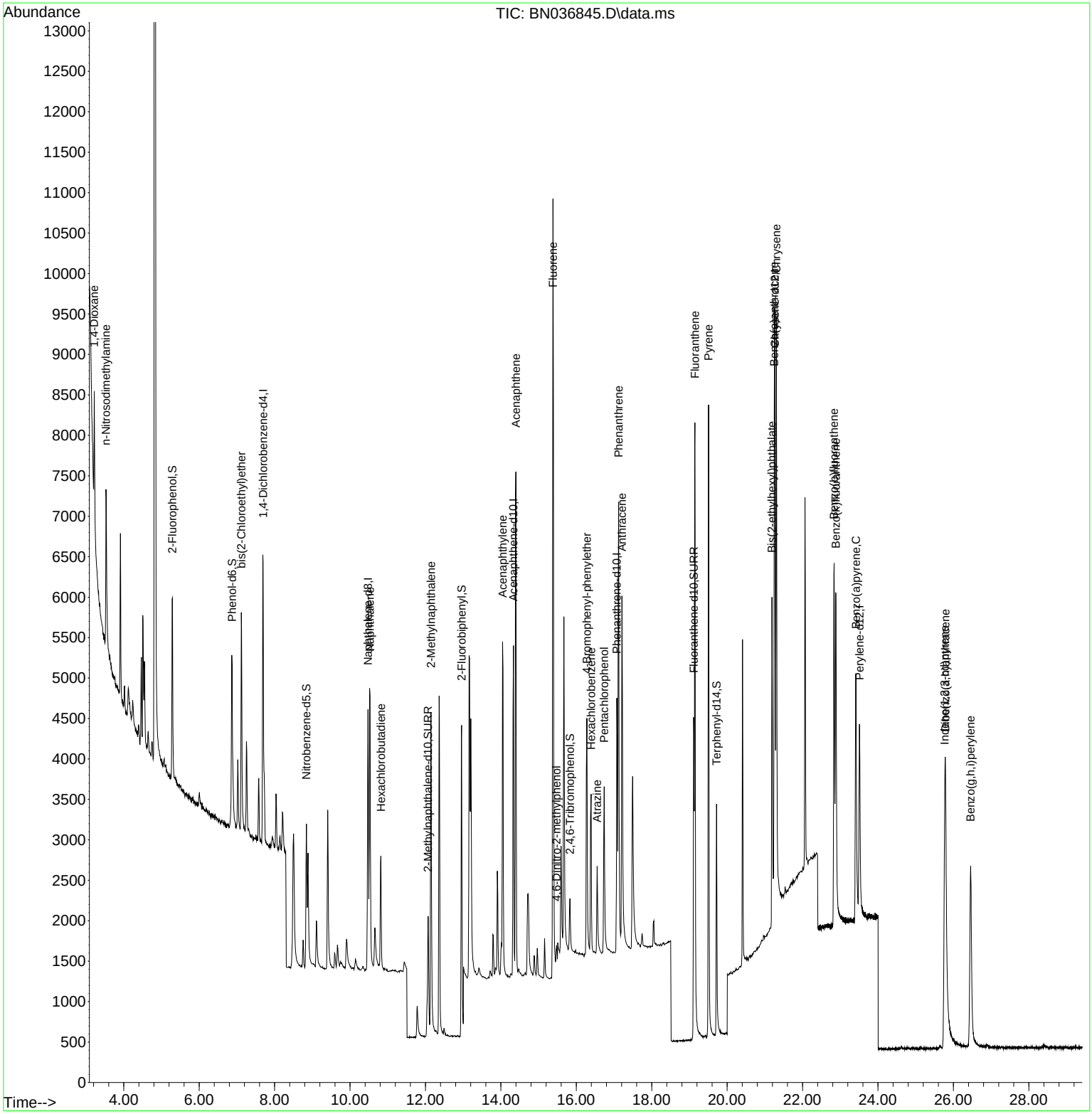
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040425\
Data File : BN036845.D
Acq On : 04 Apr 2025 20:58
Operator : RC/JU
Sample : PB167468BSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

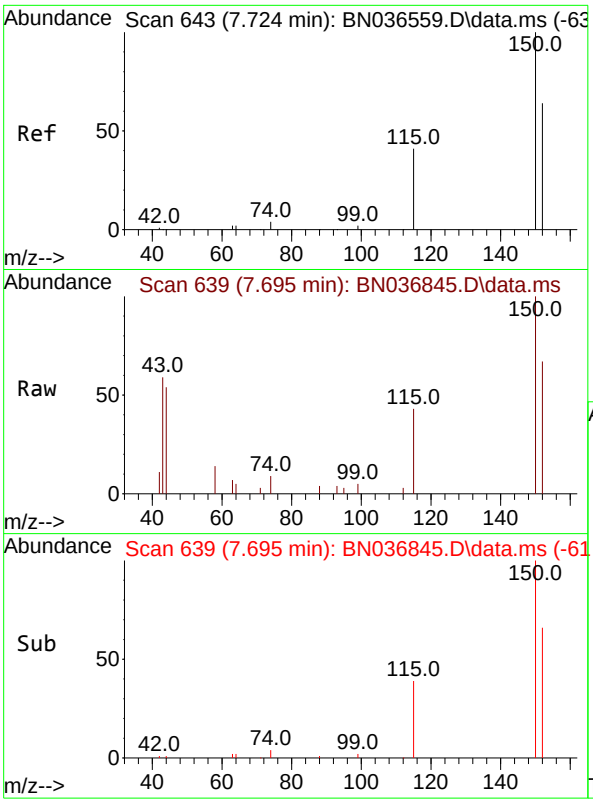
Quant Time: Apr 04 22:50:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 04 17:30:43 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

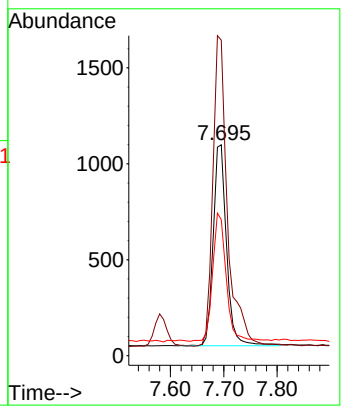




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:152 Resp: 181

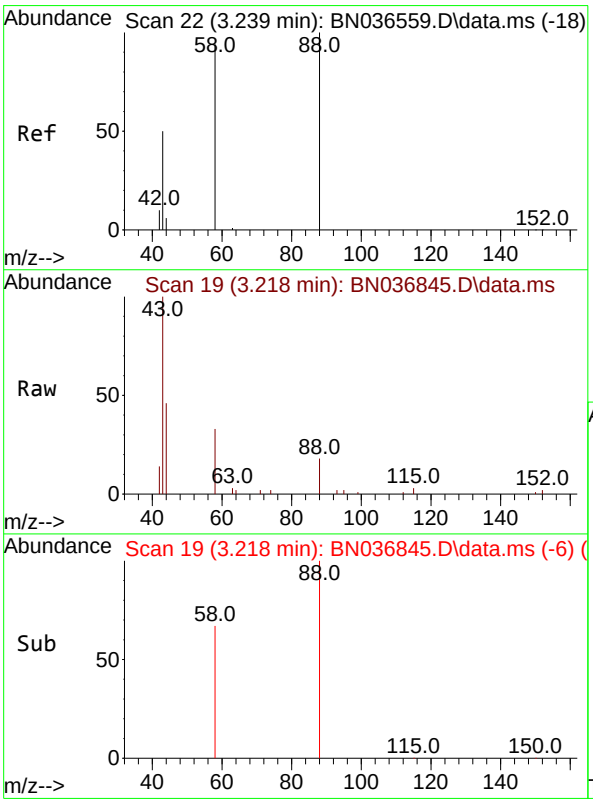
Ion	Ratio	Lower	Upper
152	100		
150	149.7	123.7	185.5
115	64.5	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

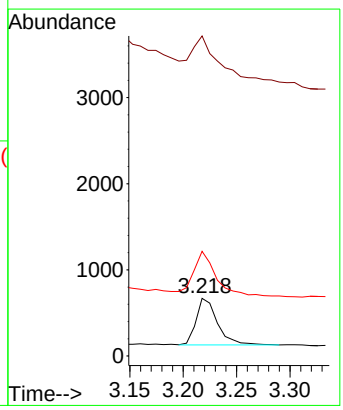
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

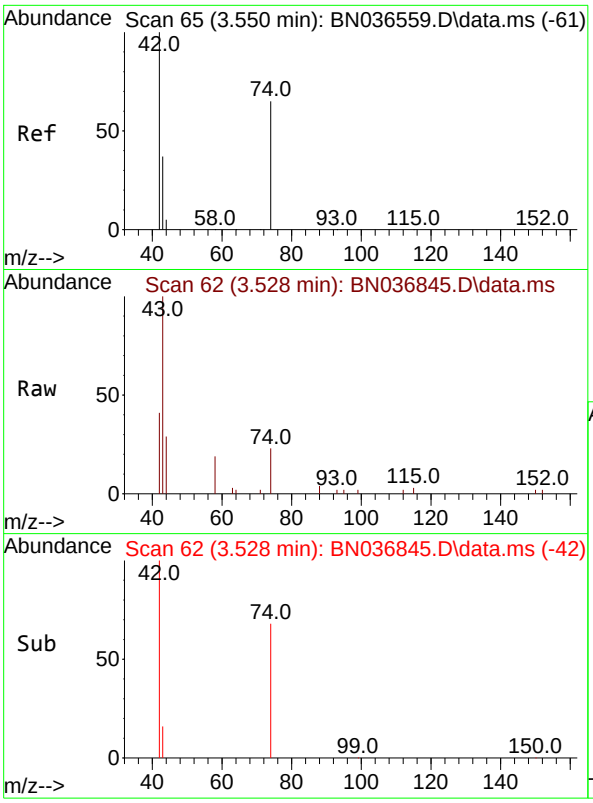


#2
1,4-Dioxane
Concen: 0.372 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.007 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion: 88 Resp: 749

Ion	Ratio	Lower	Upper
88	100		
43	138.7	37.8	56.8#
58	104.5	67.4	101.2#

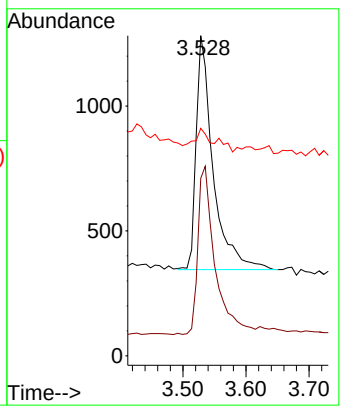




#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.528 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion: 42 Resp: 174

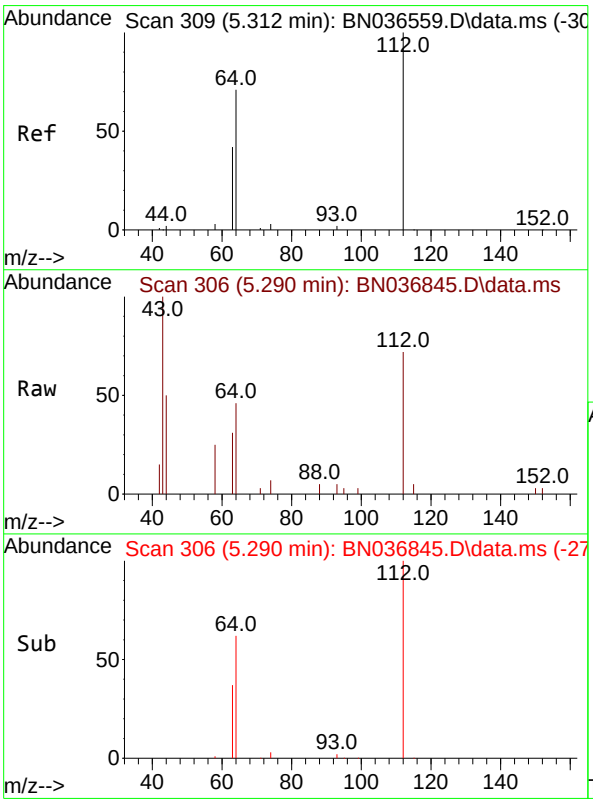
Ion	Ratio	Lower	Upper
42	100		
74	72.9	60.6	90.8
44	4.4	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
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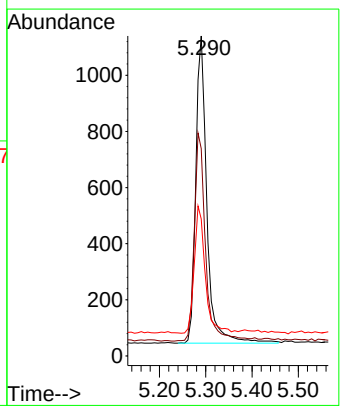
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

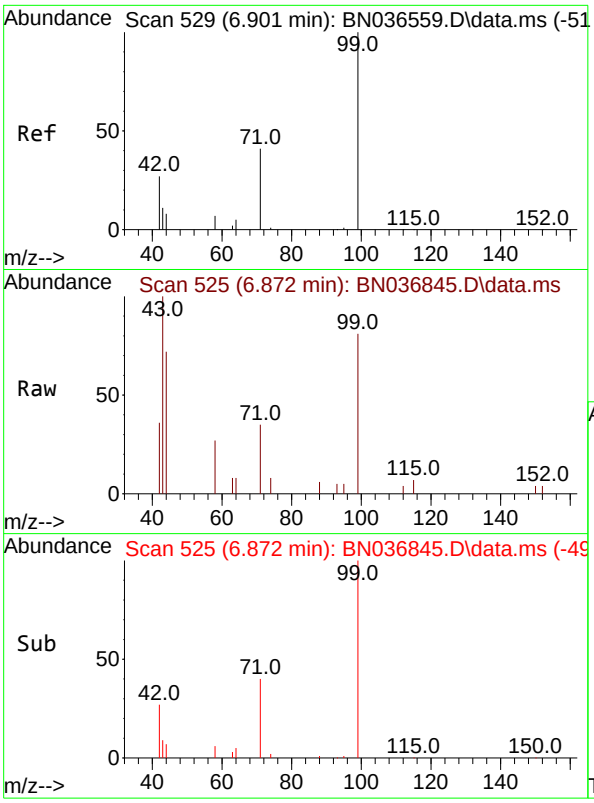


#4
2-Fluorophenol
Concen: 0.433 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.007 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:112 Resp: 1831

Ion	Ratio	Lower	Upper
112	100		
64	69.3	53.1	79.7
63	41.2	31.8	47.8

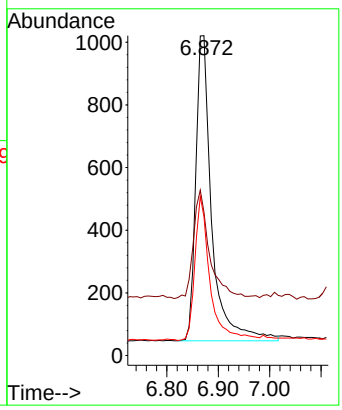




#5
Phenol-d6
Concen: 0.402 ng
RT: 6.872 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion: 99 Resp: 210

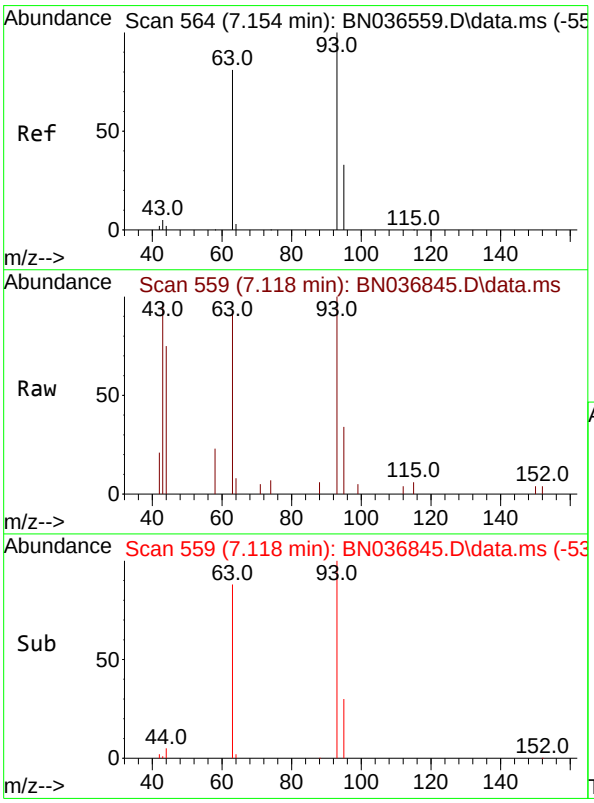
Ion	Ratio	Lower	Upper
99	100		
42	35.9	26.5	39.7
71	44.6	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
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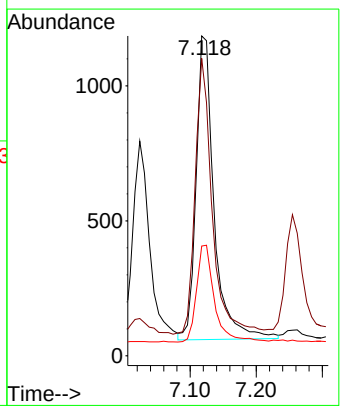
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

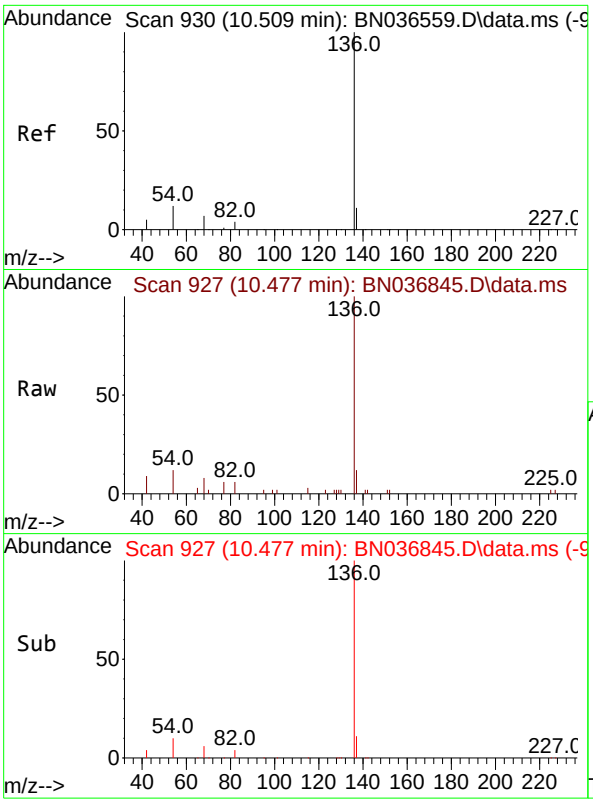


#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion: 93 Resp: 2131

Ion	Ratio	Lower	Upper
93	100		
63	86.3	67.7	101.5
95	31.9	25.6	38.4

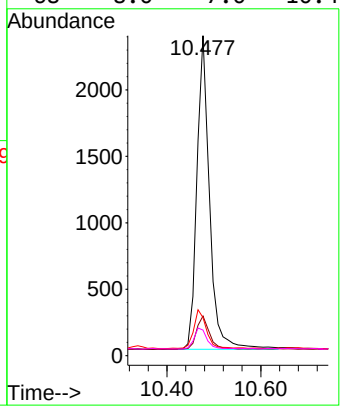




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:136 Resp: 442

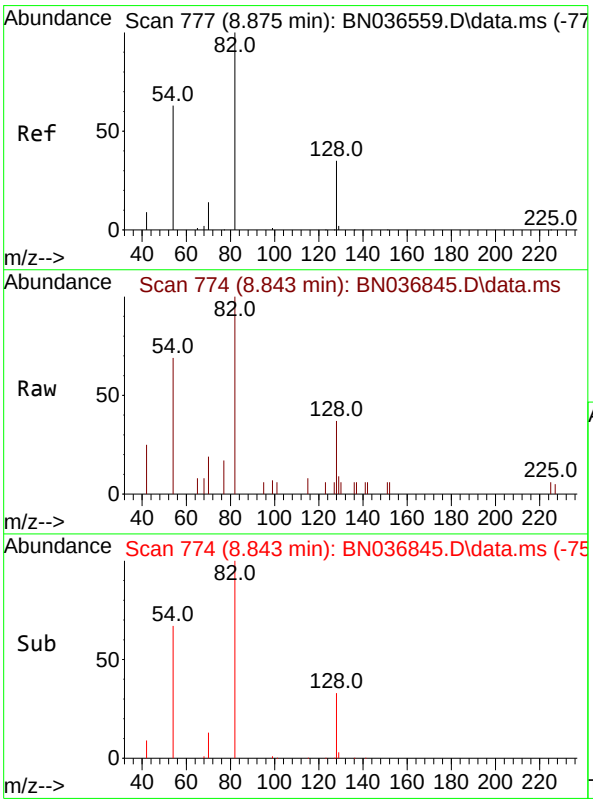
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.9	11.5	17.3
68	8.0	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
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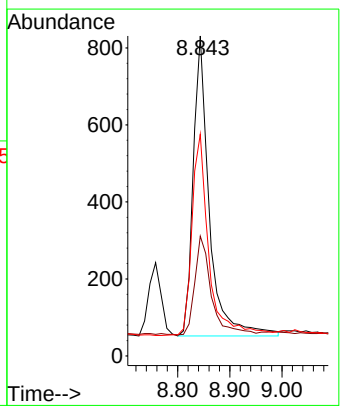
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

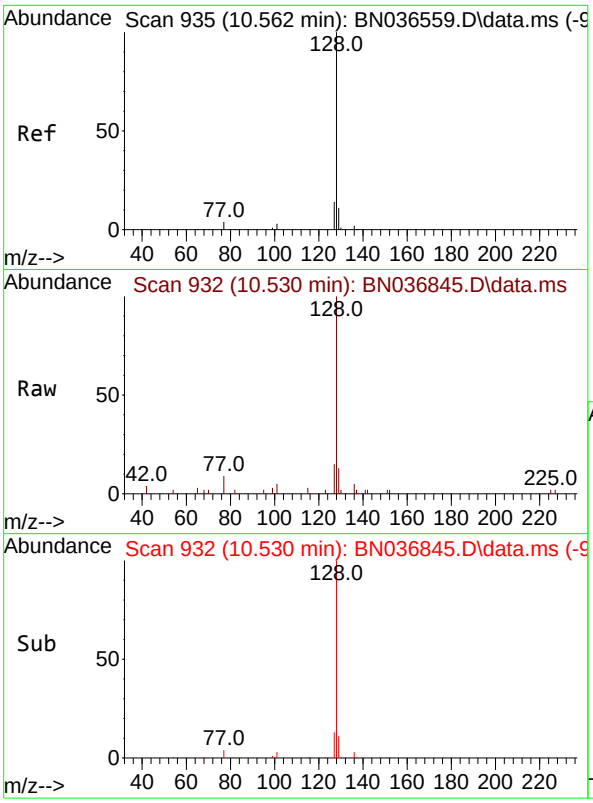


#8
Nitrobenzene-d5
Concen: 0.348 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion: 82 Resp: 1673

Ion	Ratio	Lower	Upper
82	100		
128	37.4	30.6	45.8
54	69.3	52.2	78.4

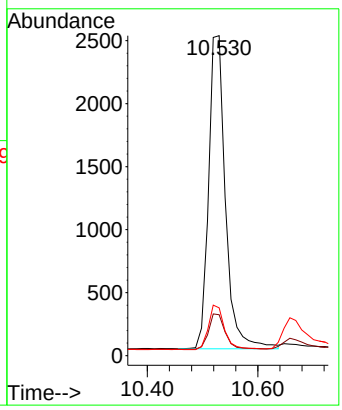




#9
Naphthalene
Concen: 0.407 ng
RT: 10.530 min Scan# 9
Delta R.T. 0.010 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:128 Resp: 528

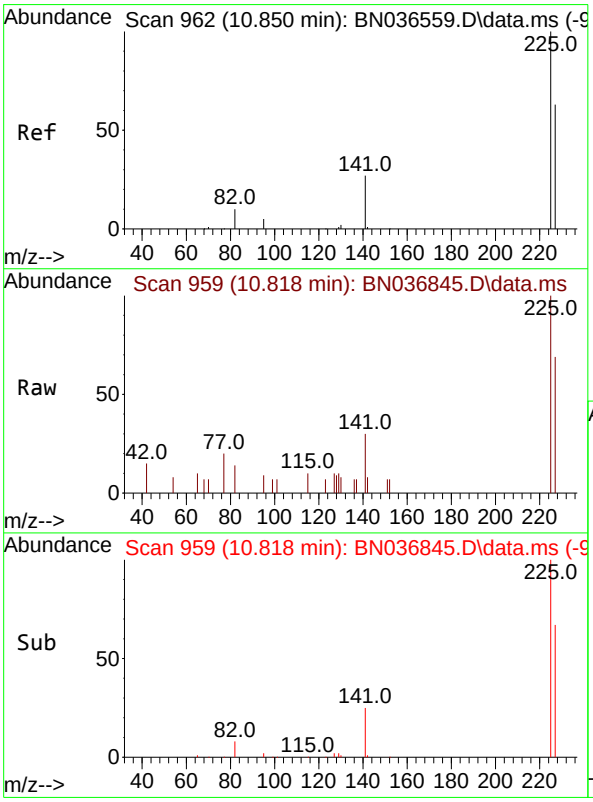
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

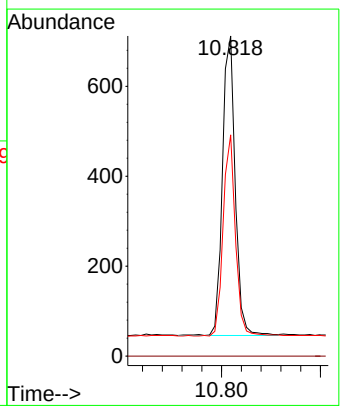
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

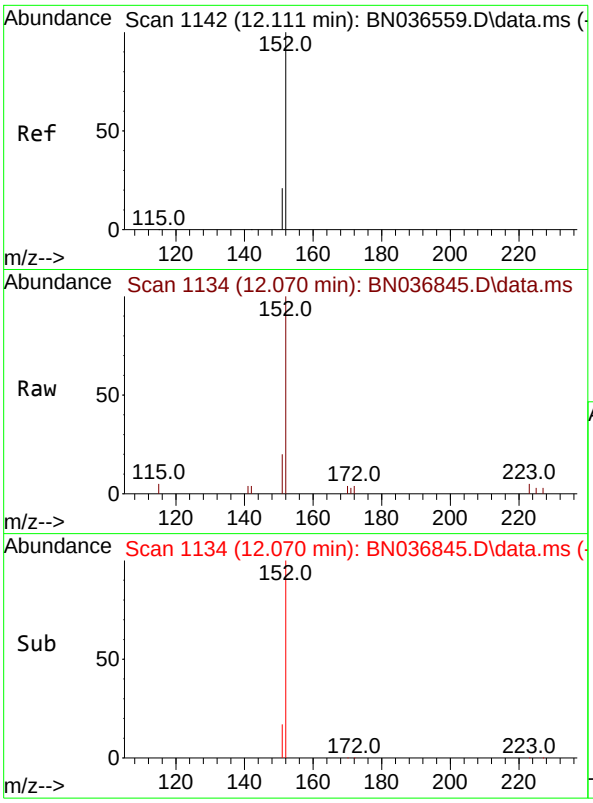


#10
Hexachlorobutadiene
Concen: 0.390 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:225 Resp: 1193

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	51.8	77.8

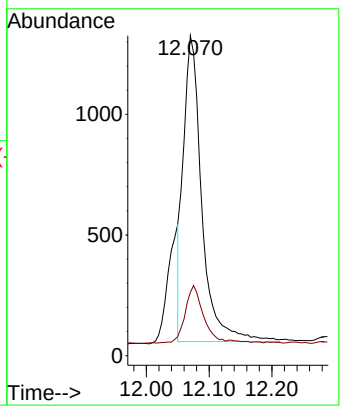




#11
2-Methylnaphthalene-d10
Concen: 0.396 ng m
RT: 12.070 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:152 Resp: 260

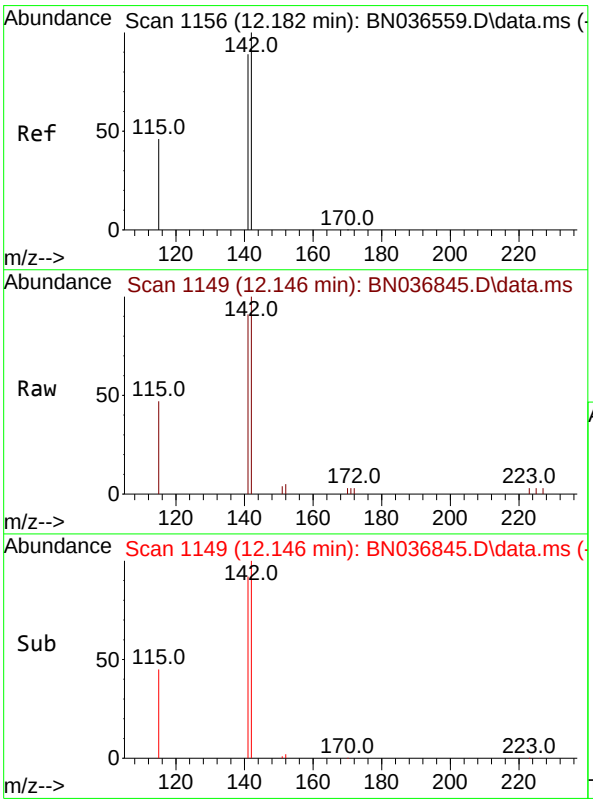
Ion	Ratio	Lower	Upper
152	100		
151	19.0	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

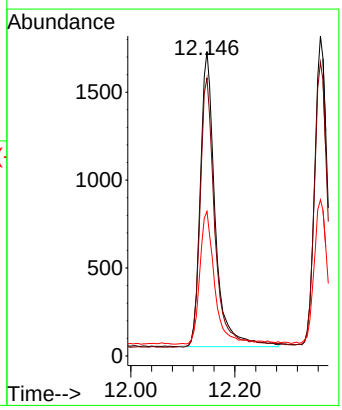
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

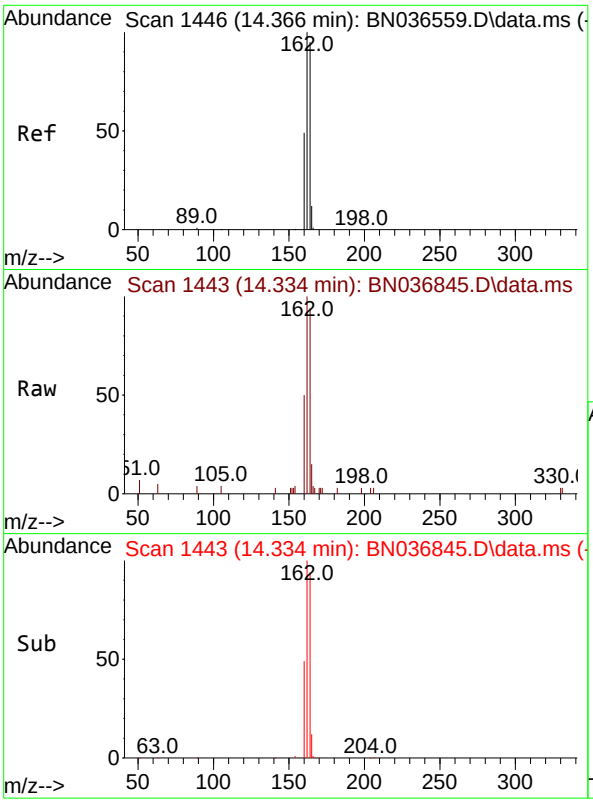


#12
2-Methylnaphthalene
Concen: 0.401 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:142 Resp: 3319

Ion	Ratio	Lower	Upper
142	100		
141	91.3	71.7	107.5
115	47.5	38.3	57.5

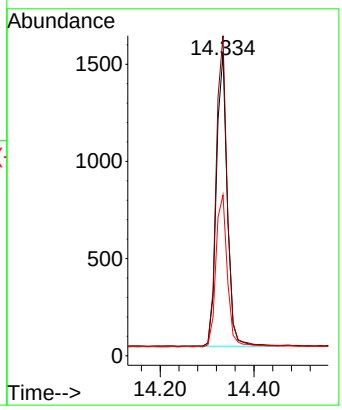




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:164 Resp: 244

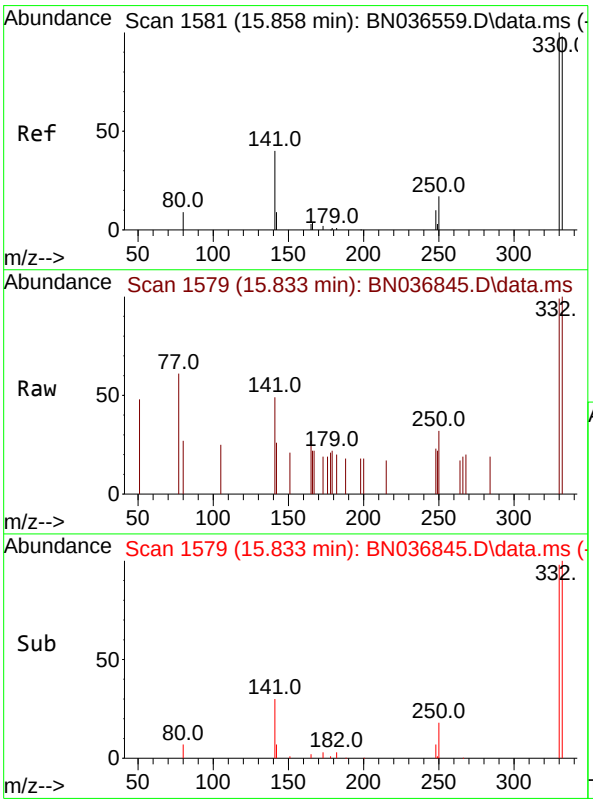
Ion	Ratio	Lower	Upper
164	100		
162	106.1	84.2	126.2
160	53.3	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
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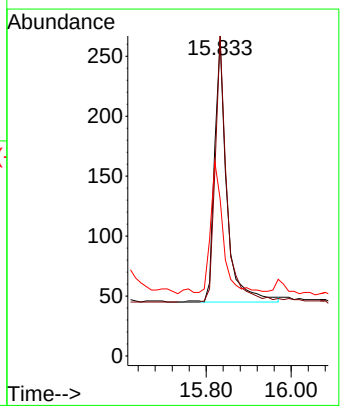
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

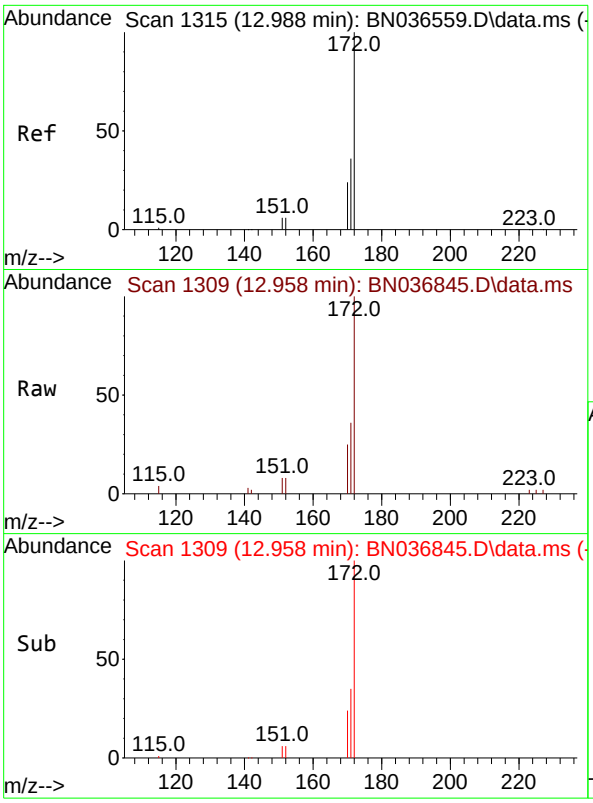


#14
2,4,6-Tribromophenol
Concen: 0.397 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:330 Resp: 440

Ion	Ratio	Lower	Upper
330	100		
332	95.2	75.2	112.8
141	49.1	43.4	65.2

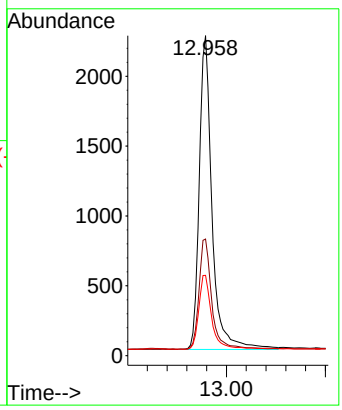




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:172 Resp: 522

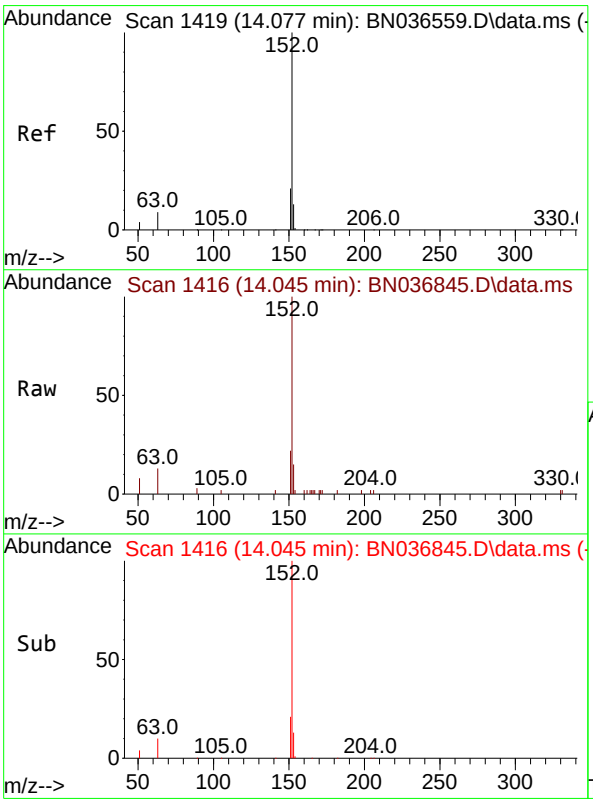
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.5	44.3
170	25.1	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

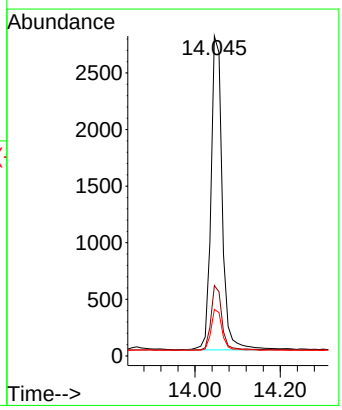
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

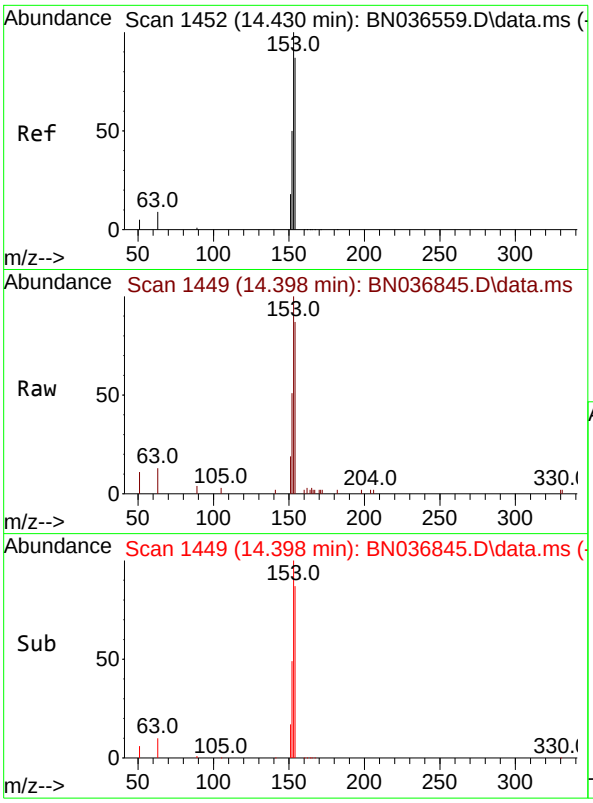


#16
Acenaphthylene
Concen: 0.439 ng
RT: 14.045 min Scan# 1416
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:152 Resp: 5066

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.4
153	13.1	10.6	15.8

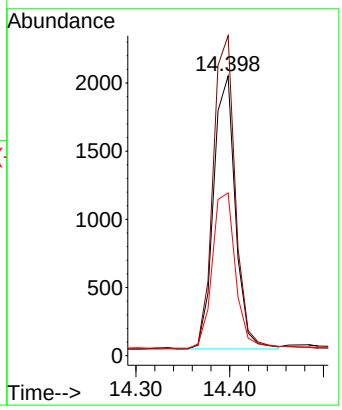




#17
Acenaphthene
Concen: 0.429 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:154 Resp: 323

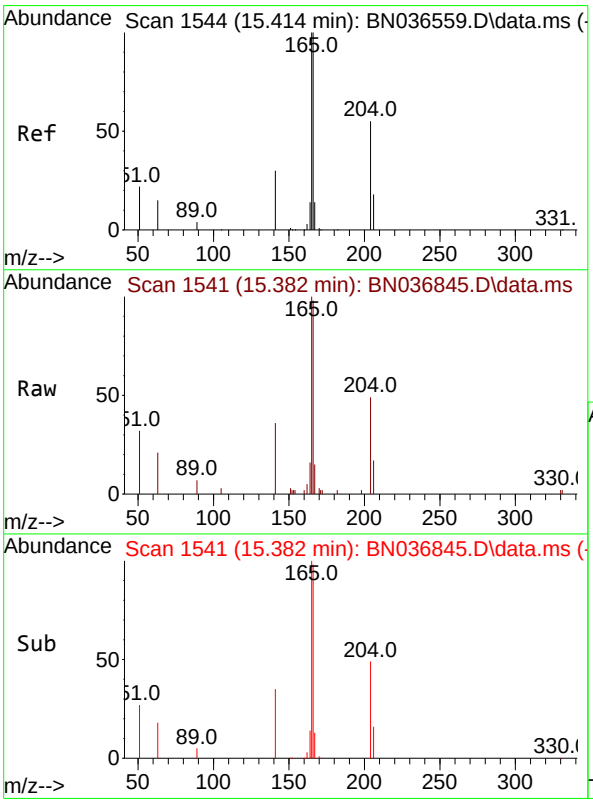
Ion	Ratio	Lower	Upper
154	100		
153	118.4	94.1	141.1
152	62.3	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
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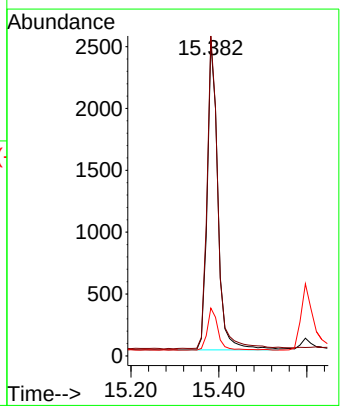
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

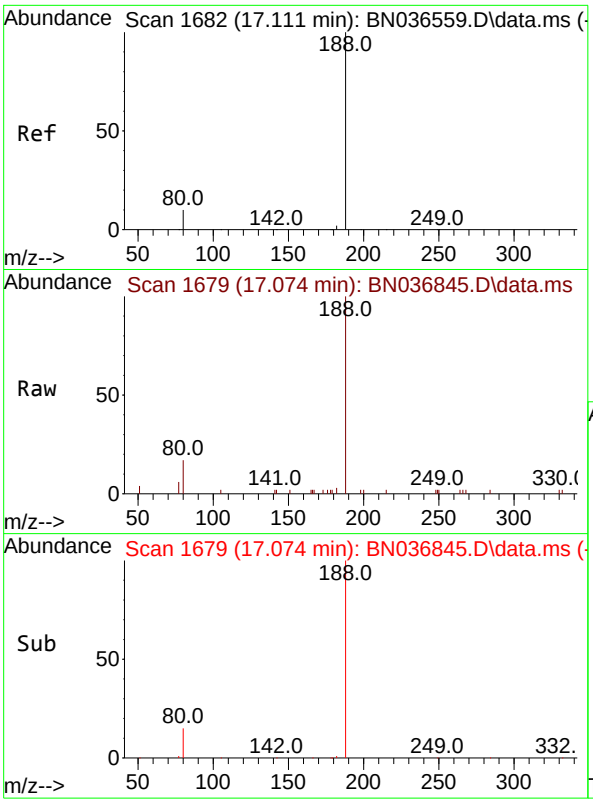


#18
Fluorene
Concen: 0.418 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:166 Resp: 4271

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	13.7	10.6	15.8

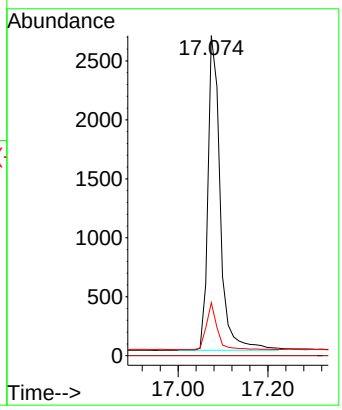




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.074 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:188 Resp: 504

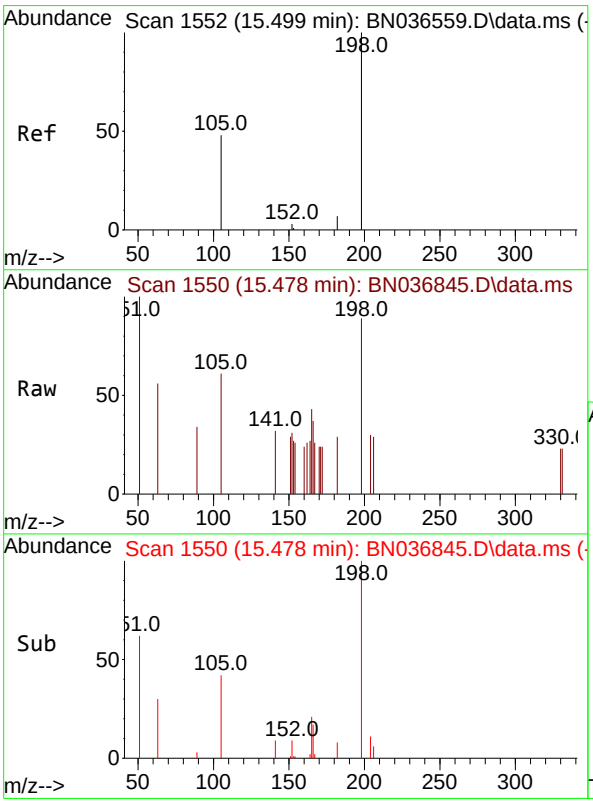
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.5	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
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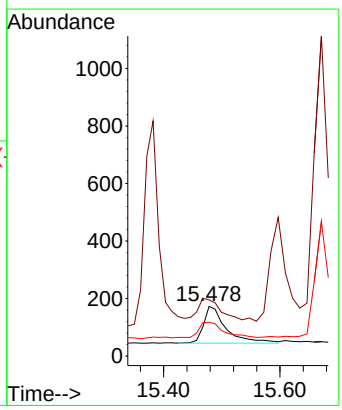
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

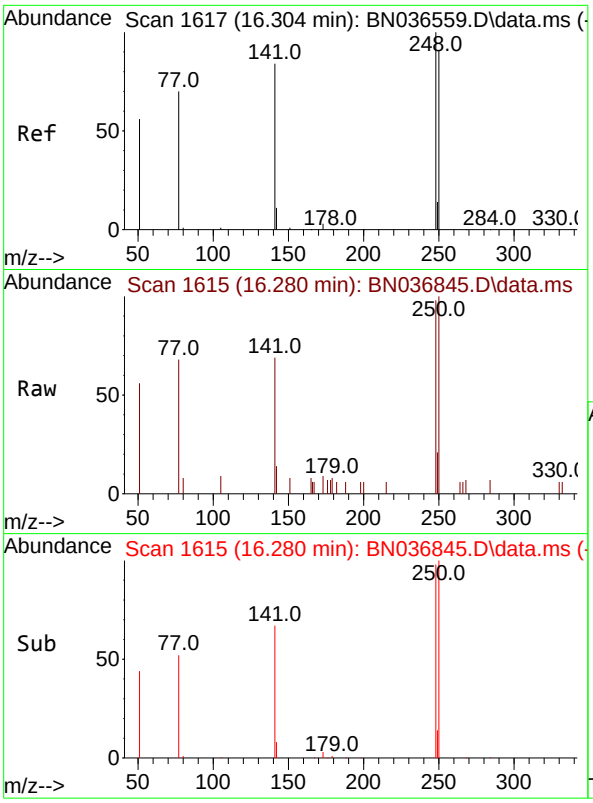


#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:198 Resp: 358

Ion	Ratio	Lower	Upper
198	100		
51	112.7	107.9	161.9
105	68.2	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.394 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

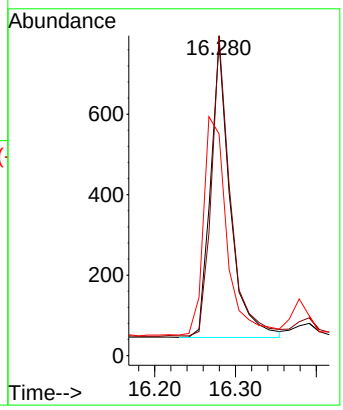
Tgt Ion:248 Resp: 124(

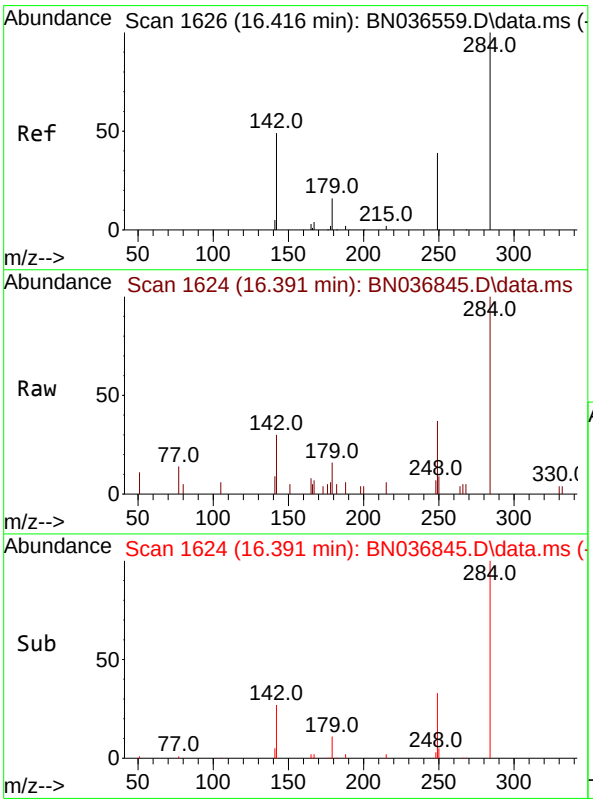
Ion	Ratio	Lower	Upper
248	100		
250	102.1	73.0	109.6
141	70.7	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

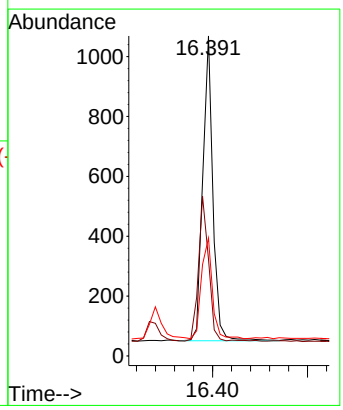


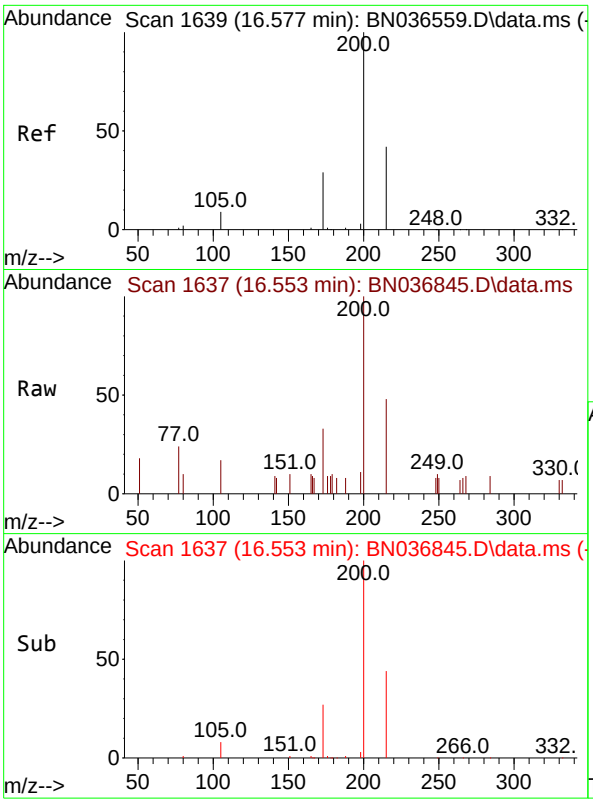


#22
Hexachlorobenzene
Concen: 0.396 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:284 Resp: 1512

Ion	Ratio	Lower	Upper
284	100		
142	47.8	37.0	55.4
249	35.6	28.1	42.1

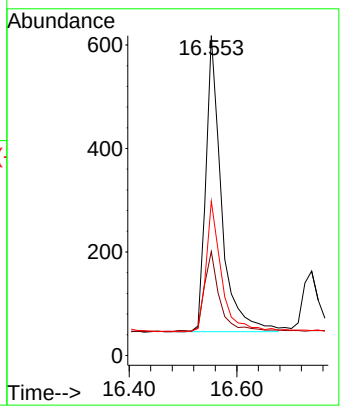




#23
Atrazine
Concen: 0.453 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:200 Resp: 114

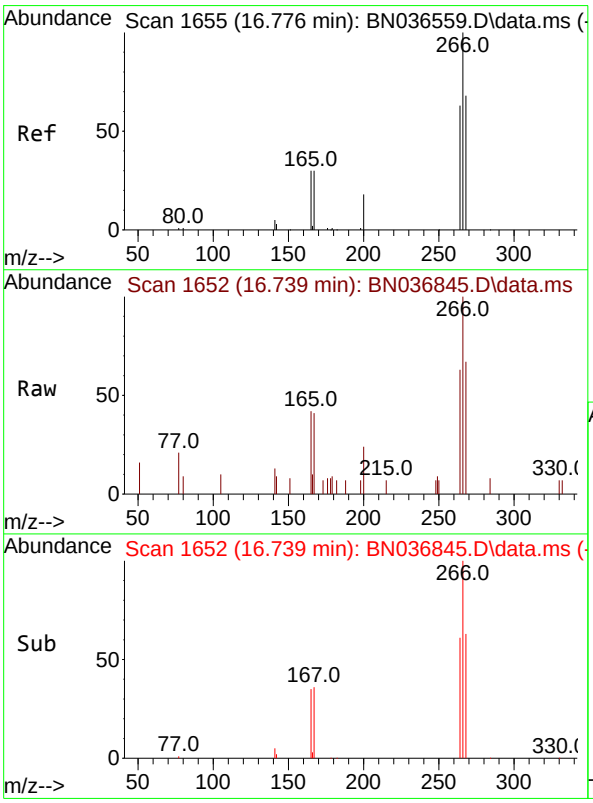
Ion	Ratio	Lower	Upper
200	100		
173	32.5	27.3	40.9
215	48.2	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
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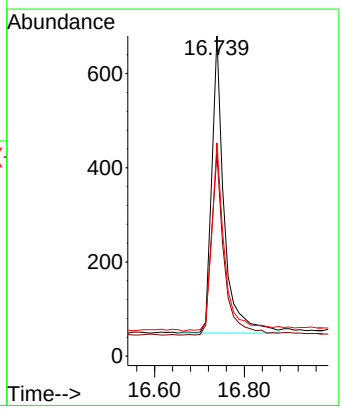
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

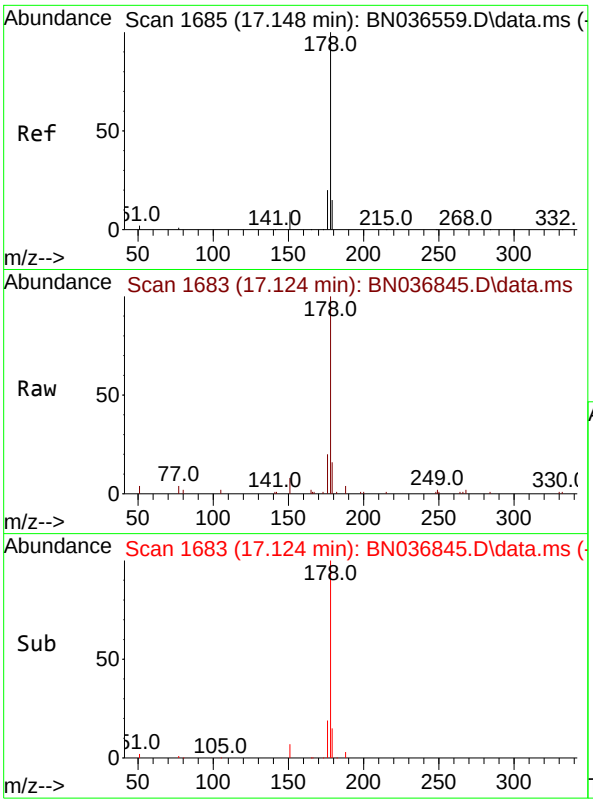


#24
Pentachlorophenol
Concen: 0.693 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:266 Resp: 1207

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.6	74.4
268	65.5	50.9	76.3

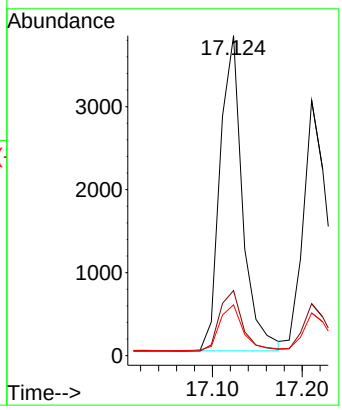




#25
Phenanthrene
Concen: 0.437 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:178 Resp: 662

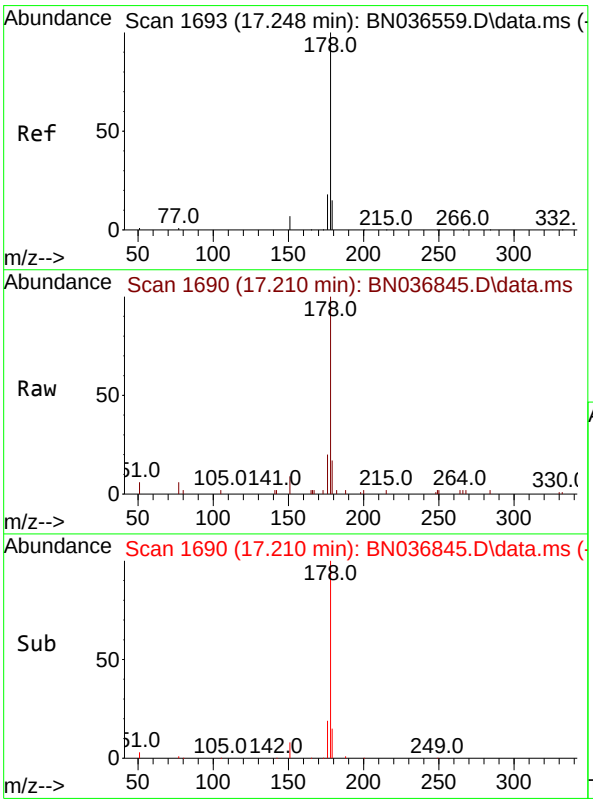
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.4	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

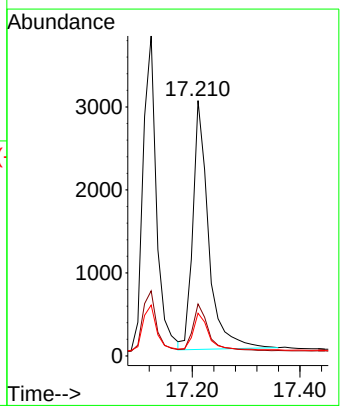
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

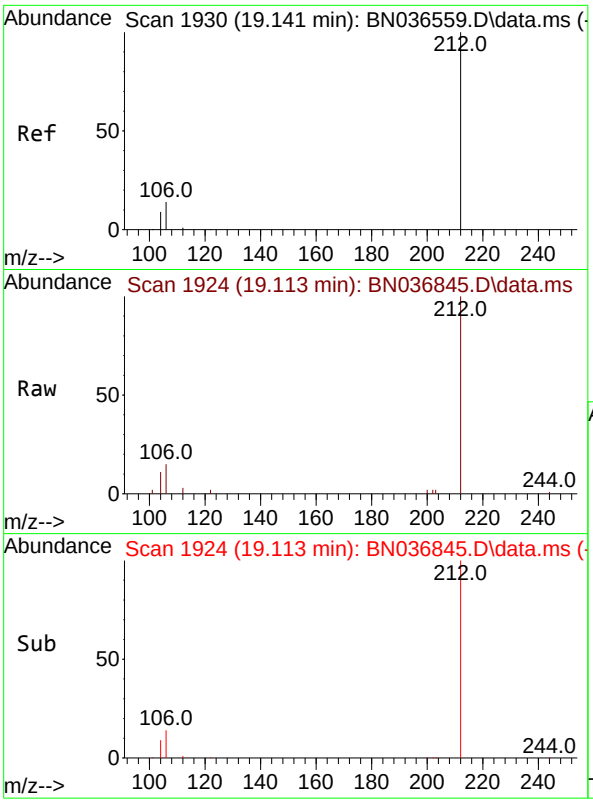


#26
Anthracene
Concen: 0.445 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:178 Resp: 6076

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.0	12.6	18.8

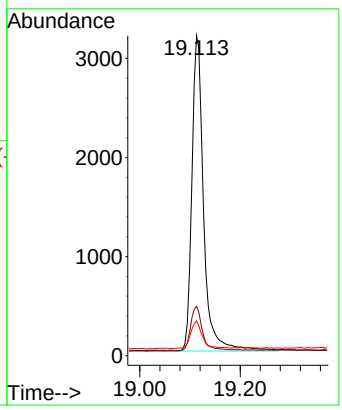




#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 19.113 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:212 Resp: 517

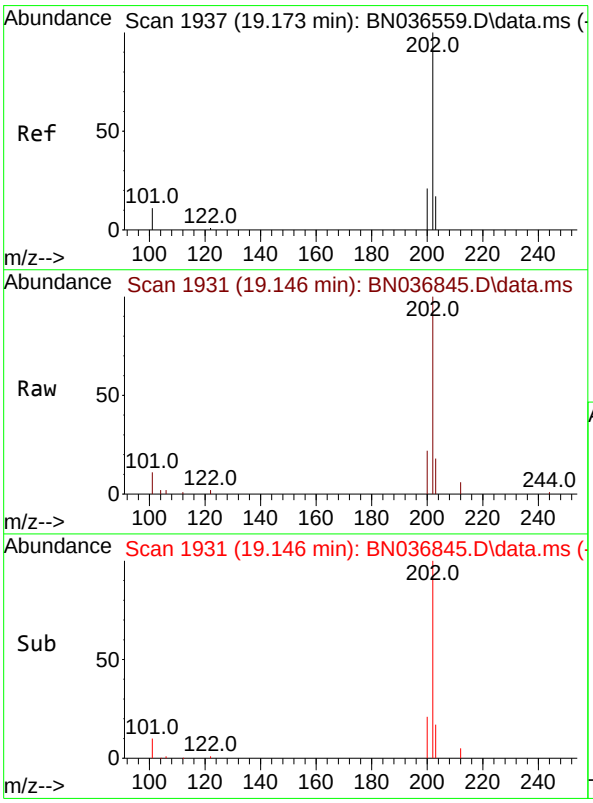
Ion	Ratio	Lower	Upper
212	100		
106	14.0	11.8	17.6
104	8.4	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

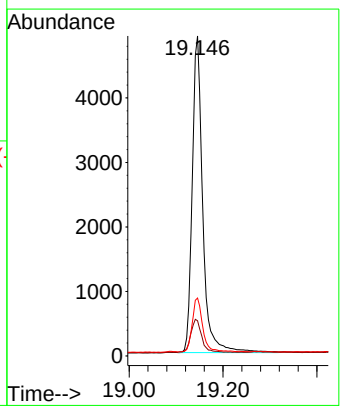
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

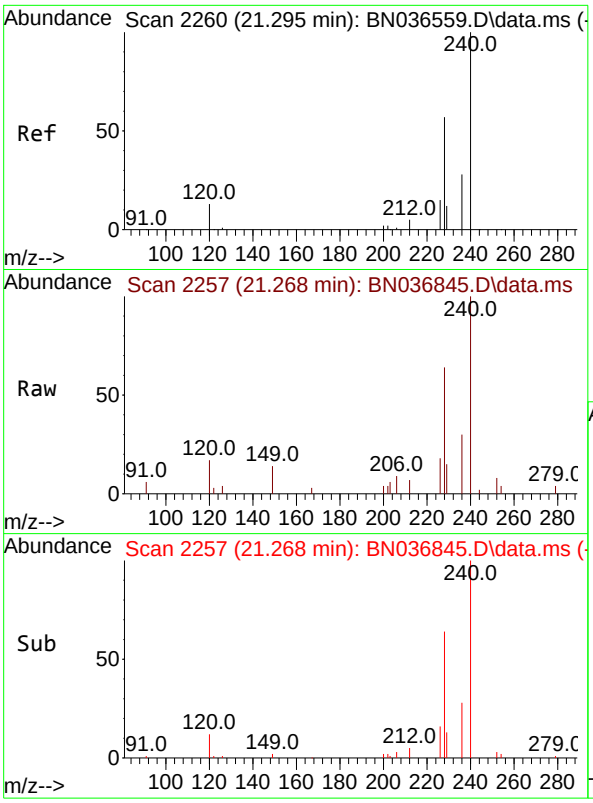


#28
Fluoranthene
Concen: 0.450 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.004 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:202 Resp: 7661

Ion	Ratio	Lower	Upper
202	100		
101	10.6	9.4	14.0
203	16.9	13.5	20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

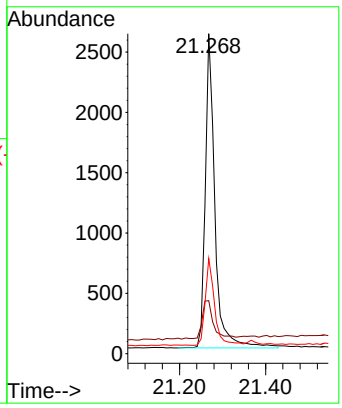
Instrument :
BNA_N
ClientSampleId :
PB167468BSD

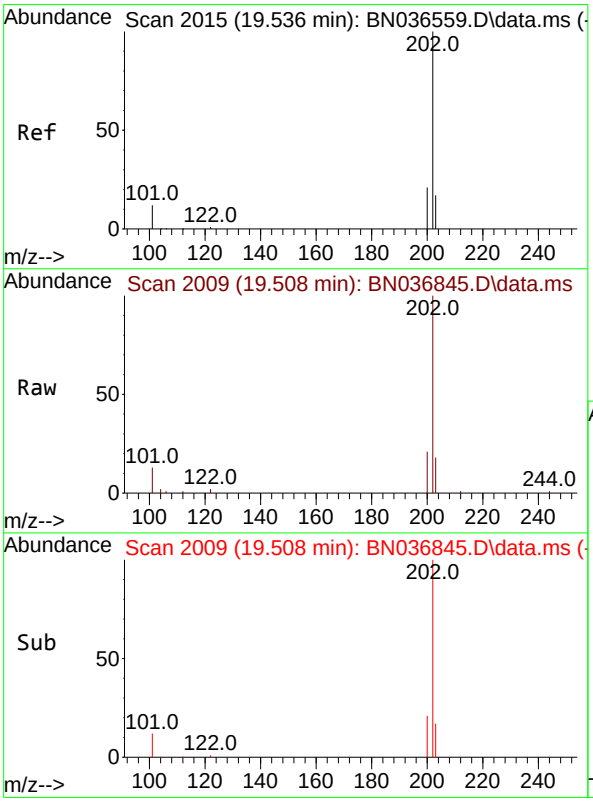
Tgt Ion:240 Resp: 403

Ion	Ratio	Lower	Upper
240	100		
120	16.5	14.6	22.0
236	29.7	24.1	36.1

Manual Integrations
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Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

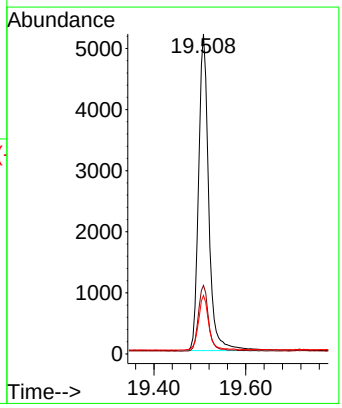


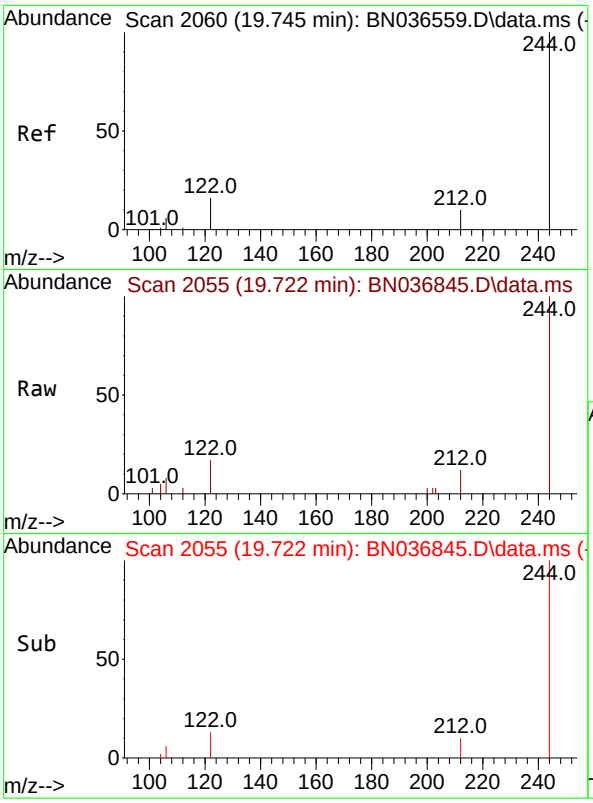


#30
Pyrene
Concen: 0.401 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:202 Resp: 7929

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.1	25.7
203	17.6	14.1	21.1

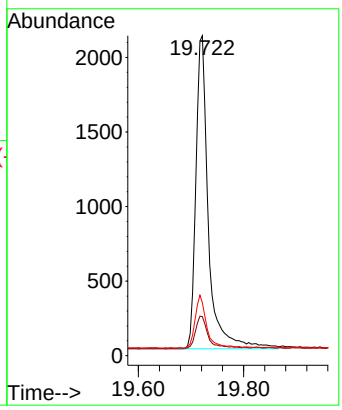




#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.722 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:244 Resp: 347

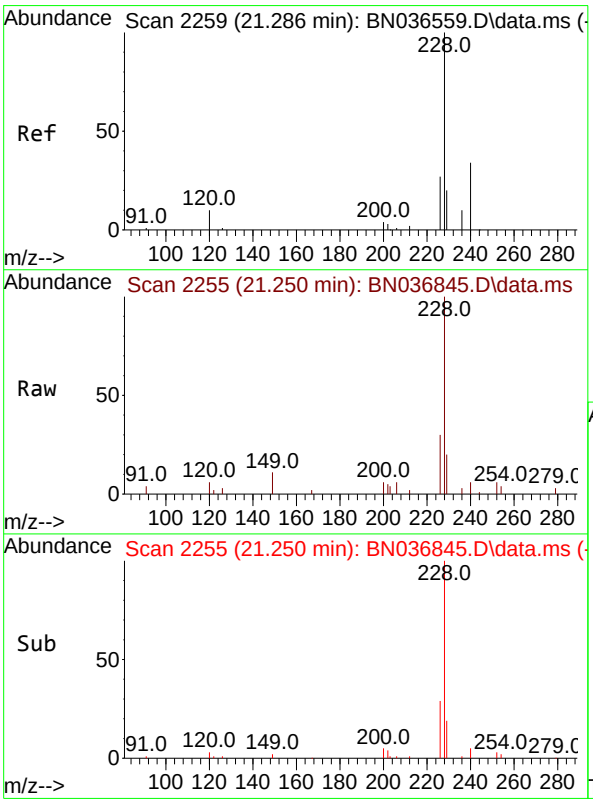
Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	16.6	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations APPROVED

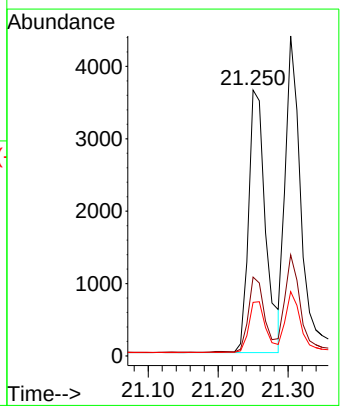
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

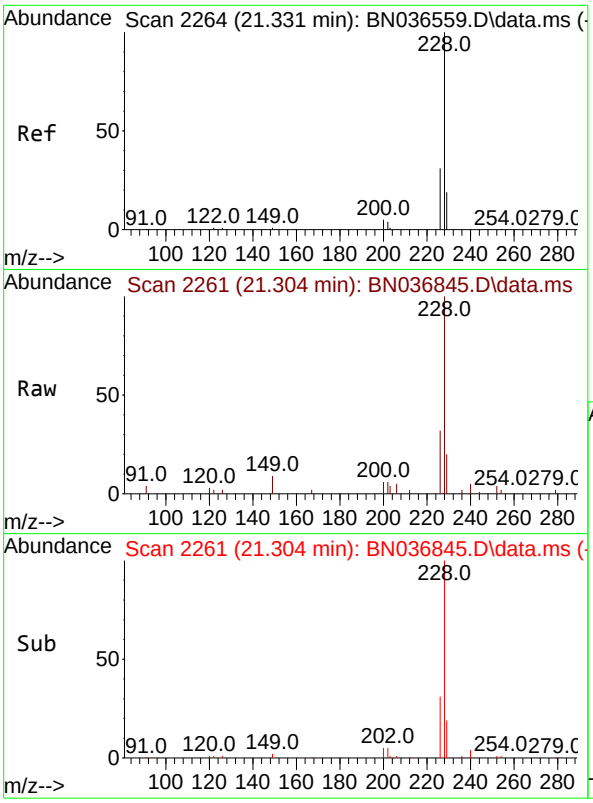


#32
Benzo(a)anthracene
Concen: 0.437 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:228 Resp: 6142

Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.5	33.7
229	20.1	16.6	25.0

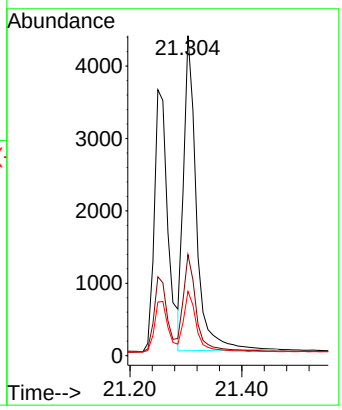




#33
Chrysene
Concen: 0.450 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:228 Resp: 690

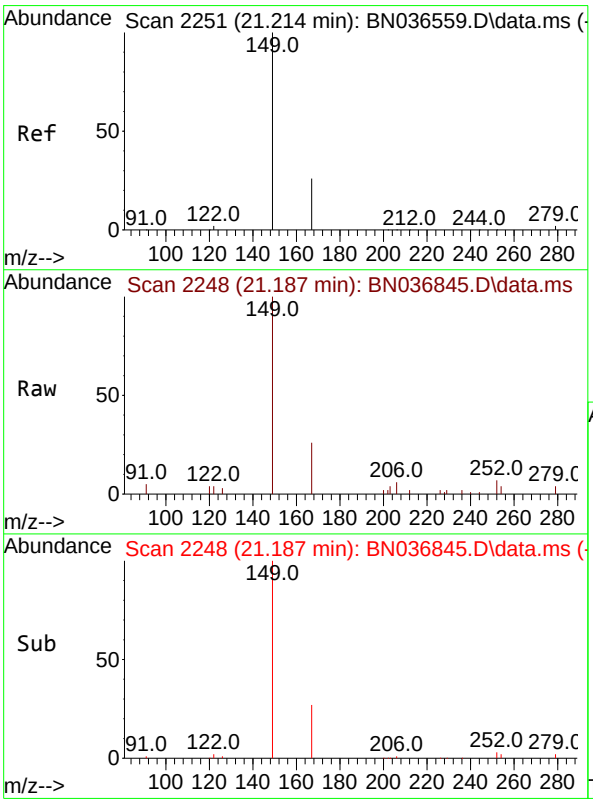
Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.3	37.9
229	20.1	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

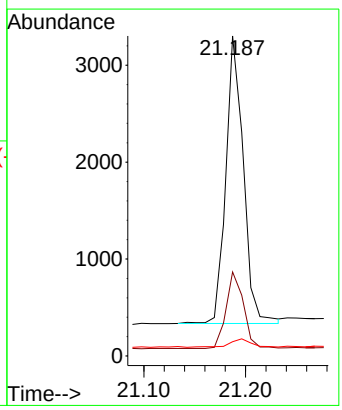
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

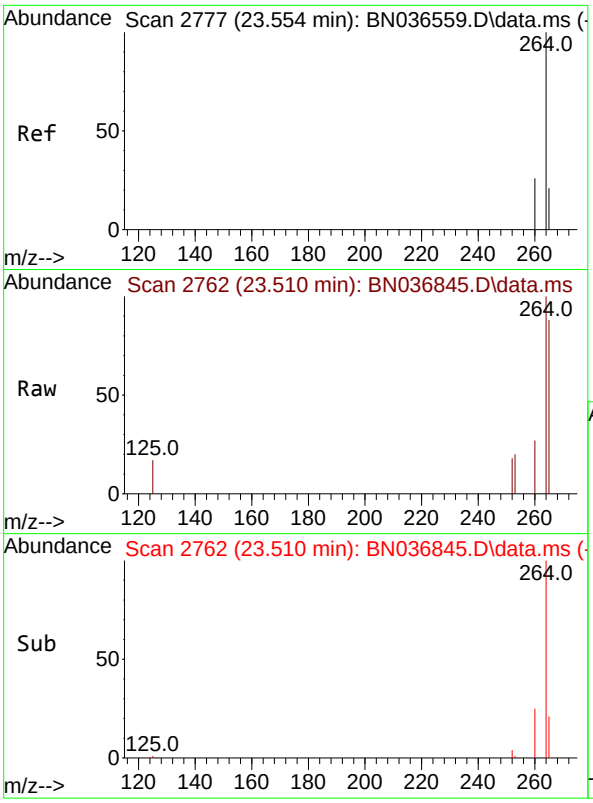


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.354 ng
RT: 21.187 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:149 Resp: 3543

Ion	Ratio	Lower	Upper
149	100		
167	26.7	20.7	31.1
279	3.5	3.6	5.4#

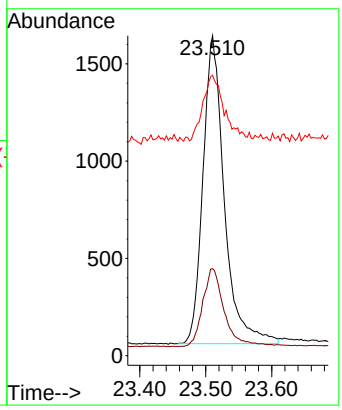




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.510 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:264 Resp: 356

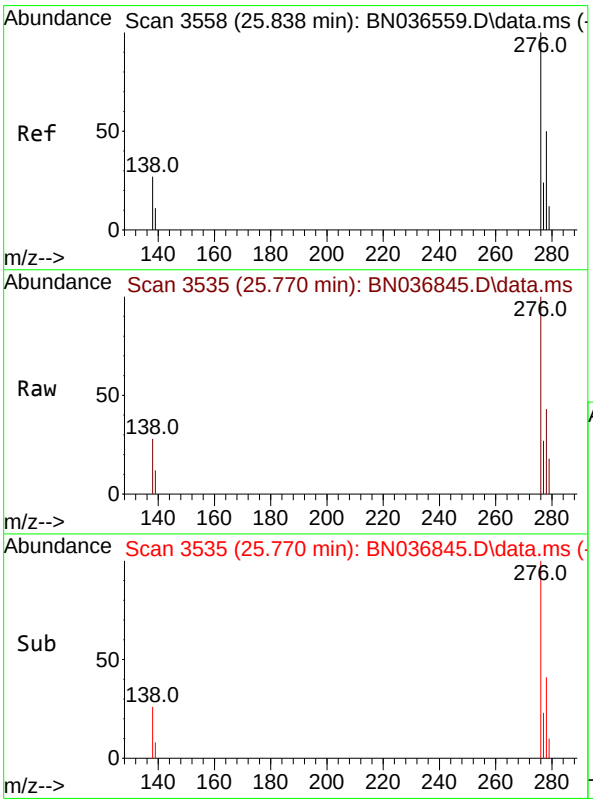
Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.6	33.8
265	87.7	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

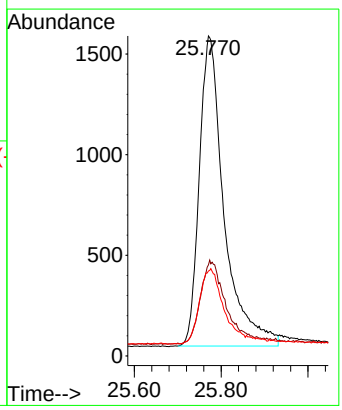
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

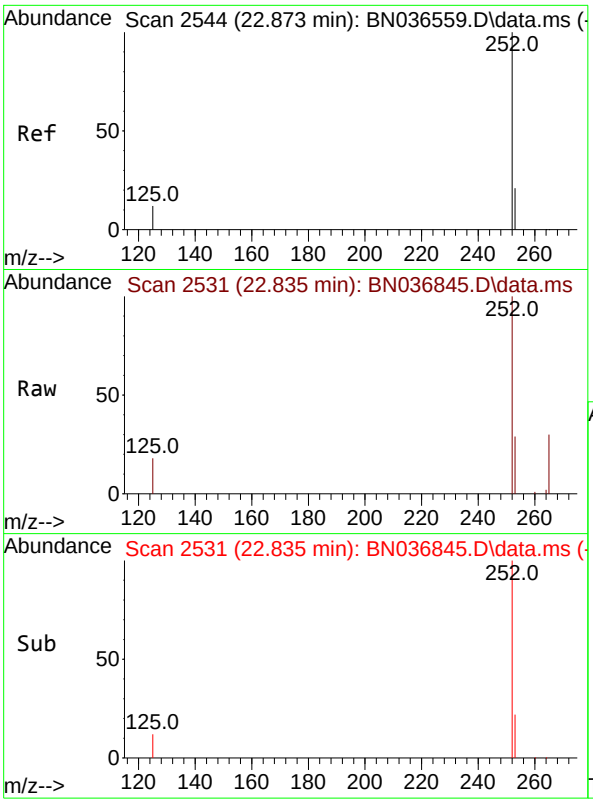


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.475 ng
RT: 25.770 min Scan# 3535
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:276 Resp: 6102

Ion	Ratio	Lower	Upper
276	100		
138	27.2	23.4	35.2
277	24.6	20.0	30.0

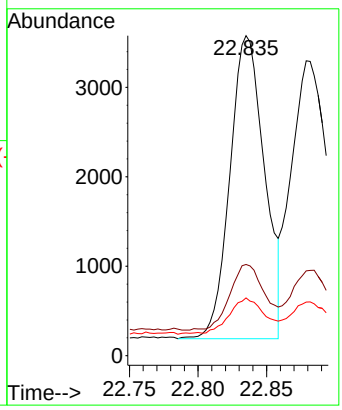




#37
Benzo(b)fluoranthene
Concen: 0.459 ng
RT: 22.835 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:252 Resp: 594

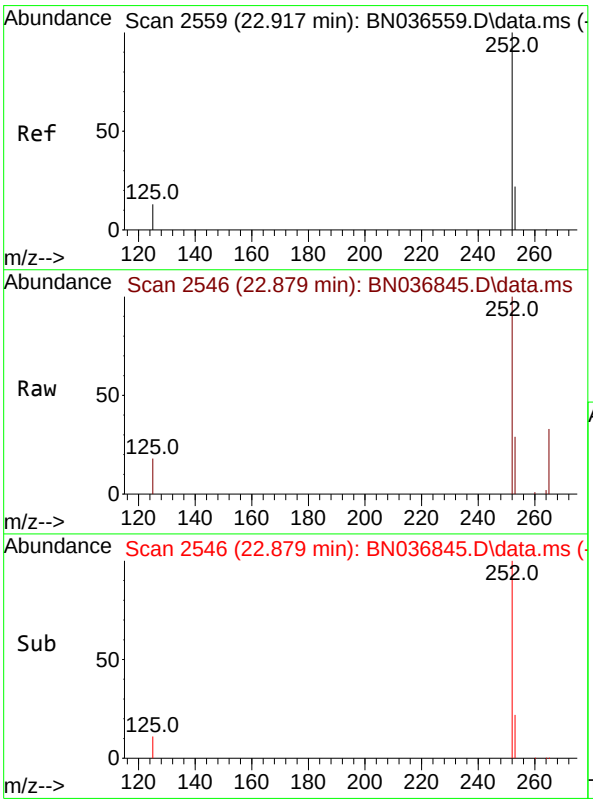
Ion	Ratio	Lower	Upper
252	100		
253	28.5	23.9	35.9
125	18.1	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

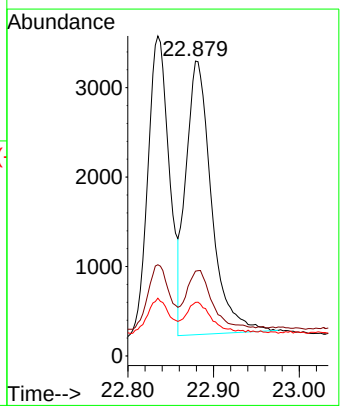
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

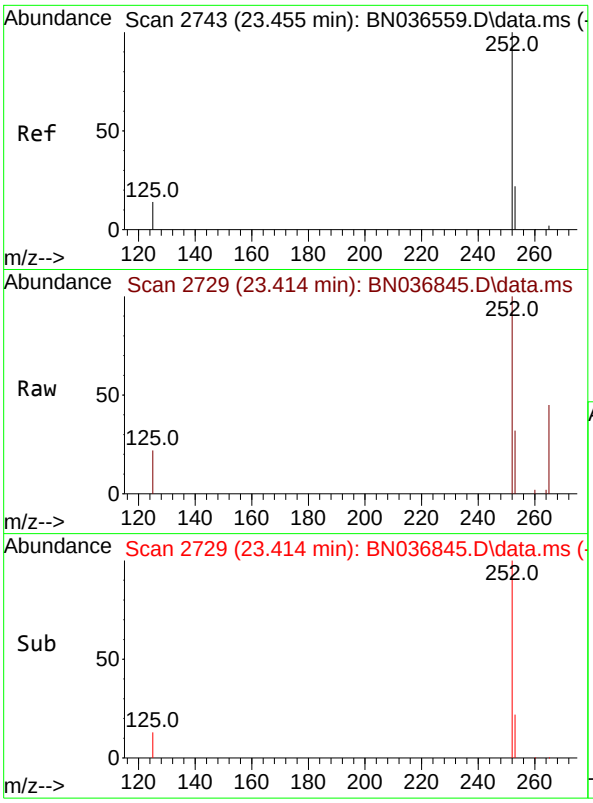


#38
Benzo(k)fluoranthene
Concen: 0.466 ng
RT: 22.879 min Scan# 2546
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:252 Resp: 6337

Ion	Ratio	Lower	Upper
252	100		
253	28.8	24.6	36.8
125	18.2	17.8	26.8

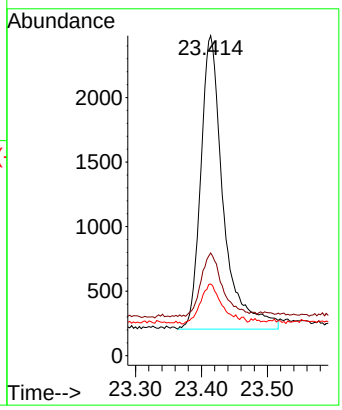




#39
Benzo(a)pyrene
Concen: 0.495 ng
RT: 23.414 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:252 Resp: 540

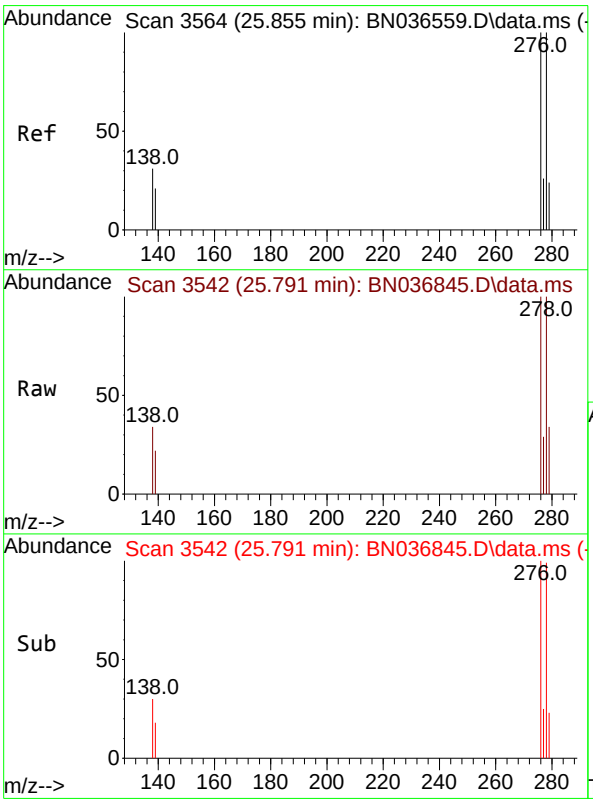
Ion	Ratio	Lower	Upper
252	100		
253	32.1	27.8	41.8
125	22.4	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

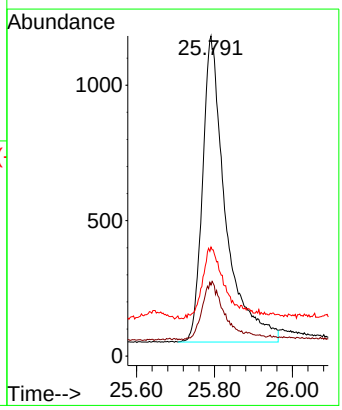
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

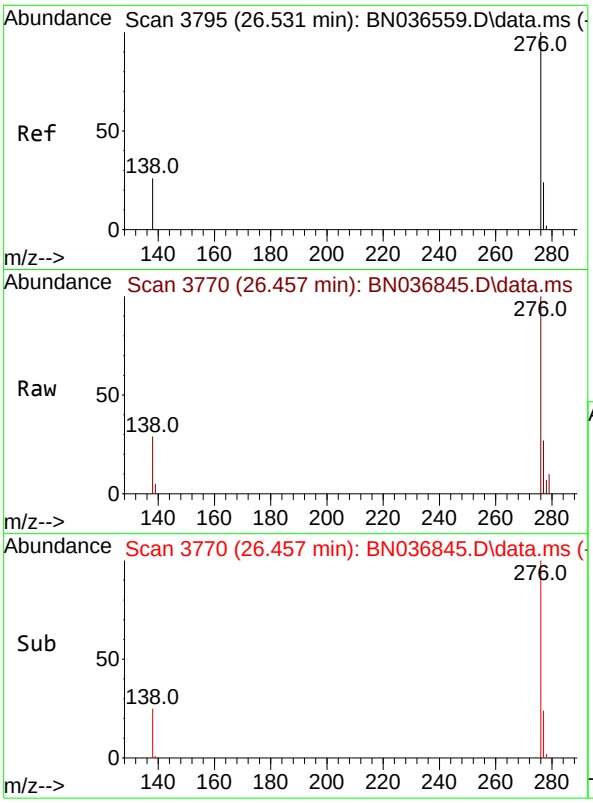


#40
Dibenzo(a,h)anthracene
Concen: 0.463 ng
RT: 25.791 min Scan# 3542
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:278 Resp: 4630

Ion	Ratio	Lower	Upper
278	100		
139	22.2	20.8	31.2
279	34.1	28.8	43.2

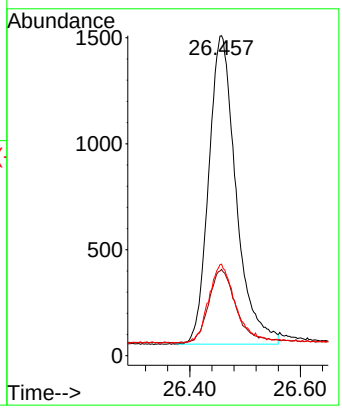




#41
Benzo(g,h,i)perylene
Concen: 0.436 ng
RT: 26.457 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036845.D
Acq: 04 Apr 2025 20:58

Tgt Ion:276 Resp: 498

Ion	Ratio	Lower	Upper
276	100		
277	27.0	22.2	33.4
138	28.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167468BSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

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

Manual Integration Report

Sequence:	BN031025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036557.D	1,4-Dioxane	anahy	3/11/2025 9:18:29 AM	Jagrut	3/11/2025 10:27:49 AM	Peak Integrated by Software
SSTDICC0.2	BN036558.D	1,4-Dioxane	anahy	3/11/2025 9:19:12 AM	Jagrut	3/11/2025 10:27:51 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Benzo(k)fluoranthene	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Chrysene-d12	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN040425	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167468BS	BN036844.D	2-Methylnaphthalene-d10	anahy	4/7/2025 11:15:16 AM	Jagrut	4/7/2025 4:09:09 PM	Peak Integrated by Software
PB167468BSD	BN036845.D	2-Methylnaphthalene-d10	anahy	4/7/2025 11:15:47 AM	Jagrut	4/7/2025 4:09:12 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN040725	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM		
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM		
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036556.D	10 Mar 2025 11:03	RC/JU	Ok
2	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	RC/JU	Ok,M
3	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18	RC/JU	Ok,M
4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54	RC/JU	Ok
5	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31	RC/JU	Ok
6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	RC/JU	Ok
7	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	RC/JU	Ok
8	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19	RC/JU	Ok
9	SSTDICV0.4	BN036564.D	10 Mar 2025 16:38	RC/JU	Ok
10	PB167057BL	BN036565.D	10 Mar 2025 17:14	RC/JU	Ok
11	Q1531-03	BN036566.D	10 Mar 2025 17:50	RC/JU	Ok
12	Q1531-04	BN036567.D	10 Mar 2025 18:26	RC/JU	Ok
13	Q1531-05	BN036568.D	10 Mar 2025 19:02	RC/JU	Ok
14	Q1531-06	BN036569.D	10 Mar 2025 19:38	RC/JU	Ok,M
15	Q1531-13	BN036570.D	10 Mar 2025 20:14	RC/JU	Ok
16	Q1531-14	BN036571.D	10 Mar 2025 20:50	RC/JU	Ok
17	SSTDCCC0.4	BN036572.D	10 Mar 2025 21:26	RC/JU	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN040425

Review By	anahy	Review On	4/7/2025 11:16:04 AM				
Supervise By	Jagrut	Supervise On	4/7/2025 4:09:24 PM				
SubDirectory	BN040425	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025		

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036836.D	04 Apr 2025 13:03	RC/JU	Ok
2	SSTDCCC0.4	BN036837.D	04 Apr 2025 13:42	RC/JU	Ok
3	PB167468BL	BN036838.D	04 Apr 2025 16:46	RC/JU	Not Ok
4	Q1731-01	BN036839.D	04 Apr 2025 17:22	RC/JU	Ok
5	Q1731-02	BN036840.D	04 Apr 2025 17:58	RC/JU	Ok
6	Q1731-03	BN036841.D	04 Apr 2025 18:34	RC/JU	Ok
7	Q1731-04	BN036842.D	04 Apr 2025 19:10	RC/JU	Dilution
8	Q1731-05	BN036843.D	04 Apr 2025 19:46	RC/JU	Ok
9	PB167468BS	BN036844.D	04 Apr 2025 20:22	RC/JU	Ok,M
10	PB167468BSD	BN036845.D	04 Apr 2025 20:58	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 # BN040725

Review By	anahy	Review On	4/8/2025 12:29:57 PM				
Supervise By	Jagrut	Supervise On	4/10/2025 3:32:44 PM				
SubDirectory	BN040725	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025		

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036846.D	07 Apr 2025 08:31	RC/JU	Ok
2	SSTDCCC0.4	BN036847.D	07 Apr 2025 09:10	RC/JU	Ok
3	PB167468BL	BN036848.D	07 Apr 2025 09:46	RC/JU	Ok
4	Q1731-04DL	BN036849.D	07 Apr 2025 10:22	RC/JU	Ok
5	Q1736-02	BN036850.D	07 Apr 2025 13:06	RC/JU	Ok
6	Q1736-02MS	BN036851.D	07 Apr 2025 13:41	RC/JU	Ok
7	Q1736-02MSD	BN036852.D	07 Apr 2025 14:18	RC/JU	Ok
8	PB167475BS	BN036853.D	07 Apr 2025 14:54	RC/JU	Ok,M
9	PB167475BL	BN036854.D	07 Apr 2025 15:30	RC/JU	Ok
10	Q1736-01	BN036855.D	07 Apr 2025 16:06	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 # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM	
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM	
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036556.D	10 Mar 2025 11:03		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	Compound #20 removed.	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	Compound #20 kept on QR.	RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	Method is good for DOD.	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19		RC/JU	Ok
9	SSTDICV0.4	ICVBN031025	BN036564.D	10 Mar 2025 16:38		RC/JU	Ok
10	PB167057BL	PB167057BL	BN036565.D	10 Mar 2025 17:14		RC/JU	Ok
11	Q1531-03	RE122D1-20250305	BN036566.D	10 Mar 2025 17:50		RC/JU	Ok
12	Q1531-04	RE126D1-20250306	BN036567.D	10 Mar 2025 18:26		RC/JU	Ok
13	Q1531-05	RE126D2-20250306	BN036568.D	10 Mar 2025 19:02		RC/JU	Ok
14	Q1531-06	DUP01-20250306	BN036569.D	10 Mar 2025 19:38		RC/JU	Ok,M
15	Q1531-13	RE108D1-20250306	BN036570.D	10 Mar 2025 20:14		RC/JU	Ok
16	Q1531-14	RE105D1-20250306	BN036571.D	10 Mar 2025 20:50		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036572.D	10 Mar 2025 21:26		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN040425

Review By	anahy	Review On	4/7/2025 11:16:04 AM	
Supervise By	Jagrut	Supervise On	4/7/2025 4:09:24 PM	
SubDirectory	BN040425	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036836.D	04 Apr 2025 13:03		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036837.D	04 Apr 2025 13:42		RC/JU	Ok
3	PB167468BL	PB167468BL	BN036838.D	04 Apr 2025 16:46	Not Used	RC/JU	Not Ok
4	Q1731-01	RMW-01B-82-040325	BN036839.D	04 Apr 2025 17:22		RC/JU	Ok
5	Q1731-02	RMW-04B-91-040325	BN036840.D	04 Apr 2025 17:58		RC/JU	Ok
6	Q1731-03	RMW-01B-82-040325-F	BN036841.D	04 Apr 2025 18:34		RC/JU	Ok
7	Q1731-04	RMW-03B-90-040325	BN036842.D	04 Apr 2025 19:10	Need 5X Dilution	RC/JU	Dilution
8	Q1731-05	EB01-040325	BN036843.D	04 Apr 2025 19:46		RC/JU	Ok
9	PB167468BS	PB167468BS	BN036844.D	04 Apr 2025 20:22		RC/JU	Ok,M
10	PB167468BSD	PB167468BSD	BN036845.D	04 Apr 2025 20:58		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 # BN040725

Review By	anahy	Review On	4/8/2025 12:29:57 PM	
Supervise By	Jagrut	Supervise On	4/10/2025 3:32:44 PM	
SubDirectory	BN040725	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036846.D	07 Apr 2025 08:31		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036847.D	07 Apr 2025 09:10		RC/JU	Ok
3	PB167468BL	PB167468BL	BN036848.D	07 Apr 2025 09:46		RC/JU	Ok
4	Q1731-04DL	RMW-03B-90-040325D	BN036849.D	07 Apr 2025 10:22		RC/JU	Ok
5	Q1736-02	GST2	BN036850.D	07 Apr 2025 13:06		RC/JU	Ok
6	Q1736-02MS	GST2MS	BN036851.D	07 Apr 2025 13:41		RC/JU	Ok
7	Q1736-02MSD	GST2MSD	BN036852.D	07 Apr 2025 14:18		RC/JU	Ok
8	PB167475BS	PB167475BS	BN036853.D	07 Apr 2025 14:54		RC/JU	Ok,M
9	PB167475BL	PB167475BL	BN036854.D	07 Apr 2025 15:30		RC/JU	Ok
10	Q1736-01	GST1	BN036855.D	07 Apr 2025 16:06		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167468

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 04/04/2025

Extraction Start Time : 11:35

Extraction End Date : 04/04/2025

Extraction End Time : 16:25

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6739
Surrogate	1.0ML	0.4 PPM	SP6755
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3904
Baked Na2SO4	N/A	EP2597
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/04/25	RP (Sat. 1a5)	RC/SVOC
16:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167468

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/04/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167468BL	SBLK468	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			SEP-01
PB167468BS	SLCS468	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			2
PB167468BSD	SLCSD468	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			3
Q1731-01	RMW-01B-82-040325	SVOC-SIMGroup1	980	6	ritesh	rajesh	1	C		4
Q1731-02	RMW-04B-91-040325	SVOC-SIMGroup1	980	6	ritesh	rajesh	1	C		5
Q1731-03	RMW-01B-82-040325-FD	SVOC-SIMGroup1	980	6	ritesh	rajesh	1	C		6
Q1731-04	RMW-03B-90-040325	SVOC-SIMGroup1	980	6	ritesh	rajesh	1	C		7
Q1731-05	EB01-040325	SVOC-SIMGroup1	960	6	ritesh	rajesh	1	G		8

* **Extracts relinquished on the same date as received.**

4/4/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1731 **WorkList ID :** 188748 **Department :** Extraction **Date :** 04-04-2025 11:34:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1731-01	RMW-01B-82-040325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	L31	04/03/2025	8270-Modified
Q1731-02	RMW-04B-91-040325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	L31	04/03/2025	8270-Modified
Q1731-03	RMW-01B-82-040325-FD	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	L31	04/03/2025	8270-Modified
Q1731-04	RMW-03B-90-040325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	L31	04/03/2025	8270-Modified
Q1731-05	EB01-040325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	L31	04/03/2025	8270-Modified

Date/Time 04/04/25 11:34
Raw Sample Received by: RJ (Ext Tech) SM
Raw Sample Relinquished by: SM

Date/Time 04/04/25 12:00
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Ext Tech)

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Prep Standard - Chemical Standard Summary

Order ID : Q1731

Test : SVOC-SIMGroup1

Prepbatch ID : PB167468,

Sequence ID/Qc Batch ID: BN040425,BN040725,

Standard ID :
EP2559,EP2565,EP2597,SP6682,SP6683,SP6684,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6755,SP6757,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3828,E3873,E3874,E3902,E3904,M5173,S10104,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12195,S12208,S12216,S12270,S12328,S12469,S12478,S12517,S12525,S12577,S12651,S12791,S12966,W3112,

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Fax : 908 789 8922

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	EP2597	03/28/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	Evelyn Huang 03/28/2025

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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Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = Final Quantity: 1.010 ml

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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	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh Patel 02/07/2025

FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

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Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6755	03/20/2025	07/24/2025	Jagrut Upadhyay	None	None	Rahul Chavli 04/01/2025

FROM 0.00400ml of S12195 + 0.00800ml of S12216 + 0.02000ml of S11832 + 99.96800ml of E3902 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-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	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

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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	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

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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-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.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

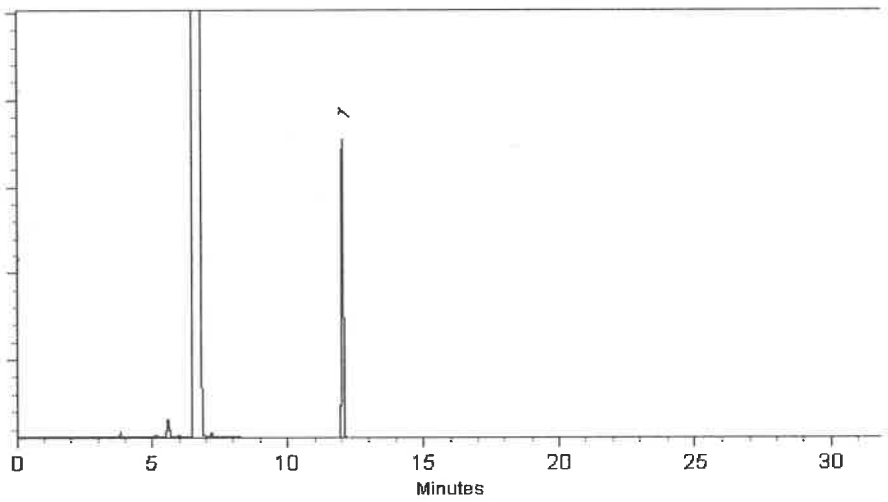
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3902

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

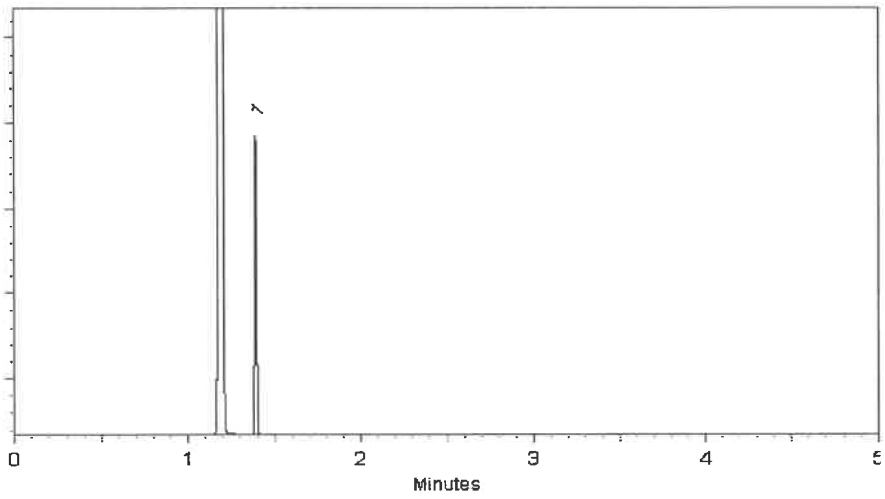
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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

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. : 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.)

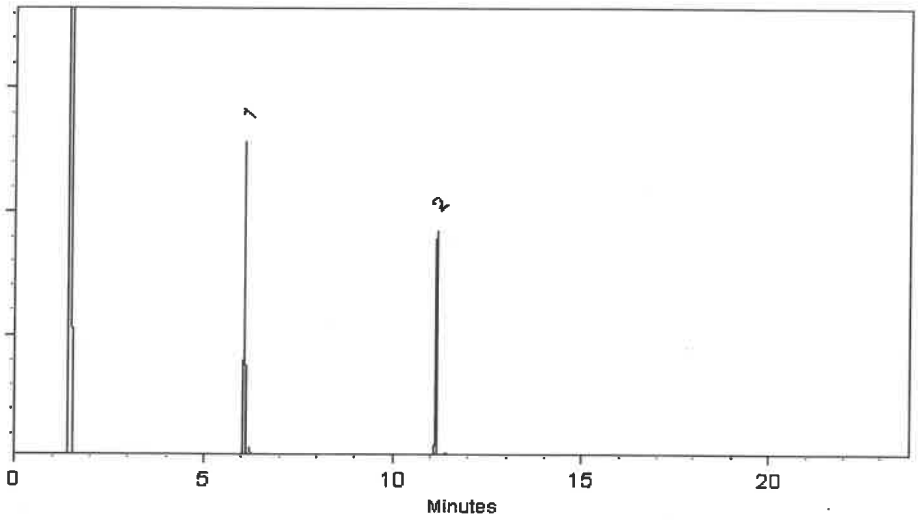
Inj. Temp:
250°C

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

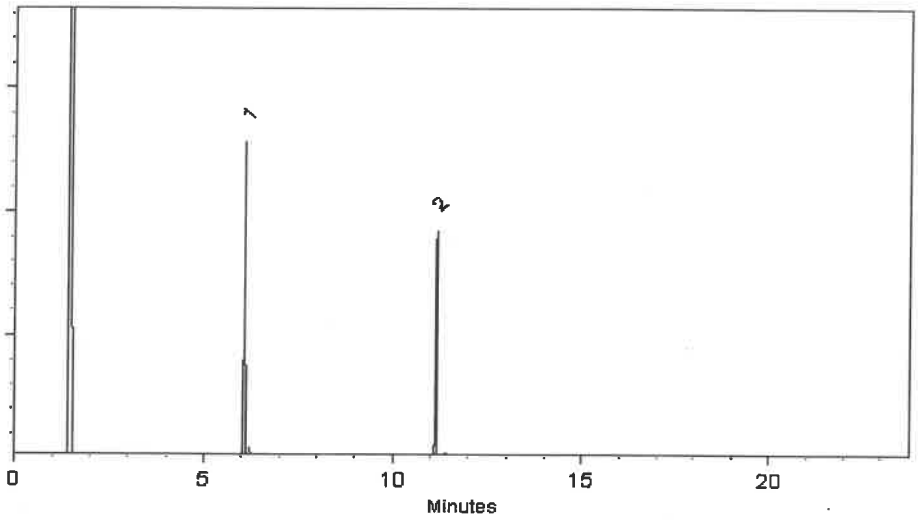
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I **Date Mixed:** 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 28-Sep-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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Fax: 1-814-353-1309

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Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

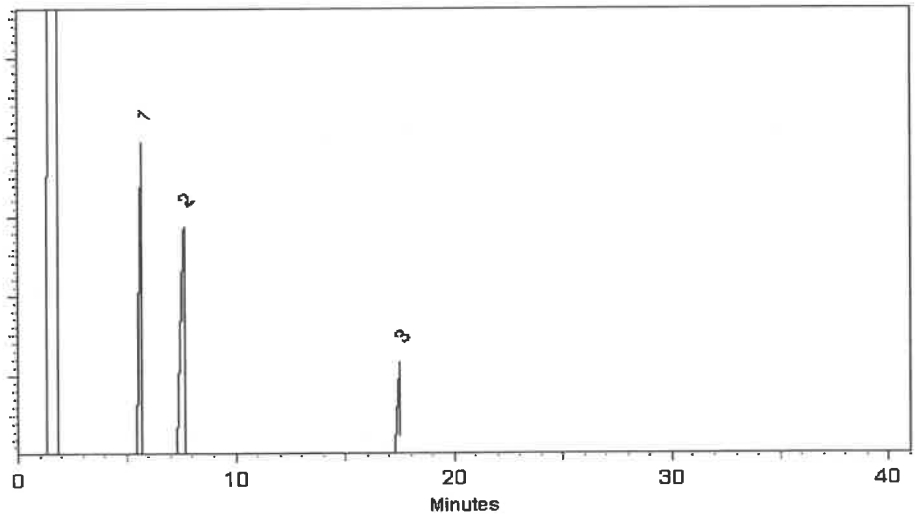
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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.)

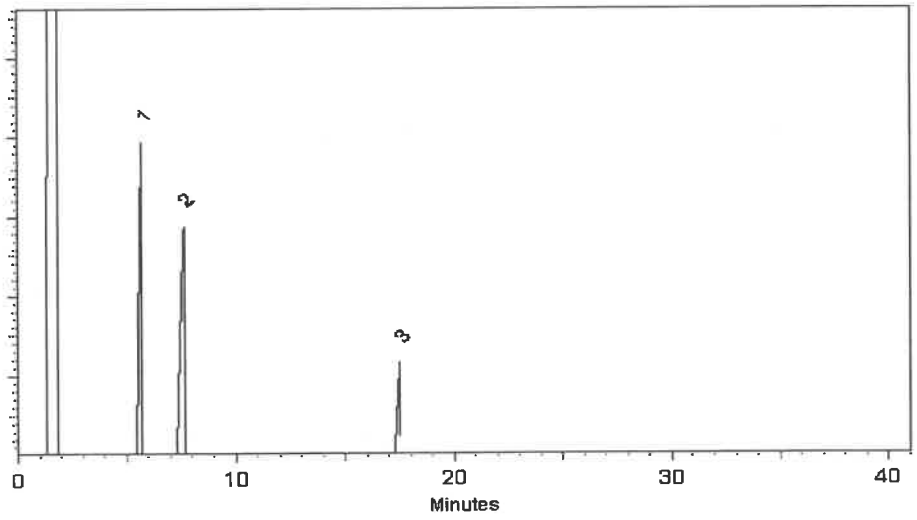
Inj. Temp:
250°C

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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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

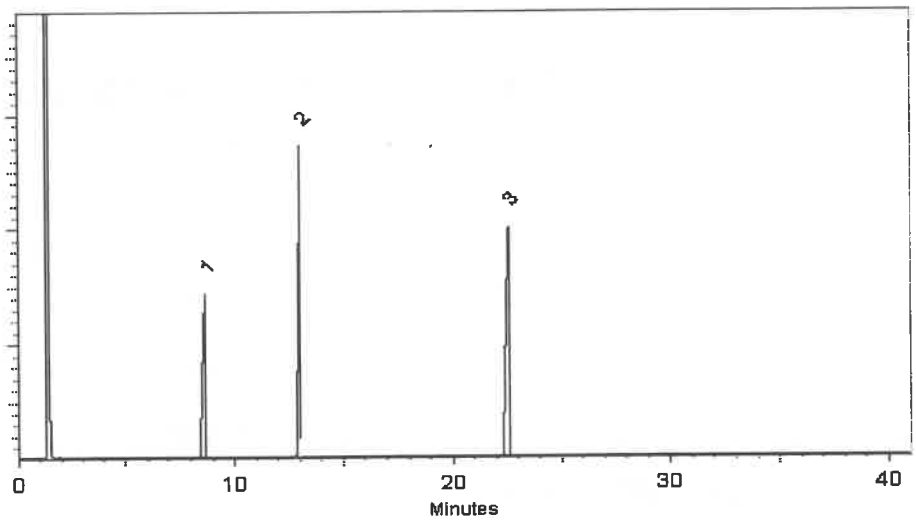
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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.)

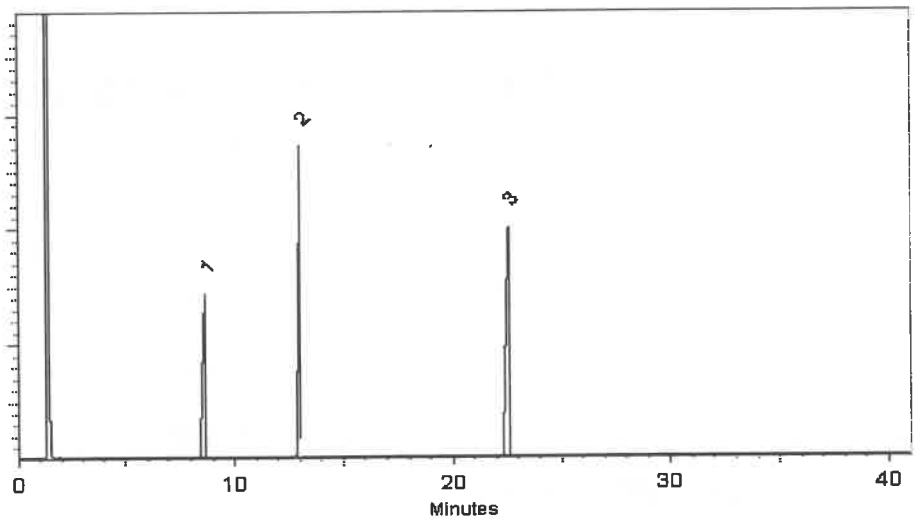
Inj. Temp:
250°C

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

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Kerry E Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

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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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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.)

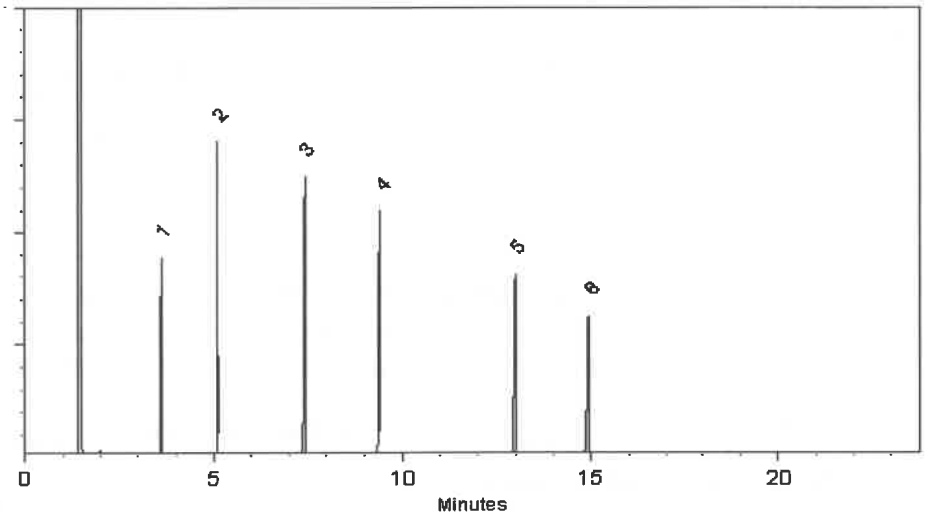
Inj. Temp:
250°C

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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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 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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CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
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Certificate #3222.01

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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.)

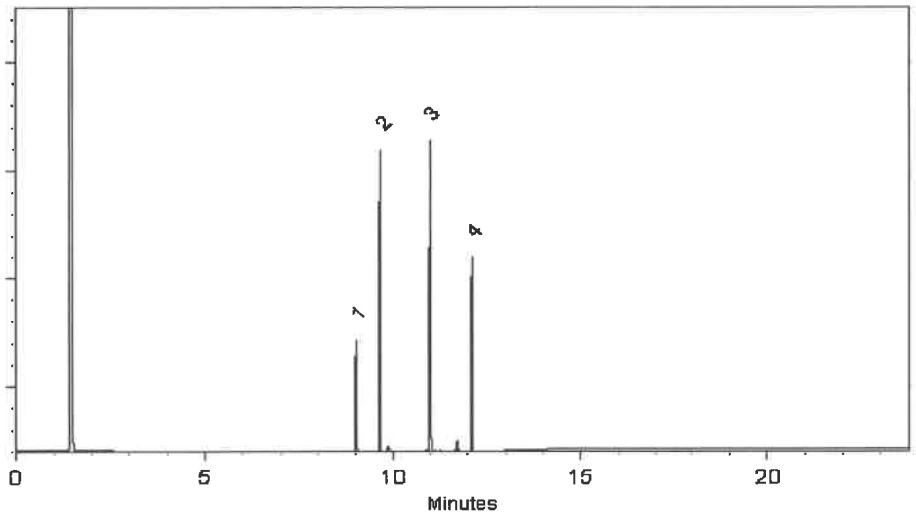
Inj. Temp:
250°C

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

RESTEK
110 Benner Circle
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12280 → S12284 RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1731
COC Number 2045982

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite 100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yuhanta John.Yuhanta@Jacobs.com
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3808221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☑ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
☐ EDD FORMAT

ANALYSIS

1: 1,4 Dioxane (8270E-SIM)
2: Site Specific VOCs (8260D-LL)
3: Total Metals (6020B)
4: Dissolved Iron (6020B)
5: Alkalinity (SM2320B)
6: TDS (SM2540C)
7: Anions (9056)
8:
9:

PRESERVATIVES

E, A/E, B/E, E, E, E, E

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	RMW-01B-82-040325	GW		X	4-3-25	1135	4	✓	✓								
2.	RMW-04B-91-040325	GW		X	4-3-25	145	4	✓	✓								
3.	RMW-01B-82-040325-FD	GW		X	4-3-25	1140	4	✓	✓								
4.	RMW-03B-90-040325	GW		X	4-3-25	1510	4	✓	✓								
5.	EB01-040325	DI		X	4-3-25	1545	8	✓	✓	✓	✓	✓	✓	✓			PH 1.9
6.	TB01-040325	DI		X	4-3-25	1600	2	✓									Lot # 80A0441
7.																	samples preserved (HNO3)
8.																	on 4/4/25 @ 0715
9.																	samples placed in SM-Fridge
10.																	samples relinquished 4/7/25 @ 0715

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	4/3/25 1634	1.	1634 4-3-25
2.		2.	
3.	4-3-25 1820	3.	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.7 °C
Comments: See workorder for list of site specific VOCs
Preserve Dissolved Iron sample upon arrival to the lab
Temp 2.7°C Adjusted Factor +1) IR Gun #1.

Page 1 of 1
CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1731 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : John Ynfante
Invoice Name : JACOBS Engineering Grou
Invoice Contact : John Ynfante

Order Date : 4/4/2025 10:52:00 AM
Project Name : Former Schlumberger STC
Receive DateTime : 4/3/2025 6:20:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1731-01	RMW-01B-82-040325	Water	04/03/2025	11:35					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1731-02	RMW-04B-91-040325	Water	04/03/2025	14:15					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1731-03	RMW-01B-82-040325-FD	Water	04/03/2025	11:40					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1731-04	RMW-03B-90-040325	Water	04/03/2025	15:10					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1731-05	EB01-040325	Water	04/03/2025	15:45					
					VOCMS Group3		8260-Low	2 Bus. Days	
Q1731-07	TB01-040325	Water	04/03/2025	16:00					
					VOCMS Group3		8260-Low	2 Bus. Days	

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Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q1731 JACO05	**Order Date :**	4/4/2025 10:52:00 AM	**Project Mgr :**	
Client Name :	JACOBS Engineering Grou	**Project Name :**	Former Schlumberger STC	**Report Type :**	Level 4
Client Contact :	John Ynfante	**Receive DateTime :**	4/3/2025 6:20:00 PM	**EDD Type :**	CH2MHILL
Invoice Name :	JACOBS Engineering Grou	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	John Ynfante			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Stored in Ref #04
(VOA)

Relinguished By : [signature]
Date / Time : 4/4/25 1120

Received By : [signature]
Date / Time : 4-4-25 11:20

Storage Area : VOA Refridgerator Room