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Cover Page

Order ID : P4495

Project ID : NJ Soil PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
P4495-01	PT-AN-SOIL
P4495-02	PT-CORR-SOIL
P4495-03	PT-CN-SOIL
P4495-04	PT-CN-SOIL
P4495-05	PT-FP-SOIL
P4495-06	PT-CR6-SOIL
P4495-07	PT-NUT-SOIL
P4495-08	PT-NUT-SOIL
P4495-09	PT-OGR-SOIL
P4495-10	PT-MET-SOIL
P4495-11	PT-BNA-SOIL
P4495-12	PT-TRIAZINE-SOIL
P4495-13	PT-PAH-SOIL
P4495-14	PT-DIES-SOIL
P4495-15	PT-GAS-SOIL
P4495-16	PT-NJEPH-SOIL
P4495-17	PT-HERB-SOIL
P4495-18	PT-PCB-SOIL
P4495-19	PT-PCBO-SOIL
P4495-20	PT-PEST-SOIL
P4495-21	PT-CHLR-SOIL
P4495-22	PT-TXP-SOIL
P4495-23	PT-VOA-SOIL
P4495-24	PT-SOL-SOIL
P4495-25	PT-NO2-SOIL

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

Signature : _____

Date: 12/3/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Chemtech Consulting Group
Project Name: NJ Soil PT
Project # N/A
Chemtech Project # P4495
Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:
25 Solid samples were received on 10/23/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Nitrite, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, TKN, TOC, TS and VOCMS Group1. This data package contains results for SVOCMS Group3.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 was based on method 8270-Modified and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BN035082.D met the requirements except for 2,4,6-Tribromophenol, marginally low therefore no corrective action was taken. .
The Tuning criteria met requirements.

Sample PT-PAH-SOIL 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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

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

CHEMTECH PROJECT NUMBER: P4495 MATRIX: Solid

METHOD: 8270-Modified/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.		✓	
	The Initial Calibration met the requirements . The Continuous Calibration File ID BN035082.D met the requirements except for 2,4,6-Tribromophenol, marginally low therefore no corrective action was taken. .			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

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NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

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

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

ADDITIONAL COMMENTS:

Sample PT-PAH-SOIL 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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4495**

	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:** **12/03/2024**

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LAB CHRONICLE

OrderID:	P4495	**OrderDate:**	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	**Project:**	NJ Soil PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-11	**PT-BNA-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group1	8270E		10/25/24	11/13/24	
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-11DL	**PT-BNA-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group1	8270E		10/25/24	11/13/24	
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-12	**PT-TRIAZINE-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group4	8270E		10/25/24	10/29/24	
P4495-13	**PT-PAH-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group3	8270-Modified		10/25/24	11/14/24	
P4495-13DL	**PT-PAH-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group3	8270-Modified		10/25/24	11/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**PT-PAH-SOIL**							
P4495-13	PT-PAH-SOIL	SOIL	Naphthalene	160.000		0.69	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	2-Methylnaphthalene	170.000	E	0.8	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Acenaphthylene	77.700		0.63	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Acenaphthene	280.000	E	0.55	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Fluorene	120.000		0.6	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Phenanthrene	270.000	E	0.63	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Anthracene	410.000	E	0.79	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Fluoranthene	140.000		0.67	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Pyrene	180.000	E	0.95	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(a)anthracene	200.000	E	0.76	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Chrysene	160.000		0.86	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(b)fluoranthene	200.000	E	1.2	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(k)fluoranthene	100.000		0.98	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(a)pyrene	200.000	E	1.7	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Indeno(1,2,3-cd)pyrene	91.600		1.3	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Dibenzo(a,h)anthracene	120.000		1.2	3.3	ug/Kg
P4495-13	PT-PAH-SOIL	SOIL	Benzo(g,h,i)perylene	37.000		1.1	3.3	ug/Kg
			Total Svoc :	**2,916.30**				
			Total Concentration:	**2,916.30**				
Client ID :	**PT-PAH-SOILDL**							
P4495-13DL	PT-PAH-SOILDL	SOIL	Naphthalene	170.000	D	3.5	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	2-Methylnaphthalene	180.000	D	4	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Acenaphthylene	80.800	D	3.2	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Acenaphthene	300.000	D	2.8	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Fluorene	120.000	D	3	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Phenanthrene	290.000	D	3.2	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Anthracene	430.000	D	4	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Fluoranthene	150.000	D	3.4	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Pyrene	190.000	D	4.8	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(a)anthracene	220.000	D	3.8	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Chrysene	180.000	D	4.3	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(b)fluoranthene	220.000	D	6	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(k)fluoranthene	110.000	D	4.9	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(a)pyrene	220.000	D	8.3	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Indeno(1,2,3-cd)pyrene	100.000	D	6.3	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Dibenzo(a,h)anthracene	130.000	D	5.9	16.5	ug/Kg
P4495-13DL	PT-PAH-SOILDL	SOIL	Benzo(g,h,i)perylene	40.800	D	5.7	16.5	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Svoc :	**3,131.60**				
			Total Concentration:	**3,131.60**				

QC
SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4495-13	PT-PAH-SOIL	2-Methylnaphthalene-d10	0.4	0.25	62		17	161
		Fluoranthene-d10	0.4	0.28	69		23	138
		Nitrobenzene-d5	0.4	0.29	73		33	121
		2-Fluorobiphenyl	0.4	0.28	70		32	121
		Terphenyl-d14	0.4	0.32	81		21	130
P4495-13DL	PT-PAH-SOILDL	2-Methylnaphthalene-d10	0.4	0.27	66		17	161
		Fluoranthene-d10	0.4	0.29	72		23	138
		Nitrobenzene-d5	0.4	0.33	83		33	121
		2-Fluorobiphenyl	0.4	0.31	77		32	121
		Terphenyl-d14	0.4	0.38	94		21	130
PB164402BL	PB164402BL	2-Methylnaphthalene-d10	0.4	0.35	88		17	161
		Fluoranthene-d10	0.4	0.37	93		23	138
		Nitrobenzene-d5	0.4	0.37	93		33	121
		2-Fluorobiphenyl	0.4	0.36	90		32	121
		Terphenyl-d14	0.4	0.42	104		21	130
PB164402BS	PB164402BS	2-Methylnaphthalene-d10	0.4	0.46	114		17	161
		Fluoranthene-d10	0.4	0.32	81		23	138
		Nitrobenzene-d5	0.4	0.35	86		33	121
		2-Fluorobiphenyl	0.4	0.36	89		32	121
		Terphenyl-d14	0.4	0.42	105		21	130

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified **DataFile:** BN035094.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164402BS	Naphthalene	13.3	12.0	ug/Kg	90				63	120	
	2-Methylnaphthalene	13.3	12.0	ug/Kg	90				54	111	
	Acenaphthylene	13.3	12.1	ug/Kg	91				61	110	
	Acenaphthene	13.3	11.6	ug/Kg	87				65	112	
	Fluorene	13.3	11.2	ug/Kg	84				61	115	
	Phenanthrene	13.3	12.3	ug/Kg	92				61	120	
	Anthracene	13.3	12.5	ug/Kg	94				60	115	
	Fluoranthene	13.3	10.7	ug/Kg	80				56	124	
	Pyrene	13.3	13.6	ug/Kg	102				58	125	
	Benzo(a)anthracene	13.3	12.0	ug/Kg	90				45	129	
	Chrysene	13.3	12.6	ug/Kg	95				62	123	
	Benzo(b)fluoranthene	13.3	13.0	ug/Kg	98				47	123	
	Benzo(k)fluoranthene	13.3	12.8	ug/Kg	96				69	123	
	Benzo(a)pyrene	13.3	13.0	ug/Kg	98				53	123	
	Indeno(1,2,3-cd)pyrene	13.3	11.2	ug/Kg	84				62	131	
	Dibenz(a,h)anthracene	13.3	11.2	ug/Kg	84				57	120	
	Benzo(g,h,i)perylene	13.3	10.0	ug/Kg	75				66	121	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164402BL

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Lab File ID: BN035083.D Lab Sample ID: PB164402BL

Instrument ID: BNA_N Date Extracted: 10/25/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/14/2024

Level: (low/med) LOW Time Analyzed: 10:48

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164402BS	PB164402BS	BN035094.D	11/14/2024
PT-PAH-SOIL	P4495-13	BN035086.D	11/14/2024

COMMENTS:

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM SAS No.: P4495 SDG NO.: P4495

Lab File ID: BN035061.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_N DFTPP Injection Time: 12:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.6
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	29.1
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	35.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	4.4
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	11.2 (19) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN035062.D	11/13/2024	12:40
SSTDICC0.2	SSTDICC0.2	BN035063.D	11/13/2024	13:16
SSTDICCC0.4	SSTDICCC0.4	BN035064.D	11/13/2024	13:52
SSTDICC0.8	SSTDICC0.8	BN035065.D	11/13/2024	14:28
SSTDICC1.6	SSTDICC1.6	BN035066.D	11/13/2024	15:04
SSTDICC3.2	SSTDICC3.2	BN035067.D	11/13/2024	15:39
SSTDICC5.0	SSTDICC5.0	BN035068.D	11/13/2024	16:15

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM SAS No.: P4495 SDG NO.: P4495

Lab File ID: BN035081.D DFTPP Injection Date: 11/14/2024

Instrument ID: BNA_N DFTPP Injection Time: 08:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.9
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	30.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	37.5
197	Less than 2.0% of mass 198	0.4
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	29.4
365	Greater than 1% of mass 198	4.8
441	Present, but less than mass 443	9.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.8 (16.9) 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	BN035082.D	11/14/2024	10:12
PB164402BL	PB164402BL	BN035083.D	11/14/2024	10:48
PT-PAH-SOIL	P4495-13	BN035086.D	11/14/2024	13:22
PT-PAH-SOILDL	P4495-13DL	BN035087.D	11/14/2024	14:10
PB164402BS	PB164402BS	BN035094.D	11/14/2024	18:59

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/14/2024

Lab File ID: BN035082.D Time Analyzed: 10:12

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	2551	7.553	6362	10.32	5037	14.19
	UPPER LIMIT	5102	8.053	12724	10.819	10074	14.69
	LOWER LIMIT	1275.5	7.053	3181	9.819	2518.5	13.69
	EPA SAMPLE NO.						
01	PB164402BL	2707	7.55	6301	10.32	4578	14.19
02	PT-PAH-SOIL	3754	7.55	10271	10.31	7900	14.19
03	PT-PAH-SOILDL	3588	7.55	9962	10.32	7625	14.19
04	PB164402BS	2568	7.55	6459	10.32	4848	14.19

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.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/14/2024

Lab File ID: BN035082.D Time Analyzed: 10:12

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	12802	16.933	13485	21.134	14730	23.3
	UPPER LIMIT	25604	17.433	26970	21.634	29460	23.8
	LOWER LIMIT	6401	16.433	6742.5	20.634	7365	22.8
	EPA SAMPLE NO.						
01	PB164402BL	12175	16.93	12501	21.13	13990	23.30
02	PT-PAH-SOIL	19410	16.94	20657	21.14	18894	23.30
03	PT-PAH-SOILDL	18496	16.93	19193	21.13	17654	23.30
04	PB164402BS	11535	16.93	9992	21.13	9578	23.30

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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SAMPLE DATA

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-PAH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-13	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035086.D	1	10/25/24 09:50	11/14/24 13:22	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	160		0.69	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	170	E	0.80	3.30	ug/Kg
208-96-8	Acenaphthylene	77.7		0.63	3.30	ug/Kg
83-32-9	Acenaphthene	280	E	0.55	3.30	ug/Kg
86-73-7	Fluorene	120		0.60	3.30	ug/Kg
85-01-8	Phenanthrene	270	E	0.63	3.30	ug/Kg
120-12-7	Anthracene	410	E	0.79	3.30	ug/Kg
206-44-0	Fluoranthene	140		0.67	3.30	ug/Kg
129-00-0	Pyrene	180	E	0.95	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	200	E	0.76	3.30	ug/Kg
218-01-9	Chrysene	160		0.86	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	200	E	1.20	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	100		0.98	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	200	E	1.70	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	91.6		1.30	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	120		1.20	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	37.0		1.10	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.25		17 - 161	62%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		23 - 138	69%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		33 - 121	73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		32 - 121	70%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		21 - 130	81%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	3750	7.546			
1146-65-2	Naphthalene-d8	10300	10.308			
15067-26-2	Acenaphthene-d10	7900	14.186			
1517-22-2	Phenanthrene-d10	19400	16.939			
1719-03-5	Chrysene-d12	20700	21.14			

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-PAH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-13	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035086.D	1	10/25/24 09:50	11/14/24 13:22	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	18900	23.301			

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\BN111424\
Data File : BN035086.D
Acq On : 14 Nov 2024 13:22
Operator : RC/JU
Sample : P4495-13
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Quant Time: Nov 14 13:51:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

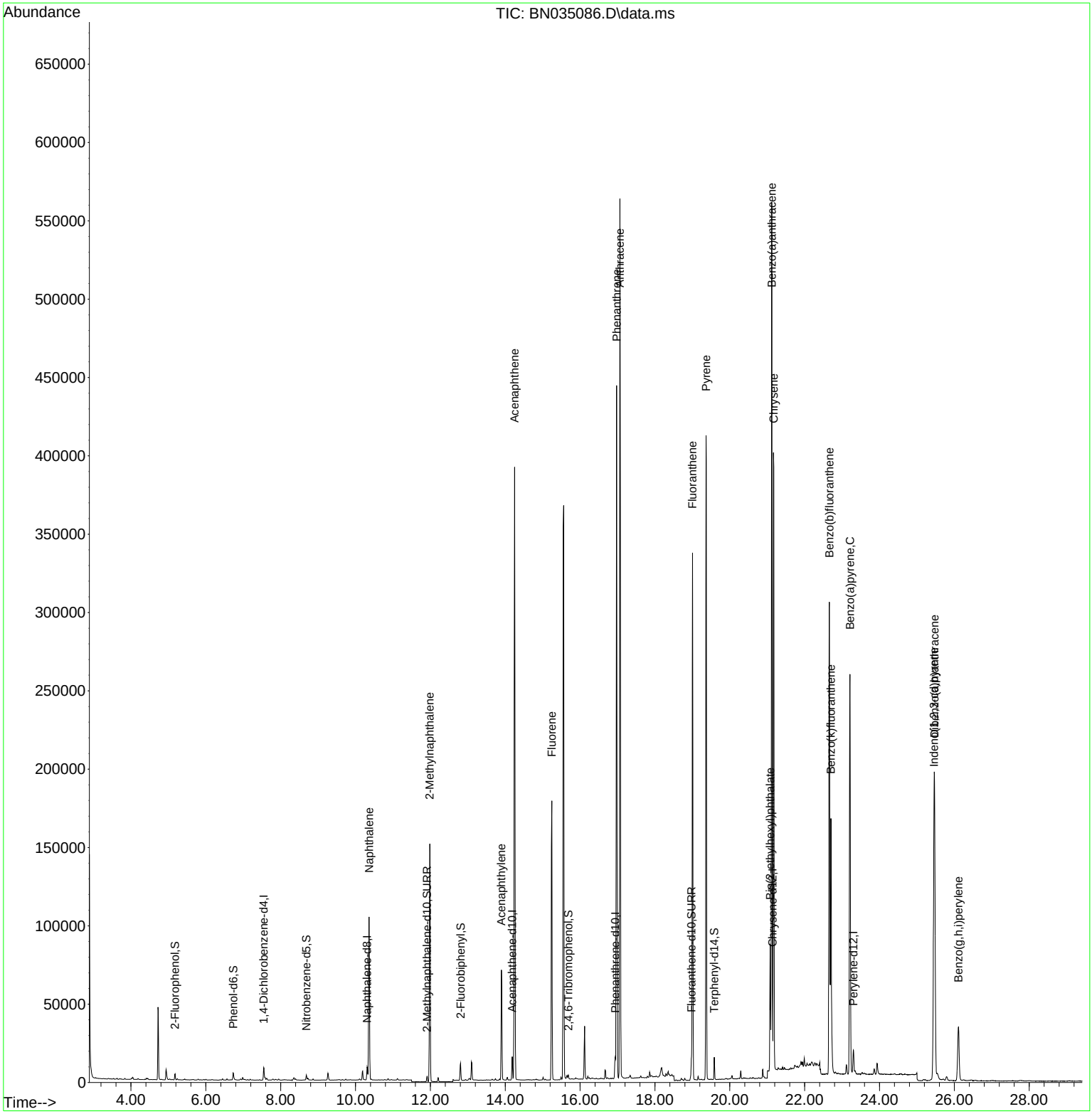
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.546	152	3754	0.400	ng		0.00
7) Naphthalene-d8	10.308	136	10271	0.400	ng		#-0.01
13) Acenaphthene-d10	14.186	164	7900	0.400	ng		0.00
19) Phenanthrene-d10	16.939	188	19410	0.400	ng		0.00
29) Chrysene-d12	21.140	240	20657	0.400	ng		# 0.00
35) Perylene-d12	23.301	264	18894	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	3074	0.323	ng		0.00
5) Phenol-d6	6.737	99	4280	0.358	ng		0.00
8) Nitrobenzene-d5	8.685	82	2617	0.293	ng		-0.01
11) 2-Methylnaphthalene-d10	11.912	152	4536	0.248	ng		0.00
14) 2,4,6-Tribromophenol	15.686	330	1323	0.232	ng		0.00
15) 2-Fluorobiphenyl	12.807	172	9035	0.282	ng		0.00
27) Fluoranthene-d10	18.976	212	16359	0.275	ng		0.00
31) Terphenyl-d14	19.584	244	13939	0.322	ng		0.00
Target Compounds							Qvalue
9) Naphthalene	10.362	128	127058	4.738	ng		97
12) 2-Methylnaphthalene	11.984	142	101061	5.108	ng		99
16) Acenaphthylene	13.898	152	78653	2.330	ng		100
17) Acenaphthene	14.250	154	187057	8.454	ng		98
18) Fluorene	15.245	166	112723	3.463	ng		99
25) Phenanthrene	16.977	178	410639	8.039	ng		99
26) Anthracene	17.064	178	572114	12.194	ng		99
28) Fluoranthene	19.004	202	290131	4.130	ng		100
30) Pyrene	19.366	202	361798	5.259	ng		100
32) Benzo(a)anthracene	21.122	228	427505	5.943	ng		100
33) Chrysene	21.176	228	337891	4.742	ng		99
34) Bis(2-ethylhexyl)phtha...	21.077	149	66373	1.759	ng		98
36) Indeno(1,2,3-cd)pyrene	25.455	276	207176	2.749	ng		99
37) Benzo(b)fluoranthene	22.660	252	388820	6.116	ng		96
38) Benzo(k)fluoranthene	22.701	252	191270	3.007	ng		96
39) Benzo(a)pyrene	23.210	252	339348	6.067	ng	#	94
40) Dibenzo(a,h)anthracene	25.470	278	216242	3.621	ng		99
41) Benzo(g,h,i)perylene	26.110	276	70521	1.110	ng		98

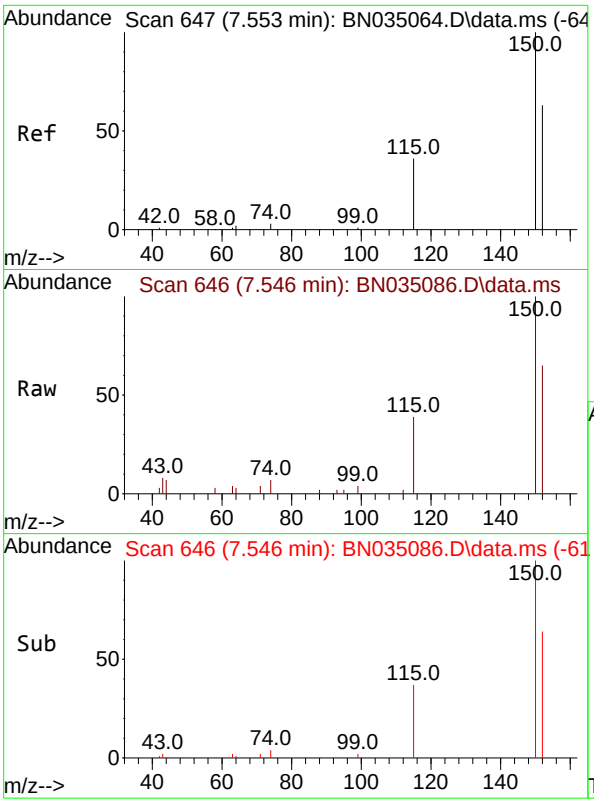
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035086.D
Acq On : 14 Nov 2024 13:22
Operator : RC/JU
Sample : P4495-13
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Quant Time: Nov 14 13:51:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration



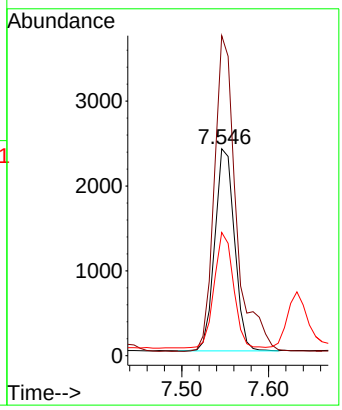


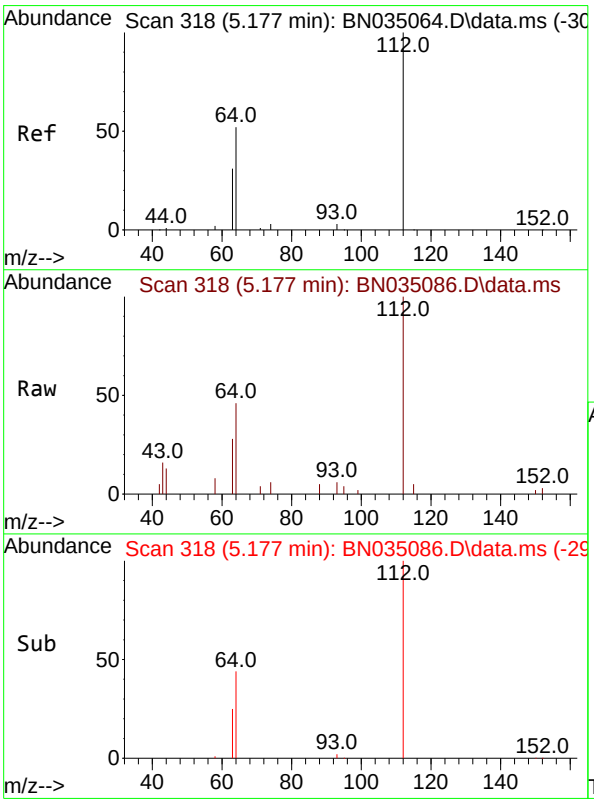
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.546 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:152 Resp: 3754

Ion	Ratio	Lower	Upper
152	100		
150	154.7	124.5	186.7
115	59.6	47.8	71.6

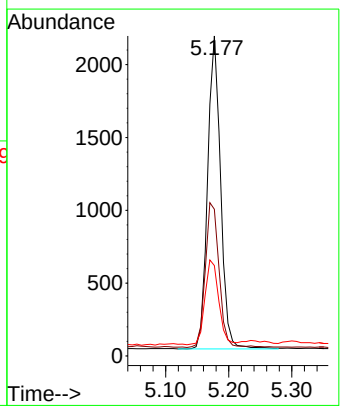


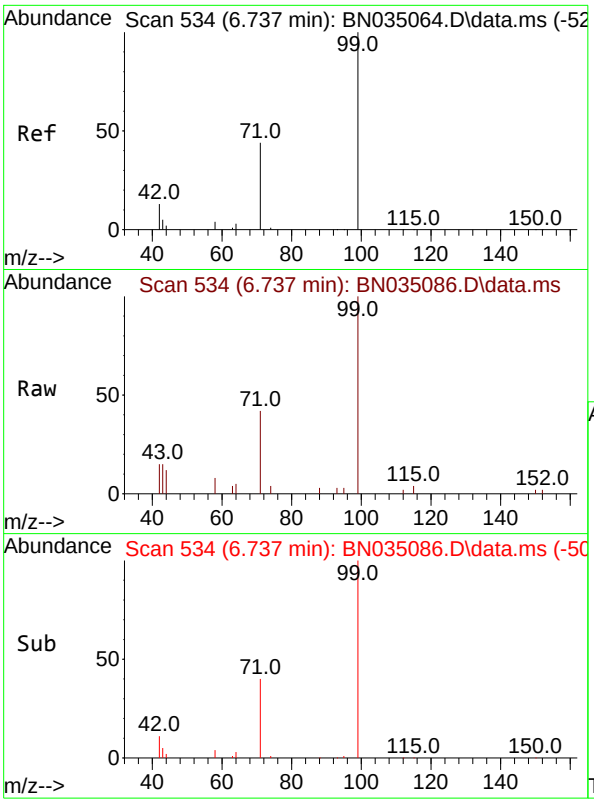


#4
2-Fluorophenol
Concen: 0.323 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:112 Resp: 3074

Ion	Ratio	Lower	Upper
112	100		
64	48.8	39.7	59.5
63	28.7	23.0	34.4



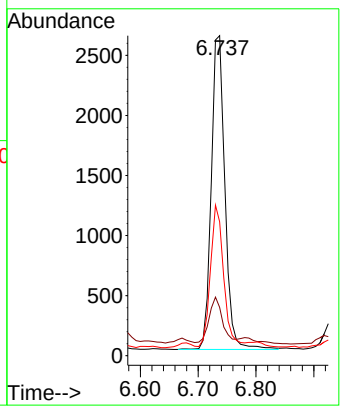


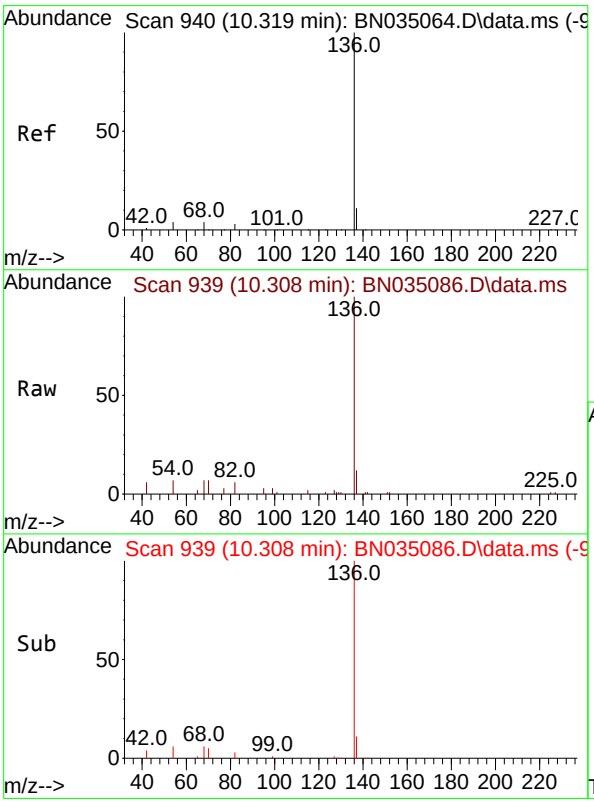
#5
Phenol-d6
Concen: 0.358 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion: 99 Resp: 4280

Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.0
71	43.2	34.6	51.8

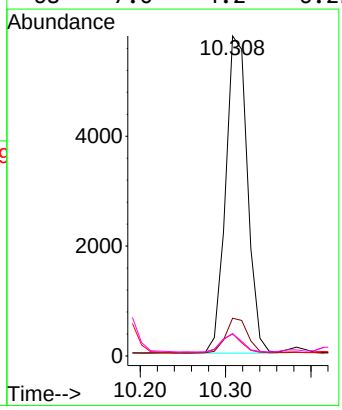


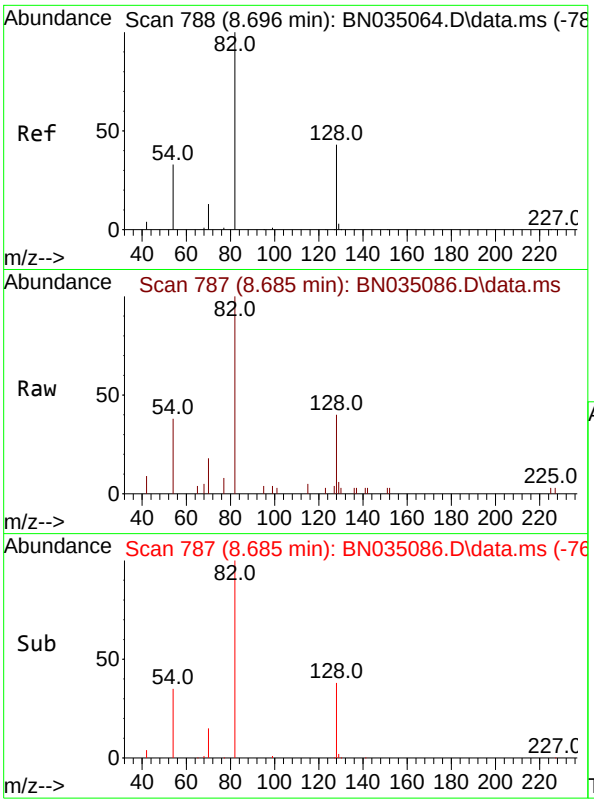


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.308 min Scan# 939
Delta R.T. -0.011 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:136 Resp: 10271

Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.8	14.8
54	7.0	4.0	6.0#
68	7.0	4.2	6.2#



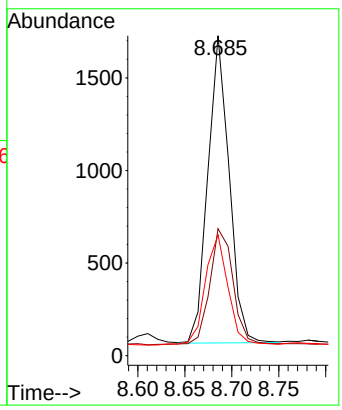


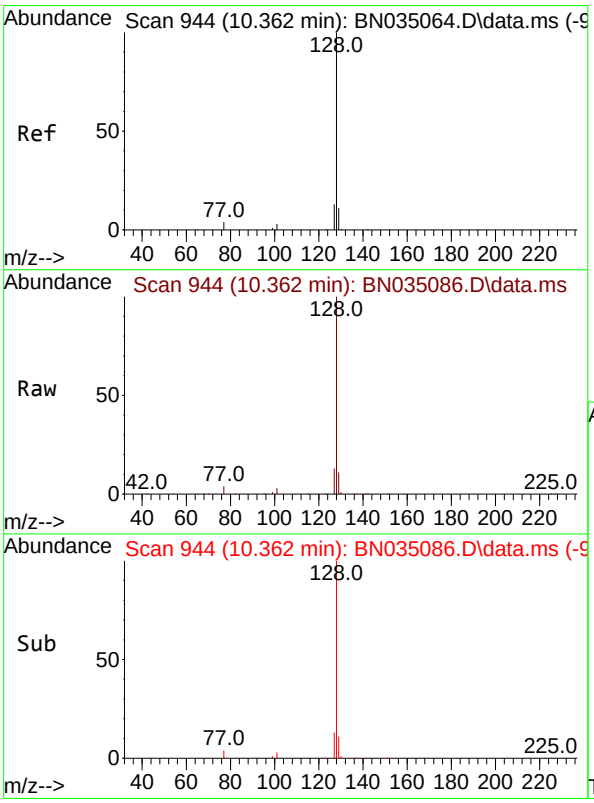
#8
Nitrobenzene-d5
Concen: 0.293 ng
RT: 8.685 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion: 82 Resp: 2617

Ion	Ratio	Lower	Upper
82	100		
128	39.7	36.5	54.7
54	37.7	28.7	43.1

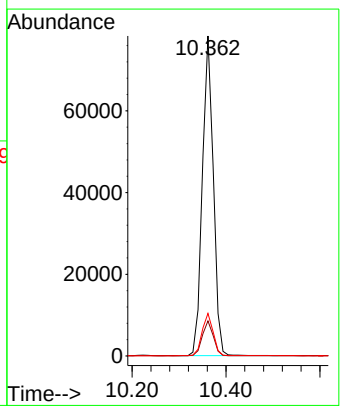


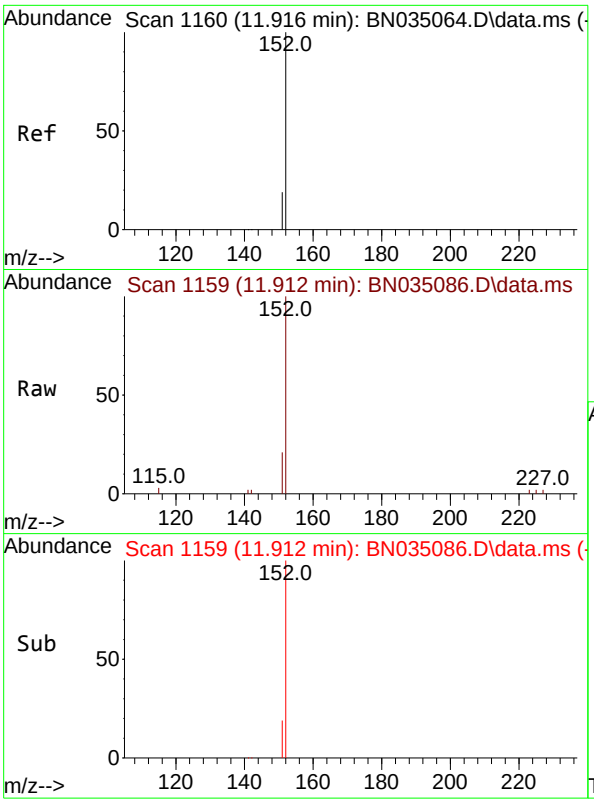


#9
Naphthalene
Concen: 4.738 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:128 Resp: 127058

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.6	14.4
127	13.3	11.6	17.4



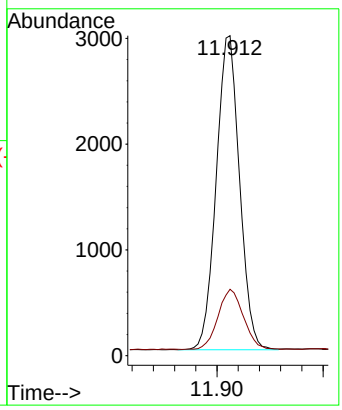


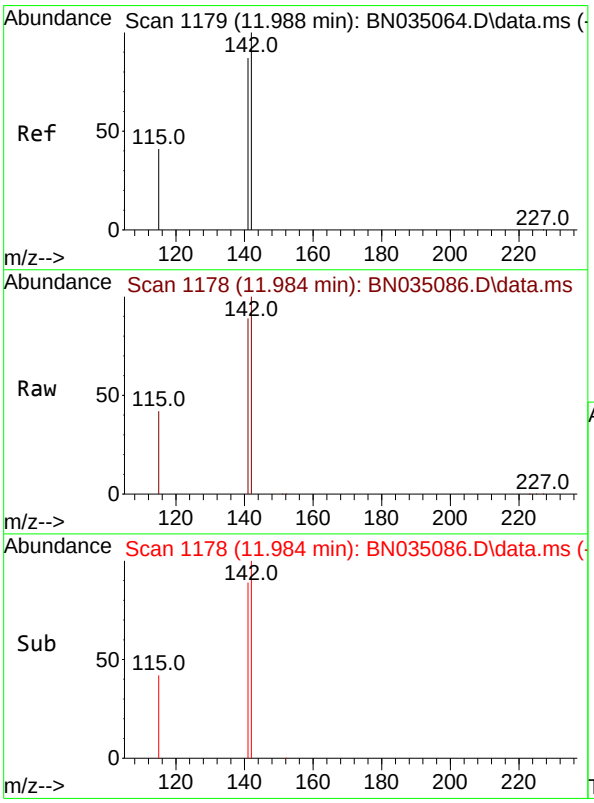
#11
2-Methylnaphthalene-d10
Concen: 0.248 ng
RT: 11.912 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:152 Resp: 4536

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.2	24.4

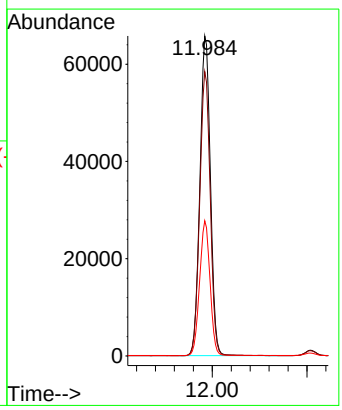


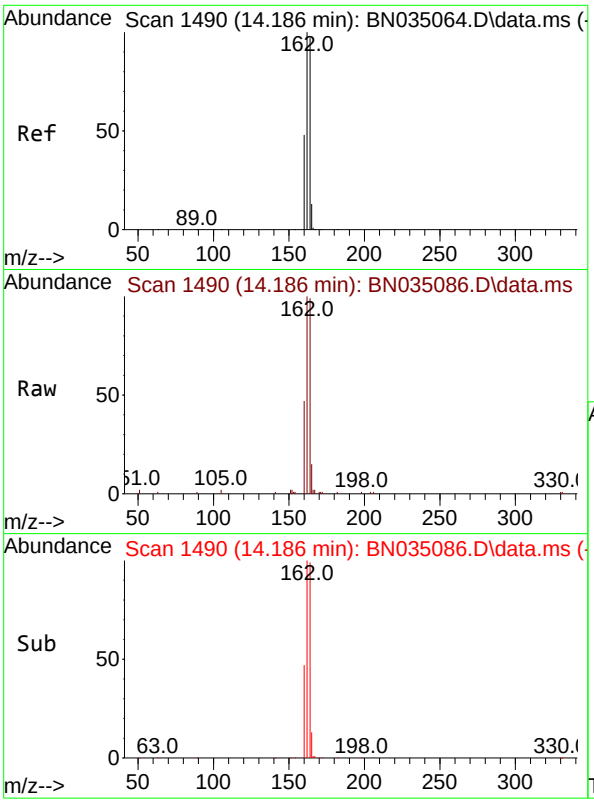


#12
2-Methylnaphthalene
Concen: 5.108 ng
RT: 11.984 min Scan# 1178
Delta R.T. -0.004 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:142 Resp: 101061

Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.1	105.1
115	42.2	34.4	51.6



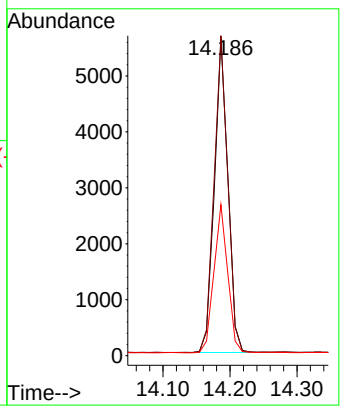


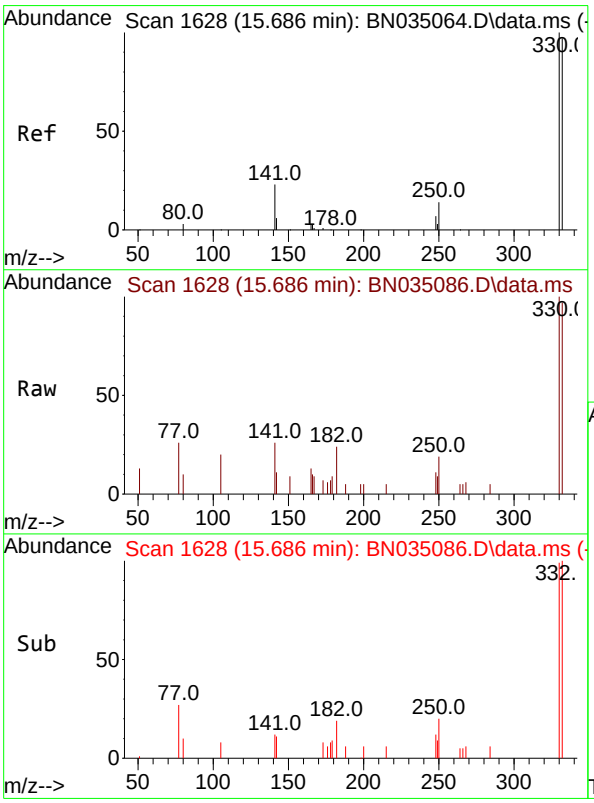
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:164 Resp: 7900

Ion	Ratio	Lower	Upper
164	100		
162	100.8	82.2	123.2
160	47.6	40.2	60.4

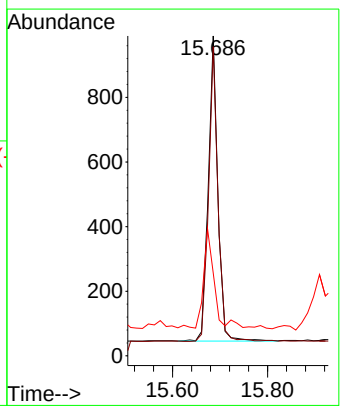


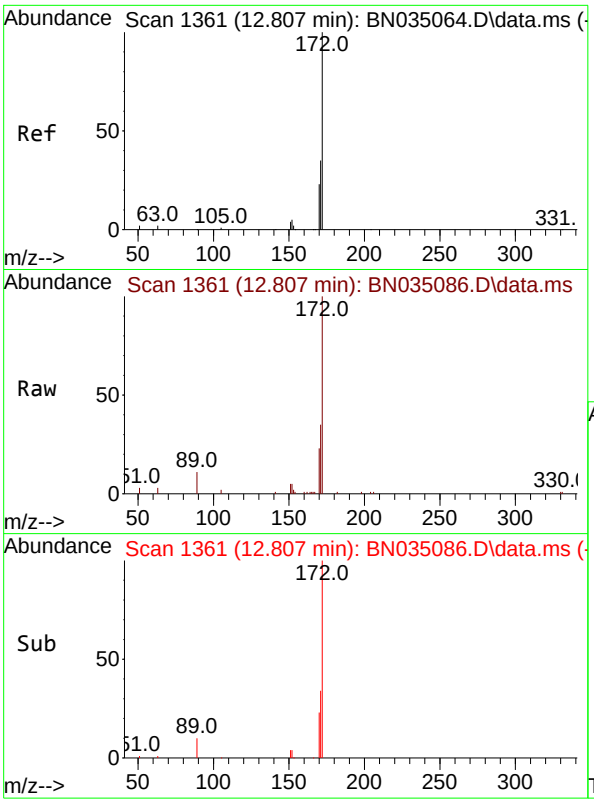


#14
2,4,6-Tribromophenol
Concen: 0.232 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:330 Resp: 1323

Ion	Ratio	Lower	Upper
330	100		
332	94.7	76.9	115.3
141	32.1	29.6	44.4



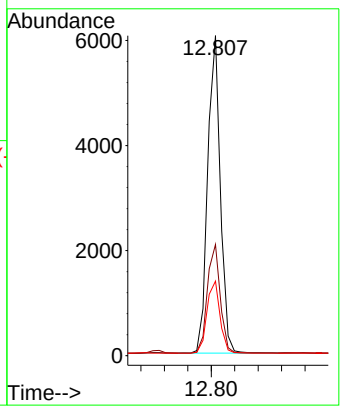


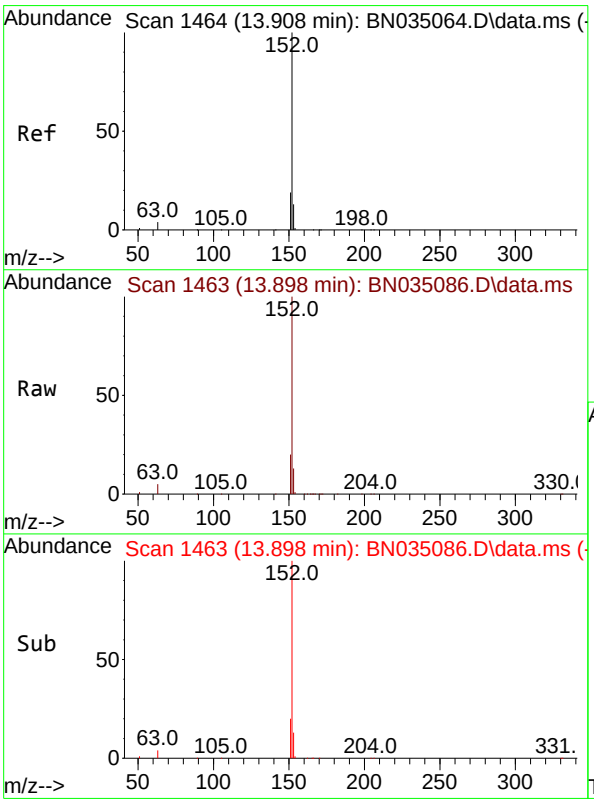
#15
2-Fluorobiphenyl
Concen: 0.282 ng
RT: 12.807 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:172 Resp: 9035

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.2	42.4
170	23.3	19.0	28.6

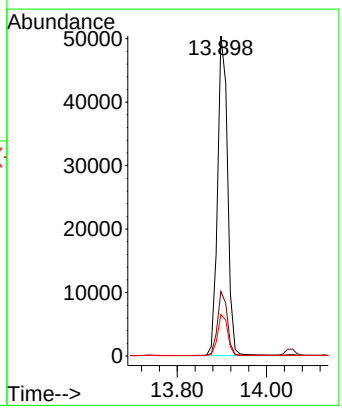


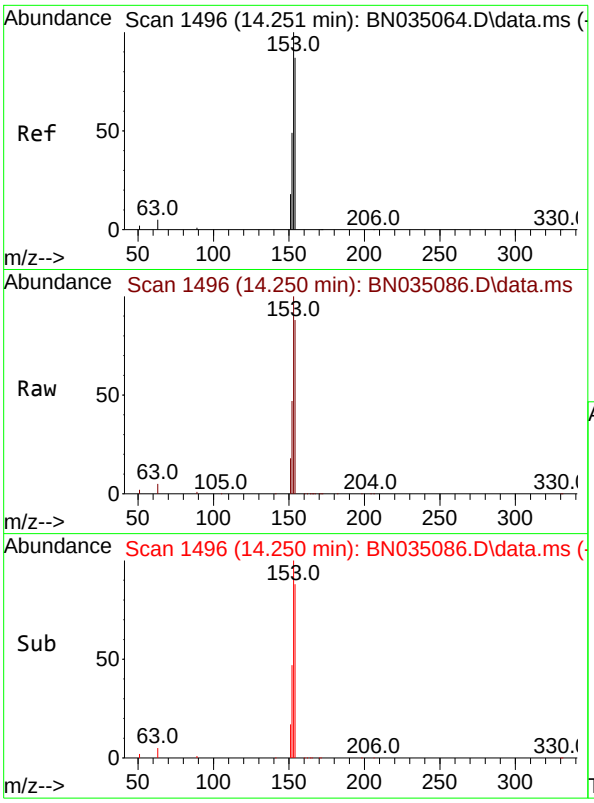


#16
Acenaphthylene
Concen: 2.330 ng
RT: 13.898 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:152 Resp: 78653

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	13.1	10.2	15.4



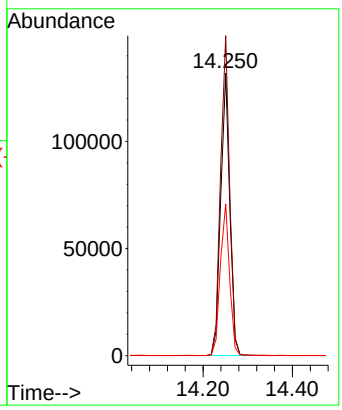


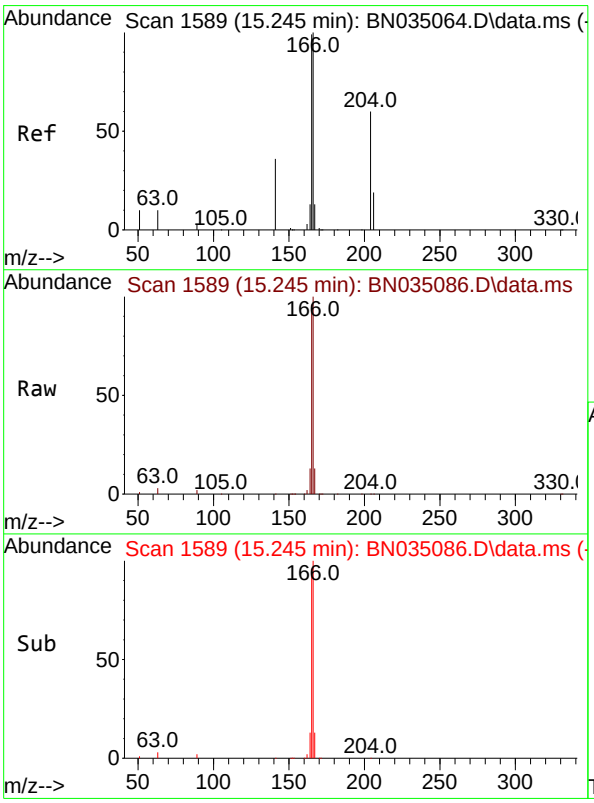
#17
Acenaphthene
Concen: 8.454 ng
RT: 14.250 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:154 Resp: 187057

Ion	Ratio	Lower	Upper
154	100		
153	113.7	91.6	137.4
152	54.9	45.8	68.6

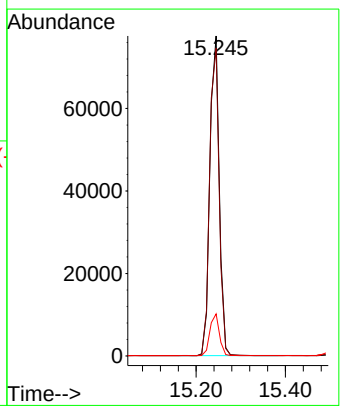


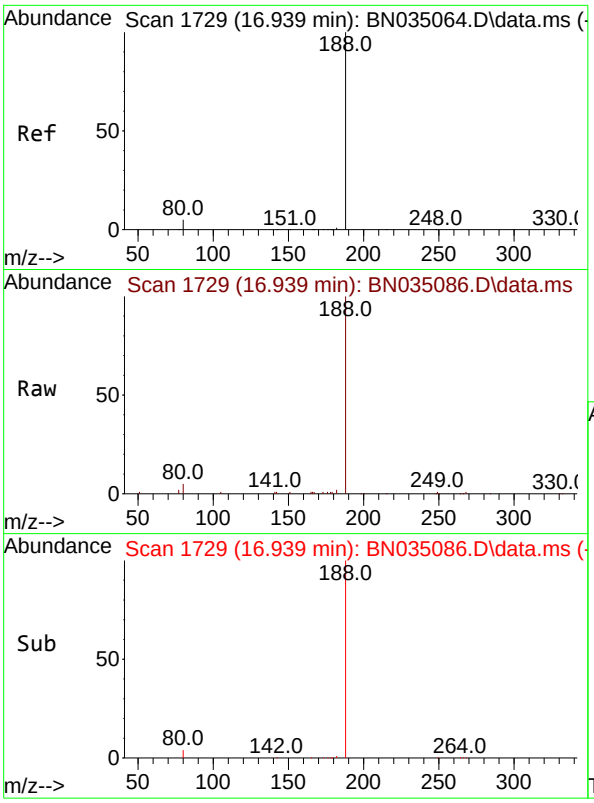


#18
Fluorene
Concen: 3.463 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:166 Resp: 112723

Ion	Ratio	Lower	Upper
166	100		
165	98.1	79.1	118.7
167	13.2	10.6	16.0



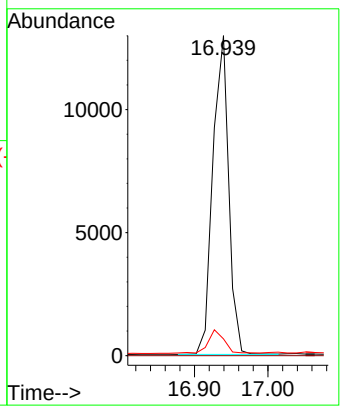


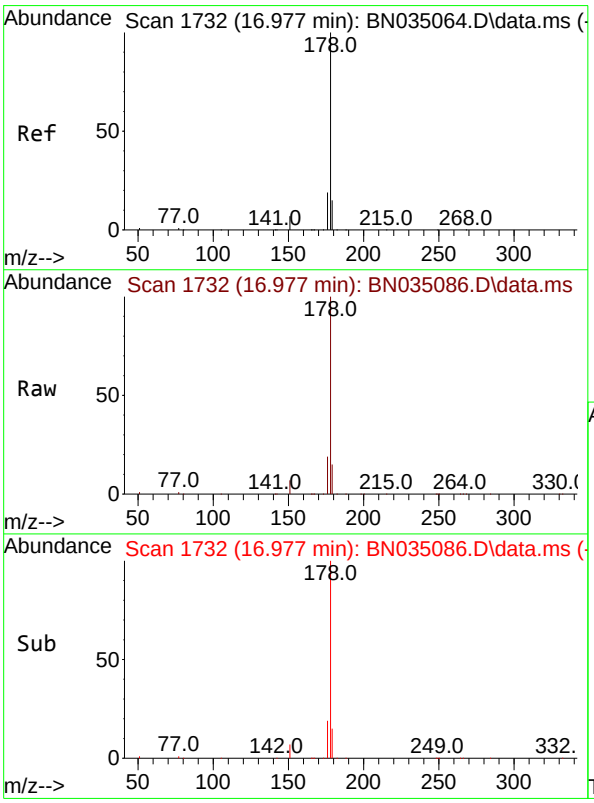
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:188 Resp: 19410

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.3	4.3	6.5

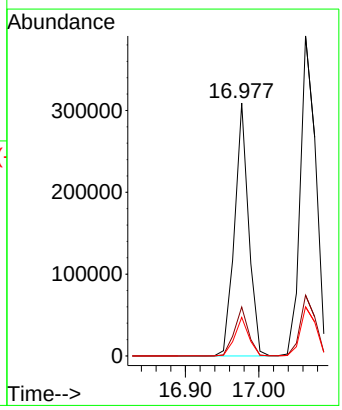


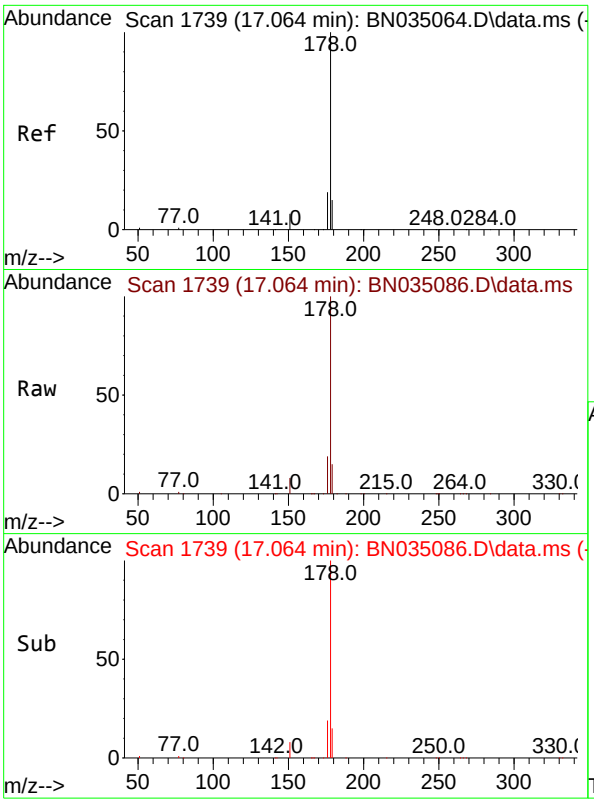


#25
Phenanthrene
Concen: 8.039 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:178 Resp: 410639

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.3	12.6	18.8



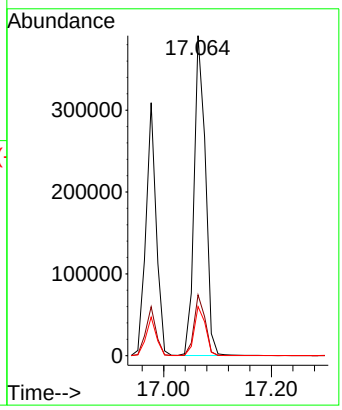


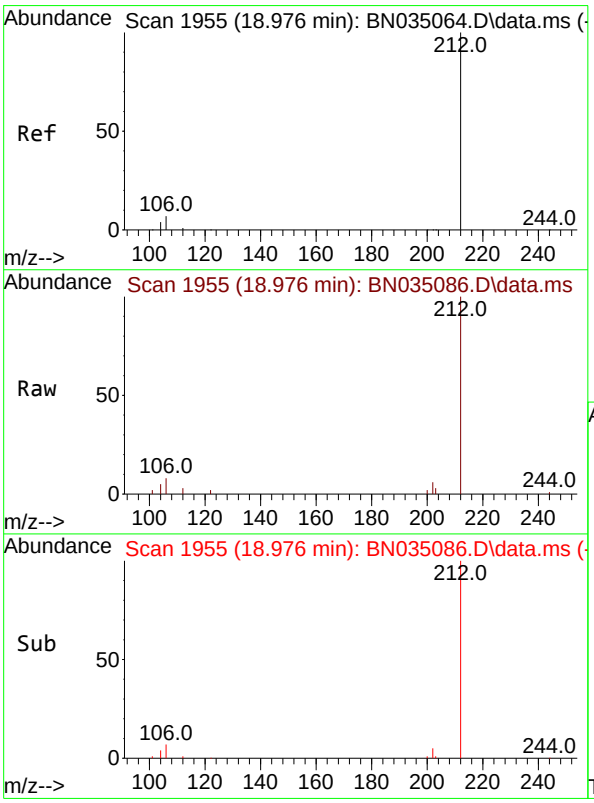
#26
Anthracene
Concen: 12.194 ng
RT: 17.064 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:178 Resp: 572114

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.3	12.2	18.2

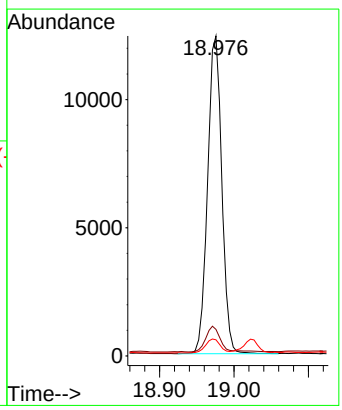


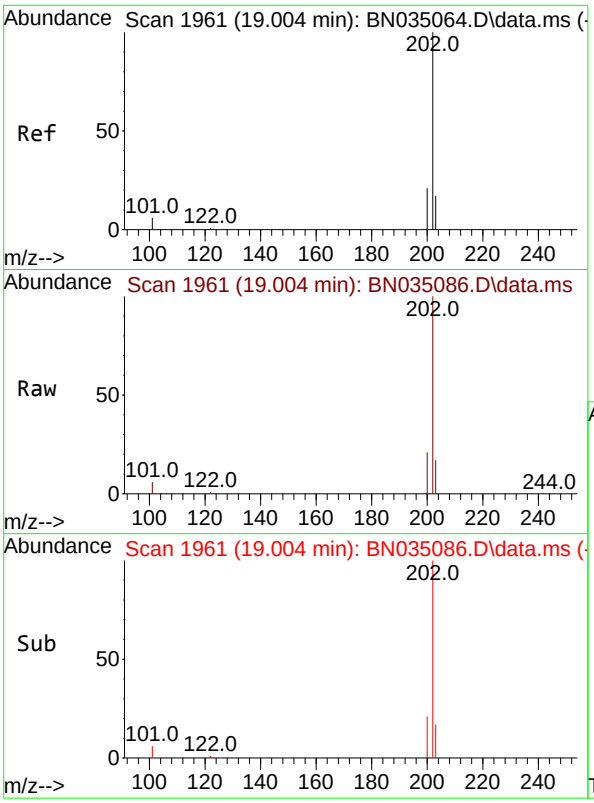


#27
Fluoranthene-d10
Concen: 0.275 ng
RT: 18.976 min Scan# 1955
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:212 Resp: 16359

Ion	Ratio	Lower	Upper
212	100		
106	8.5	6.0	9.0
104	4.6	3.5	5.3



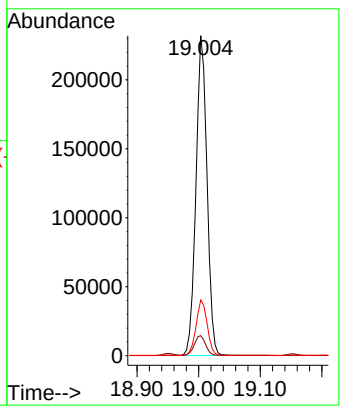


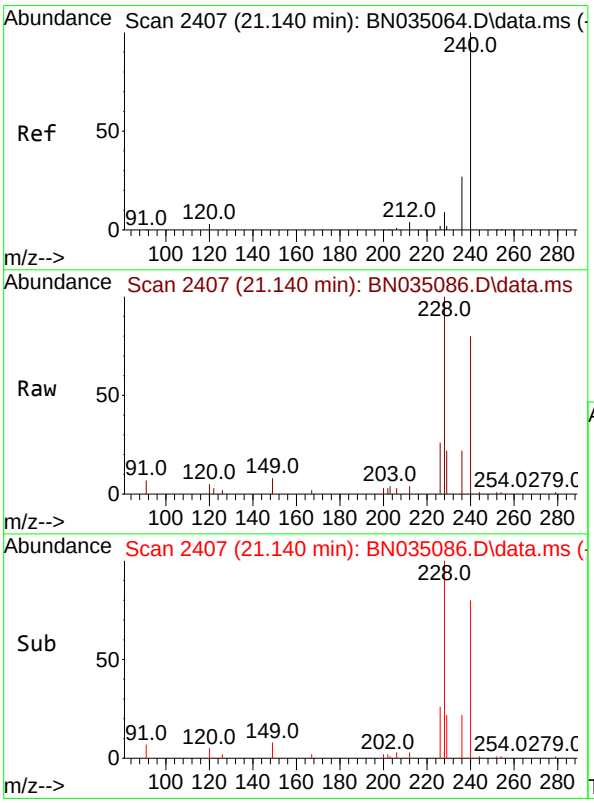
#28
Fluoranthene
Concen: 4.130 ng
RT: 19.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:202 Resp: 290131

Ion	Ratio	Lower	Upper
202	100		
101	6.5	5.2	7.8
203	17.3	13.8	20.8

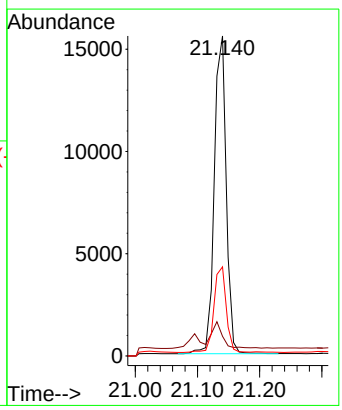


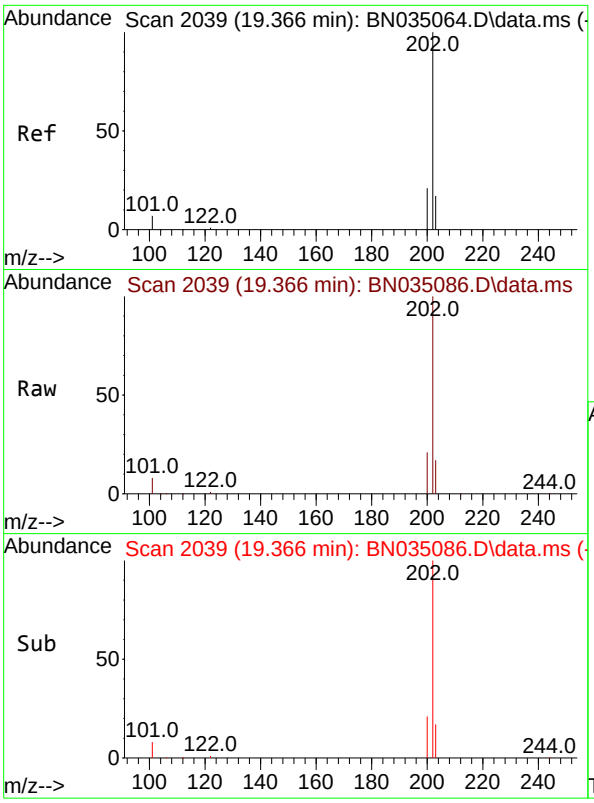


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.140 min Scan# 2407
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:240 Resp: 20657

Ion	Ratio	Lower	Upper
240	100		
120	6.1	3.8	5.6#
236	27.9	22.2	33.2



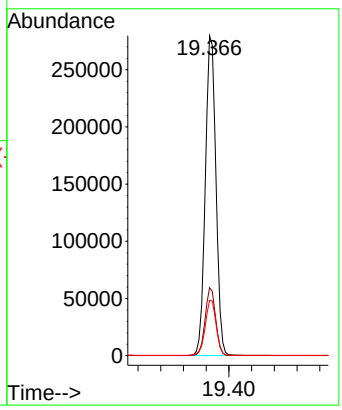


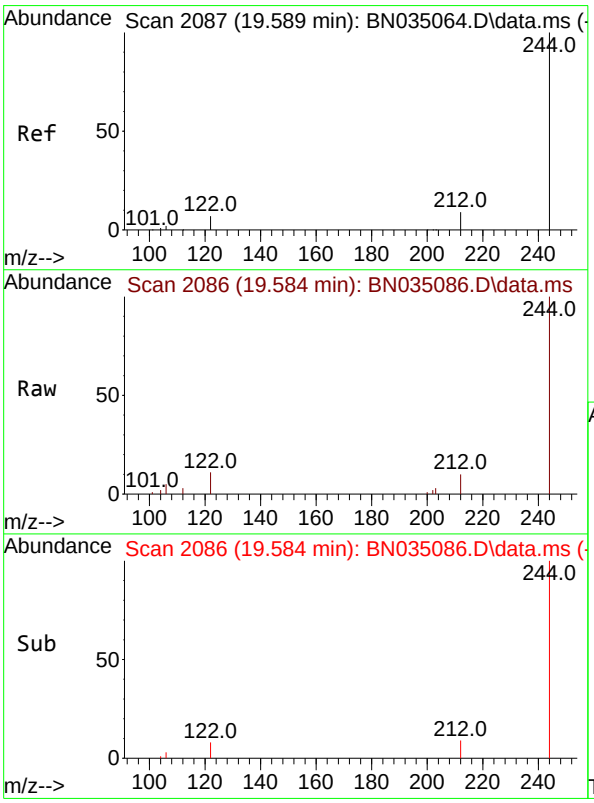
#30
Pyrene
Concen: 5.259 ng
RT: 19.366 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:202 Resp: 361798

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4

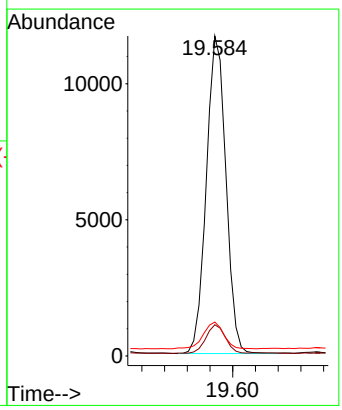


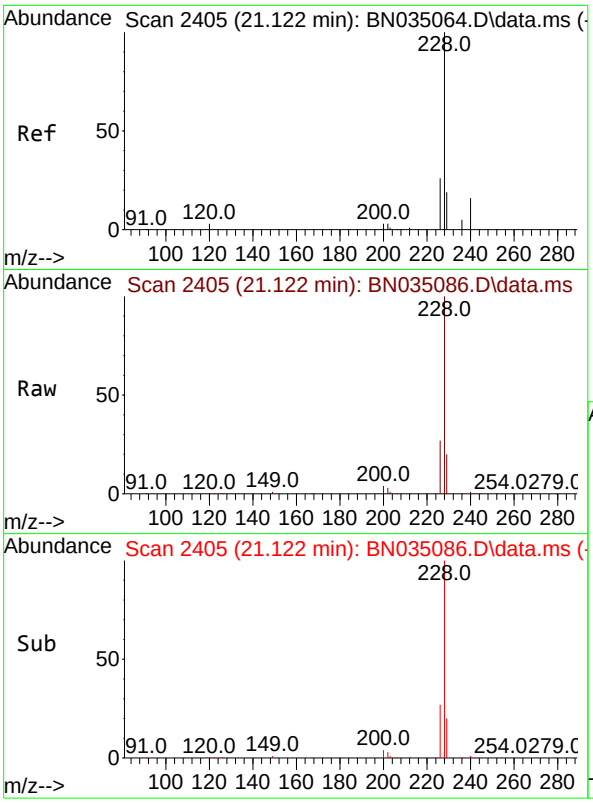


#31
Terphenyl-d14
Concen: 0.322 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:244 Resp: 13939

Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.6	11.4
122	10.6	6.1	9.1#



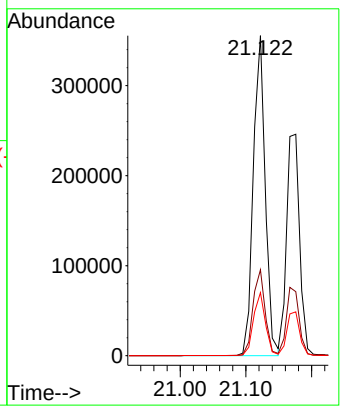


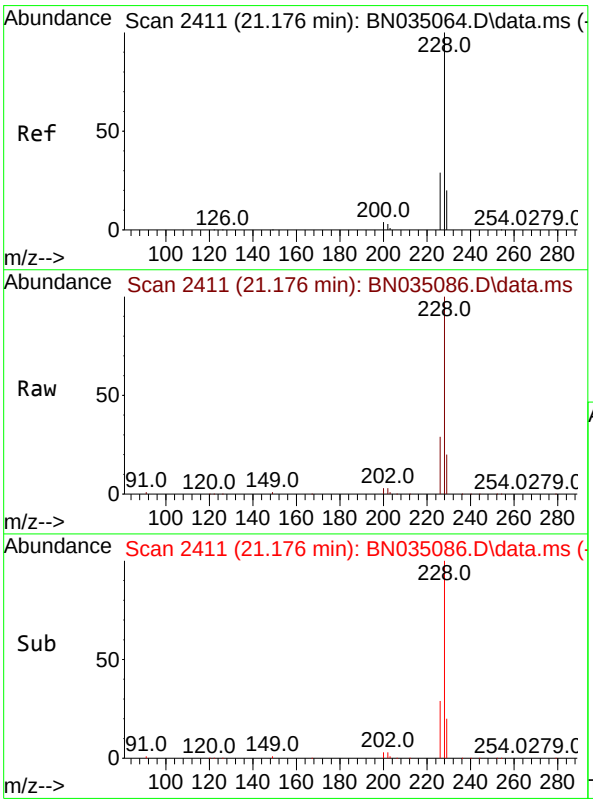
#32
Benzo(a)anthracene
Concen: 5.943 ng
RT: 21.122 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:228 Resp: 427505

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.4	32.0
229	19.7	15.7	23.5

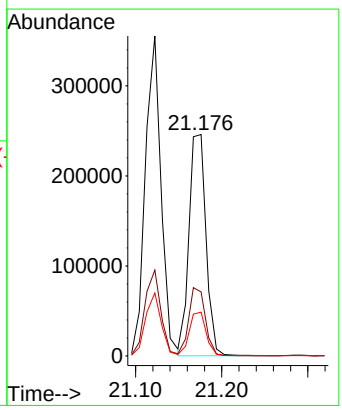


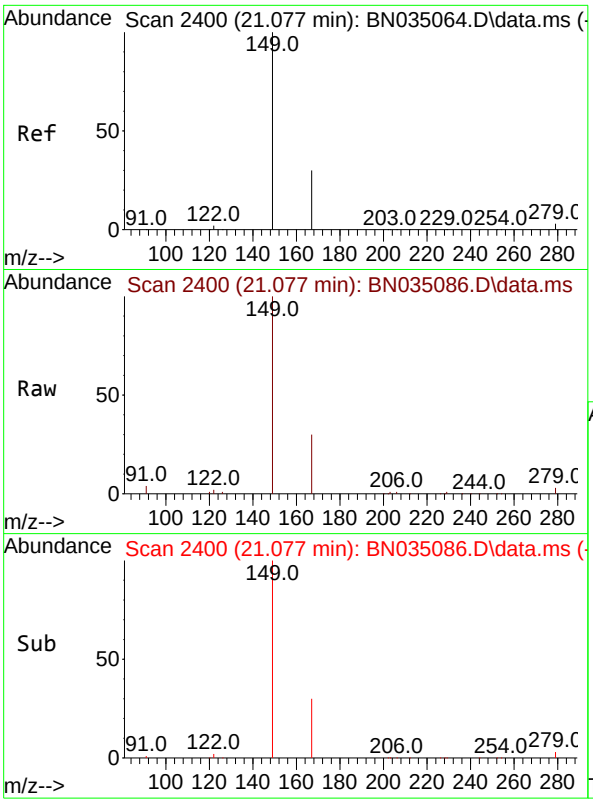


#33
Chrysene
Concen: 4.742 ng
RT: 21.176 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:228 Resp: 337891

Ion	Ratio	Lower	Upper
228	100		
226	28.9	23.7	35.5
229	19.8	16.2	24.4



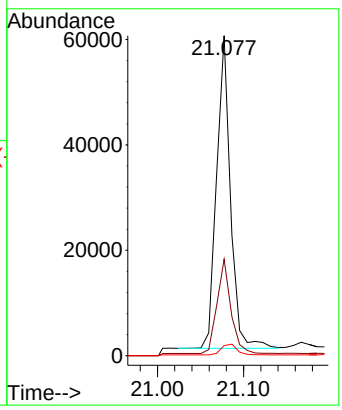


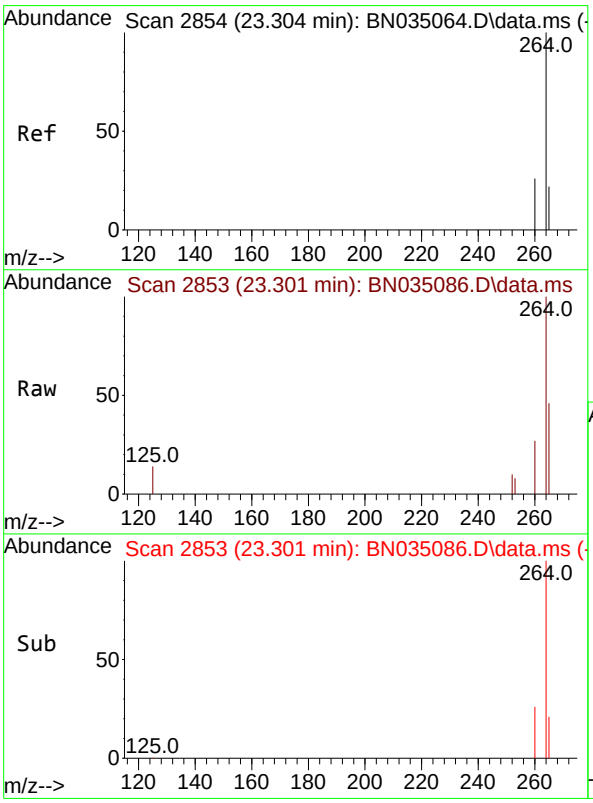
#34
Bis(2-ethylhexyl)phthalate
Concen: 1.759 ng
RT: 21.077 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:149 Resp: 66373

Ion	Ratio	Lower	Upper
149	100		
167	29.9	23.2	34.8
279	3.9	3.2	4.8

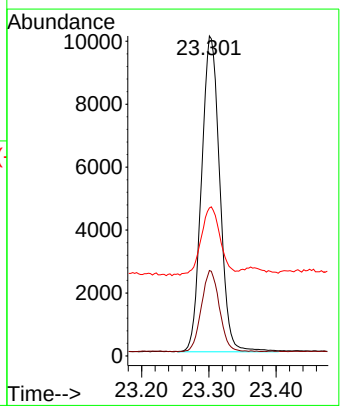


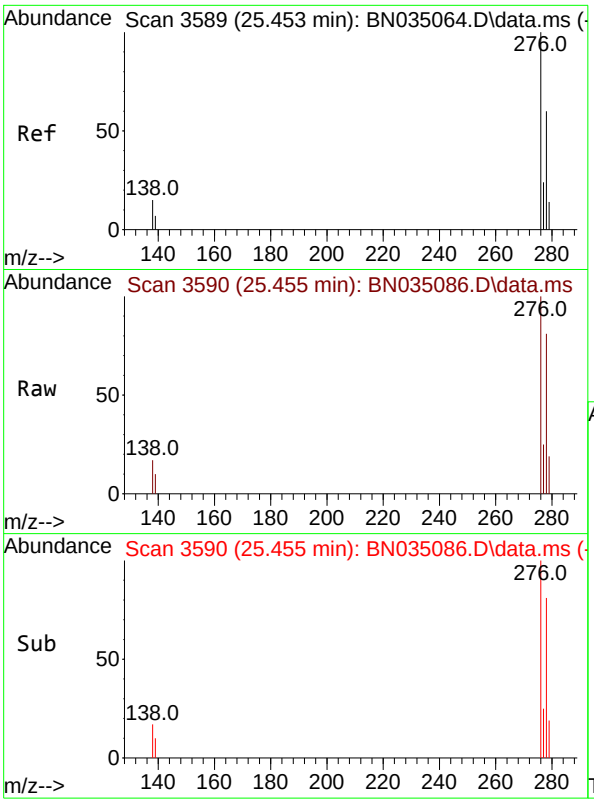


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.301 min Scan# 2853
Delta R.T. -0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:264 Resp: 18894

Ion	Ratio	Lower	Upper
264	100		
260	26.7	20.9	31.3
265	46.3	35.4	53.2



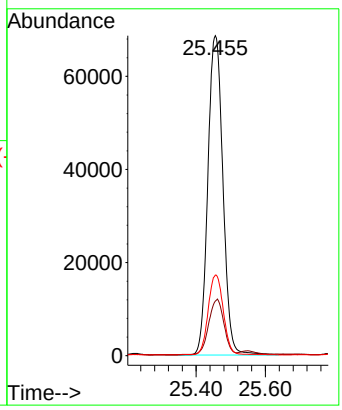


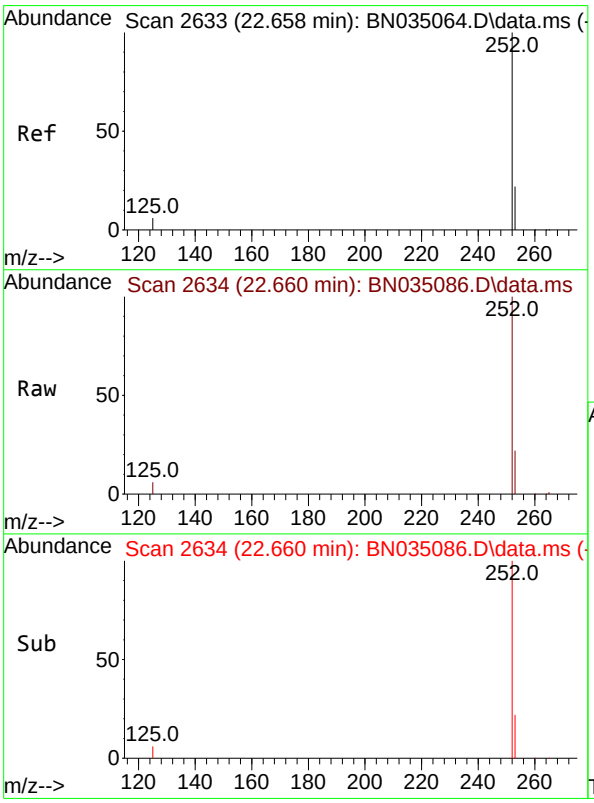
#36
Indeno(1,2,3-cd)pyrene
Concen: 2.749 ng
RT: 25.455 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:276 Resp: 207176

Ion	Ratio	Lower	Upper
276	100		
138	17.3	13.0	19.4
277	24.9	19.8	29.6

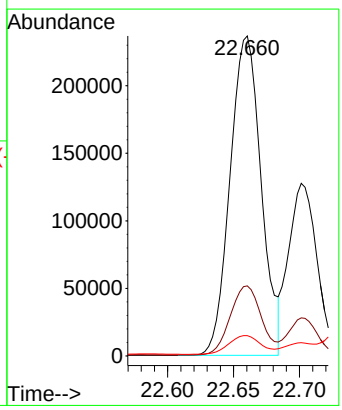


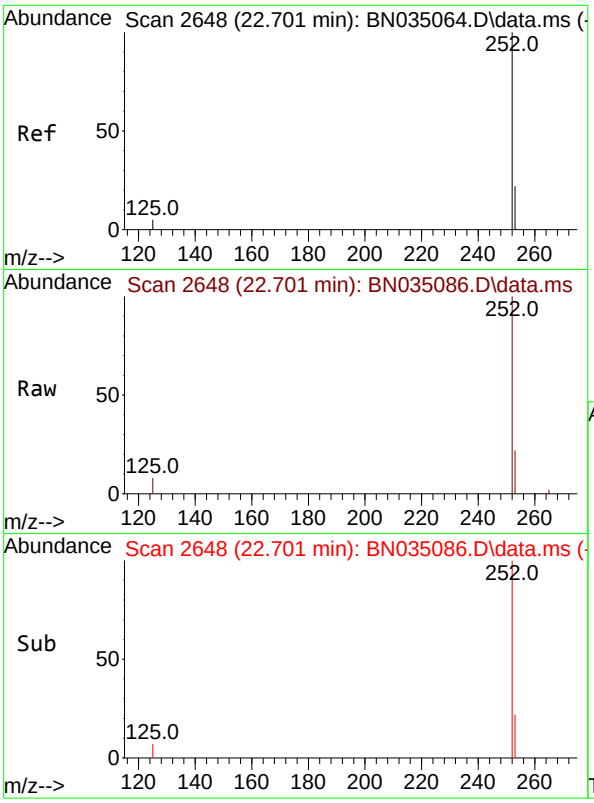


#37
Benzo(b)fluoranthene
Concen: 6.116 ng
RT: 22.660 min Scan# 2634
Delta R.T. 0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:252 Resp: 388820

Ion	Ratio	Lower	Upper
252	100		
253	21.9	19.3	28.9
125	6.4	6.2	9.2



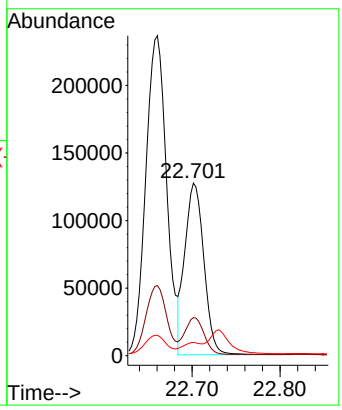


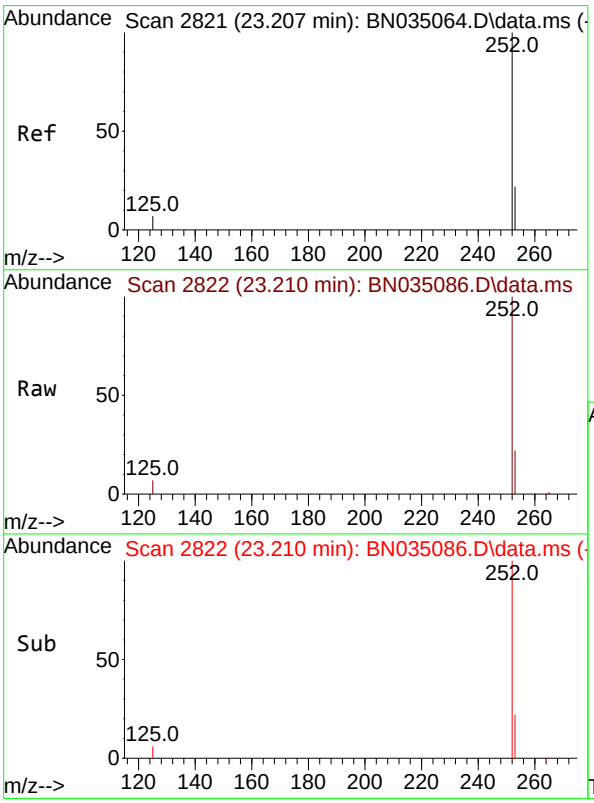
#38
Benzo(k)fluoranthene
Concen: 3.007 ng
RT: 22.701 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:252 Resp: 191270

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.5	29.3
125	7.7	6.5	9.7

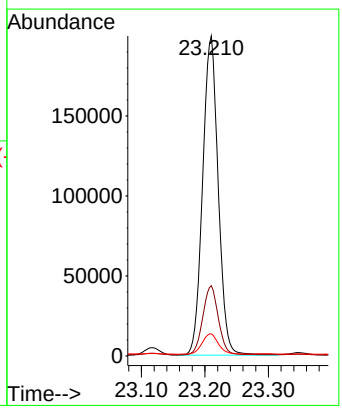


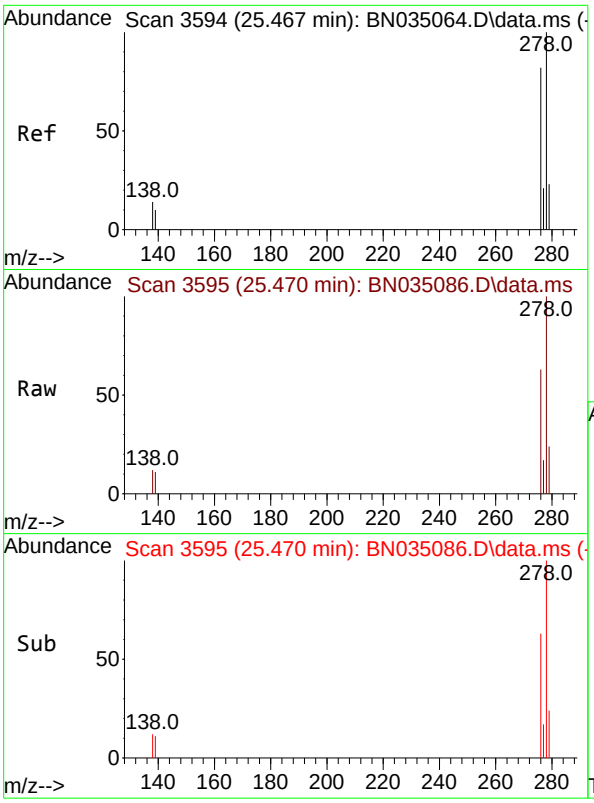


#39
Benzo(a)pyrene
Concen: 6.067 ng
RT: 23.210 min Scan# 2822
Delta R.T. 0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:252 Resp: 339348

Ion	Ratio	Lower	Upper
252	100		
253	22.0	20.1	30.1
125	6.9	7.5	11.3#



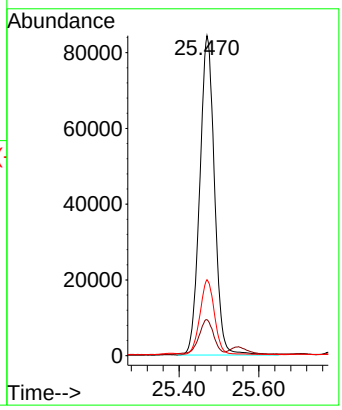


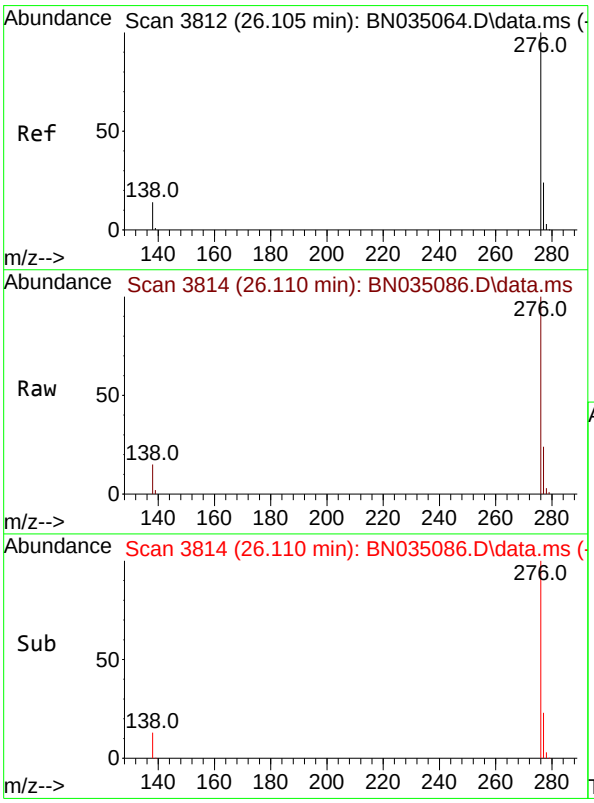
#40
Dibenzo(a,h)anthracene
Concen: 3.621 ng
RT: 25.470 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

Tgt Ion:278 Resp: 216242

Ion	Ratio	Lower	Upper
278	100		
139	11.2	9.3	13.9
279	23.8	19.7	29.5

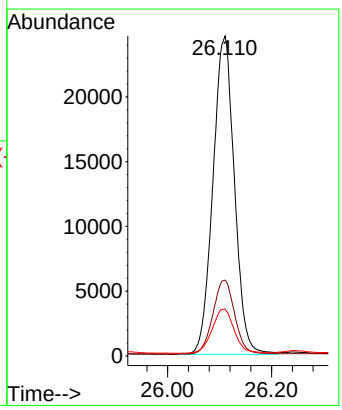




#41
Benzo(g,h,i)perylene
Concen: 1.110 ng
RT: 26.110 min Scan# 3814
Delta R.T. 0.006 min
Lab File: BN035086.D
Acq: 14 Nov 2024 13:22

Tgt Ion:276 Resp: 70521

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.9	29.9
138	14.7	11.6	17.4



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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-PAH-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-13DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035087.D	5	10/25/24 09:50	11/14/24 14:10	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	170	D	3.50	16.5	ug/Kg
91-57-6	2-Methylnaphthalene	180	D	4.00	16.5	ug/Kg
208-96-8	Acenaphthylene	80.8	D	3.20	16.5	ug/Kg
83-32-9	Acenaphthene	300	D	2.80	16.5	ug/Kg
86-73-7	Fluorene	120	D	3.00	16.5	ug/Kg
85-01-8	Phenanthrene	290	D	3.20	16.5	ug/Kg
120-12-7	Anthracene	430	D	4.00	16.5	ug/Kg
206-44-0	Fluoranthene	150	D	3.40	16.5	ug/Kg
129-00-0	Pyrene	190	D	4.80	16.5	ug/Kg
56-55-3	Benzo(a)anthracene	220	D	3.80	16.5	ug/Kg
218-01-9	Chrysene	180	D	4.30	16.5	ug/Kg
205-99-2	Benzo(b)fluoranthene	220	D	6.00	16.5	ug/Kg
207-08-9	Benzo(k)fluoranthene	110	D	4.90	16.5	ug/Kg
50-32-8	Benzo(a)pyrene	220	D	8.30	16.5	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	D	6.30	16.5	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	D	5.90	16.5	ug/Kg
191-24-2	Benzo(g,h,i)perylene	40.8	D	5.70	16.5	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.27		17 - 161	66%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		23 - 138	72%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		33 - 121	83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		32 - 121	77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		21 - 130	94%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	3590	7.553			
1146-65-2	Naphthalene-d8	9960	10.319			
15067-26-2	Acenaphthene-d10	7630	14.19			
1517-22-2	Phenanthrene-d10	18500	16.932			
1719-03-5	Chrysene-d12	19200	21.133			

Raw Data: **BN035087.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-PAH-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-13DL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035087.D	5	10/25/24 09:50	11/14/24 14:10	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	17700	23.303			

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\BN111424\
Data File : BN035087.D
Acq On : 14 Nov 2024 14:10
Operator : RC/JU
Sample : P4495-13DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Quant Time: Nov 14 14:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

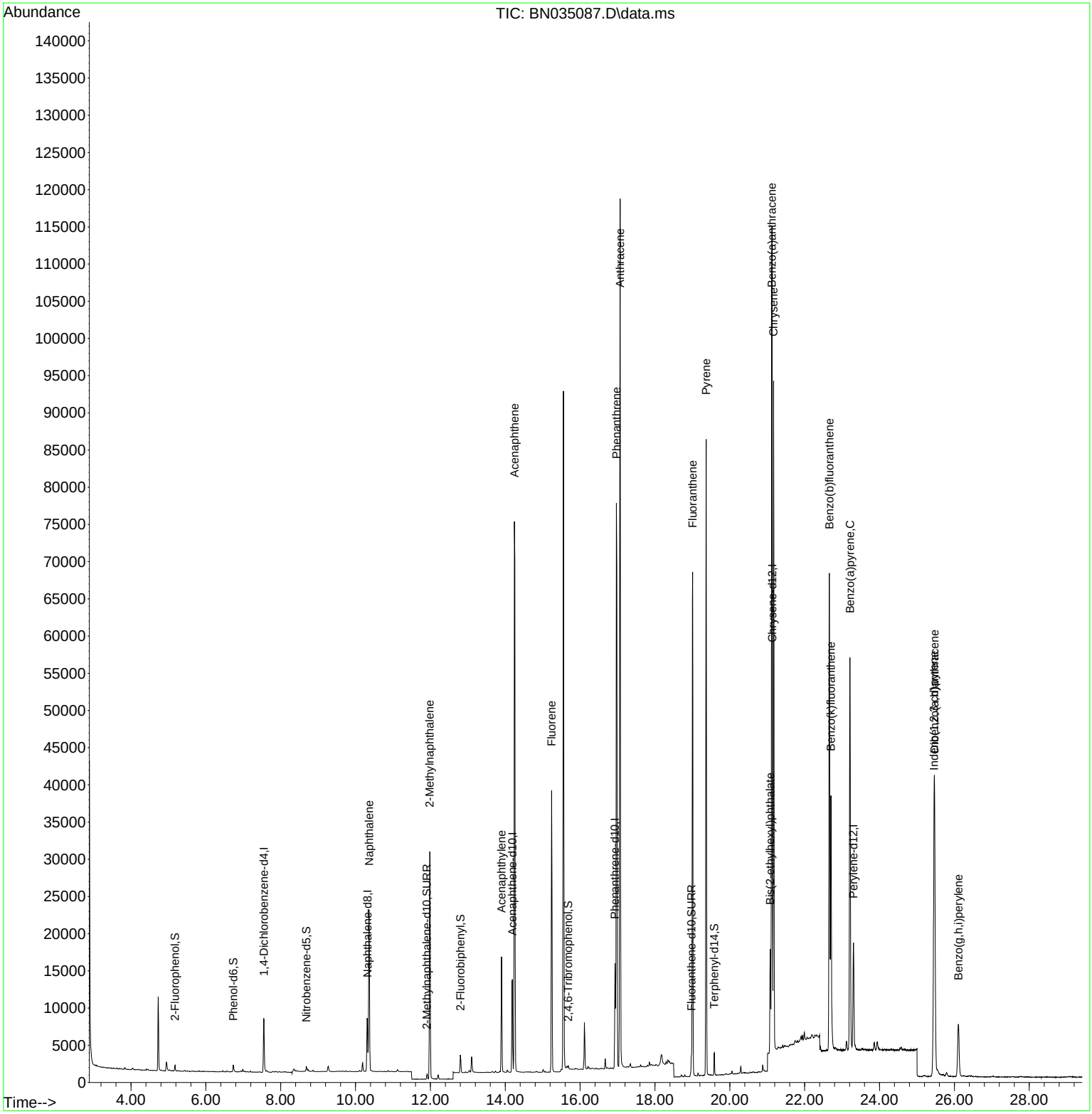
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3588	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	9962	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	7625	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	18496	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	19193	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	17654	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	623	0.068	ng	0.00
5) Phenol-d6	6.737	99	858	0.075	ng	0.00
8) Nitrobenzene-d5	8.685	82	574	0.066	ng	-0.01
11) 2-Methylnaphthalene-d10	11.908	152	948	0.053	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	267	0.049	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	1933	0.062	ng	0.00
27) Fluoranthene-d10	18.973	212	3297	0.058	ng	0.00
31) Terphenyl-d14	19.587	244	3039	0.075	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.361	128	26813	1.031	ng	98
12) 2-Methylnaphthalene	11.984	142	20979	1.093	ng	98
16) Acenaphthylene	13.901	152	15792	0.485	ng	99
17) Acenaphthene	14.243	154	39032	1.828	ng	100
18) Fluorene	15.238	166	23114	0.736	ng	100
25) Phenanthrene	16.970	178	85839	1.764	ng	99
26) Anthracene	17.069	178	116295	2.601	ng	100
28) Fluoranthene	19.006	202	59098	0.883	ng	100
30) Pyrene	19.368	202	74314	1.163	ng	100
32) Benzo(a)anthracene	21.125	228	90123	1.349	ng	100
33) Chrysene	21.169	228	70164	1.060	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	12480	0.356	ng	98
36) Indeno(1,2,3-cd)pyrene	25.455	276	42313	0.601	ng	99
37) Benzo(b)fluoranthene	22.660	252	80139	1.349	ng	97
38) Benzo(k)fluoranthene	22.701	252	40922	0.689	ng	98
39) Benzo(a)pyrene	23.209	252	69681	1.333	ng	95
40) Dibenzo(a,h)anthracene	25.472	278	44339	0.795	ng	100
41) Benzo(g,h,i)perylene	26.107	276	14526	0.245	ng	98

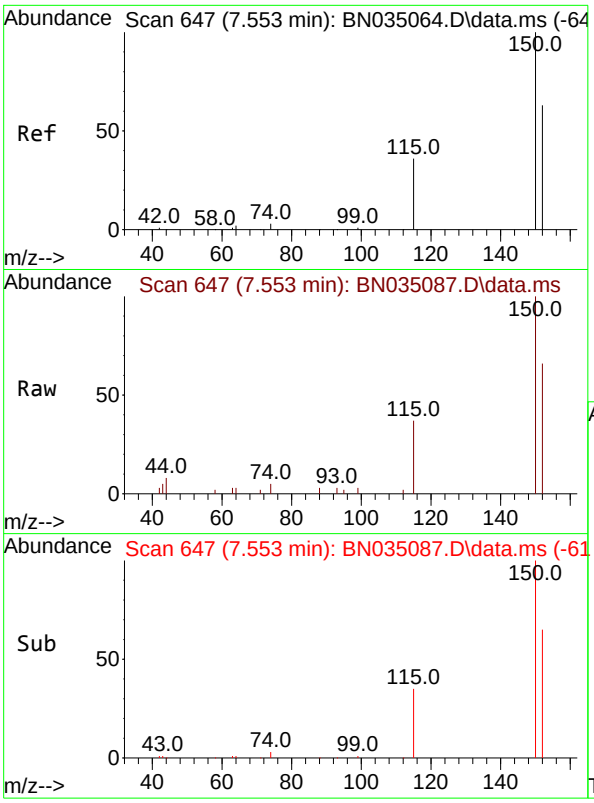
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035087.D
Acq On : 14 Nov 2024 14:10
Operator : RC/JU
Sample : P4495-13DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Quant Time: Nov 14 14:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration



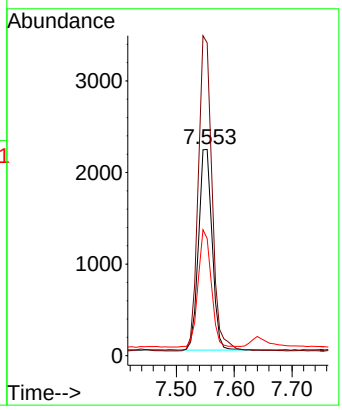


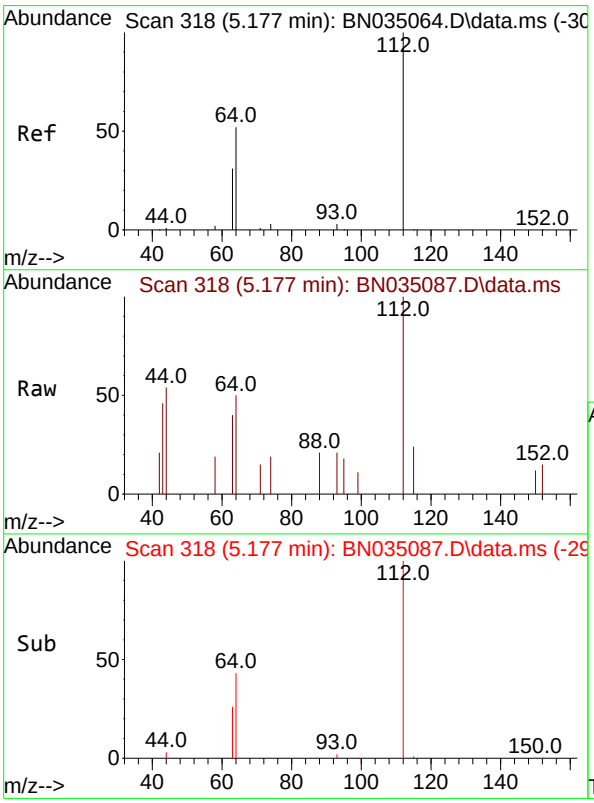
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:152 Resp: 3588

Ion	Ratio	Lower	Upper
152	100		
150	151.6	124.5	186.7
115	56.7	47.8	71.6

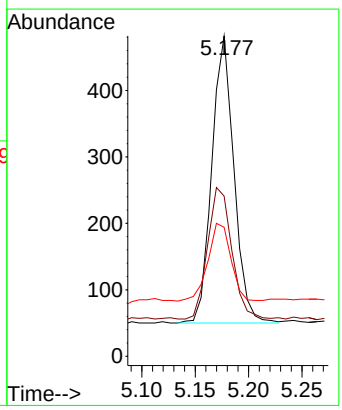


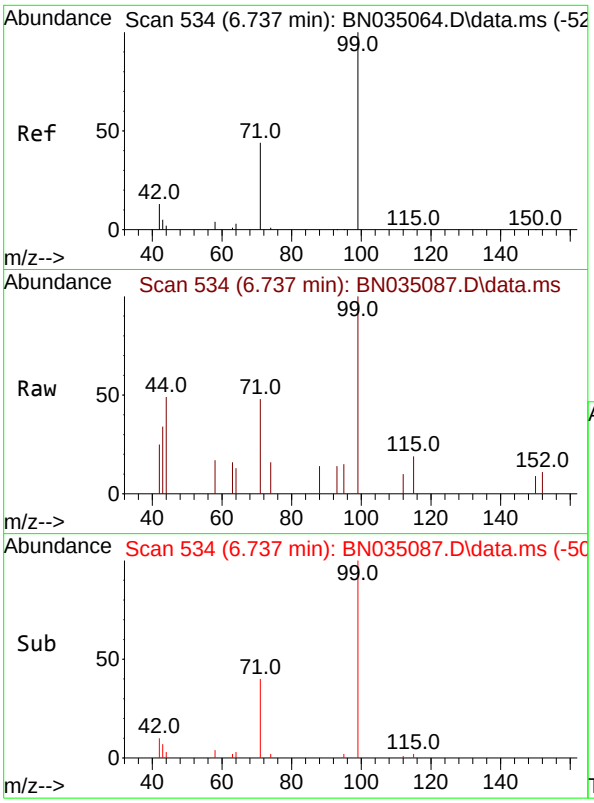


#4
2-Fluorophenol
Concen: 0.068 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:112 Resp: 623

Ion	Ratio	Lower	Upper
112	100		
64	49.9	39.7	59.5
63	28.1	23.0	34.4



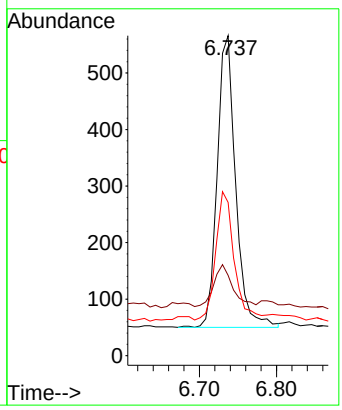


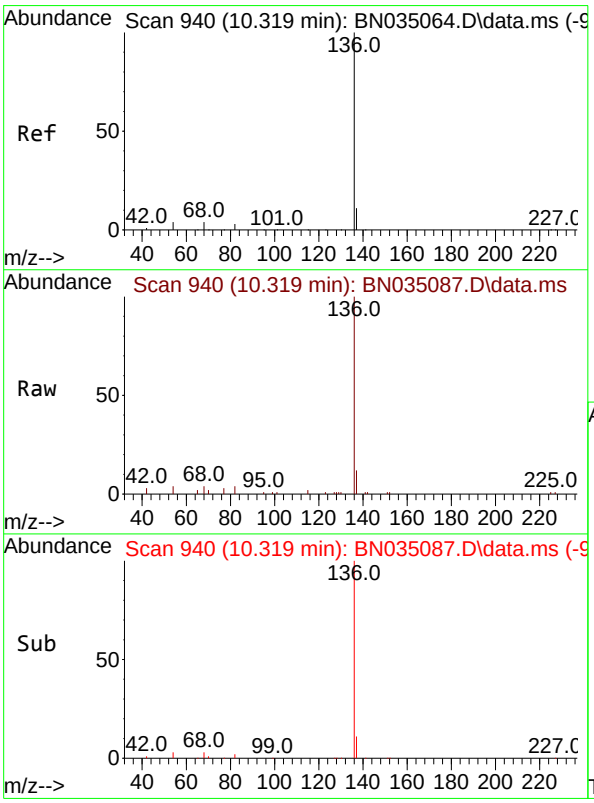
#5
Phenol-d6
Concen: 0.075 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion: 99 Resp: 858

Ion	Ratio	Lower	Upper
99	100		
42	16.3	11.4	17.0
71	43.6	34.6	51.8

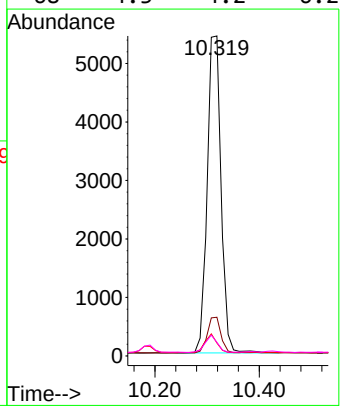


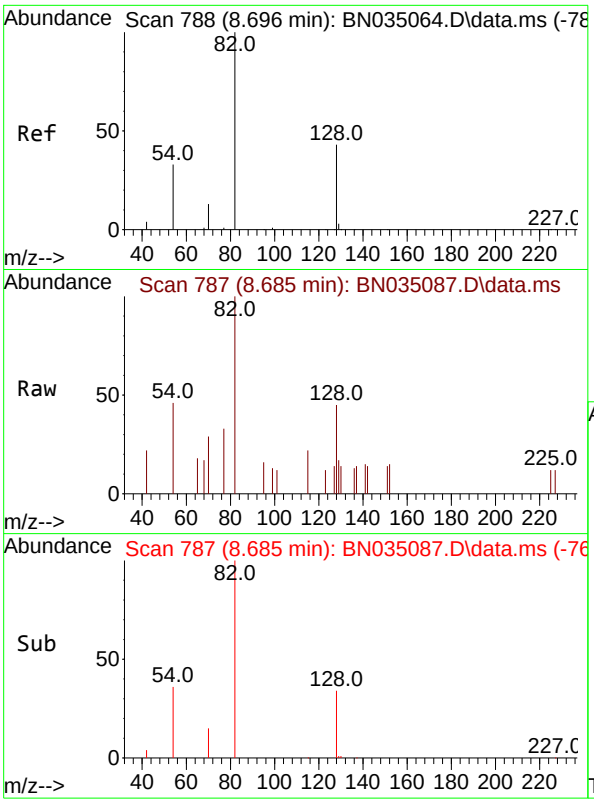


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:136 Resp: 9962

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.1	4.0	6.0
68	4.3	4.2	6.2



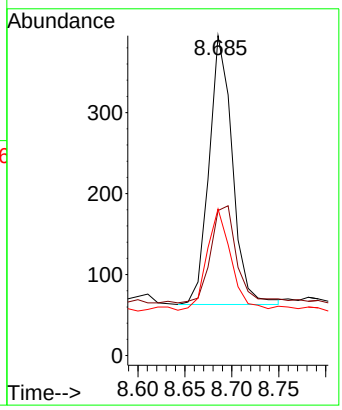


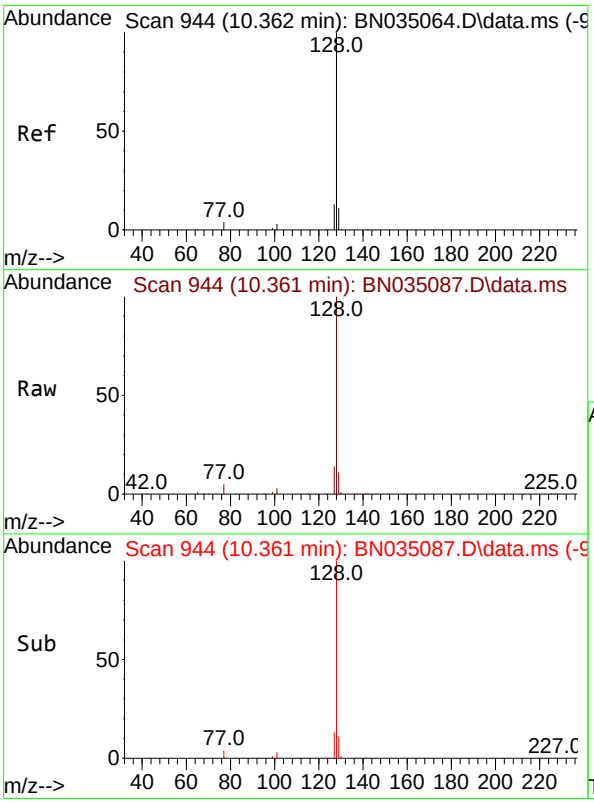
#8
Nitrobenzene-d5
Concen: 0.066 ng
RT: 8.685 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion: 82 Resp: 574

Ion	Ratio	Lower	Upper
82	100		
128	45.3	36.5	54.7
54	45.8	28.7	43.1#

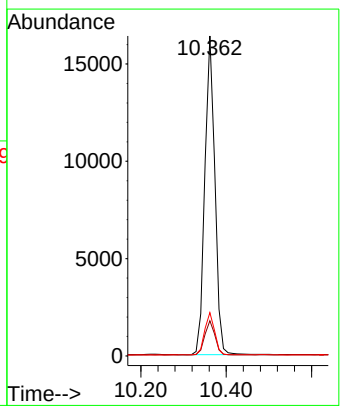


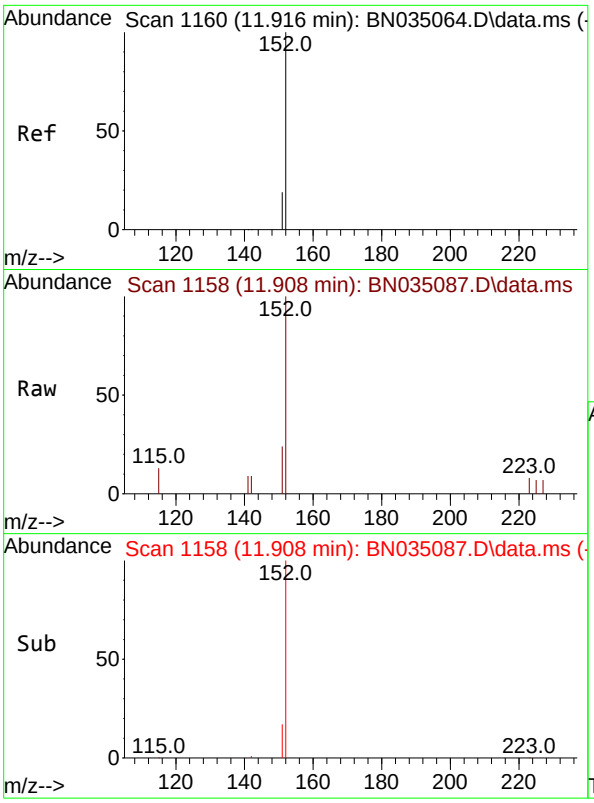


#9
Naphthalene
Concen: 1.031 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:128 Resp: 26813

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.6	14.4
127	13.6	11.6	17.4



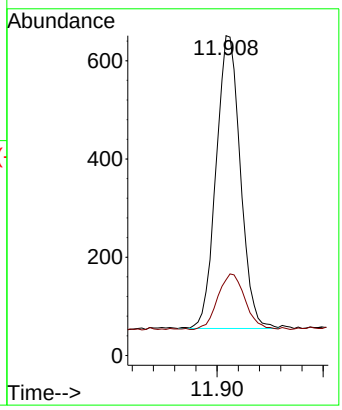


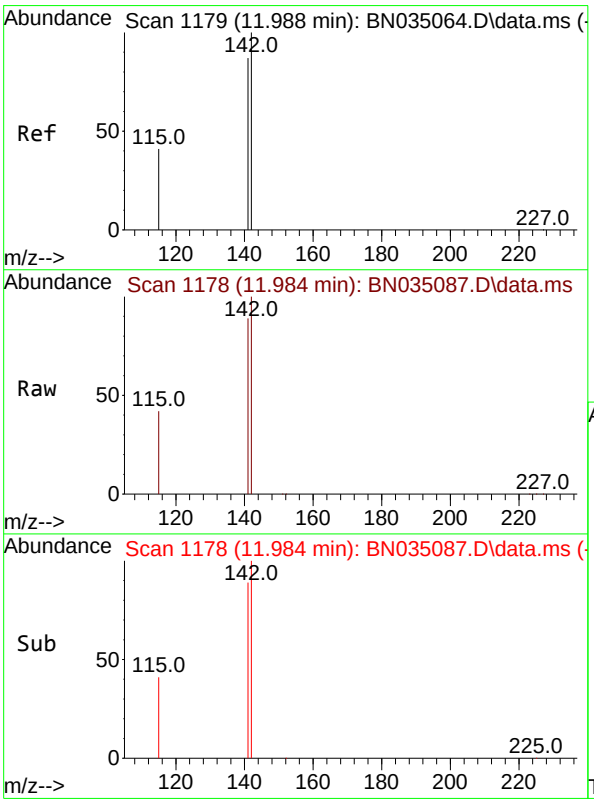
#11
2-Methylnaphthalene-d10
Concen: 0.053 ng
RT: 11.908 min Scan# 11
Delta R.T. -0.008 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:152 Resp: 948

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.2	24.4

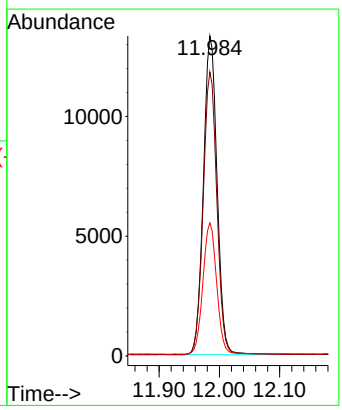


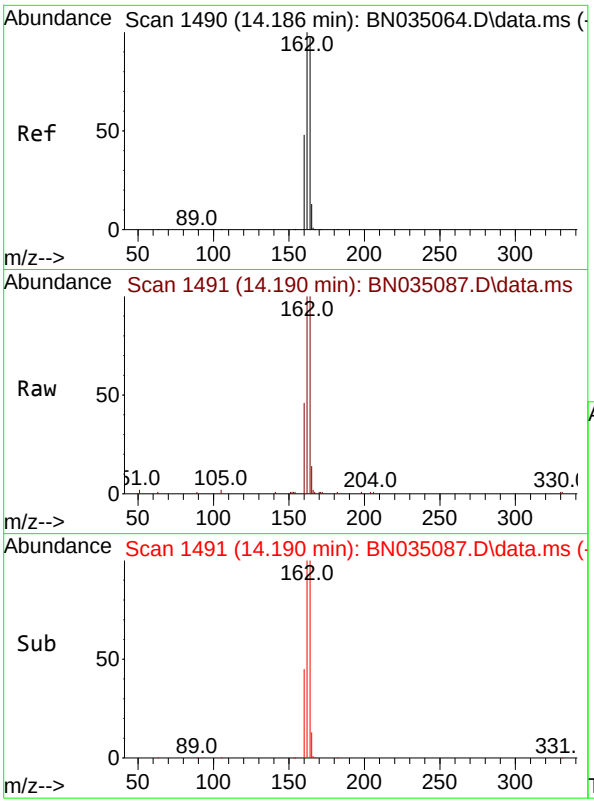


#12
2-Methylnaphthalene
Concen: 1.093 ng
RT: 11.984 min Scan# 1178
Delta R.T. -0.004 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:142 Resp: 20979

Ion	Ratio	Lower	Upper
142	100		
141	88.8	70.1	105.1
115	41.6	34.4	51.6



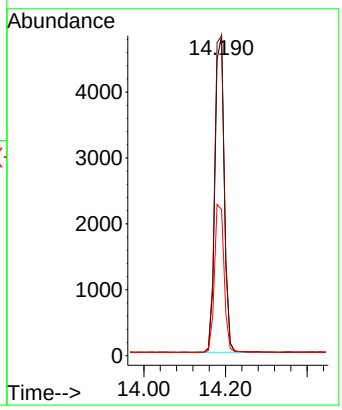


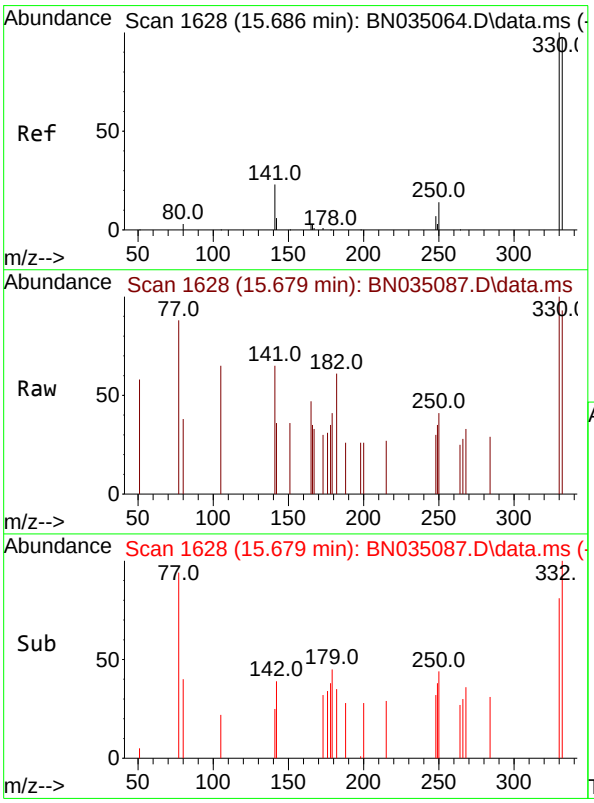
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:164 Resp: 7625

Ion	Ratio	Lower	Upper
164	100		
162	100.1	82.2	123.2
160	45.7	40.2	60.4

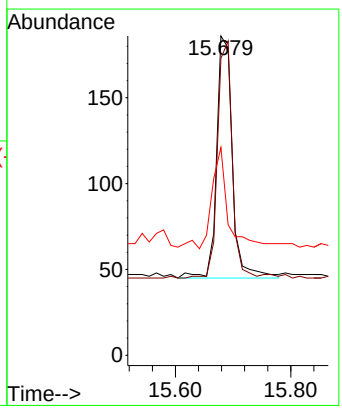


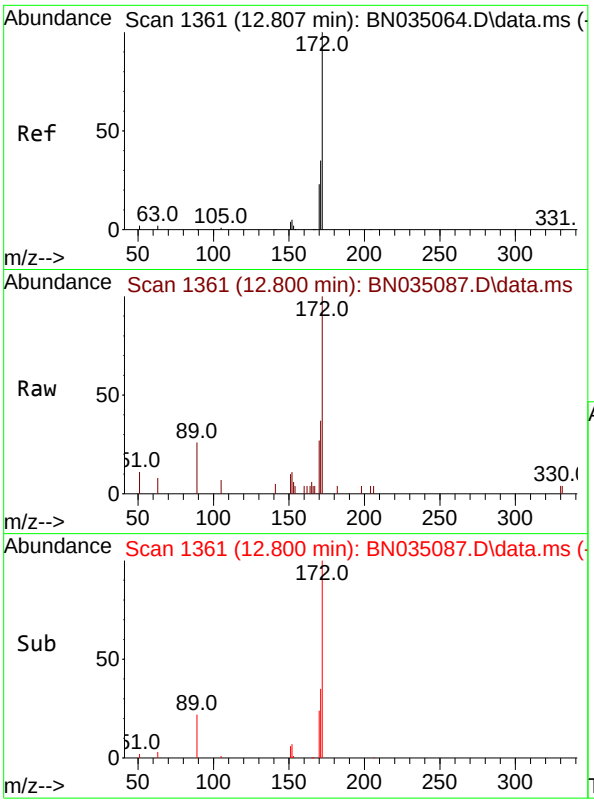


#14
2,4,6-Tribromophenol
Concen: 0.049 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:330 Resp: 267

Ion	Ratio	Lower	Upper
330	100		
332	88.0	76.9	115.3
141	42.7	29.6	44.4



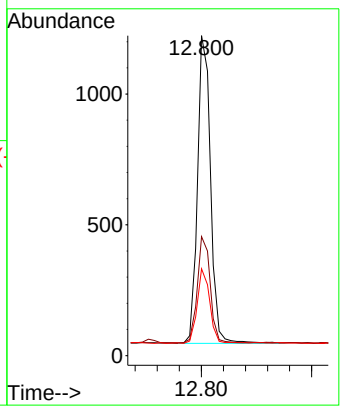


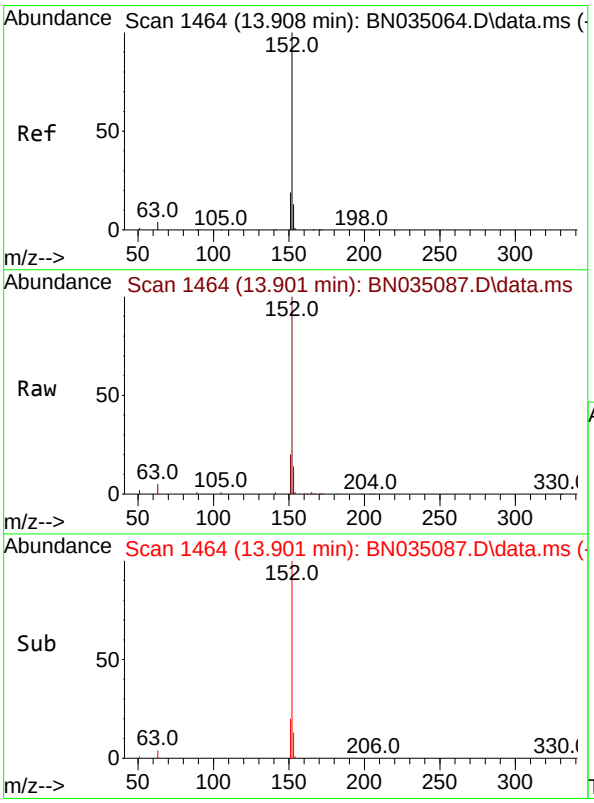
#15
2-Fluorobiphenyl
Concen: 0.062 ng
RT: 12.800 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:172 Resp: 1933

Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.2	42.4
170	27.1	19.0	28.6

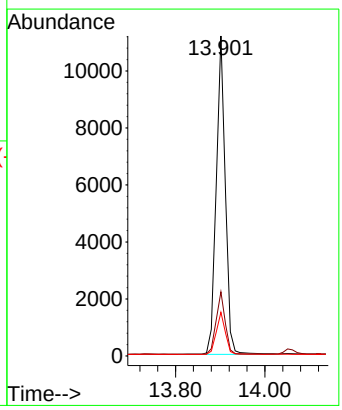


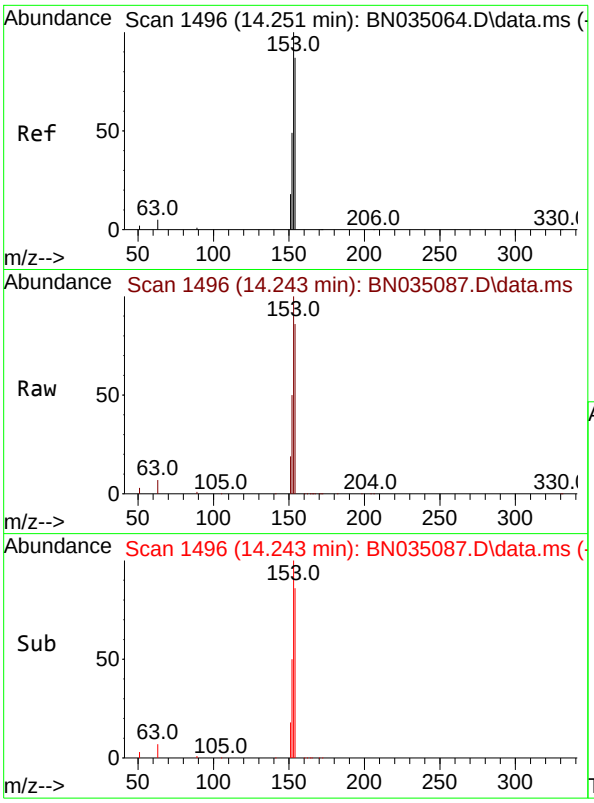


#16
Acenaphthylene
Concen: 0.485 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:152 Resp: 15792

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.3	10.2	15.4



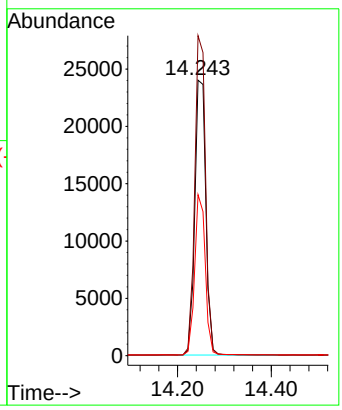


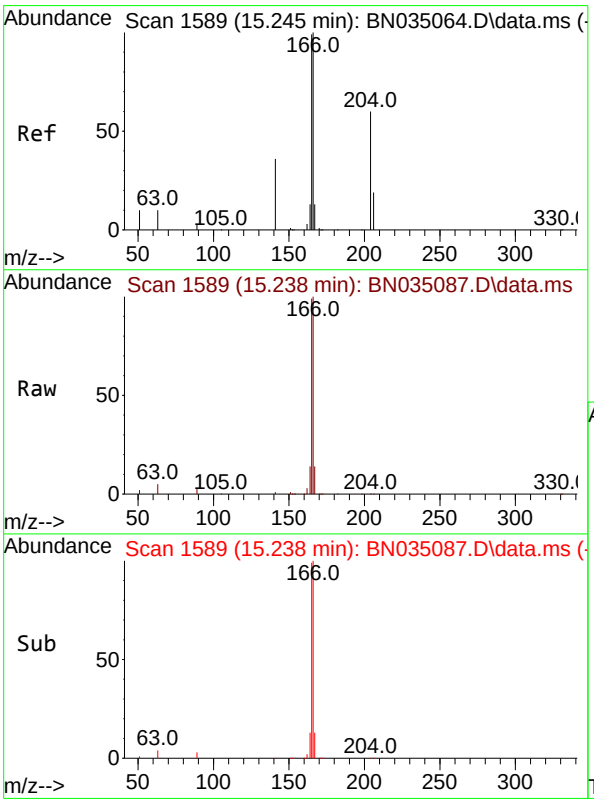
#17
Acenaphthene
Concen: 1.828 ng
RT: 14.243 min Scan# 14
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:154 Resp: 39032

Ion	Ratio	Lower	Upper
154	100		
153	114.3	91.6	137.4
152	56.3	45.8	68.6

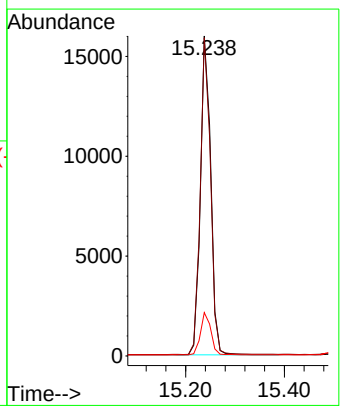


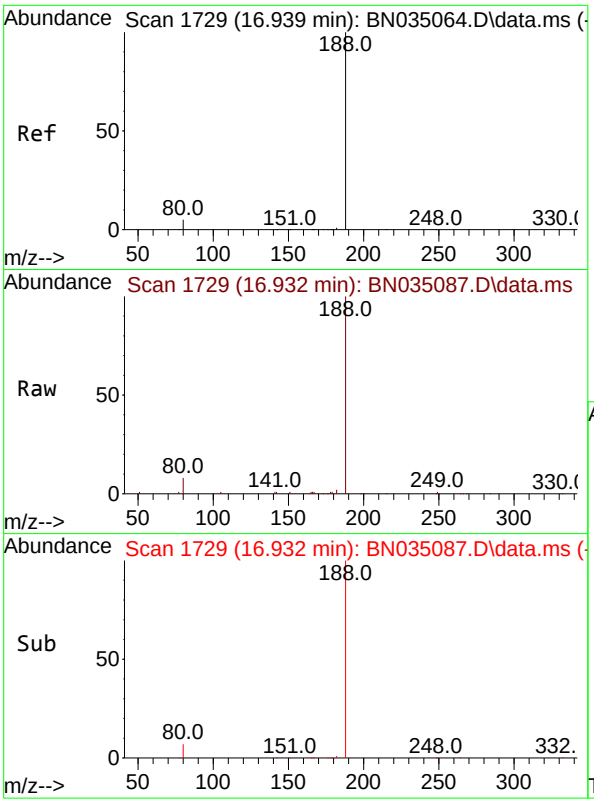


#18
Fluorene
Concen: 0.736 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:166 Resp: 23114

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.1	118.7
167	13.4	10.6	16.0



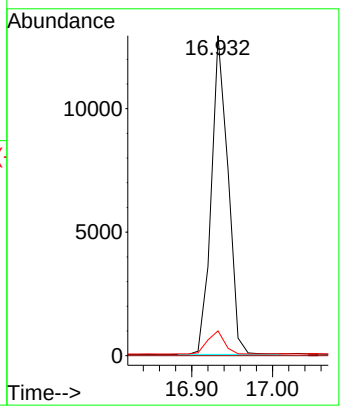


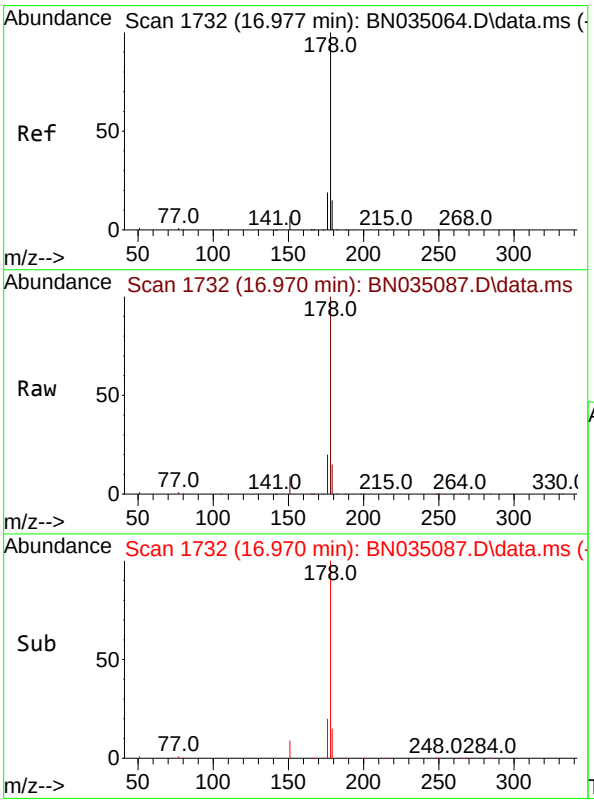
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:188 Resp: 18496

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.3	6.5#

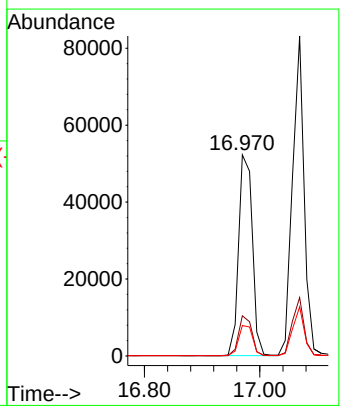


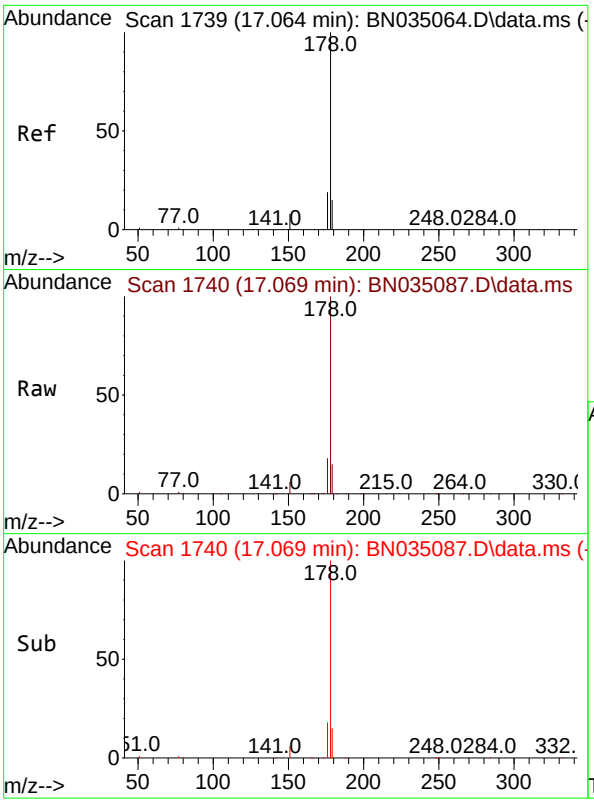


#25
Phenanthrene
Concen: 1.764 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:178 Resp: 85839

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.2	22.8
179	15.3	12.6	18.8



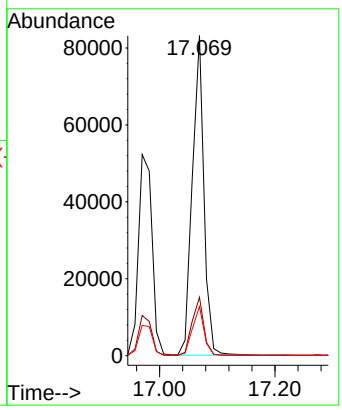


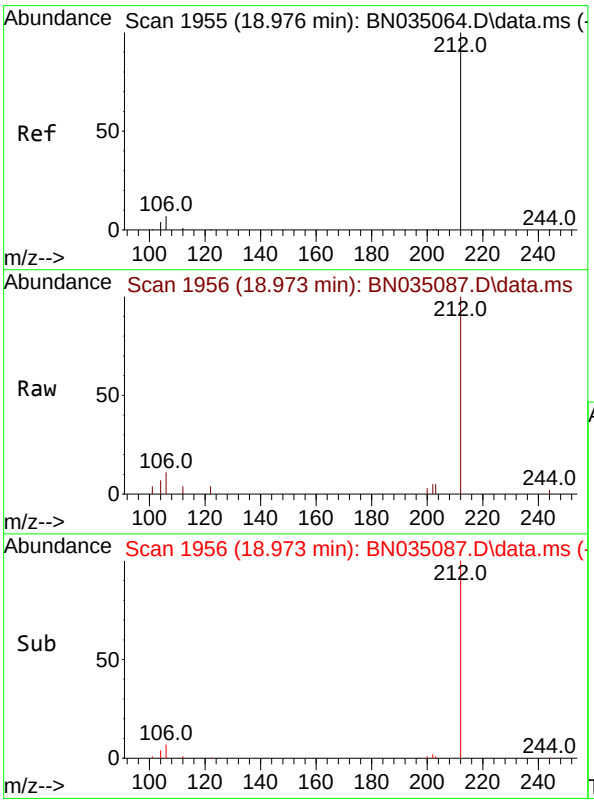
#26
Anthracene
Concen: 2.601 ng
RT: 17.069 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:178 Resp: 116295

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.2	12.2	18.2

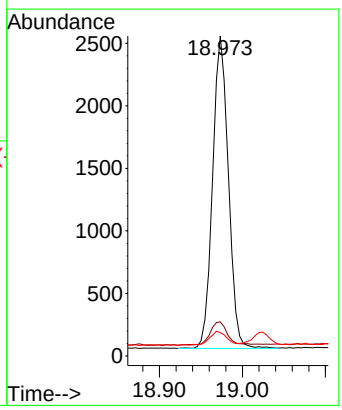


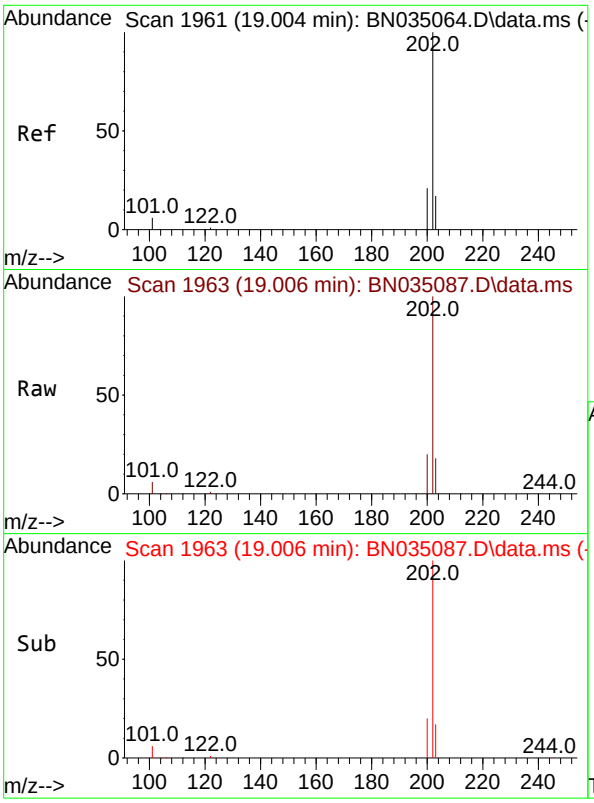


#27
Fluoranthene-d10
Concen: 0.058 ng
RT: 18.973 min Scan# 1956
Delta R.T. -0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:212 Resp: 3297

Ion	Ratio	Lower	Upper
212	100		
106	8.3	6.0	9.0
104	5.0	3.5	5.3



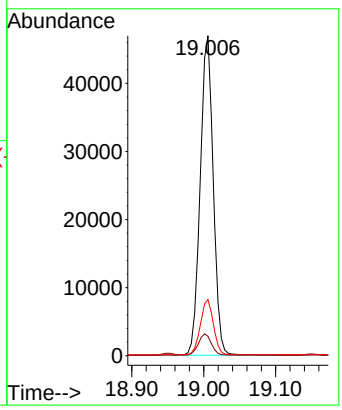


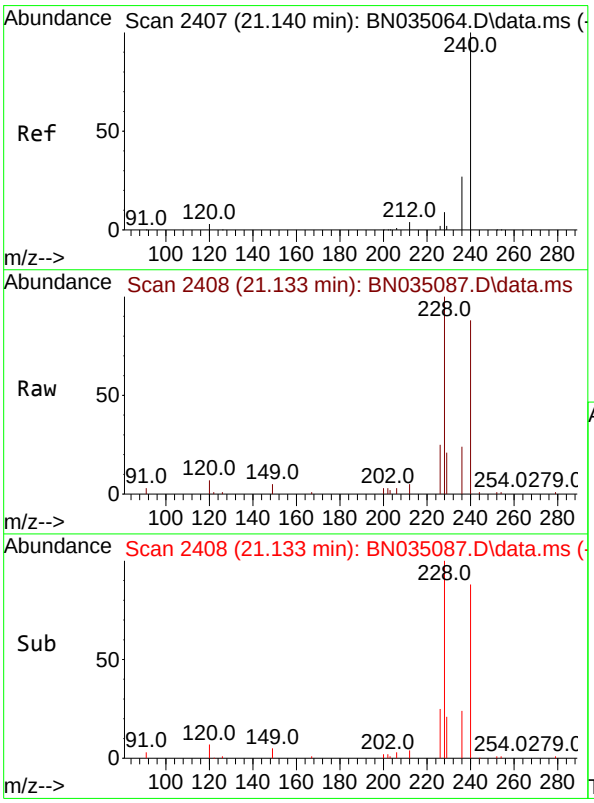
#28
Fluoranthene
Concen: 0.883 ng
RT: 19.006 min Scan# 1
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:202 Resp: 59098

Ion	Ratio	Lower	Upper
202	100		
101	6.6	5.2	7.8
203	17.2	13.8	20.8

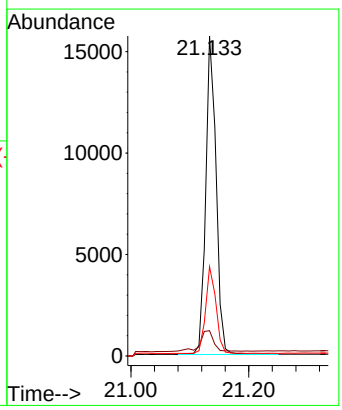


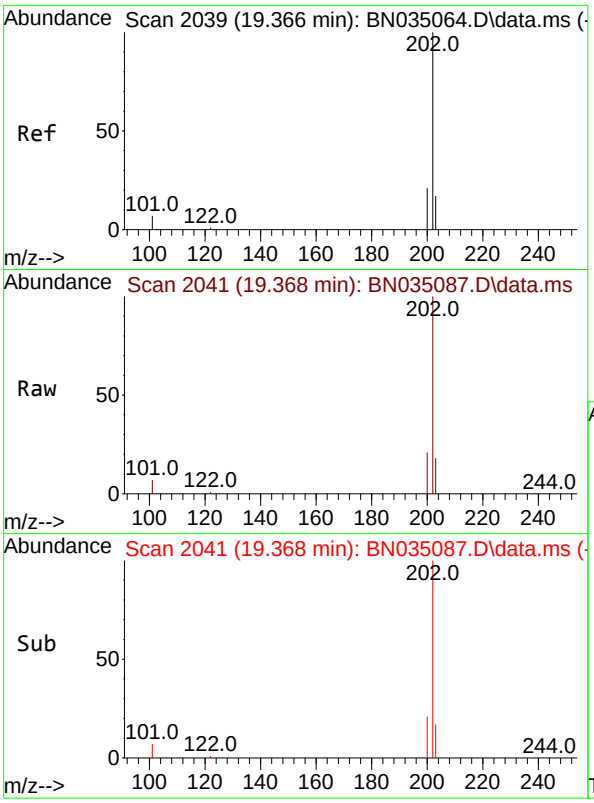


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:240 Resp: 19193

Ion	Ratio	Lower	Upper
240	100		
120	7.9	3.8	5.6#
236	27.9	22.2	33.2



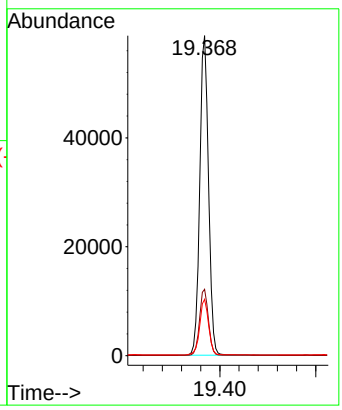


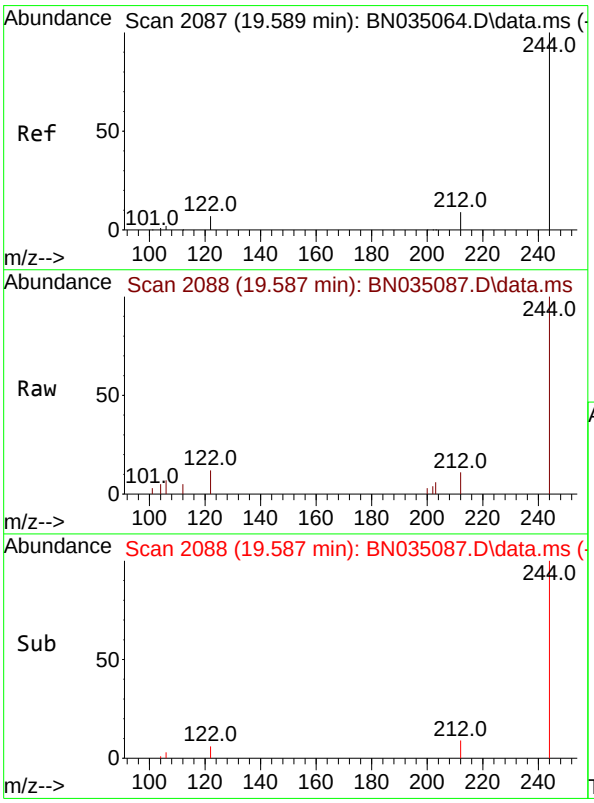
#30
Pyrene
Concen: 1.163 ng
RT: 19.368 min Scan# 2
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:202 Resp: 74314

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.7	14.2	21.4

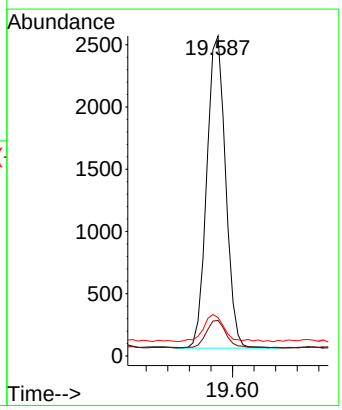


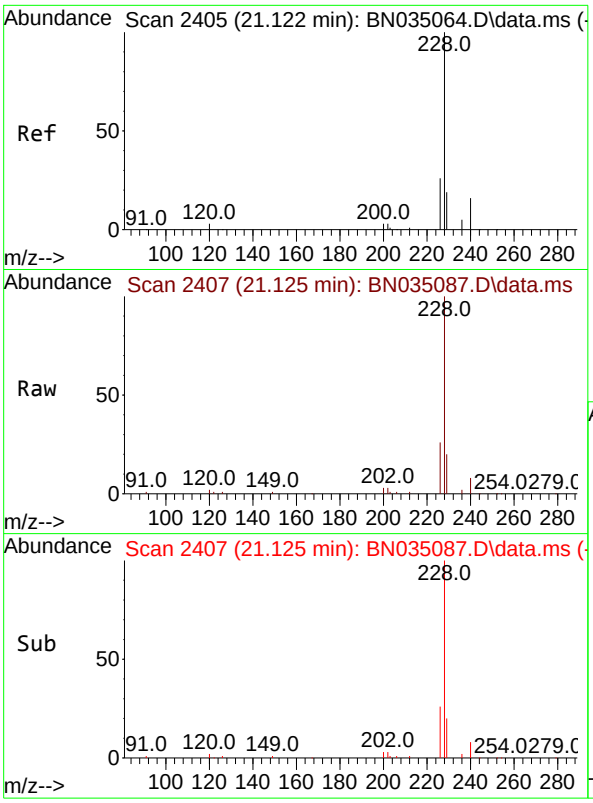


#31
Terphenyl-d14
Concen: 0.075 ng
RT: 19.587 min Scan# 2088
Delta R.T. -0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:244 Resp: 3039

Ion	Ratio	Lower	Upper
244	100		
212	11.1	7.6	11.4
122	12.0	6.1	9.1#



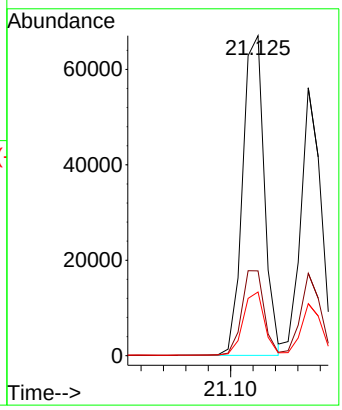


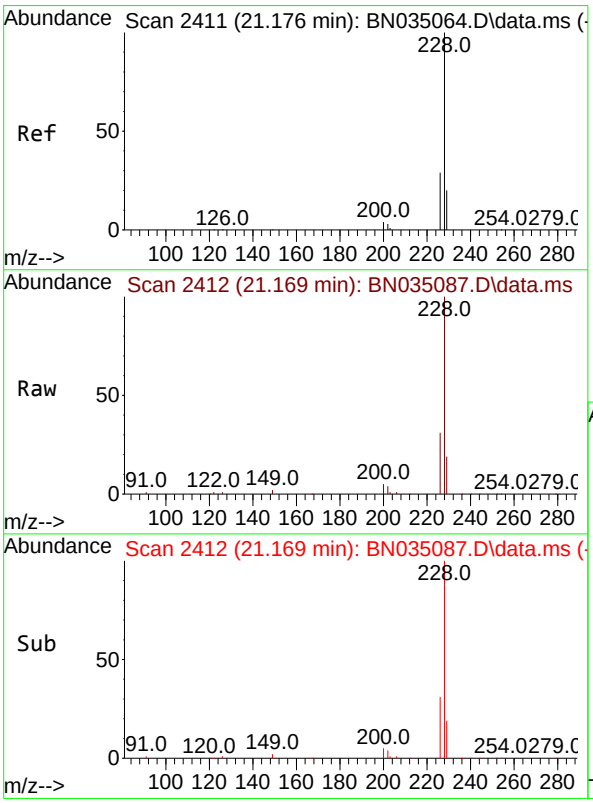
#32
Benzo(a)anthracene
Concen: 1.349 ng
RT: 21.125 min Scan# 24
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:228 Resp: 90123

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.4	32.0
229	19.9	15.7	23.5

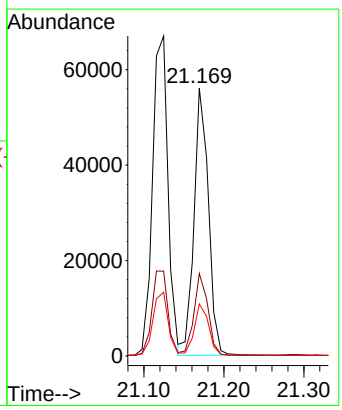


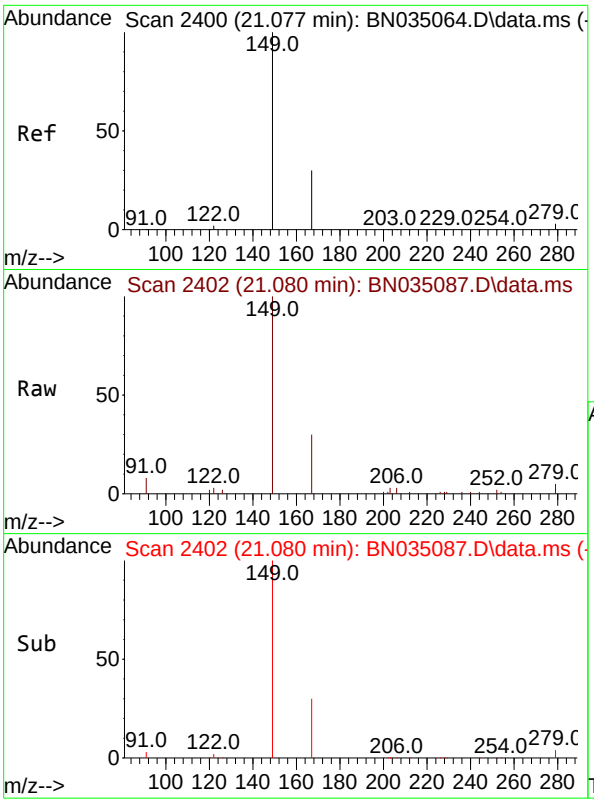


#33
Chrysene
Concen: 1.060 ng
RT: 21.169 min Scan# 2412
Delta R.T. -0.007 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:228 Resp: 70164

Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.7	35.5
229	19.4	16.2	24.4



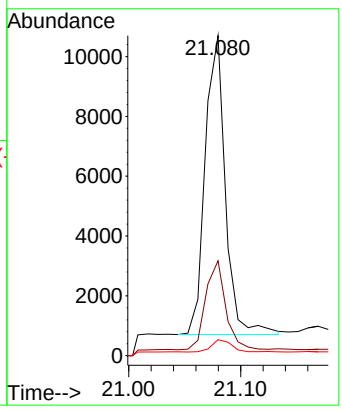


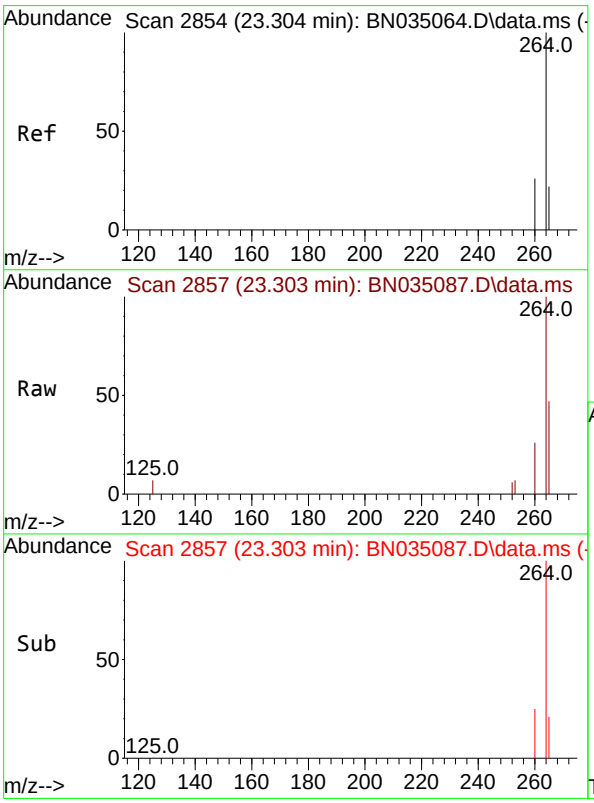
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.356 ng
RT: 21.080 min Scan# 24
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:149 Resp: 12480

Ion	Ratio	Lower	Upper
149	100		
167	30.0	23.2	34.8
279	4.3	3.2	4.8

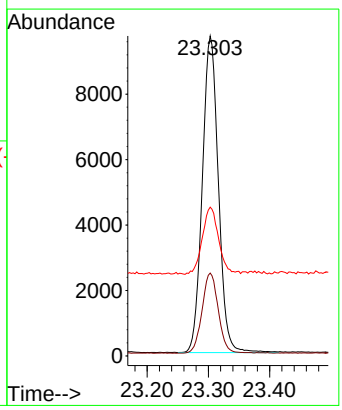


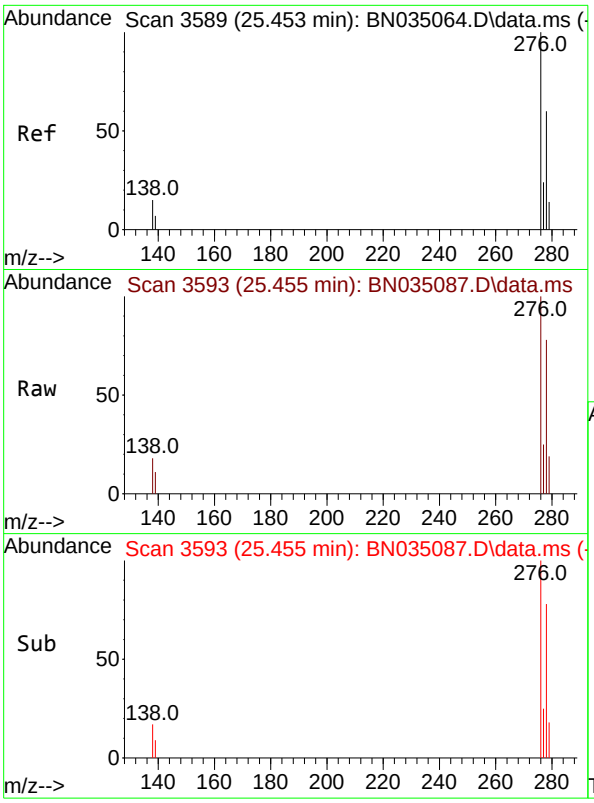


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2857
Delta R.T. -0.001 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:264 Resp: 17654

Ion	Ratio	Lower	Upper
264	100		
260	25.9	20.9	31.3
265	46.5	35.4	53.2



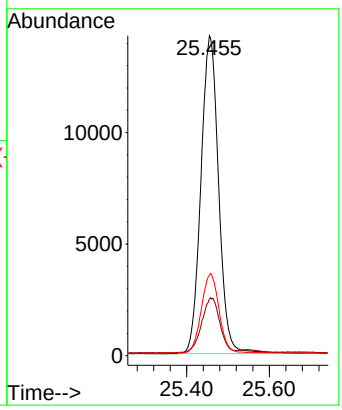


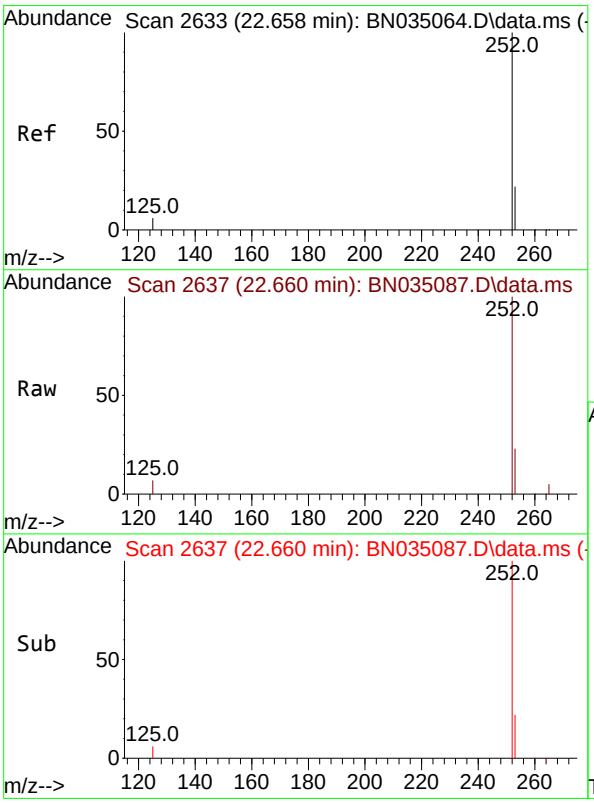
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.601 ng
RT: 25.455 min Scan# 3
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:276 Resp: 42313

Ion	Ratio	Lower	Upper
276	100		
138	17.7	13.0	19.4
277	24.8	19.8	29.6

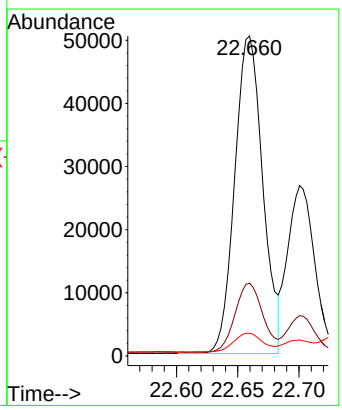


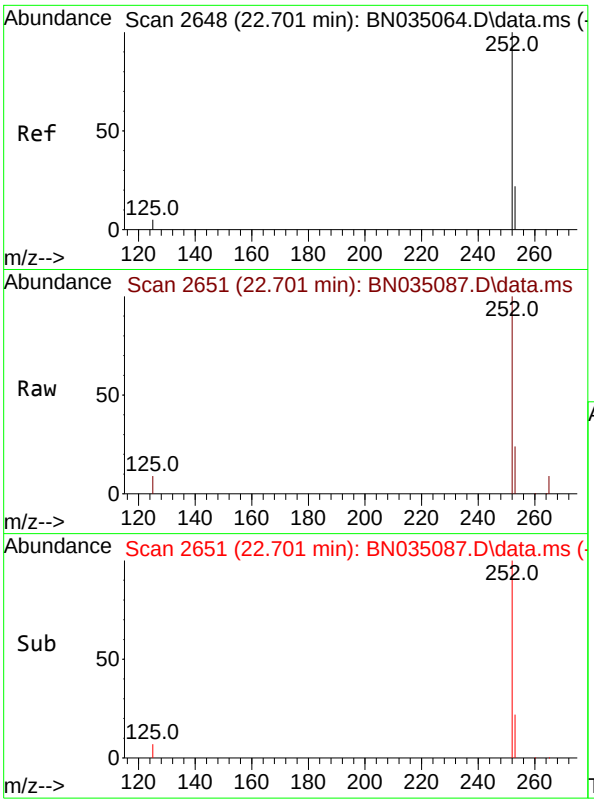


#37
Benzo(b)fluoranthene
Concen: 1.349 ng
RT: 22.660 min Scan# 2637
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:252 Resp: 80139

Ion	Ratio	Lower	Upper
252	100		
253	22.8	19.3	28.9
125	7.1	6.2	9.2



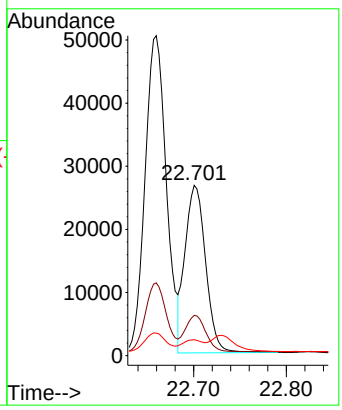


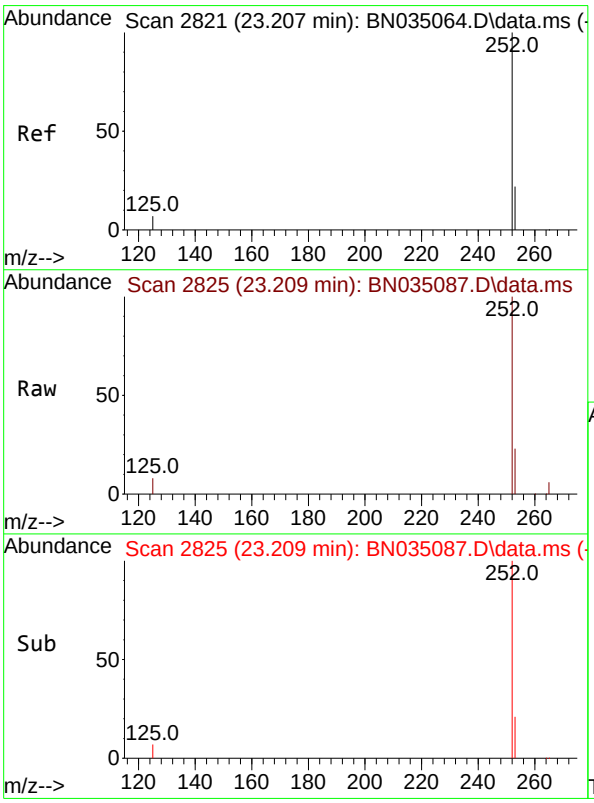
#38
Benzo(k)fluoranthene
Concen: 0.689 ng
RT: 22.701 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:252 Resp: 40922

Ion	Ratio	Lower	Upper
252	100		
253	23.6	19.5	29.3
125	9.4	6.5	9.7

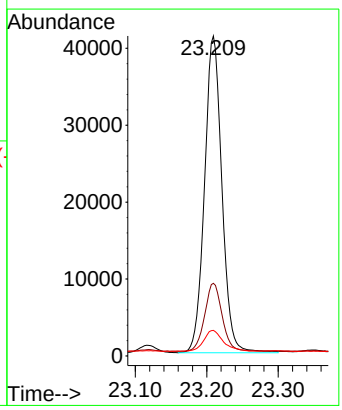


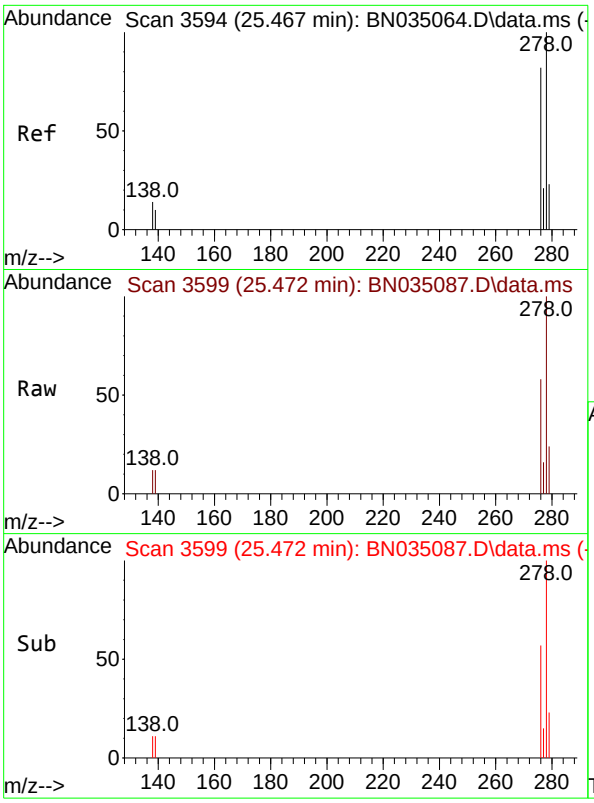


#39
Benzo(a)pyrene
Concen: 1.333 ng
RT: 23.209 min Scan# 2825
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:252 Resp: 69681

Ion	Ratio	Lower	Upper
252	100		
253	22.7	20.1	30.1
125	8.0	7.5	11.3



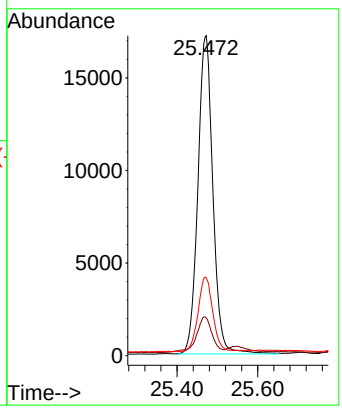


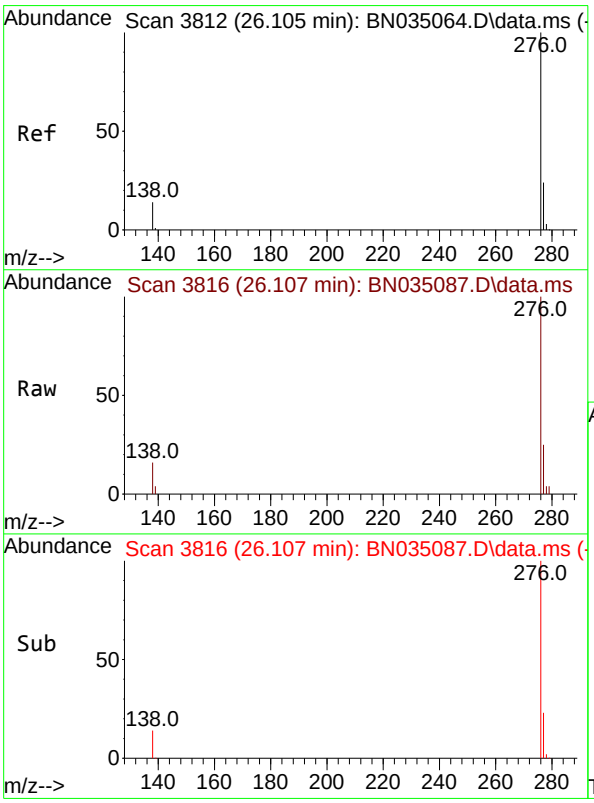
#40
Dibenzo(a,h)anthracene
Concen: 0.795 ng
RT: 25.472 min Scan# 3
Delta R.T. 0.005 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:278 Resp: 44339

Ion	Ratio	Lower	Upper
278	100		
139	11.7	9.3	13.9
279	24.4	19.7	29.5

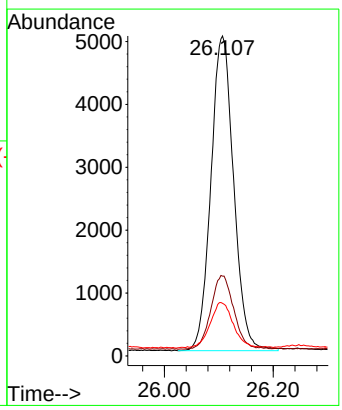




#41
Benzo(g,h,i)perylene
Concen: 0.245 ng
RT: 26.107 min Scan# 3816
Delta R.T. 0.002 min
Lab File: BN035087.D
Acq: 14 Nov 2024 14:10

Tgt Ion:276 Resp: 14526

Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.9	29.9
138	16.5	11.6	17.4



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN035062.D 0.2 =BN035063.D 0.4 =BN035064.D 0.8 =BN035065.D 1.6 =BN035066.D 3.2 =BN035067.D 5.0 =BN035068.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	0.410	0.382	0.335	0.371	0.367	0.348	0.329	0.363	7.76
3)		n-Nitrosodimet...	0.366	0.328	0.326	0.360	0.347	0.321	0.322	0.339	5.51
4)	S	2-Fluorophenol	1.073	1.039	0.949	1.086	1.034	0.966	0.961	1.015	5.54
5)	S	Phenol-d6	1.264	1.279	1.159	1.355	1.318	1.255	1.282	1.273	4.79
6)		bis(2-Chloroet...	0.972	0.949	0.893	1.027	0.995	0.925	0.929	0.956	4.77
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.358	0.338	0.320	0.368	0.356	0.344	0.353	0.348	4.53
9)		Naphthalene	1.088	1.009	0.977	1.116	1.085	1.010	1.027	1.044	4.96
10)		Hexachlorobuta...	0.324	0.305	0.293	0.326	0.315	0.289	0.291	0.306	5.12
11)	SURR	2-Methylnaphth...	0.694	0.683	0.664	0.762	0.753	0.703	0.731	0.713	5.13
12)		2-Methylnaphth...	0.742	0.748	0.711	0.823	0.815	0.765	0.789	0.770	5.29
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.281	0.262	0.240	0.300	0.299	0.308	0.331	0.289	10.57
15)	S	2-Fluorobiphenyl	1.701	1.576	1.460	1.735	1.687	1.599	1.614	1.624	5.73
16)		Acenaphthylene	1.715	1.616	1.488	1.822	1.775	1.756	1.795	1.709	6.93
17)		Acenaphthene	1.129	1.079	1.000	1.202	1.157	1.130	1.146	1.120	5.76
18)		Fluorene	1.704	1.591	1.463	1.755	1.708	1.656	1.659	1.648	5.86
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.068	0.067	0.073	0.087	0.088	0.095	0.105	0.083	17.50
21)		4-Bromophenyl-...	0.256	0.240	0.246	0.272	0.267	0.252	0.252	0.255	4.41
22)		Hexachlorobenzene	0.275	0.259	0.253	0.277	0.273	0.258	0.258	0.264	3.79
23)		Atrazine	0.227	0.227	0.217	0.244	0.238	0.223	0.225	0.229	3.95
24)		Pentachlorophenol	0.106	0.101	0.104	0.130	0.130	0.141	0.154	0.124	16.69
25)		Phenanthrene	1.069	1.013	1.004	1.115	1.096	1.034	1.036	1.053	3.97
26)		Anthracene	0.917	0.904	0.920	1.024	1.016	0.986	1.001	0.967	5.32
27)	SURR	Fluoranthene-d10	1.196	1.178	1.169	1.288	1.284	1.222	1.240	1.225	3.91
28)		Fluoranthene	1.396	1.376	1.386	1.543	1.527	1.453	1.453	1.448	4.63
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.339	1.290	1.288	1.424	1.367	1.301	1.317	1.332	3.70
31)	S	Terphenyl-d14	0.838	0.819	0.810	0.894	0.867	0.817	0.831	0.839	3.63
32)		Benzo(a)anthra...	1.421	1.368	1.328	1.464	1.416	1.355	1.396	1.393	3.31
33)		Chrysene	1.409	1.366	1.332	1.479	1.420	1.331	1.321	1.380	4.27
34)		Bis(2-ethylhex...	0.809	0.753	0.647	0.768	0.702	0.693	0.742	0.731	7.38
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN111324.M

36)		Indeno(1,2,3-c...	1.609	1.515	1.522	1.730	1.659	1.550	1.585	1.596	4.88
37)		Benzo(b)fluora...	1.326	1.272	1.279	1.439	1.418	1.327	1.359	1.346	4.77
38)		Benzo(k)fluora...	1.342	1.288	1.287	1.418	1.410	1.323	1.358	1.347	3.94
39)	C	Benzo(a)pyrene	1.172	1.134	1.123	1.247	1.240	1.167	1.207	1.184	4.12
40)		Dibenzo(a,h)an...	1.248	1.195	1.210	1.375	1.322	1.235	1.265	1.264	5.06
41)		Benzo(g,h,i)pe...	1.380	1.288	1.286	1.452	1.386	1.294	1.328	1.345	4.71

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035062.D
Acq On : 13 Nov 2024 12:40
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 13 16:42:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	1991	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	4930	0.400	ng		0.00
13) Acenaphthene-d10	14.186	164	3629	0.400	ng		0.00
19) Phenanthrene-d10	16.939	188	10187	0.400	ng		0.00
29) Chrysene-d12	21.131	240	11121	0.400	ng	#	0.00
35) Perylene-d12	23.304	264	13104	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	534	0.106	ng		0.00
5) Phenol-d6	6.737	99	629	0.099	ng		0.00
8) Nitrobenzene-d5	8.696	82	441	0.103	ng		0.00
11) 2-Methylnaphthalene-d10	11.916	152	855	0.097	ng		0.00
14) 2,4,6-Tribromophenol	15.686	330	255	0.097	ng		0.00
15) 2-Fluorobiphenyl	12.807	172	1543	0.105	ng		0.00
27) Fluoranthene-d10	18.976	212	3046	0.098	ng		0.00
31) Terphenyl-d14	19.584	244	2331	0.100	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.177	88	204	0.113	ng		93
3) n-Nitrosodimethylamine	3.480	42	182	0.108	ng	#	90
6) bis(2-Chloroethyl)ether	6.990	93	484	0.102	ng		99
9) Naphthalene	10.362	128	1341	0.104	ng	#	89
10) Hexachlorobutadiene	10.660	225	399	0.106	ng	#	99
12) 2-Methylnaphthalene	11.992	142	914	0.096	ng		96
16) Acenaphthylene	13.908	152	1556	0.100	ng		99
17) Acenaphthene	14.250	154	1024	0.101	ng		98
18) Fluorene	15.245	166	1546	0.103	ng		99
20) 4,6-Dinitro-2-methylph...	15.330	198	172	0.081	ng	#	1
21) 4-Bromophenyl-phenylether	16.145	248	651	0.100	ng		97
22) Hexachlorobenzene	16.244	284	701	0.104	ng		98
23) Atrazine	16.418	200	577	0.099	ng	#	91
24) Pentachlorophenol	16.592	266	269	0.085	ng		94
25) Phenanthrene	16.977	178	2723	0.102	ng		100
26) Anthracene	17.063	178	2335	0.095	ng		98
28) Fluoranthene	19.003	202	3554	0.096	ng		100
30) Pyrene	19.366	202	3722	0.101	ng		98
32) Benzo(a)anthracene	21.122	228	3952	0.102	ng		97
33) Chrysene	21.167	228	3918	0.102	ng		96
34) Bis(2-ethylhexyl)phtha...	21.077	149	2250	0.112	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	5271	0.101	ng		96
37) Benzo(b)fluoranthene	22.657	252	4345	0.099	ng	#	82
38) Benzo(k)fluoranthene	22.701	252	4395	0.100	ng	#	78
39) Benzo(a)pyrene	23.204	252	3841	0.099	ng	#	77
40) Dibenzo(a,h)anthracene	25.467	278	4089	0.099	ng	#	85
41) Benzo(g,h,i)perylene	26.099	276	4521	0.103	ng	#	94

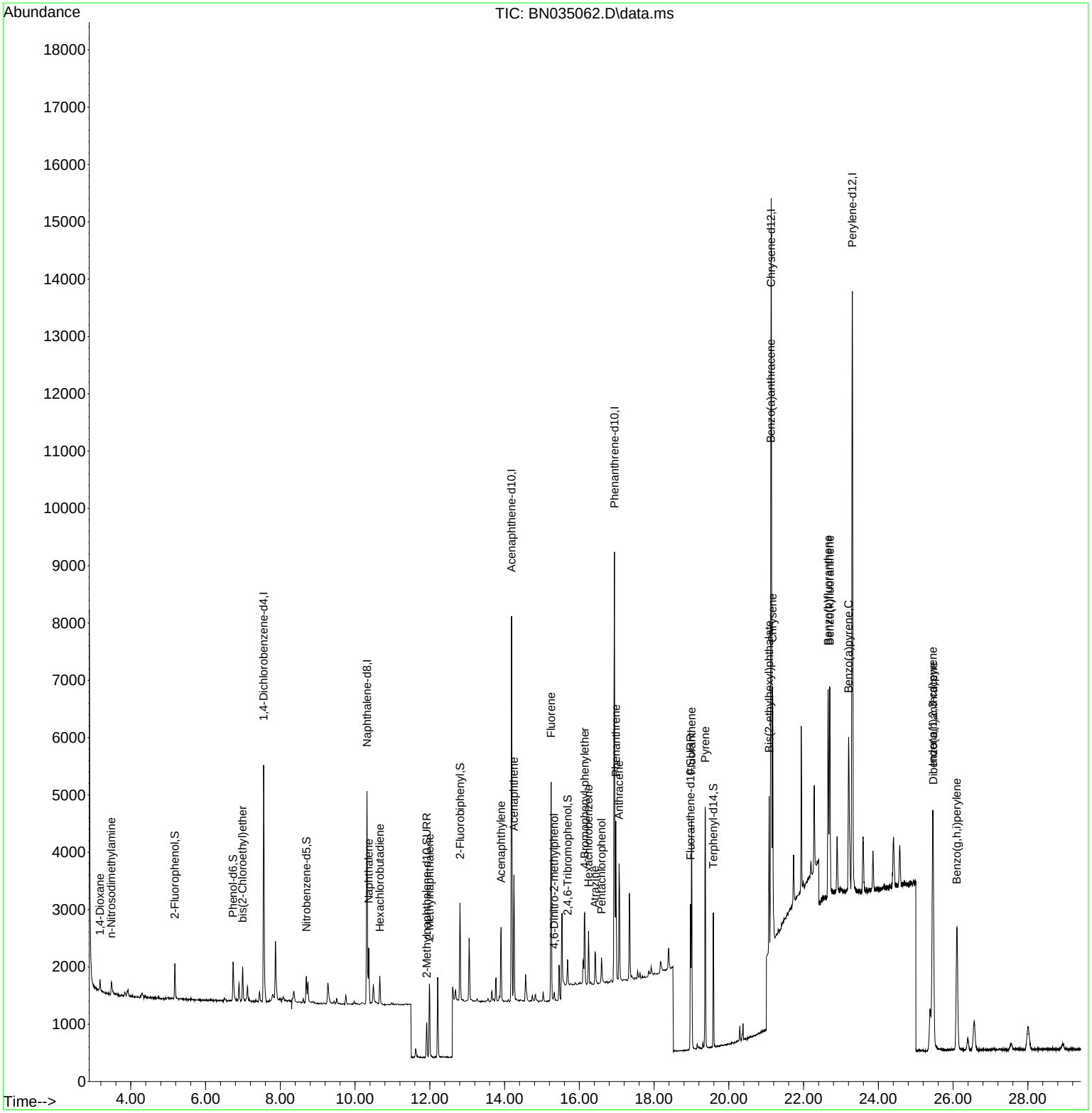
(#) = qualifier out of range (m) = manual integration (+) = signals summed

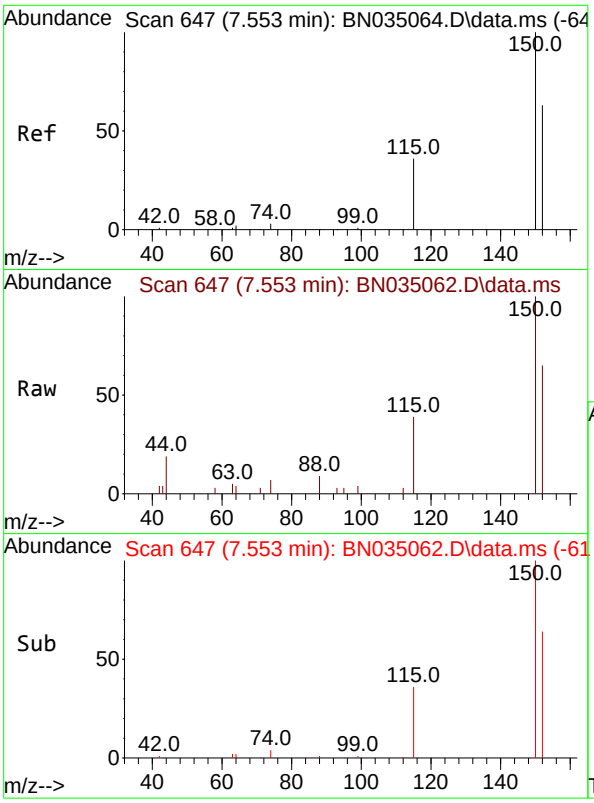
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035062.D
Acq On : 13 Nov 2024 12:40
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 13 16:42:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



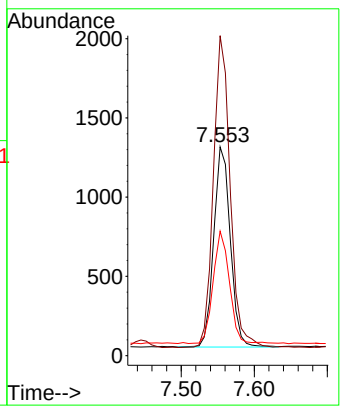


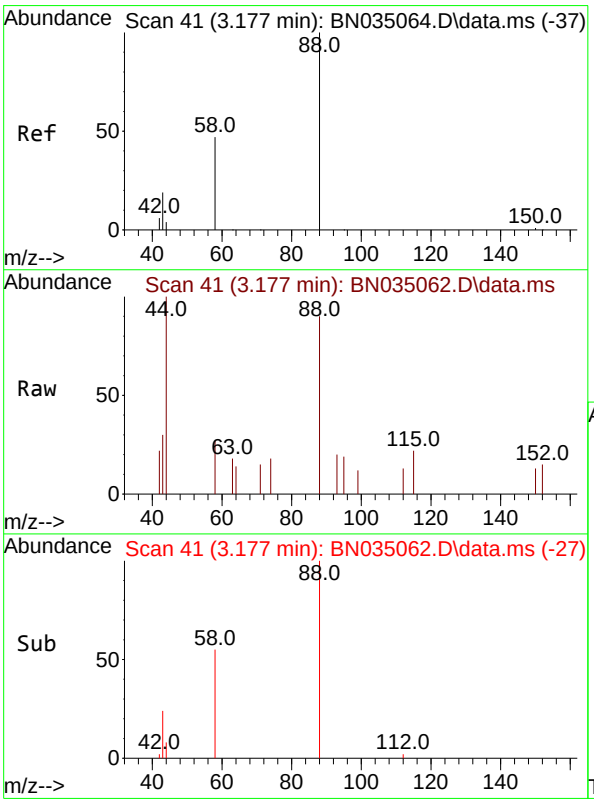
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 1991

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.5	186.7
115	59.6	47.8	71.6

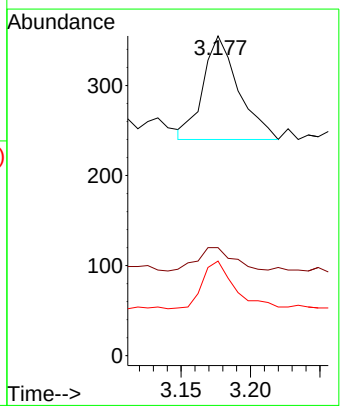


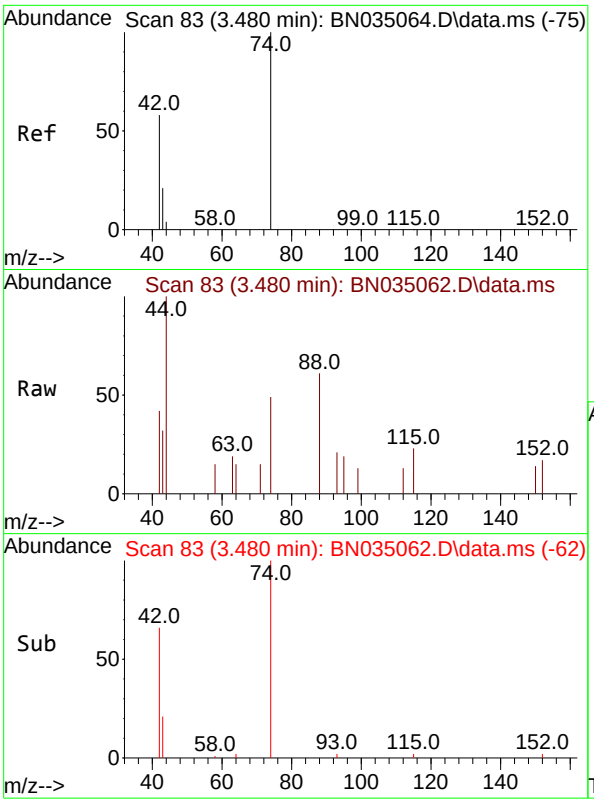


#2
1,4-Dioxane
Concen: 0.113 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 88 Resp: 204

Ion	Ratio	Lower	Upper
88	100		
43	23.0	16.9	25.3
58	42.6	39.0	58.4



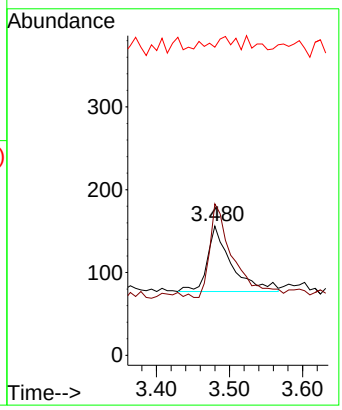


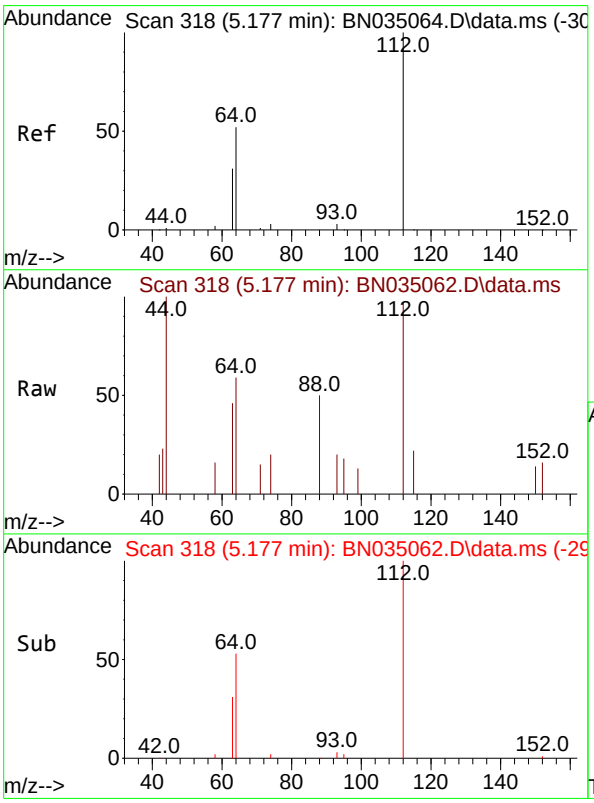
#3
n-Nitrosodimethylamine
Concen: 0.108 ng
RT: 3.480 min Scan# 8
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 182

Ion	Ratio	Lower	Upper
42	100		
74	139.0	120.8	181.2
44	12.6	2.9	4.3#

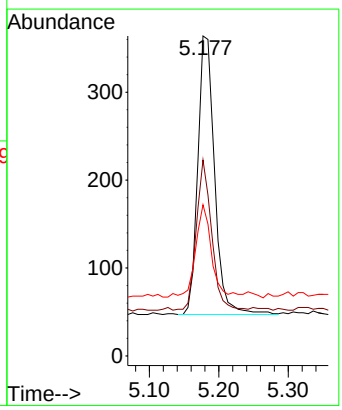


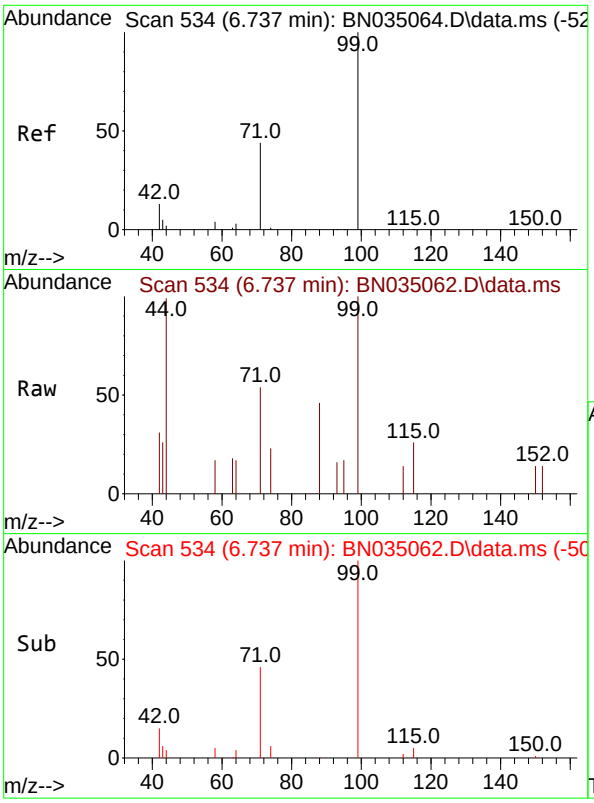


#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:112 Resp: 534

Ion	Ratio	Lower	Upper
112	100		
64	48.9	39.7	59.5
63	31.1	23.0	34.4



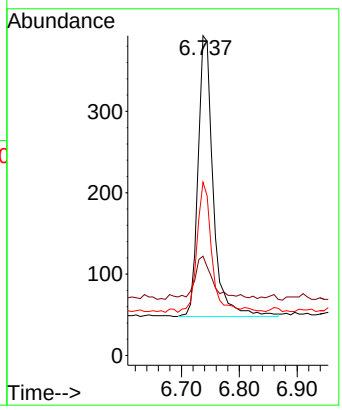


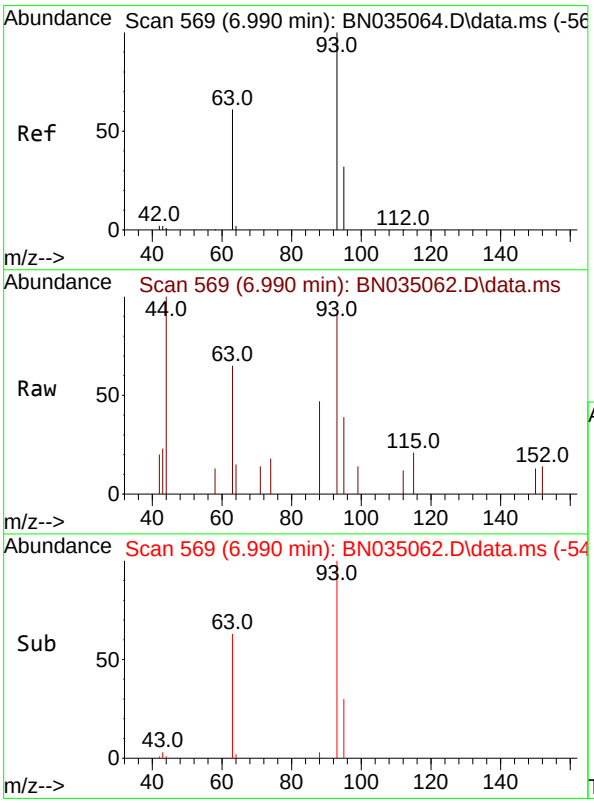
#5
Phenol-d6
Concen: 0.099 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 629

Ion	Ratio	Lower	Upper
99	100		
42	19.6	11.4	17.0#
71	44.5	34.6	51.8

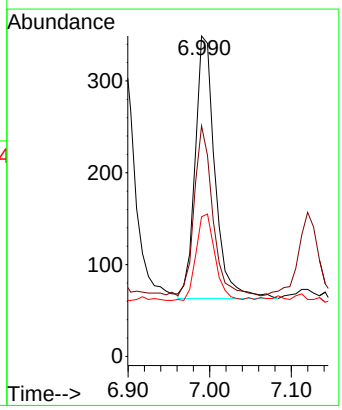


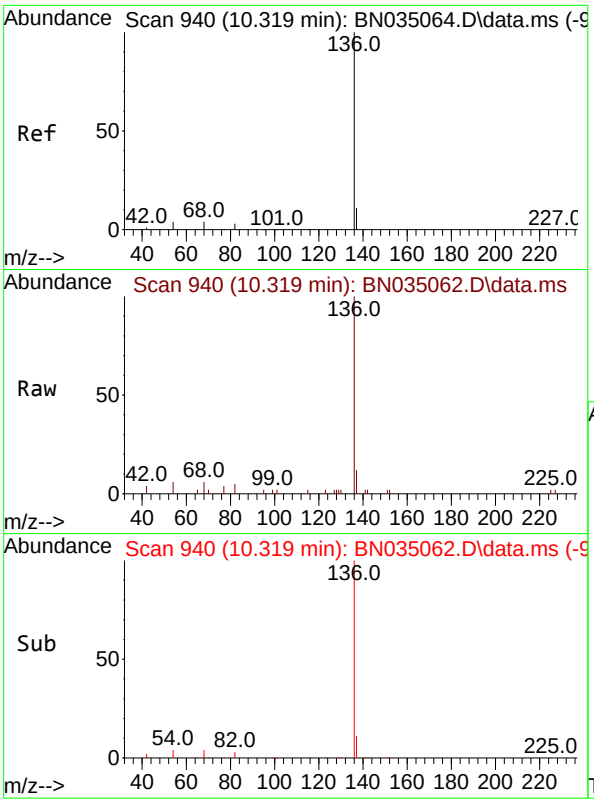


#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 93 Resp: 484

Ion	Ratio	Lower	Upper
93	100		
63	60.1	47.4	71.2
95	31.8	26.2	39.4



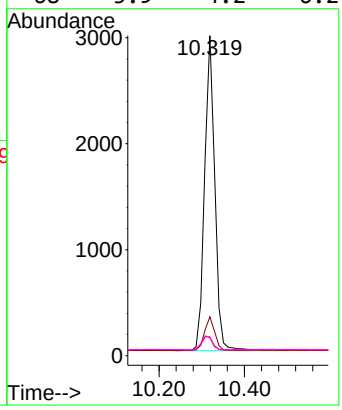


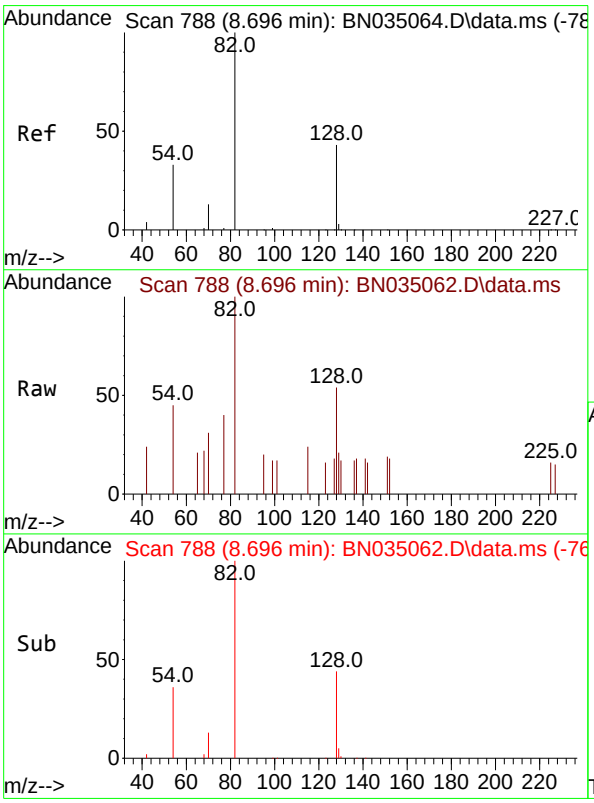
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 4930

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	5.6	4.0	6.0
68	5.9	4.2	6.2

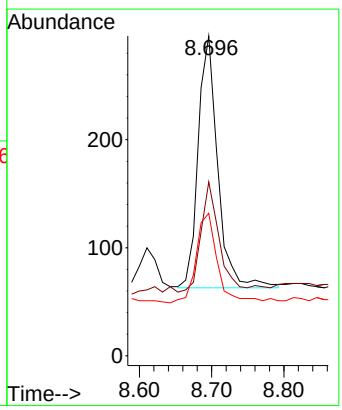


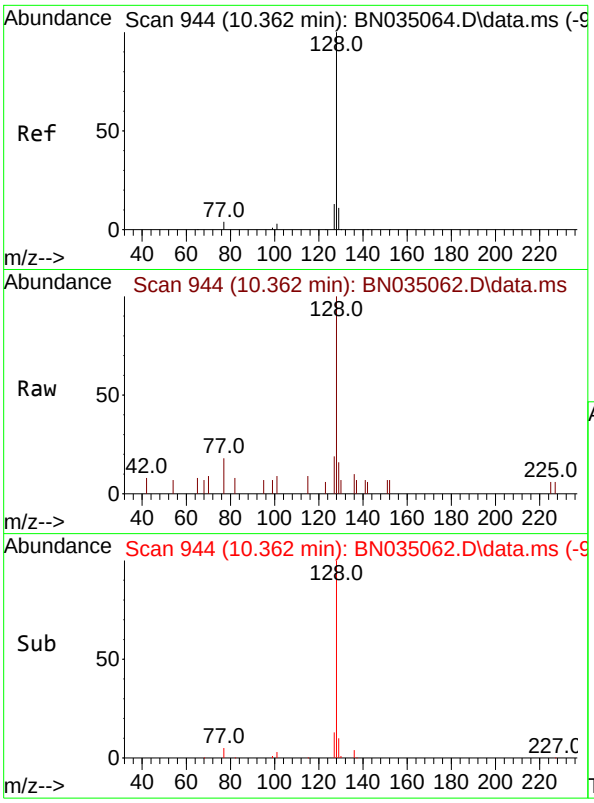


#8
Nitrobenzene-d5
Concen: 0.103 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 82 Resp: 441

Ion	Ratio	Lower	Upper
82	100		
128	54.4	36.5	54.7
54	44.6	28.7	43.1#



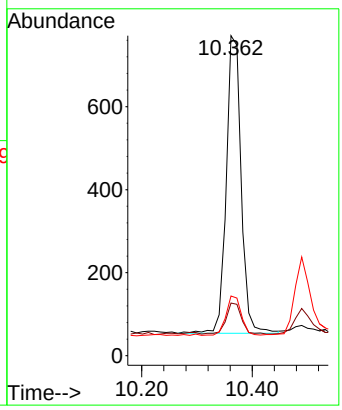


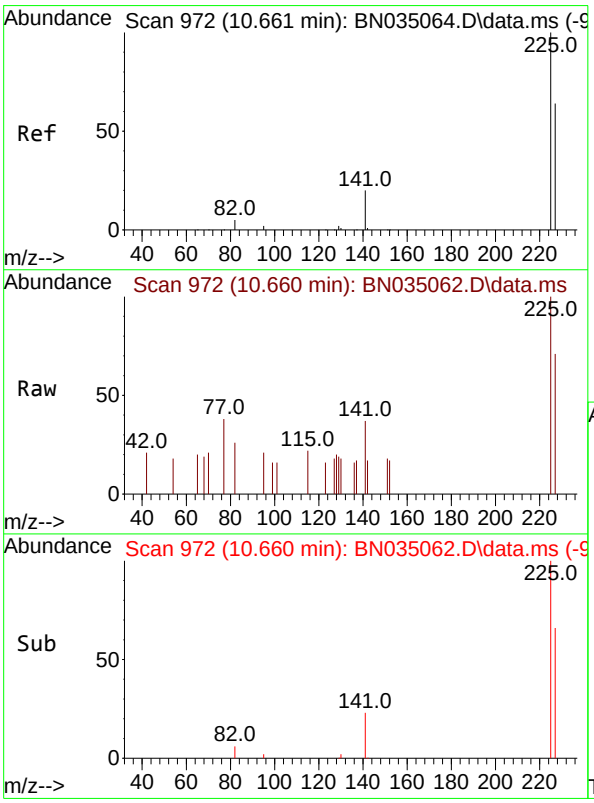
#9
Naphthalene
Concen: 0.104 ng
RT: 10.362 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1341

Ion	Ratio	Lower	Upper
128	100		
129	16.5	9.6	14.4#
127	18.7	11.6	17.4#

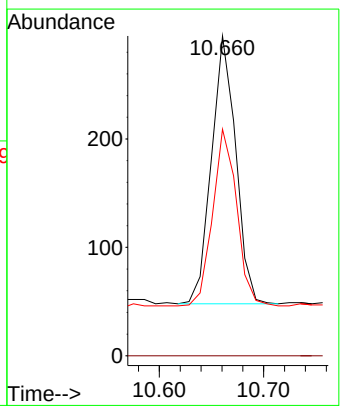


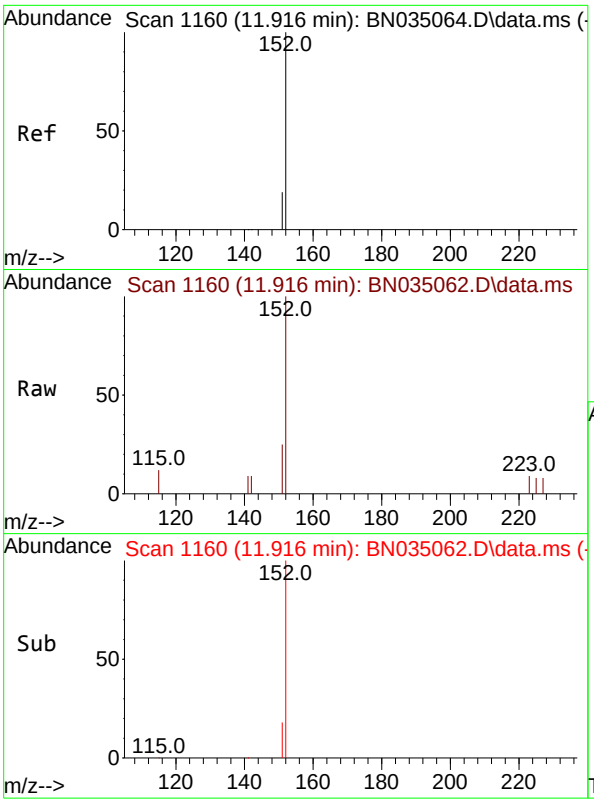


#10
Hexachlorobutadiene
Concen: 0.106 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:225 Resp: 399

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.5	77.3



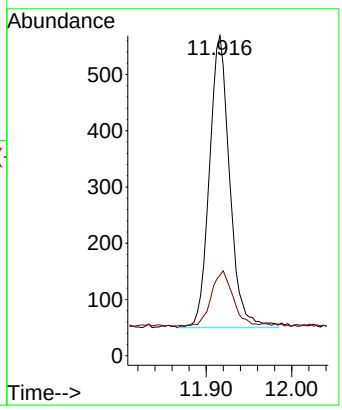


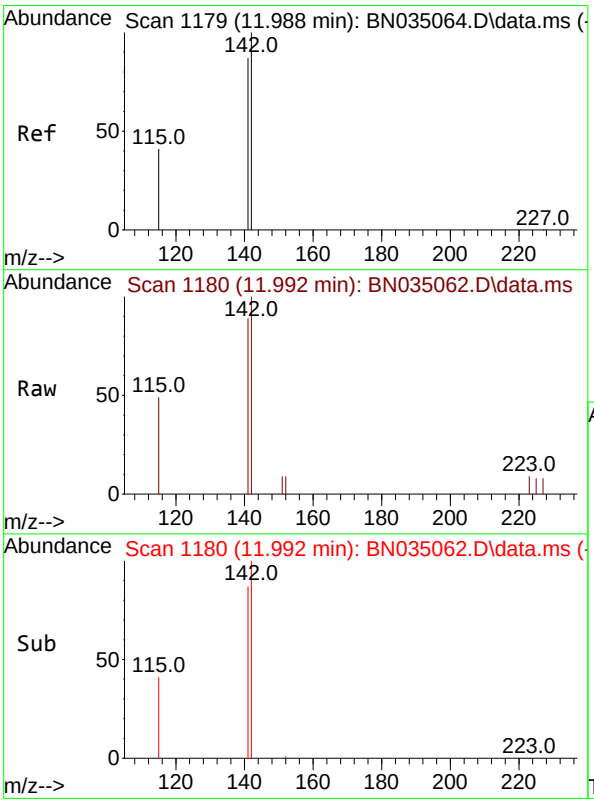
#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 11.916 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 855

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4

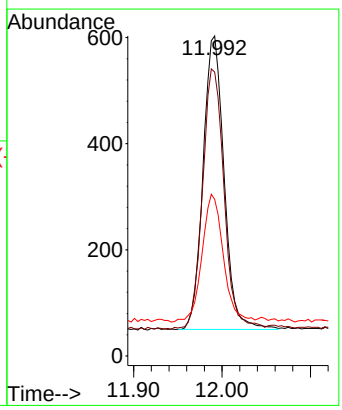


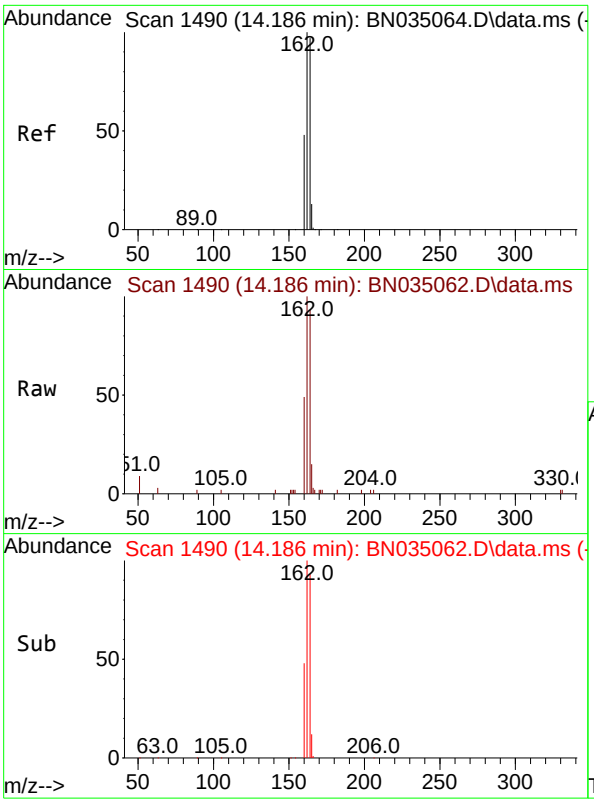


#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.992 min Scan# 1180
Delta R.T. 0.004 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:142 Resp: 914

Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.1	105.1
115	48.9	34.4	51.6



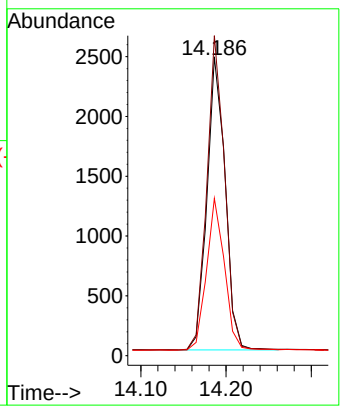


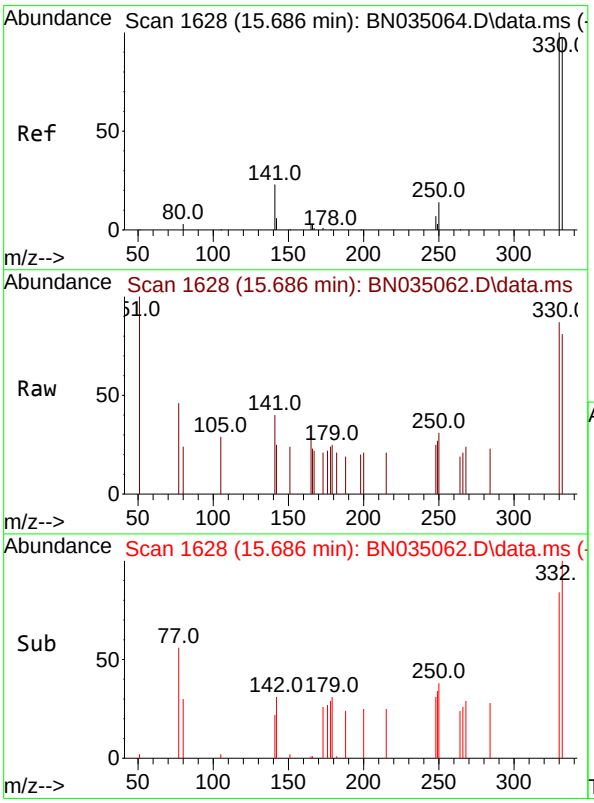
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 3629

Ion	Ratio	Lower	Upper
164	100		
162	107.1	82.2	123.2
160	52.6	40.2	60.4

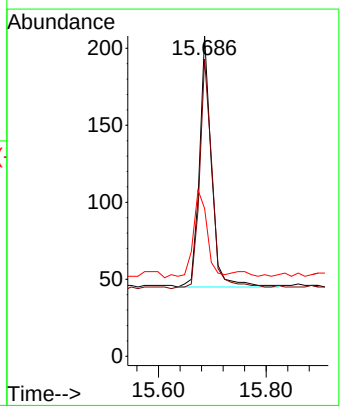


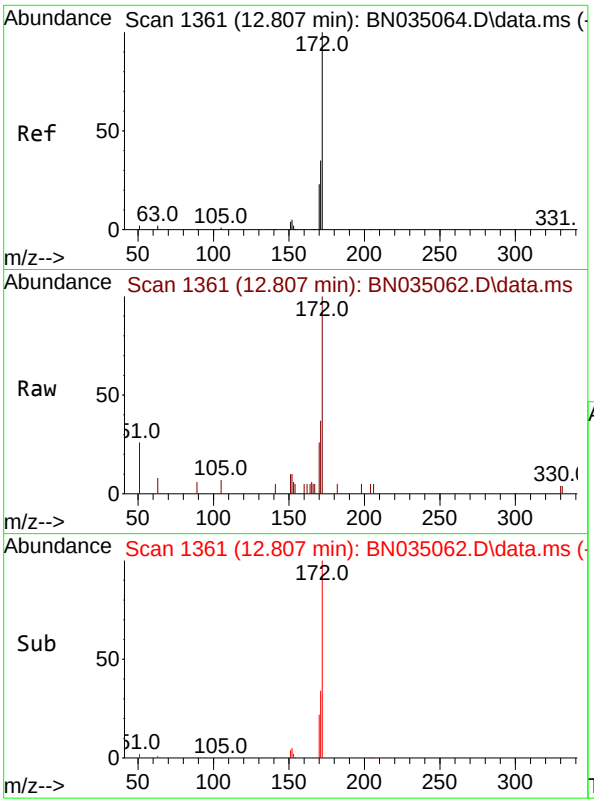


#14
2,4,6-Tribromophenol
Concen: 0.097 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:330 Resp: 255

Ion	Ratio	Lower	Upper
330	100		
332	90.6	76.9	115.3
141	37.6	29.6	44.4



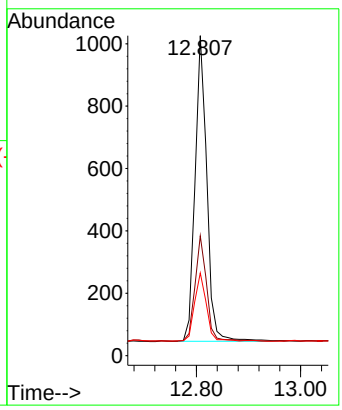


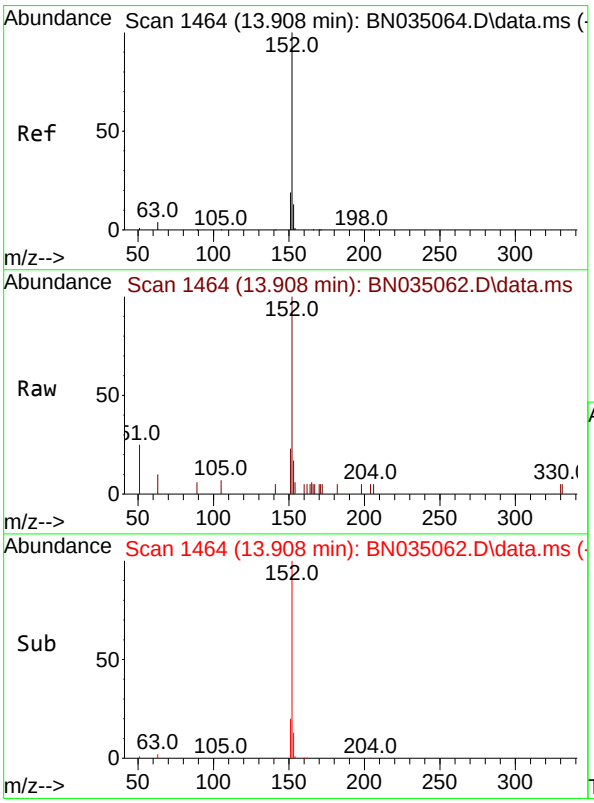
#15
2-Fluorobiphenyl
Concen: 0.105 ng
RT: 12.807 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1543

Ion	Ratio	Lower	Upper
172	100		
171	37.4	28.2	42.4
170	25.8	19.0	28.6

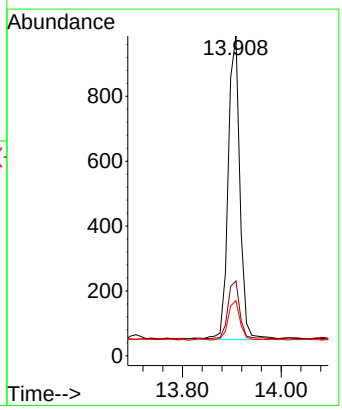


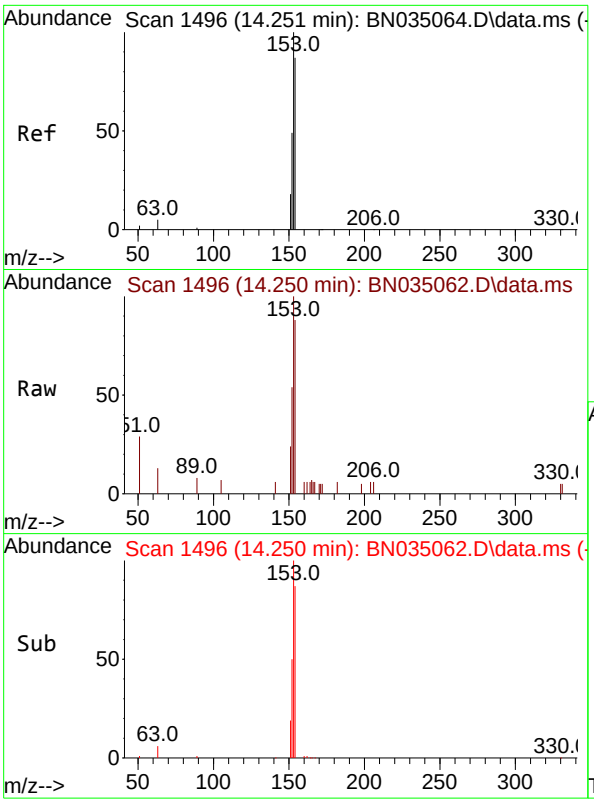


#16
Acenaphthylene
Concen: 0.100 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:152 Resp: 1556

Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.8	23.8
153	13.2	10.2	15.4



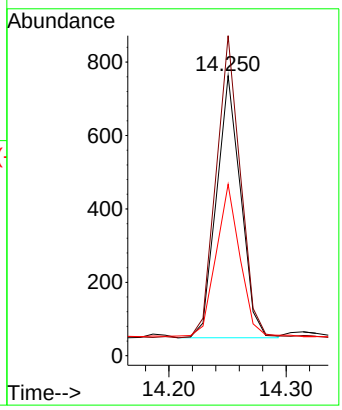


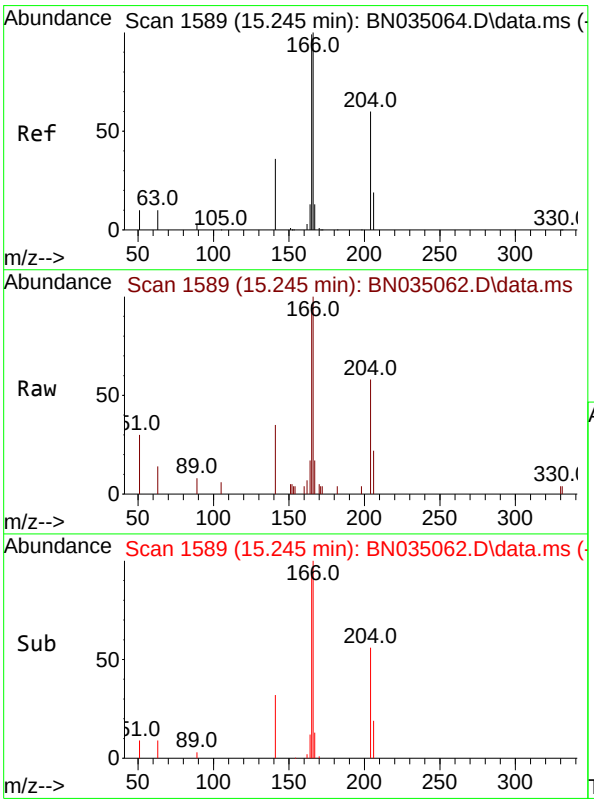
#17
Acenaphthene
Concen: 0.101 ng
RT: 14.250 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1024

Ion	Ratio	Lower	Upper
154	100		
153	116.6	91.6	137.4
152	57.9	45.8	68.6

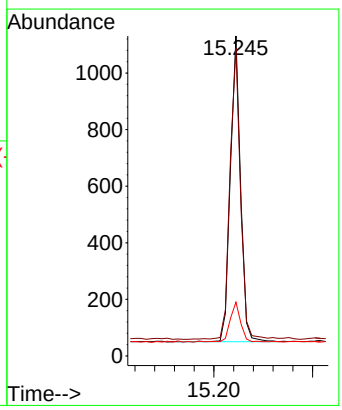


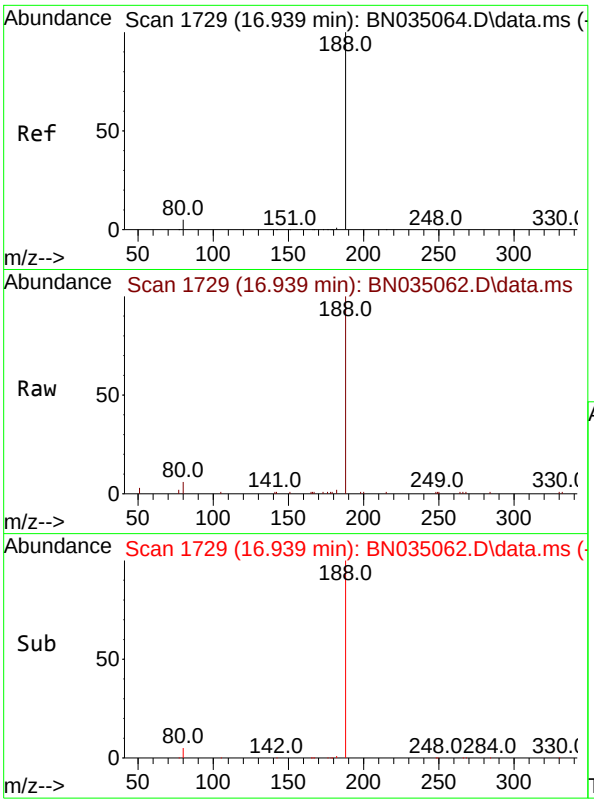


#18
Fluorene
Concen: 0.103 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:166 Resp: 1546

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.1	118.7
167	12.9	10.6	16.0



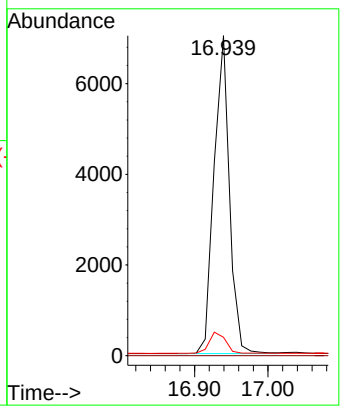


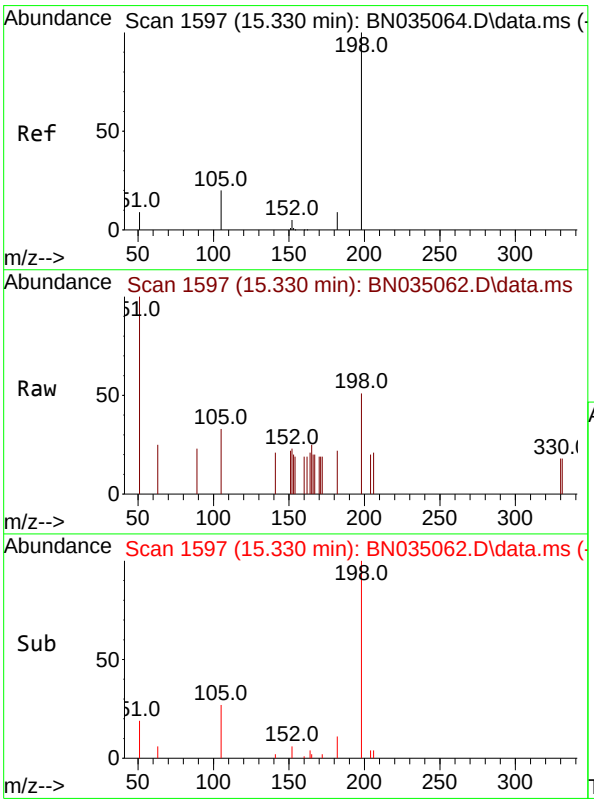
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 10187

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.3	6.5

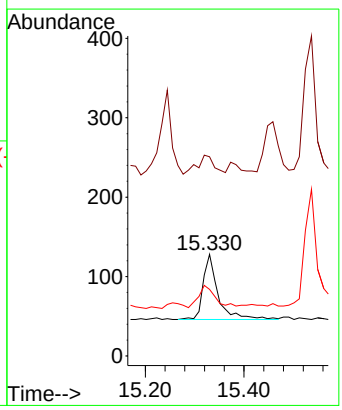


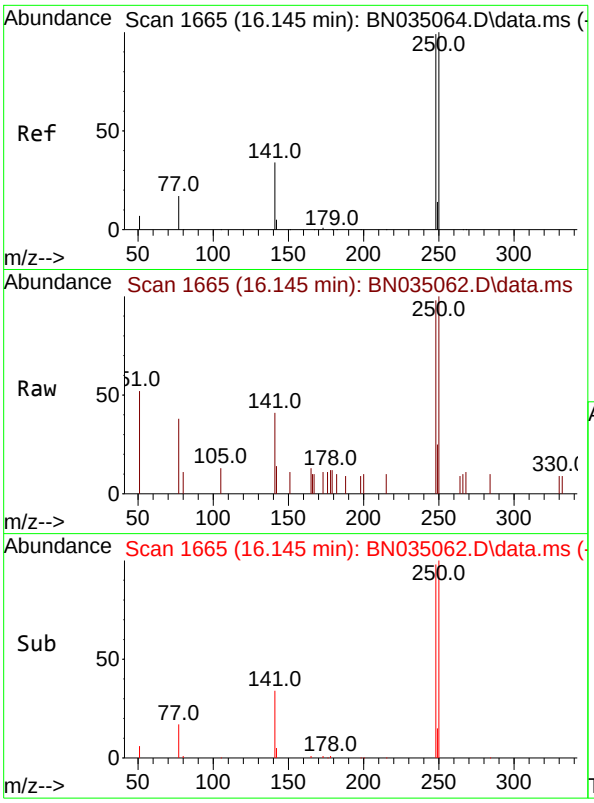


#20
4,6-Dinitro-2-methylphenol
Concen: 0.081 ng
RT: 15.330 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:198 Resp: 172

Ion	Ratio	Lower	Upper
198	100		
51	196.1	29.9	44.9#
105	65.6	23.7	35.5#



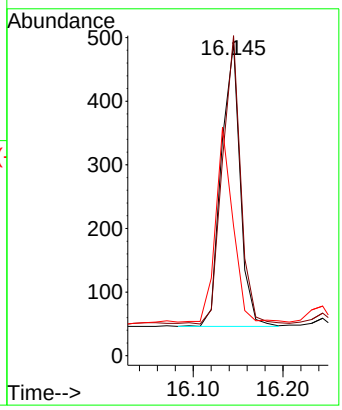


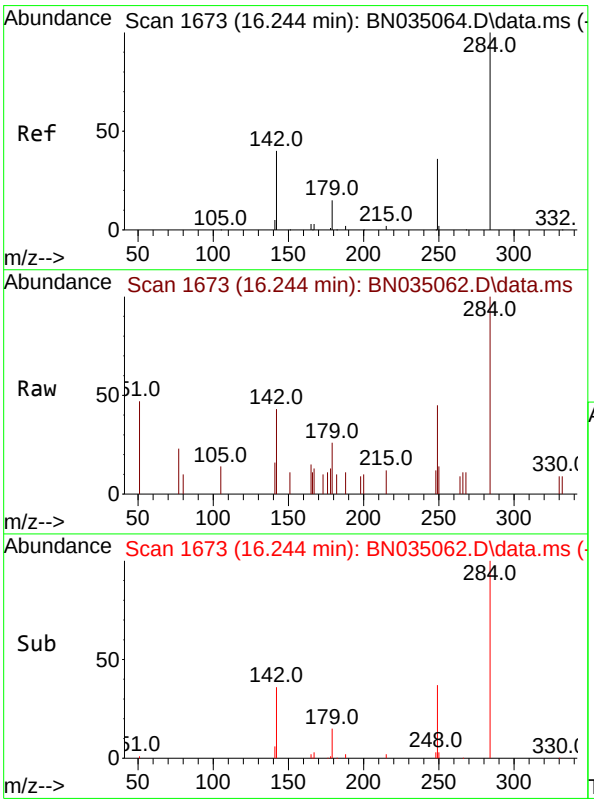
#21
4-Bromophenyl-phenylether
Concen: 0.100 ng
RT: 16.145 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 651

Ion	Ratio	Lower	Upper
248	100		
250	102.4	81.2	121.8
141	41.5	29.1	43.7

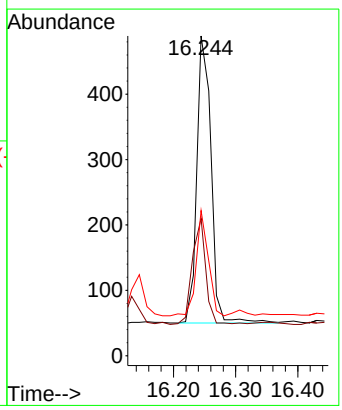


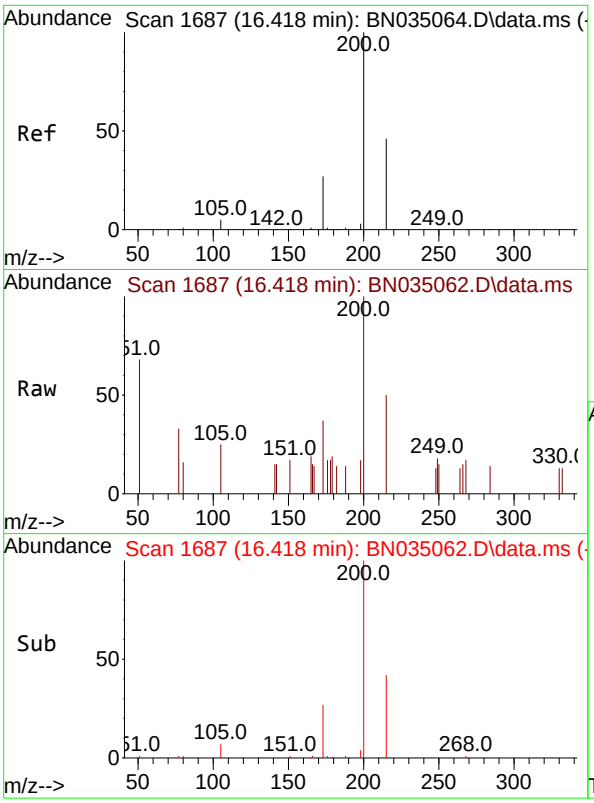


#22
Hexachlorobenzene
Concen: 0.104 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:284 Resp: 701

Ion	Ratio	Lower	Upper
284	100		
142	34.5	28.2	42.4
249	31.4	26.2	39.2



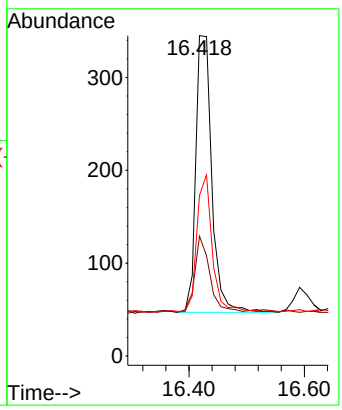


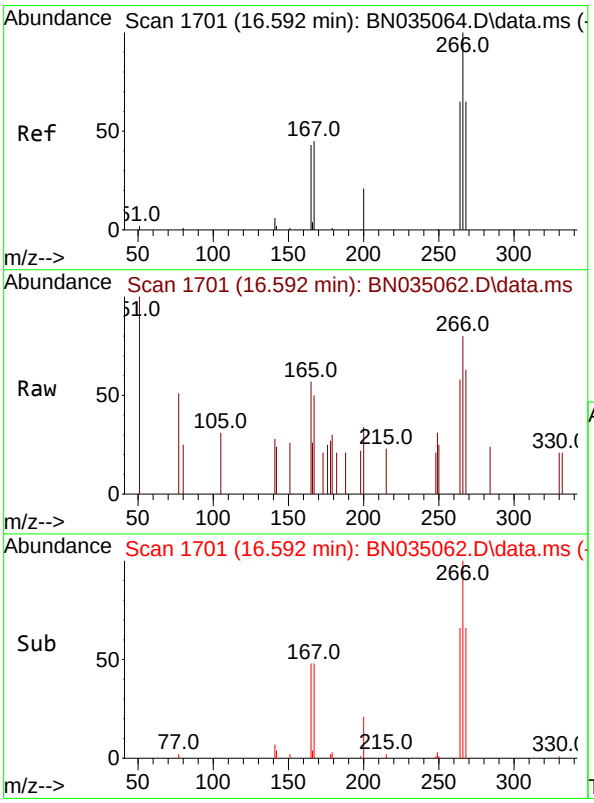
#23
Atrazine
Concen: 0.099 ng
RT: 16.418 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 577

Ion	Ratio	Lower	Upper
200	100		
173	37.4	22.6	33.8#
215	50.1	37.8	56.6

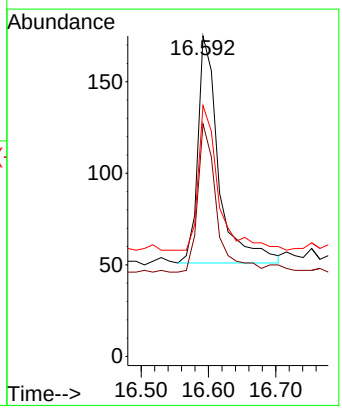


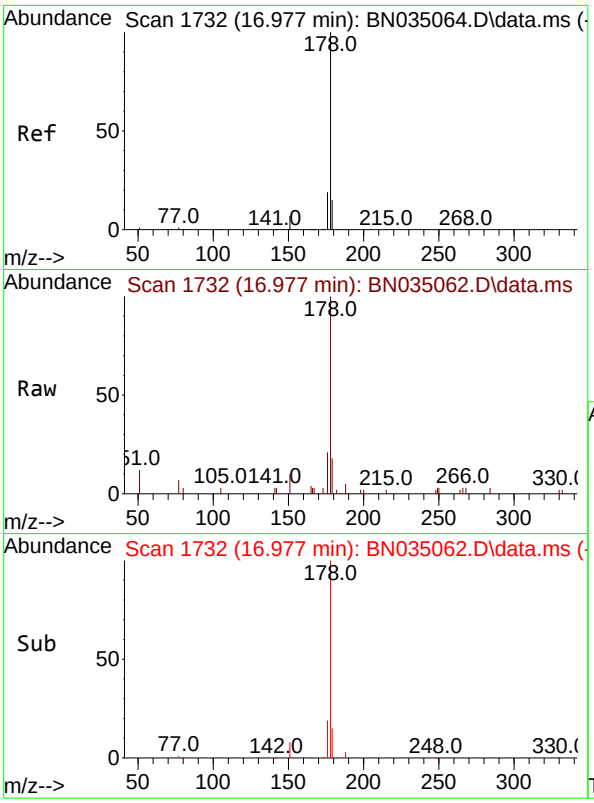


#24
Pentachlorophenol
Concen: 0.085 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:266 Resp: 269

Ion	Ratio	Lower	Upper
266	100		
264	58.4	49.4	74.0
268	60.2	52.6	79.0



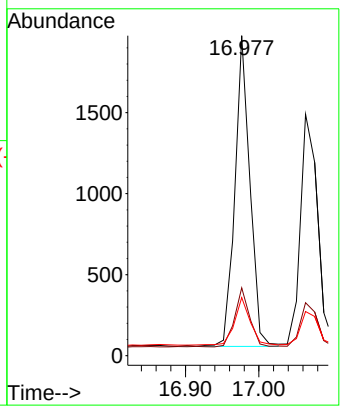


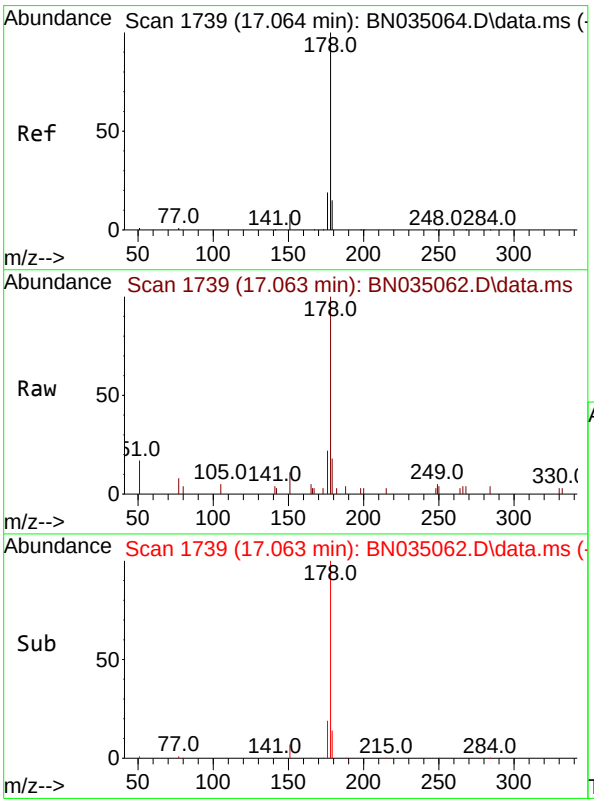
#25
Phenanthrene
Concen: 0.102 ng
RT: 16.977 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2723

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.9	12.6	18.8

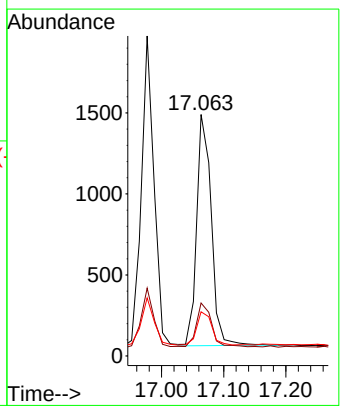


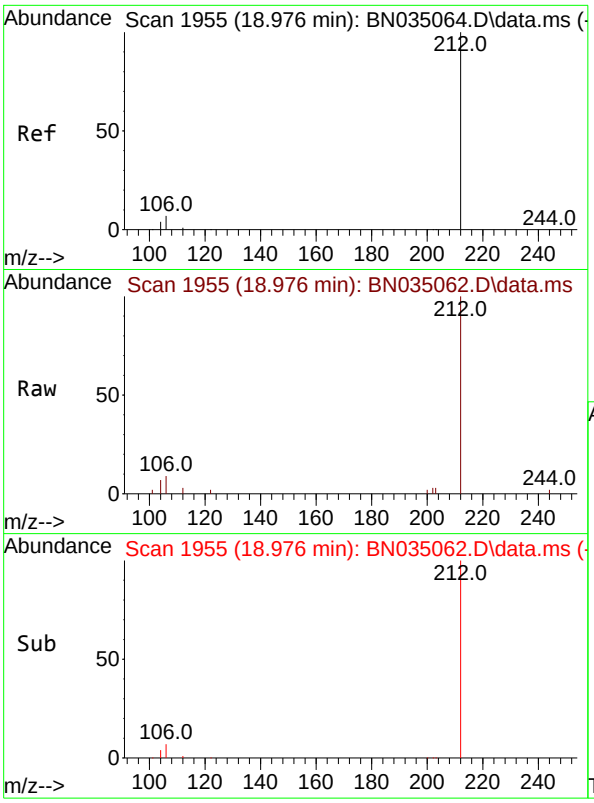


#26
Anthracene
Concen: 0.095 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:178 Resp: 2335

Ion	Ratio	Lower	Upper
178	100		
176	19.6	14.6	22.0
179	14.8	12.2	18.2



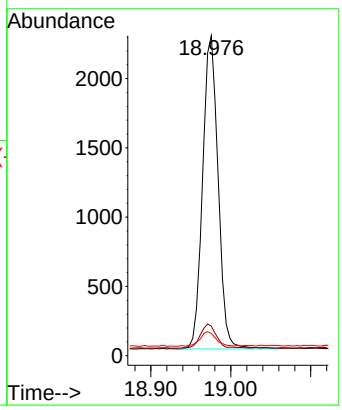


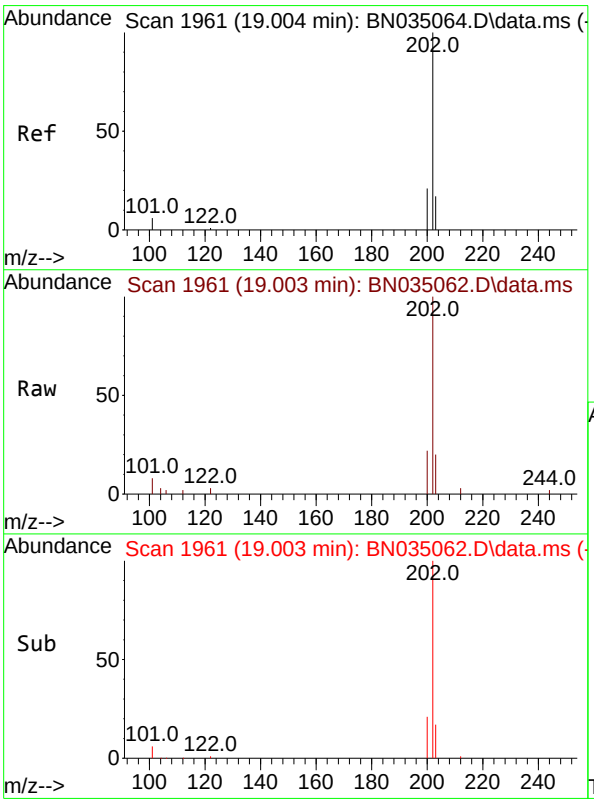
#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 3046

Ion	Ratio	Lower	Upper
212	100		
106	7.8	6.0	9.0
104	4.8	3.5	5.3

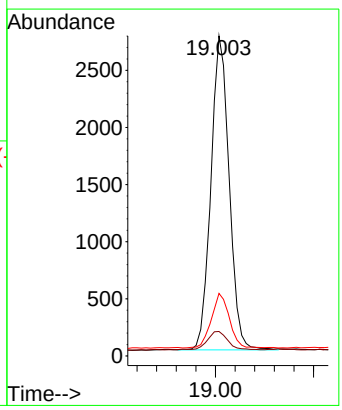


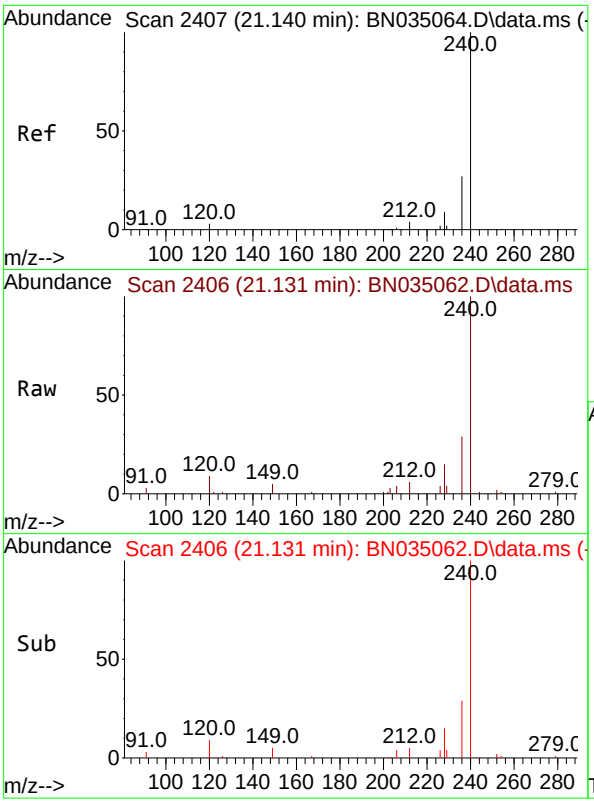


#28
Fluoranthene
Concen: 0.096 ng
RT: 19.003 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:202 Resp: 3554

Ion	Ratio	Lower	Upper
202	100		
101	6.7	5.2	7.8
203	17.2	13.8	20.8



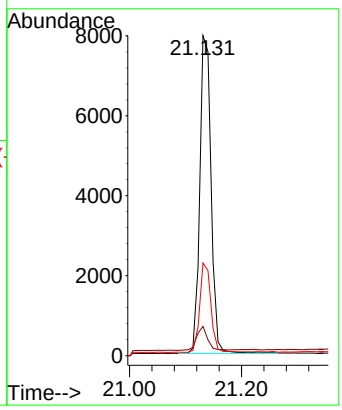


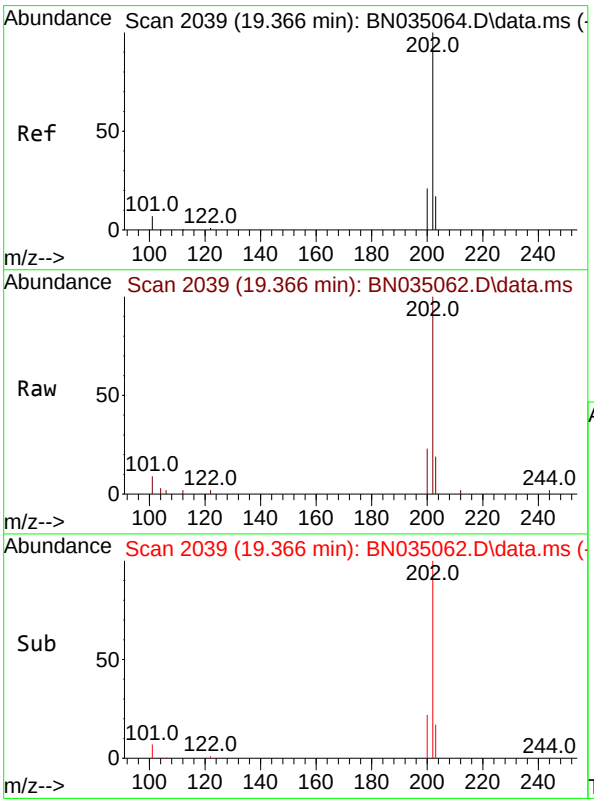
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.131 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 11121

Ion	Ratio	Lower	Upper
240	100		
120	9.1	3.8	5.6#
236	28.9	22.2	33.2

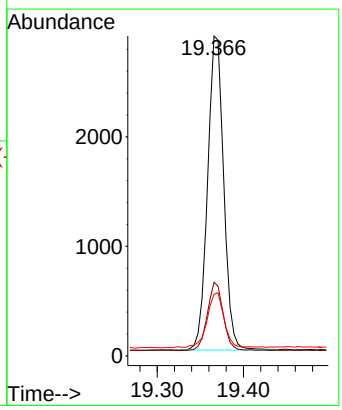


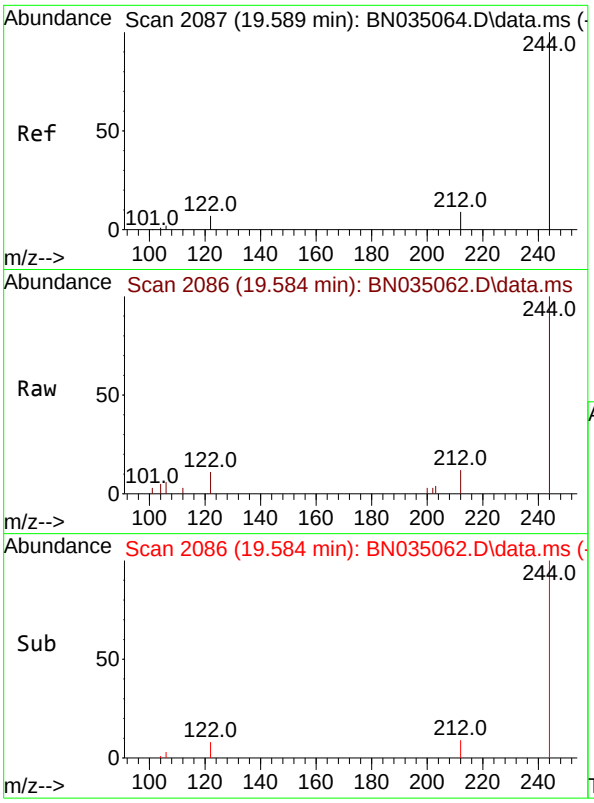


#30
Pyrene
Concen: 0.101 ng
RT: 19.366 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:202 Resp: 3722

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	18.8	14.2	21.4



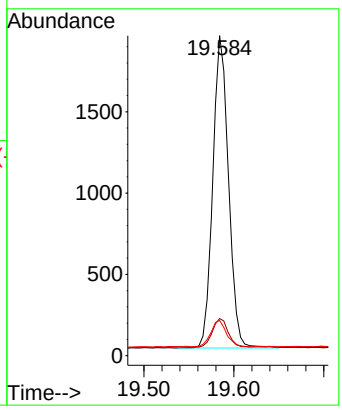


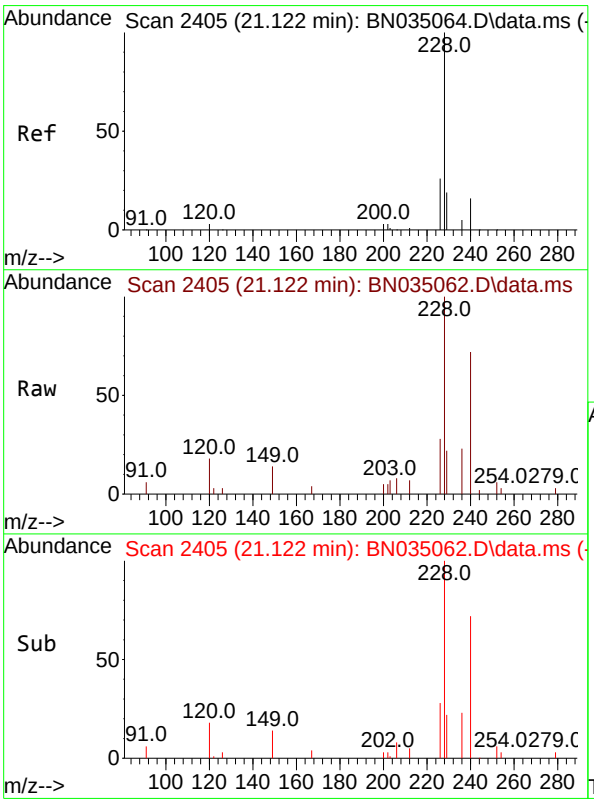
#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.584 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 2331

Ion	Ratio	Lower	Upper
244	100		
212	11.6	7.6	11.4#
122	11.0	6.1	9.1#

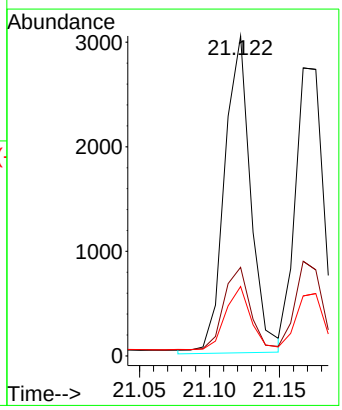


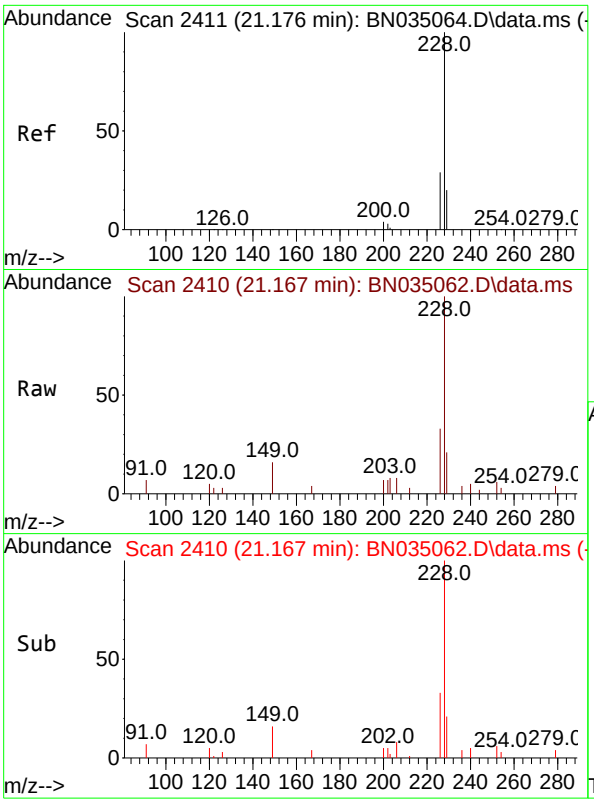


#32
Benzo(a)anthracene
Concen: 0.102 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:228 Resp: 3952

Ion	Ratio	Lower	Upper
228	100		
226	27.7	21.4	32.0
229	21.7	15.7	23.5



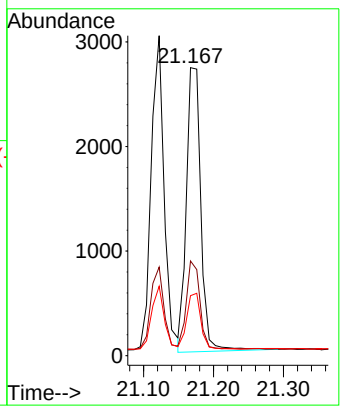


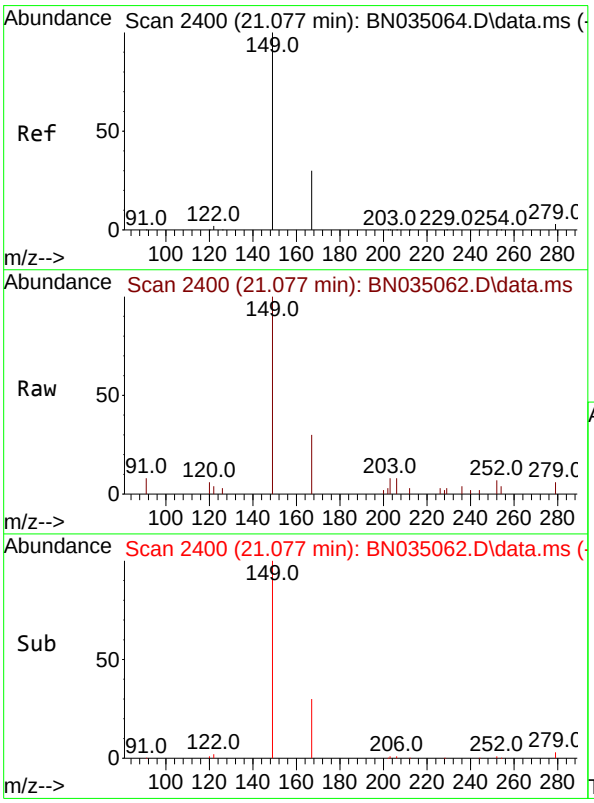
#33
Chrysene
Concen: 0.102 ng
RT: 21.167 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 3918

Ion	Ratio	Lower	Upper
228	100		
226	32.9	23.7	35.5
229	20.8	16.2	24.4

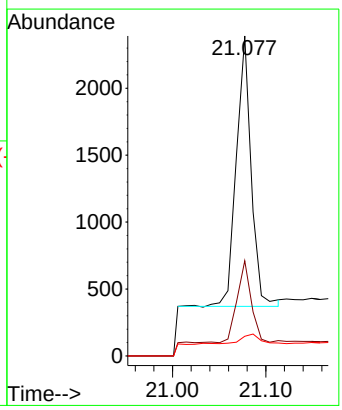


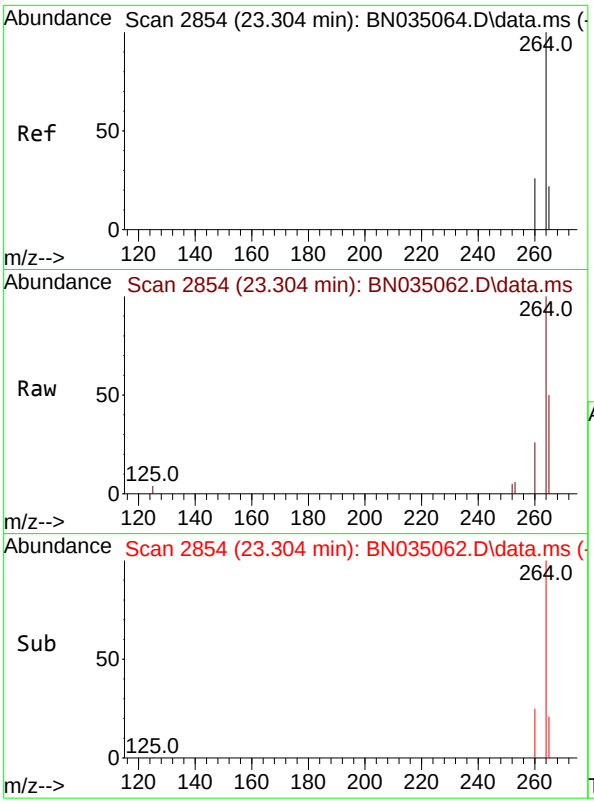


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.112 ng
RT: 21.077 min Scan# 2400
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:149 Resp: 2250

Ion	Ratio	Lower	Upper
149	100		
167	29.3	23.2	34.8
279	5.8	3.2	4.8#



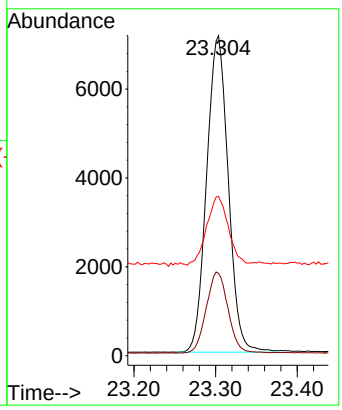


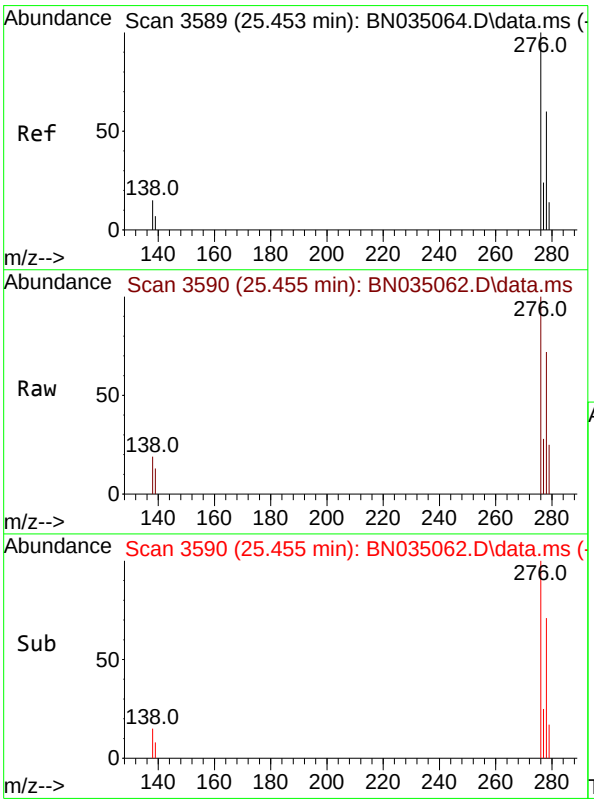
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.304 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 13104

Ion	Ratio	Lower	Upper
264	100		
260	25.7	20.9	31.3
265	49.8	35.4	53.2

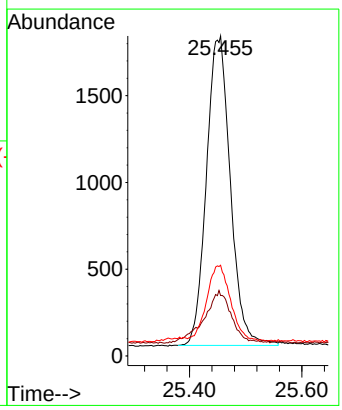


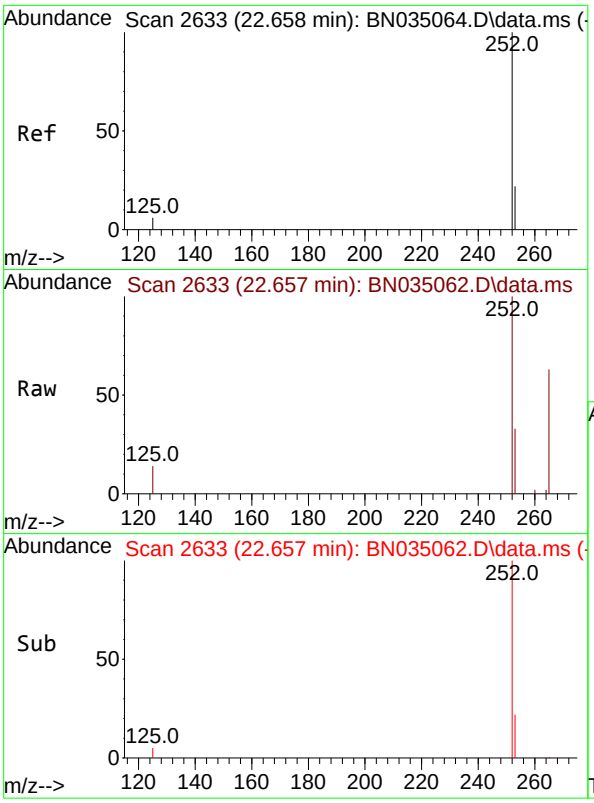


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.101 ng
RT: 25.455 min Scan# 3590
Delta R.T. 0.003 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:276 Resp: 5271

Ion	Ratio	Lower	Upper
276	100		
138	19.3	13.0	19.4
277	23.9	19.8	29.6



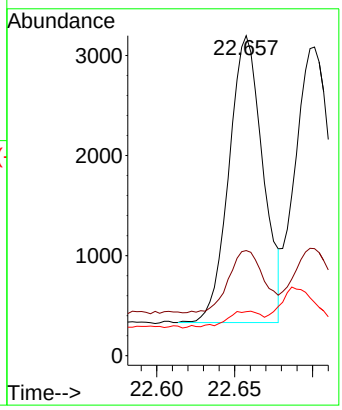


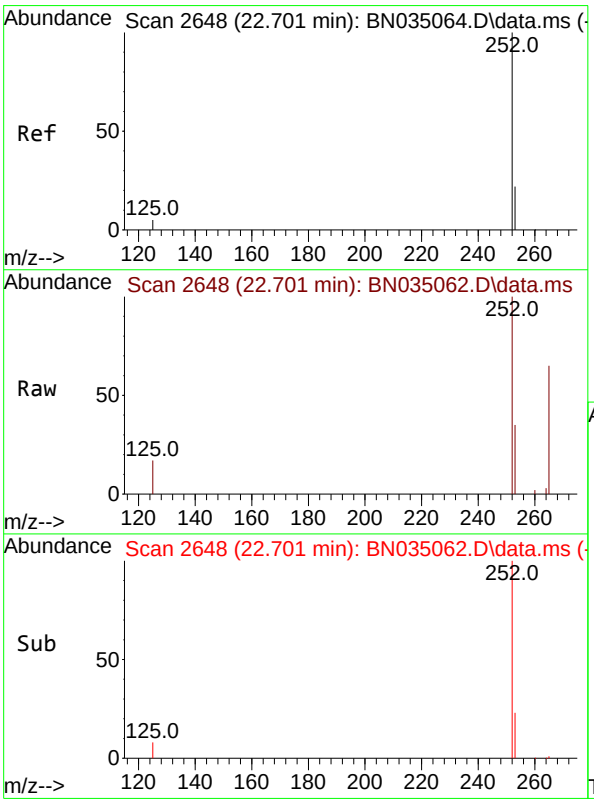
#37
Benzo(b)fluoranthene
Concen: 0.099 ng
RT: 22.657 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 4345

Ion	Ratio	Lower	Upper
252	100		
253	32.9	19.3	28.9#
125	13.8	6.2	9.2#

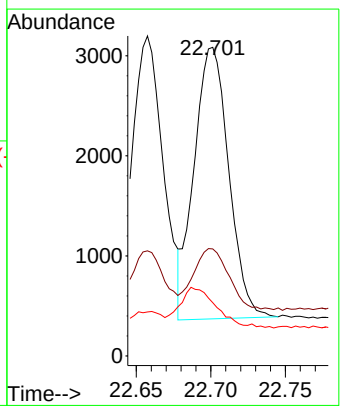


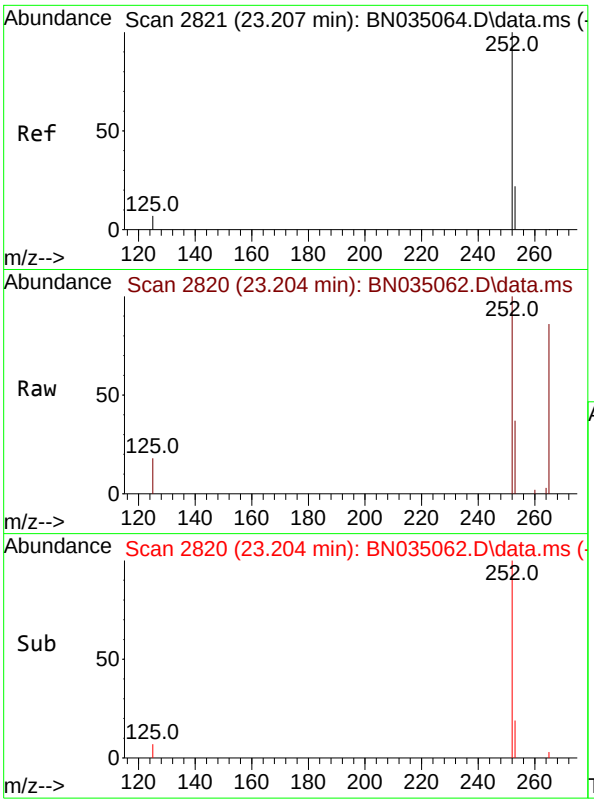


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.701 min Scan# 2648
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:252 Resp: 4395

Ion	Ratio	Lower	Upper
252	100		
253	34.7	19.5	29.3#
125	17.3	6.5	9.7#



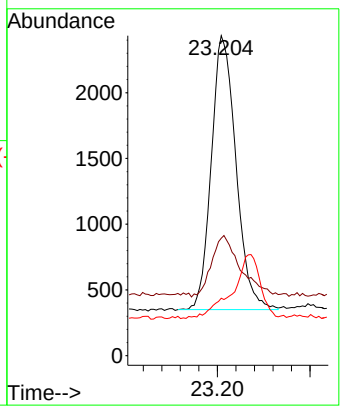


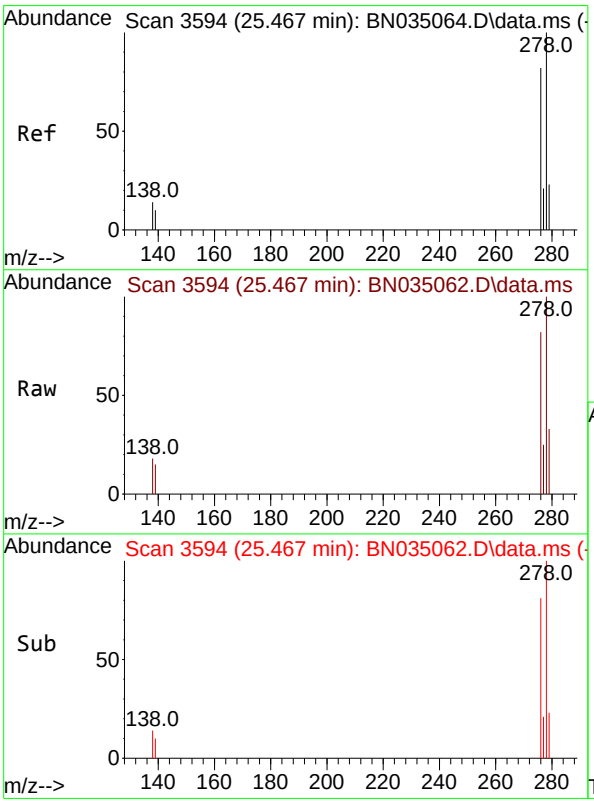
#39
Benzo(a)pyrene
Concen: 0.099 ng
RT: 23.204 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 3841

Ion	Ratio	Lower	Upper
252	100		
253	36.7	20.1	30.1#
125	18.0	7.5	11.3#

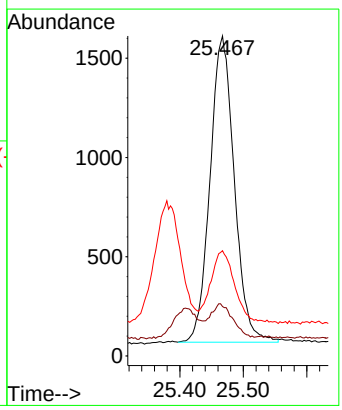


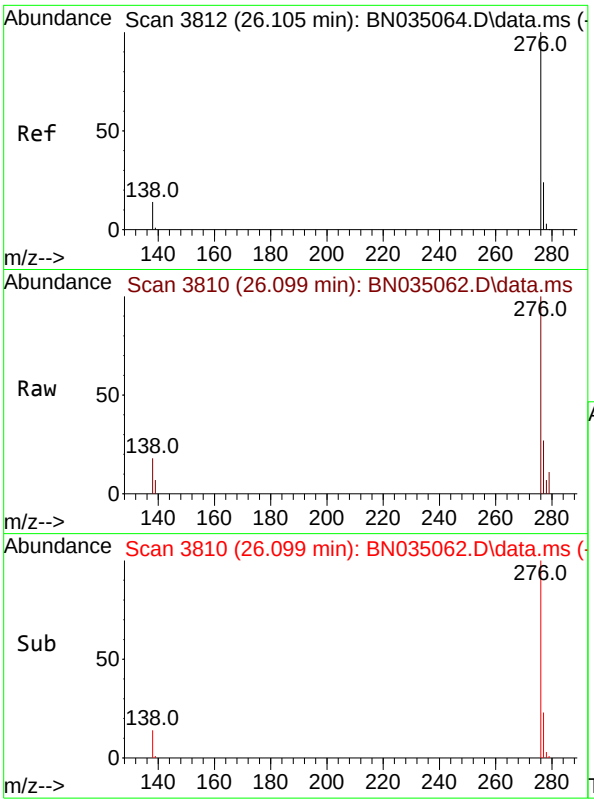


#40
Dibenzo(a,h)anthracene
Concen: 0.099 ng
RT: 25.467 min Scan# 3594
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:278 Resp: 4089

Ion	Ratio	Lower	Upper
278	100		
139	15.4	9.3	13.9#
279	32.9	19.7	29.5#



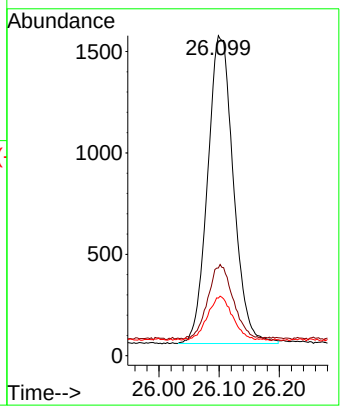


#41
Benzo(g,h,i)perylene
Concen: 0.103 ng
RT: 26.099 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 4521

Ion	Ratio	Lower	Upper
276	100		
277	27.4	19.9	29.9
138	18.0	11.6	17.4#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035063.D
Acq On : 13 Nov 2024 13:16
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 13 16:43:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	2177	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	5449	0.400	ng		0.00
13) Acenaphthene-d10	14.186	164	4114	0.400	ng		0.00
19) Phenanthrene-d10	16.939	188	11179	0.400	ng		0.00
29) Chrysene-d12	21.131	240	12508	0.400	ng	#	0.00
35) Perylene-d12	23.301	264	14643	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	1131	0.205	ng		0.00
5) Phenol-d6	6.737	99	1392	0.201	ng		0.00
8) Nitrobenzene-d5	8.696	82	921	0.195	ng		0.00
11) 2-Methylnaphthalene-d10	11.916	152	1861	0.192	ng		0.00
14) 2,4,6-Tribromophenol	15.686	330	538	0.181	ng		0.00
15) 2-Fluorobiphenyl	12.807	172	3241	0.194	ng		0.00
27) Fluoranthene-d10	18.976	212	6587	0.192	ng		0.00
31) Terphenyl-d14	19.584	244	5123	0.195	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.177	88	416	0.210	ng		94
3) n-Nitrosodimethylamine	3.480	42	357	0.194	ng	#	97
6) bis(2-Chloroethyl)ether	6.990	93	1033	0.199	ng		99
9) Naphthalene	10.362	128	2748	0.193	ng		96
10) Hexachlorobutadiene	10.661	225	832	0.200	ng	#	99
12) 2-Methylnaphthalene	11.992	142	2039	0.194	ng		97
16) Acenaphthylene	13.908	152	3325	0.189	ng		100
17) Acenaphthene	14.251	154	2219	0.193	ng		99
18) Fluorene	15.245	166	3273	0.193	ng		99
20) 4,6-Dinitro-2-methylph...	15.330	198	376	0.162	ng	#	44
21) 4-Bromophenyl-phenylether	16.145	248	1341	0.188	ng		97
22) Hexachlorobenzene	16.244	284	1445	0.195	ng		99
23) Atrazine	16.418	200	1271	0.199	ng		96
24) Pentachlorophenol	16.592	266	562	0.163	ng		99
25) Phenanthrene	16.977	178	5664	0.193	ng		99
26) Anthracene	17.064	178	5051	0.187	ng		98
28) Fluoranthene	19.004	202	7690	0.190	ng		100
30) Pyrene	19.366	202	8067	0.194	ng		99
32) Benzo(a)anthracene	21.122	228	8558	0.196	ng		99
33) Chrysene	21.167	228	8540	0.198	ng		97
34) Bis(2-ethylhexyl)phtha...	21.077	149	4712	0.208	ng		99
36) Indeno(1,2,3-cd)pyrene	25.450	276	11095	0.190	ng		99
37) Benzo(b)fluoranthene	22.657	252	9315	0.189	ng	#	94
38) Benzo(k)fluoranthene	22.698	252	9432	0.191	ng	#	92
39) Benzo(a)pyrene	23.204	252	8302	0.192	ng	#	92
40) Dibenzo(a,h)anthracene	25.464	278	8750	0.189	ng		95
41) Benzo(g,h,i)perylene	26.099	276	9431	0.192	ng		98

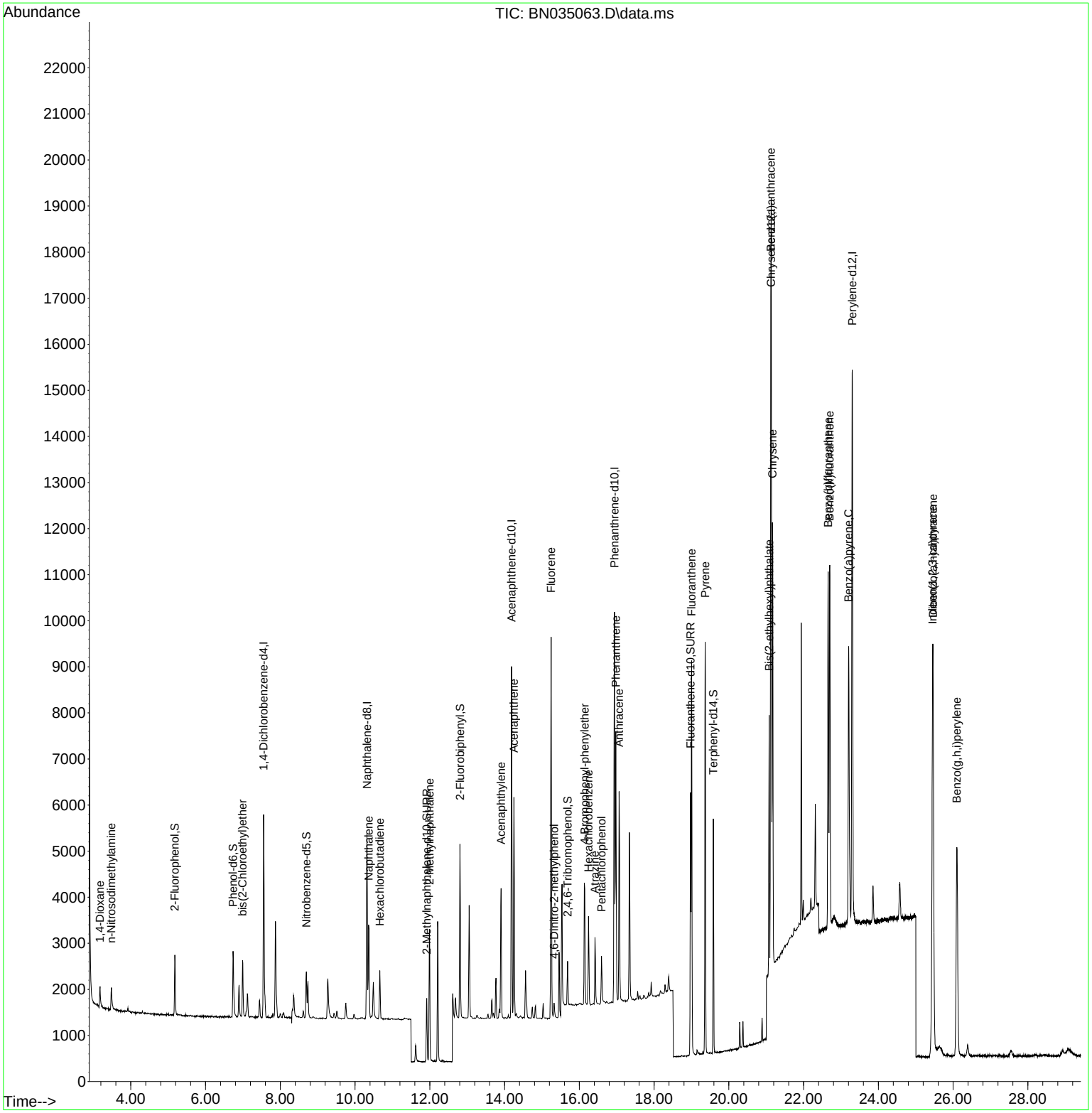
(#) = qualifier out of range (m) = manual integration (+) = signals summed

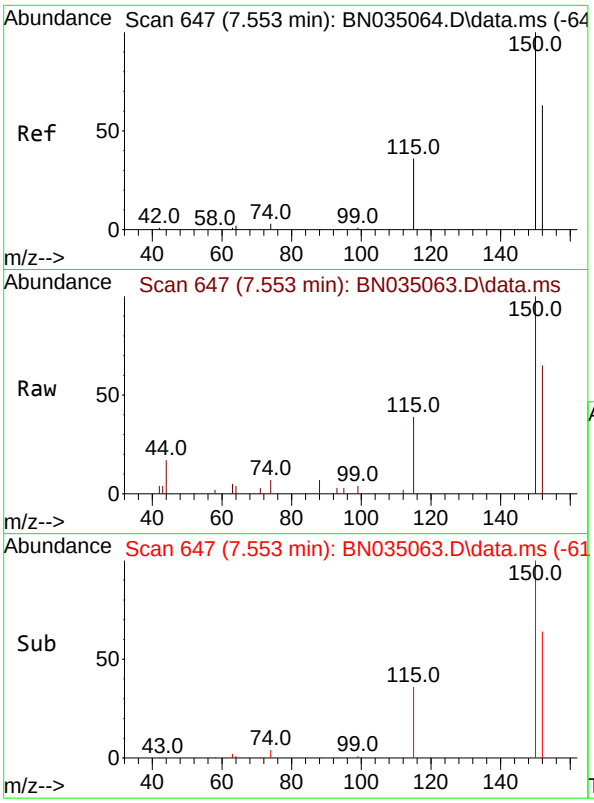
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035063.D
Acq On : 13 Nov 2024 13:16
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 13 16:43:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



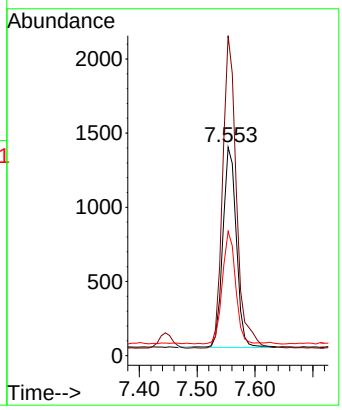


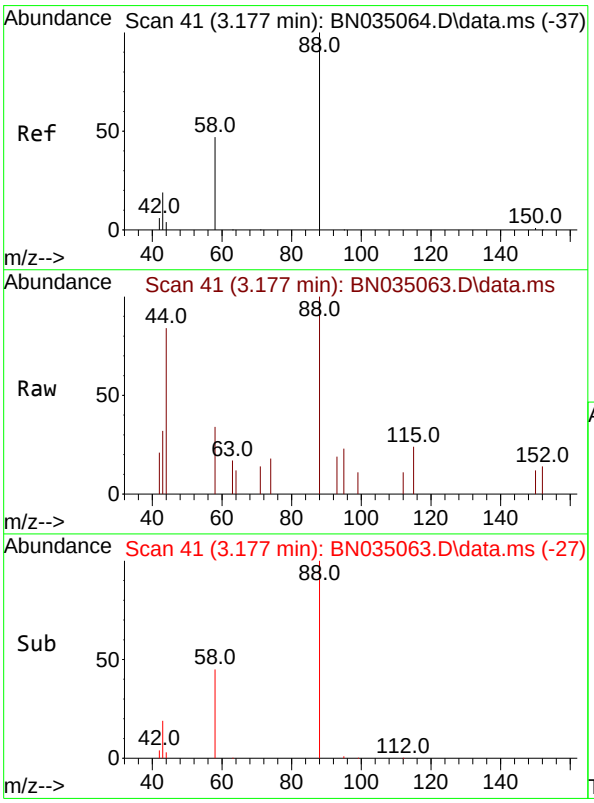
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2177

Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.5	186.7
115	59.6	47.8	71.6

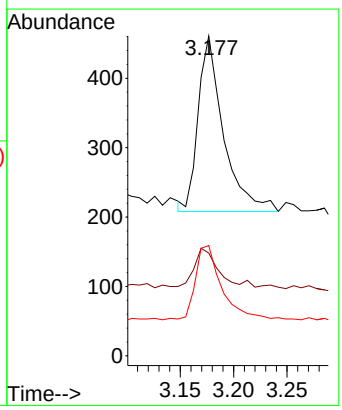


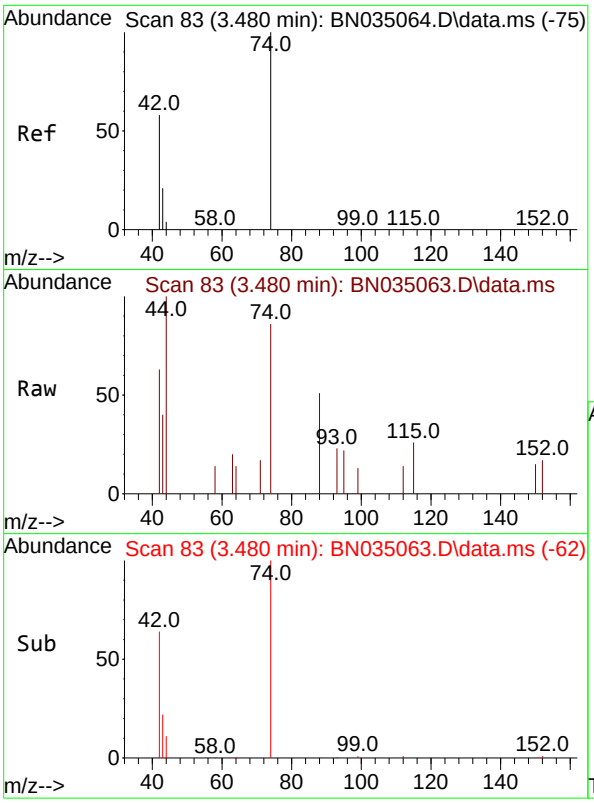


#2
1,4-Dioxane
Concen: 0.210 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 88 Resp: 416

Ion	Ratio	Lower	Upper
88	100		
43	24.3	16.9	25.3
58	44.5	39.0	58.4



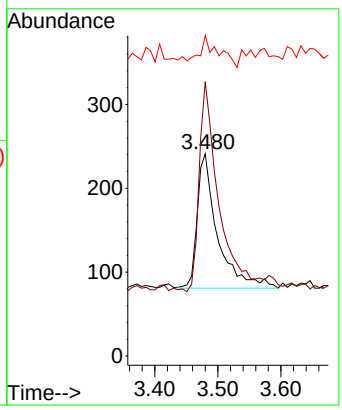


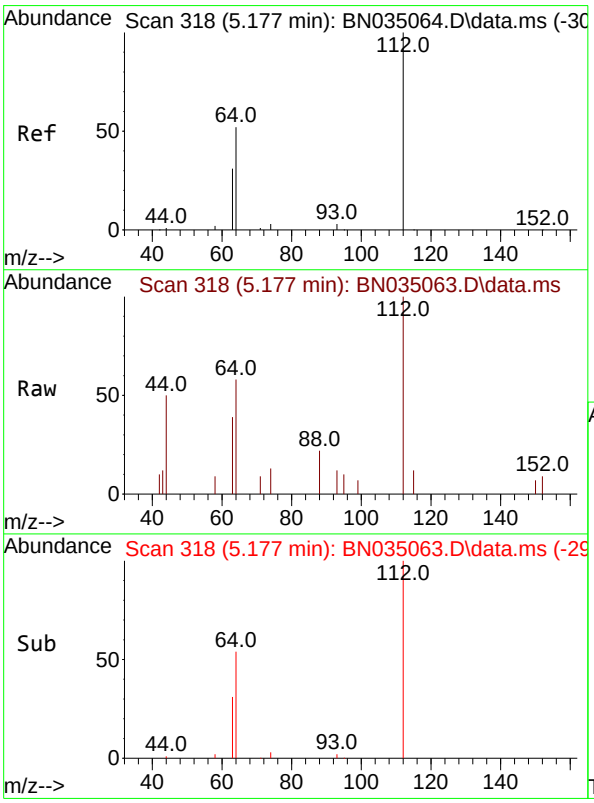
#3
n-Nitrosodimethylamine
Concen: 0.194 ng
RT: 3.480 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 357

Ion	Ratio	Lower	Upper
42	100		
74	149.3	120.8	181.2
44	22.1	2.9	4.3#

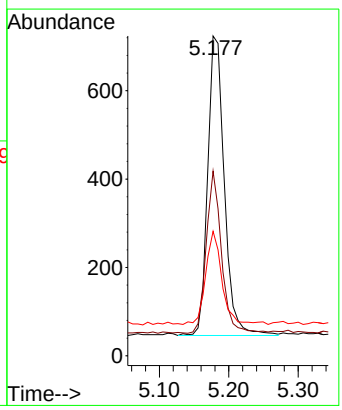


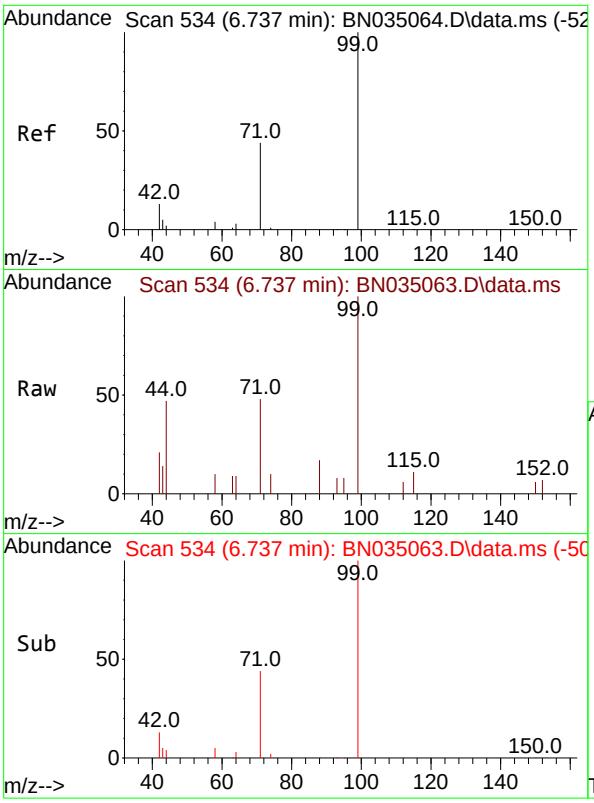


#4
2-Fluorophenol
Concen: 0.205 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:112 Resp: 1131

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.7	59.5
63	30.4	23.0	34.4



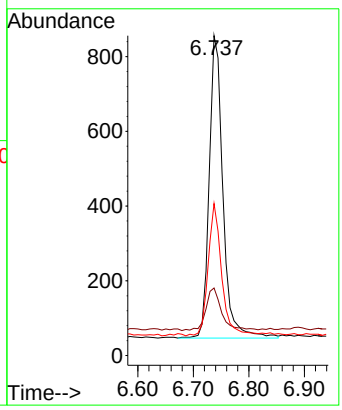


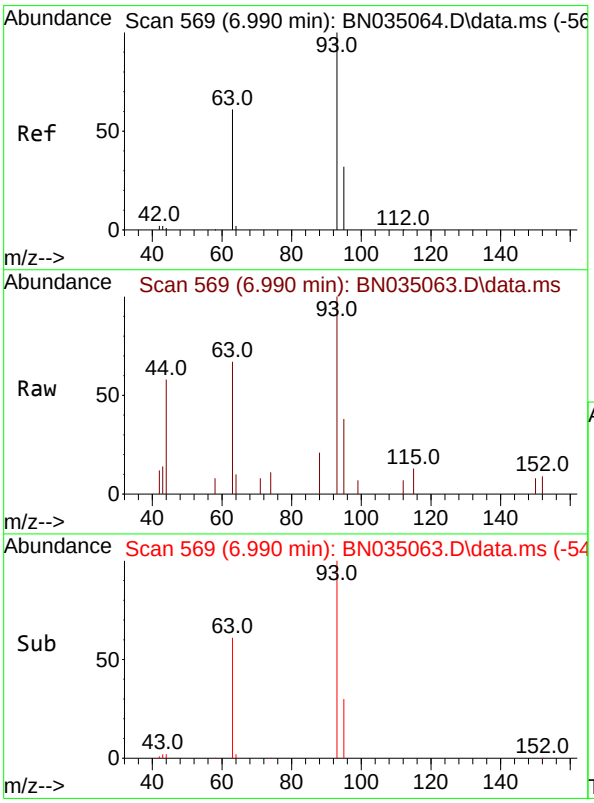
#5
Phenol-d6
Concen: 0.201 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1392

Ion	Ratio	Lower	Upper
99	100		
42	16.1	11.4	17.0
71	43.0	34.6	51.8

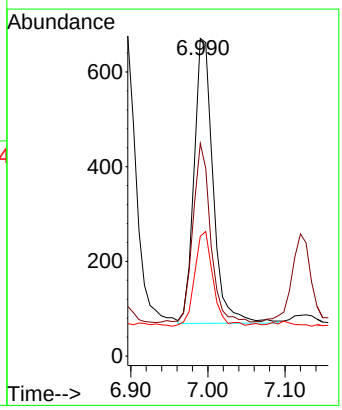


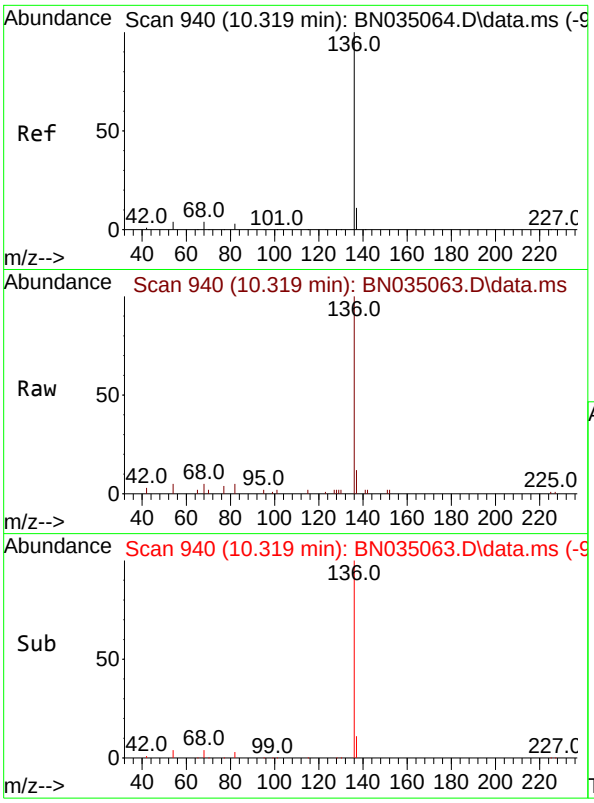


#6
bis(2-Chloroethyl)ether
Concen: 0.199 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 93 Resp: 1033

Ion	Ratio	Lower	Upper
93	100		
63	58.2	47.4	71.2
95	32.1	26.2	39.4



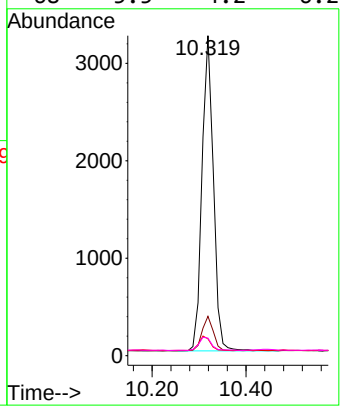


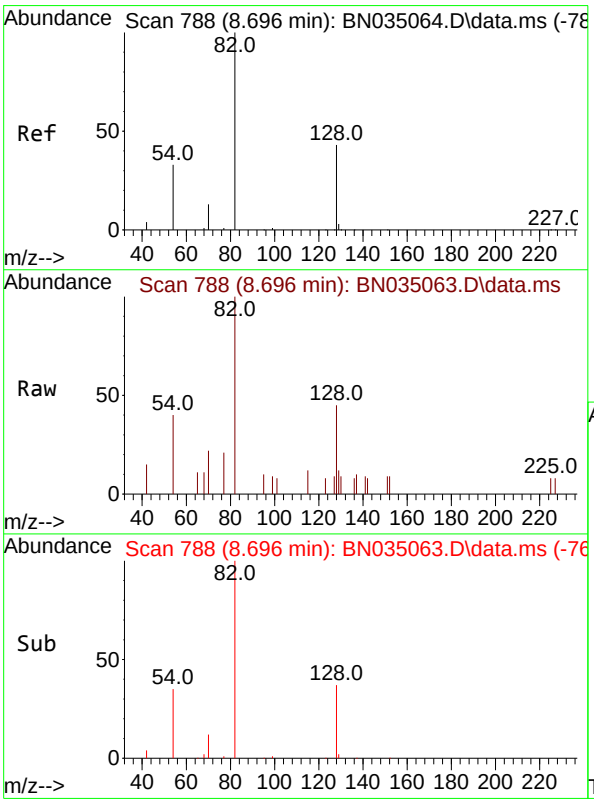
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5449

Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	5.2	4.0	6.0
68	5.5	4.2	6.2

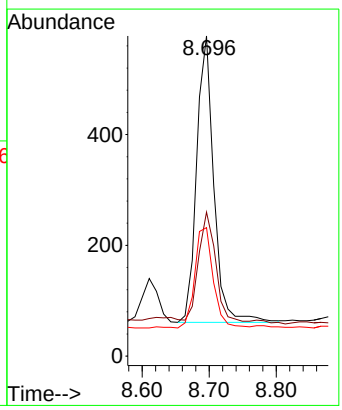


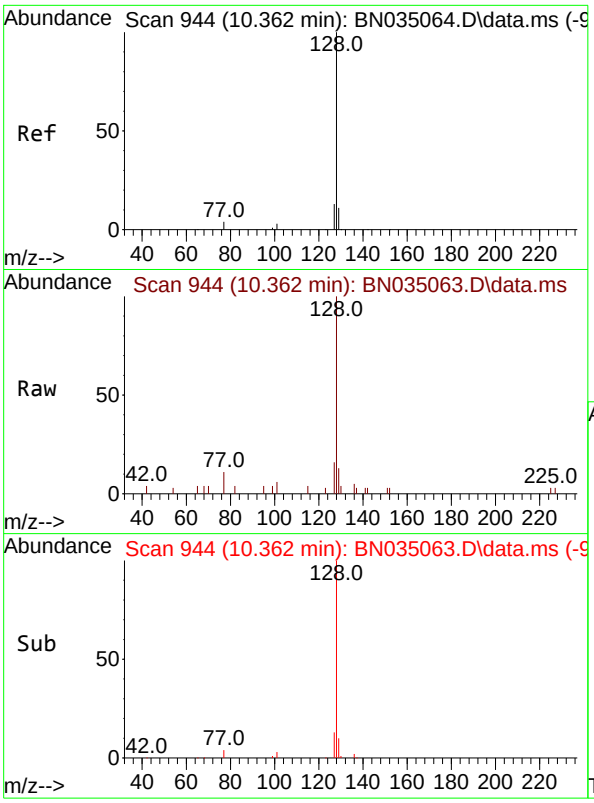


#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 82 Resp: 921

Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.5	54.7
54	40.1	28.7	43.1



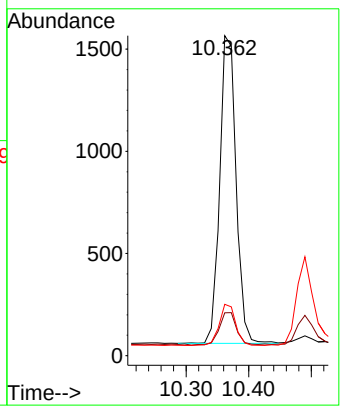


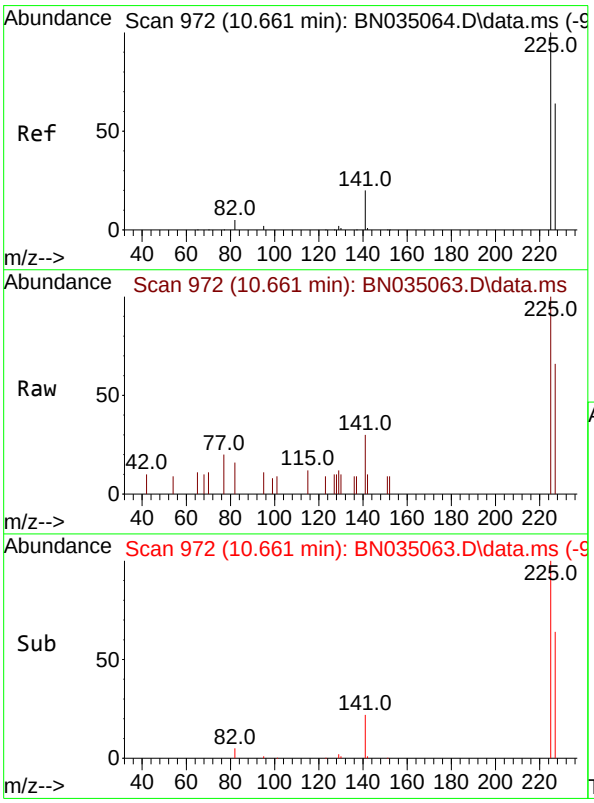
#9
Naphthalene
Concen: 0.193 ng
RT: 10.362 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2748

Ion	Ratio	Lower	Upper
128	100		
129	13.4	9.6	14.4
127	16.0	11.6	17.4

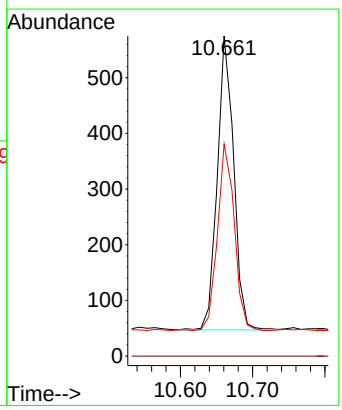


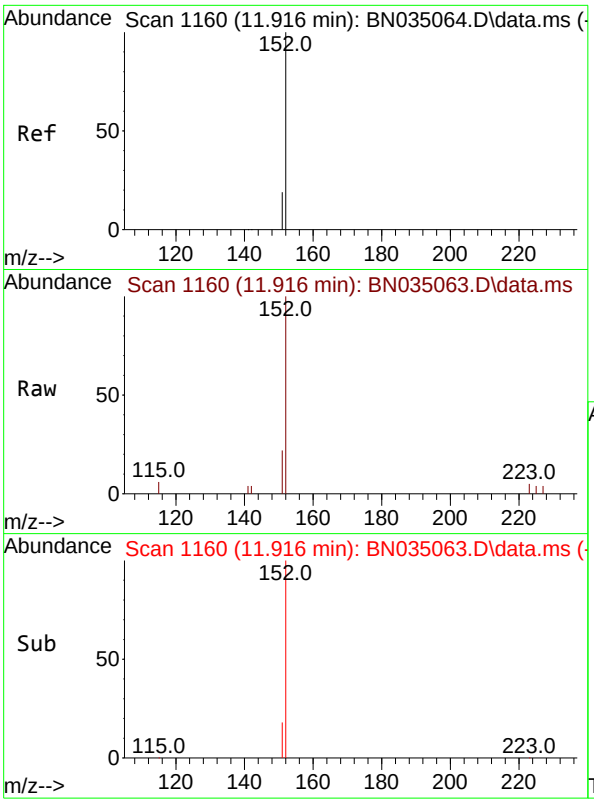


#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:225 Resp: 832

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.1	51.5	77.3



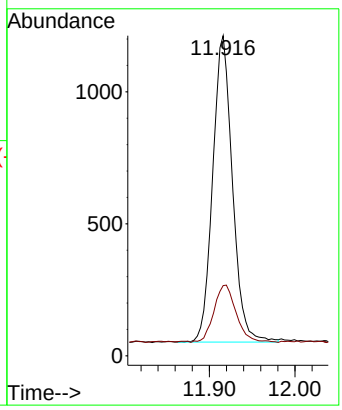


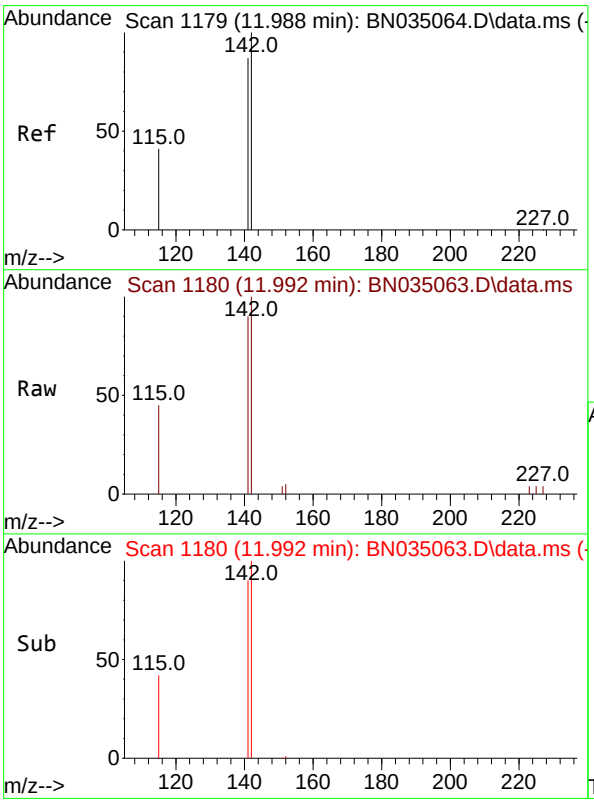
#11
2-Methylnaphthalene-d10
Concen: 0.192 ng
RT: 11.916 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1861

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.2	24.4

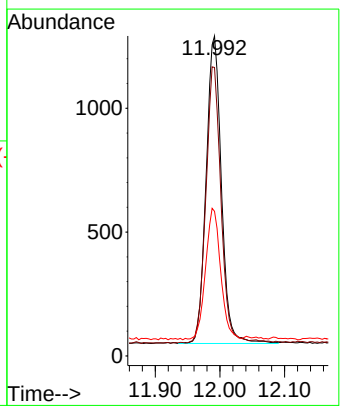


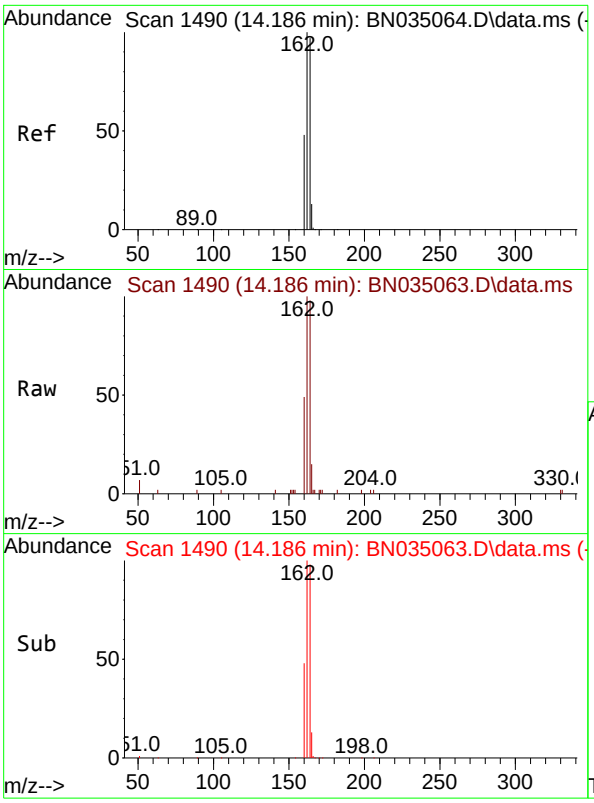


#12
2-Methylnaphthalene
Concen: 0.194 ng
RT: 11.992 min Scan# 1180
Delta R.T. 0.004 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:142 Resp: 2039

Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.1	105.1
115	45.2	34.4	51.6



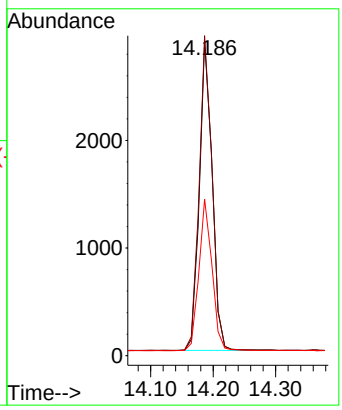


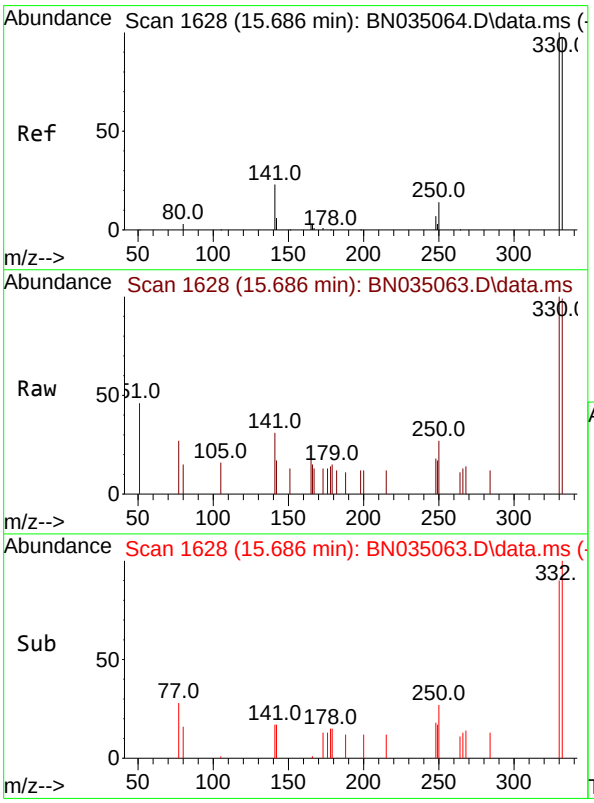
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 4114

Ion	Ratio	Lower	Upper
164	100		
162	101.7	82.2	123.2
160	49.8	40.2	60.4

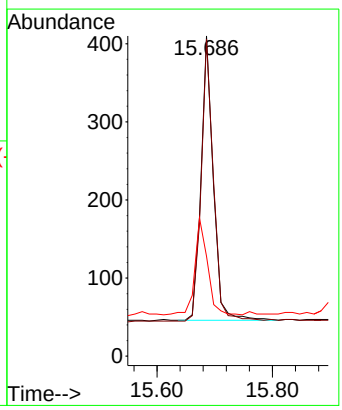


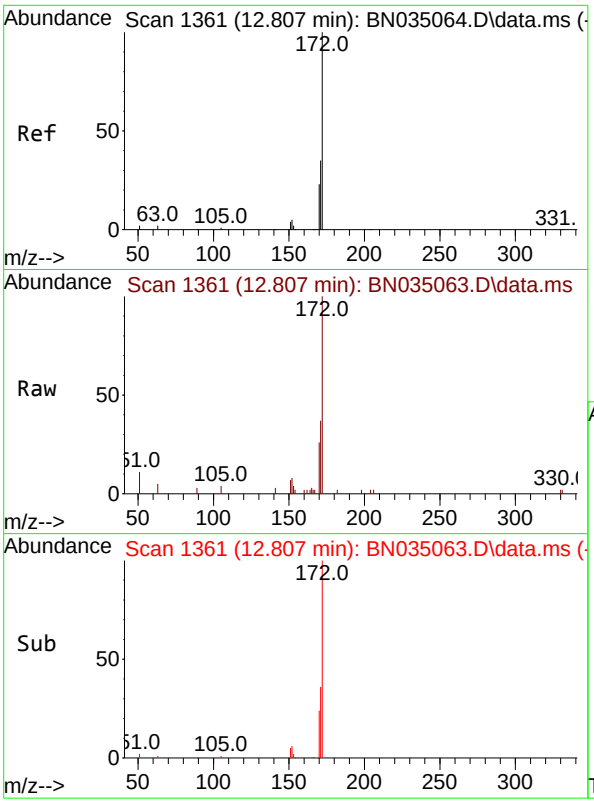


#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:330 Resp: 538

Ion	Ratio	Lower	Upper
330	100		
332	99.1	76.9	115.3
141	34.8	29.6	44.4



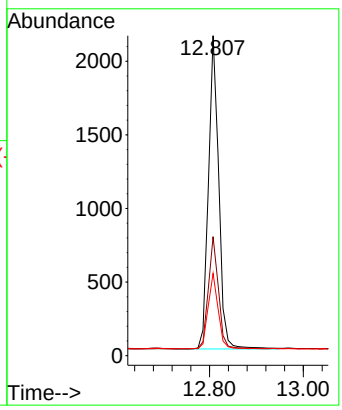


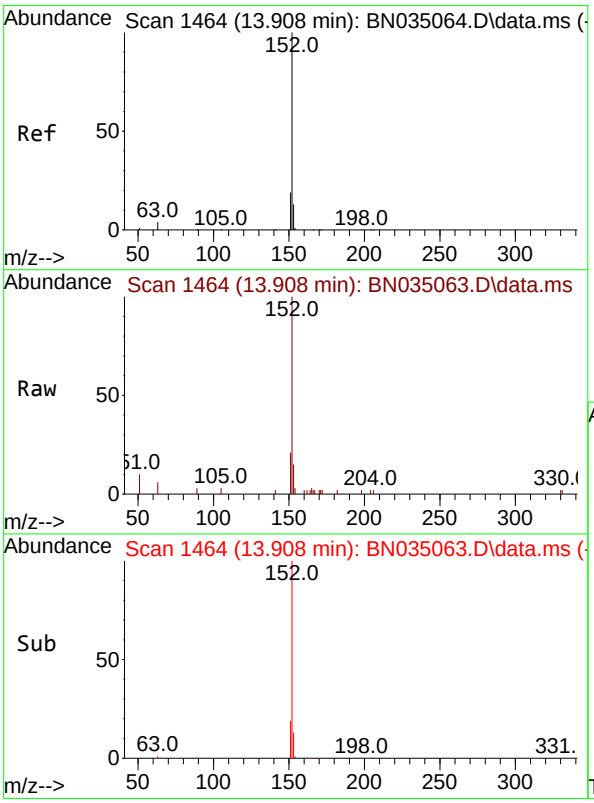
#15
2-Fluorobiphenyl
Concen: 0.194 ng
RT: 12.807 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 3241

Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.2	42.4
170	25.7	19.0	28.6

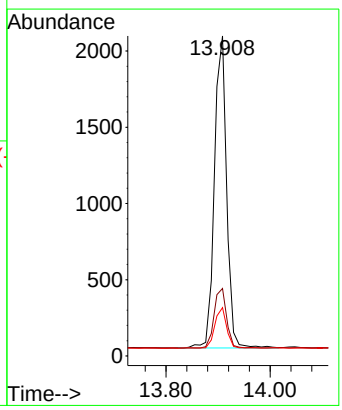


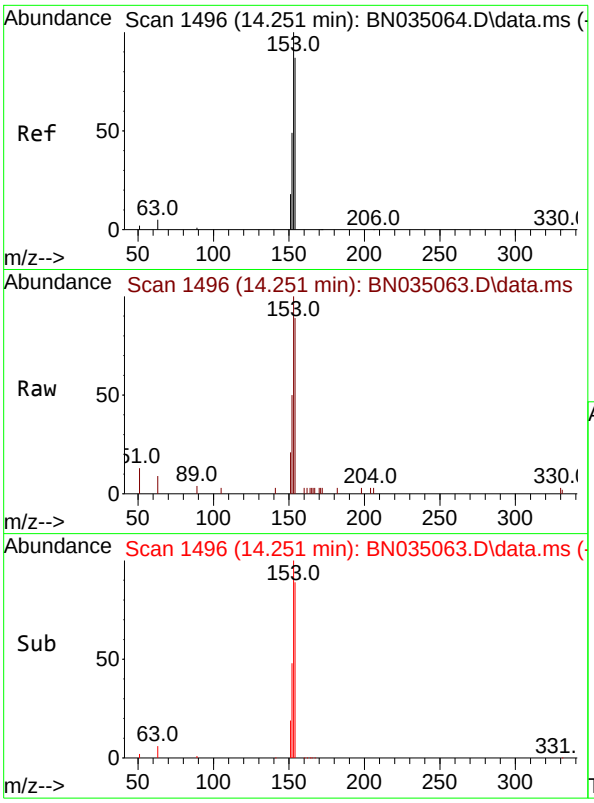


#16
Acenaphthylene
Concen: 0.189 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:152 Resp: 3325

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.8	23.8
153	13.0	10.2	15.4



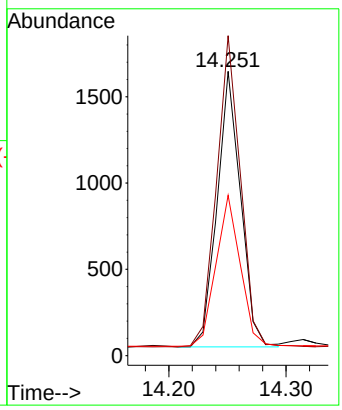


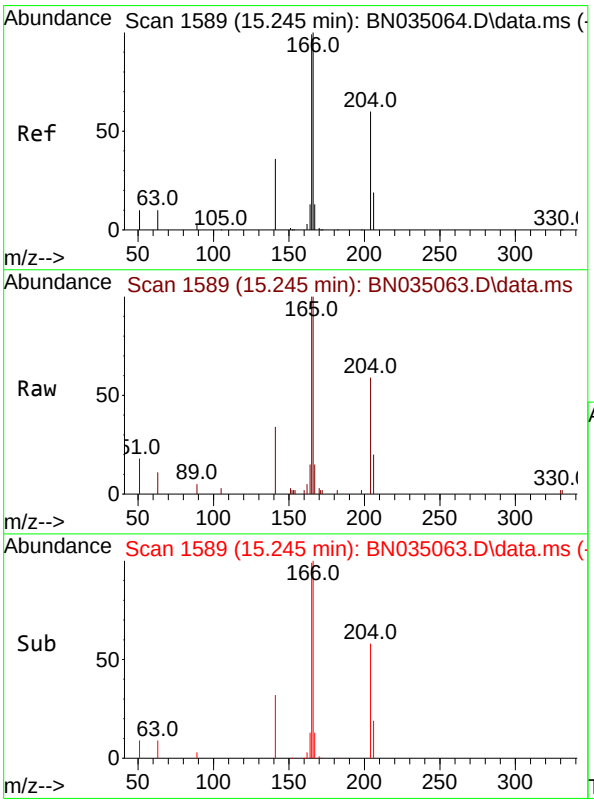
#17
Acenaphthene
Concen: 0.193 ng
RT: 14.251 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2219

Ion	Ratio	Lower	Upper
154	100		
153	114.9	91.6	137.4
152	57.9	45.8	68.6

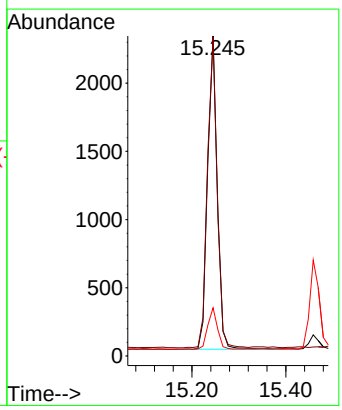


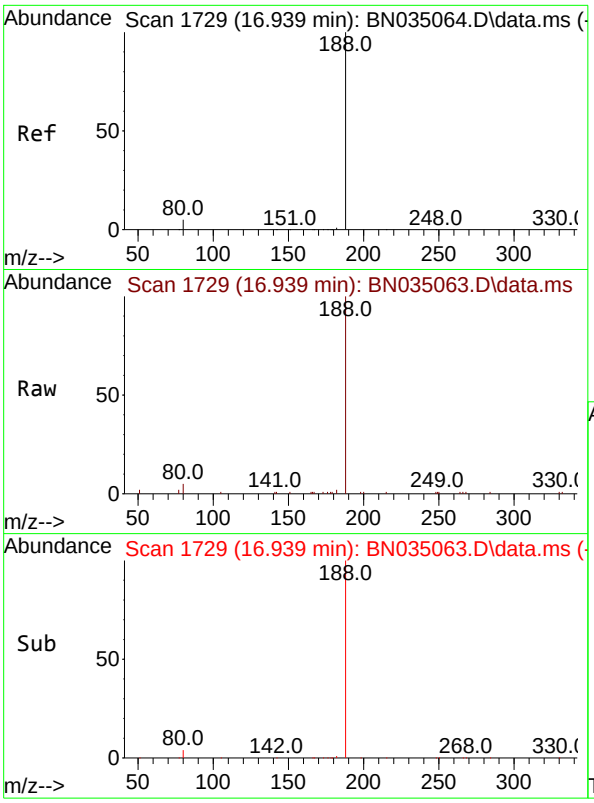


#18
Fluorene
Concen: 0.193 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:166 Resp: 3273

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.1	118.7
167	13.4	10.6	16.0



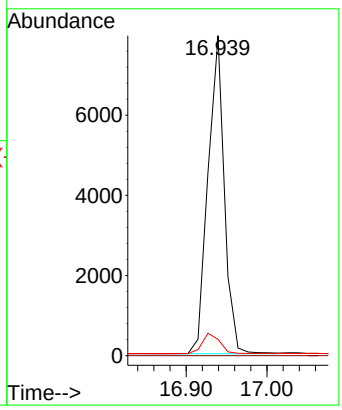


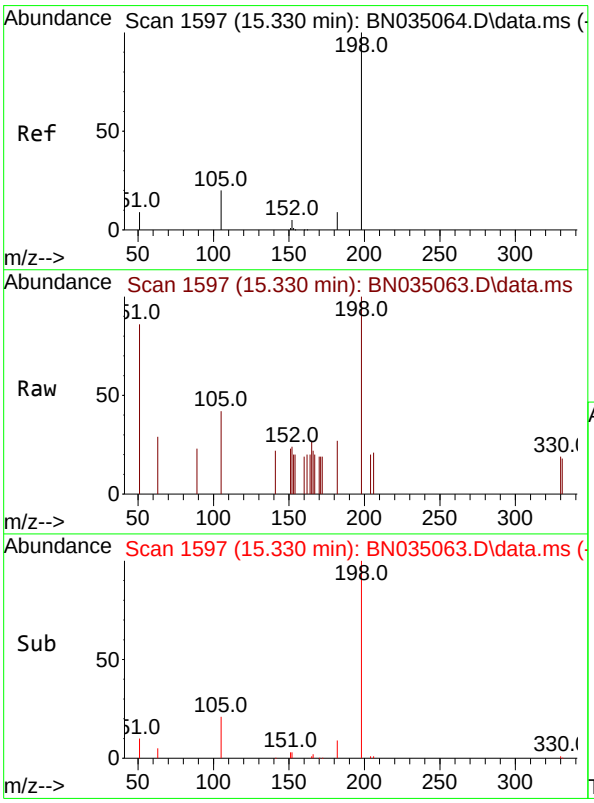
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 11179

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.1	4.3	6.5

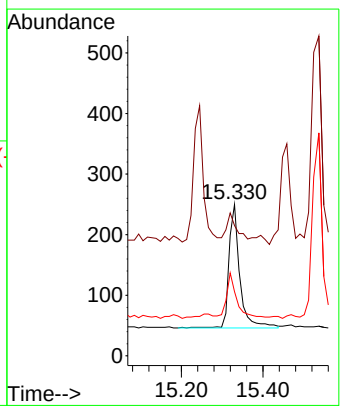


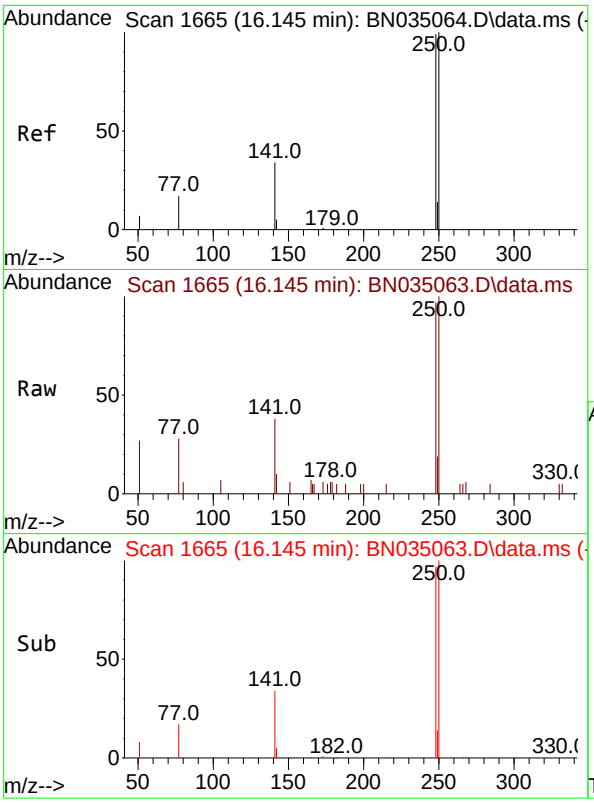


#20
4,6-Dinitro-2-methylphenol
Concen: 0.162 ng
RT: 15.330 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:198 Resp: 376

Ion	Ratio	Lower	Upper
198	100		
51	86.0	29.9	44.9#
105	42.4	23.7	35.5#



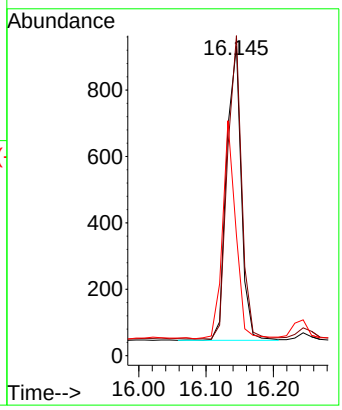


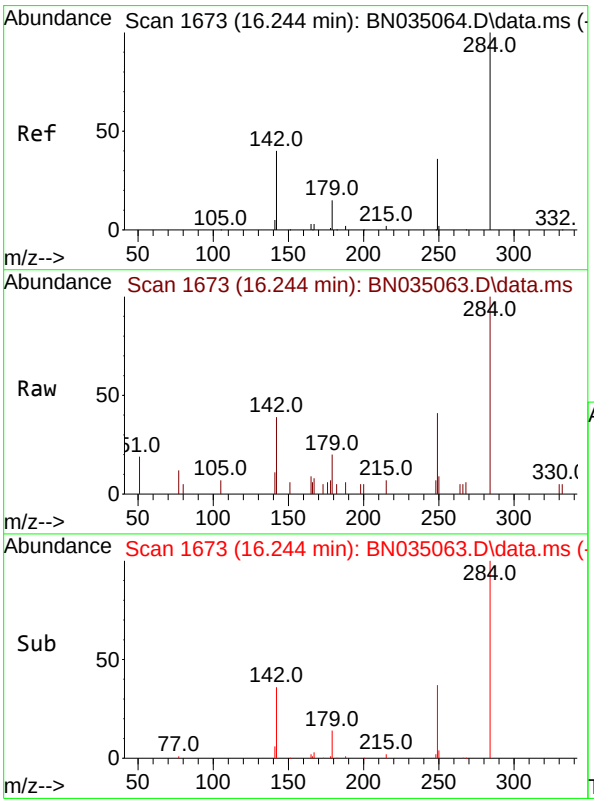
#21
4-Bromophenyl-phenylether
Concen: 0.188 ng
RT: 16.145 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1341

Ion	Ratio	Lower	Upper
248	100		
250	103.4	81.2	121.8
141	38.9	29.1	43.7

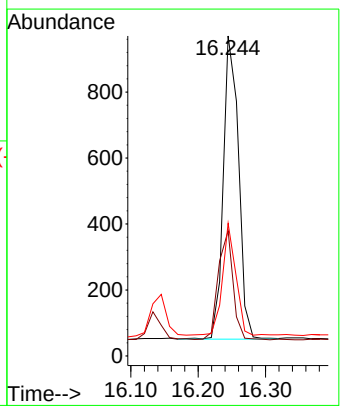


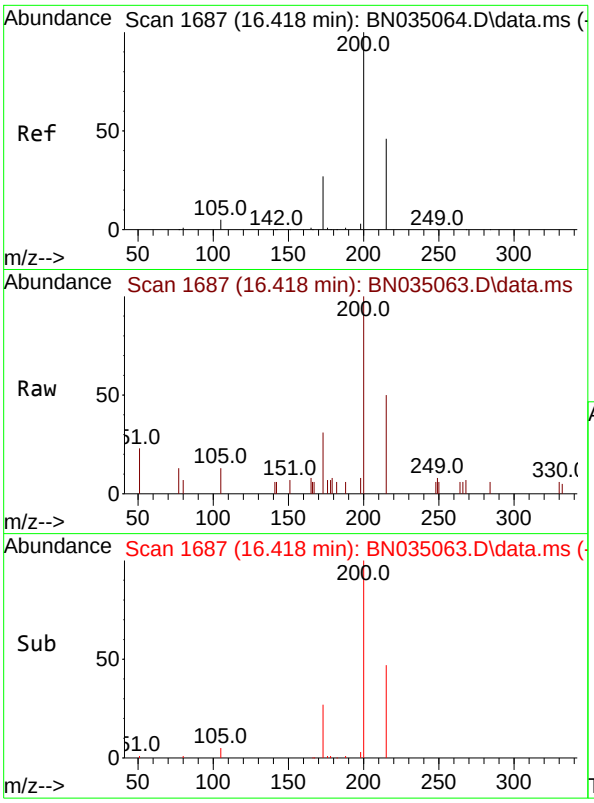


#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:284 Resp: 1445

Ion	Ratio	Lower	Upper
284	100		
142	34.7	28.2	42.4
249	32.9	26.2	39.2



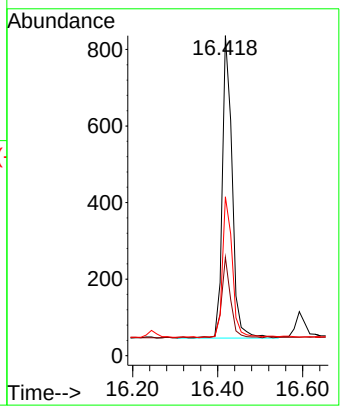


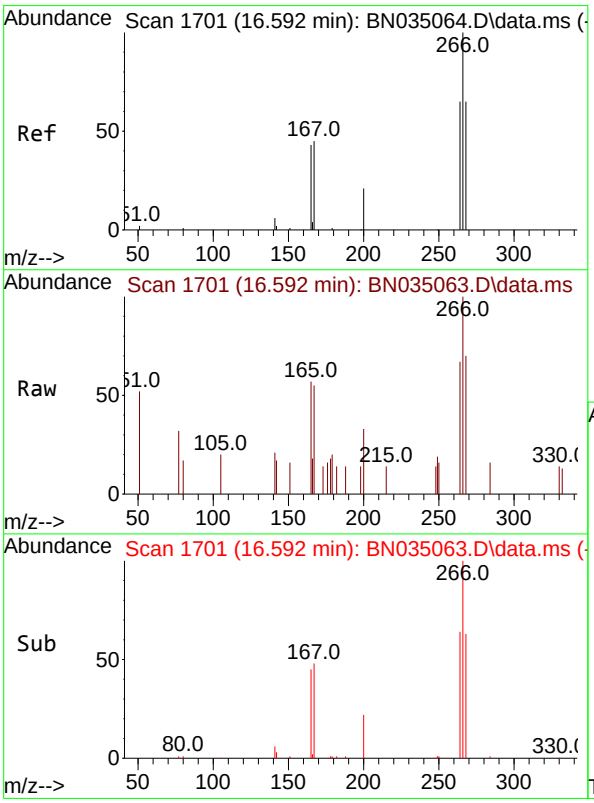
#23
Atrazine
Concen: 0.199 ng
RT: 16.418 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 1271

Ion	Ratio	Lower	Upper
200	100		
173	30.7	22.6	33.8
215	49.6	37.8	56.6

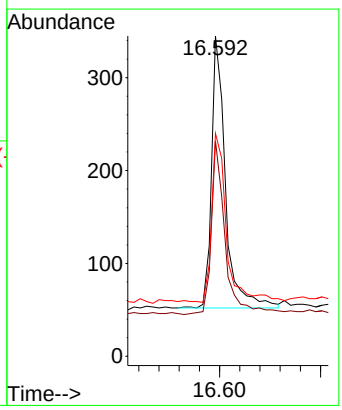


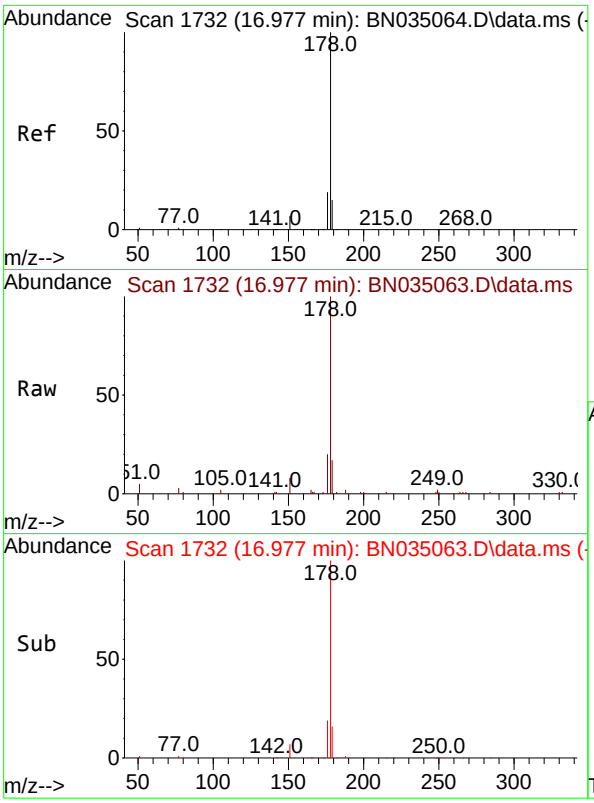


#24
Pentachlorophenol
Concen: 0.163 ng
RT: 16.592 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:266 Resp: 562

Ion	Ratio	Lower	Upper
266	100		
264	63.3	49.4	74.0
268	65.1	52.6	79.0



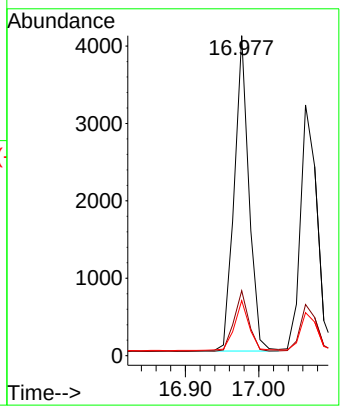


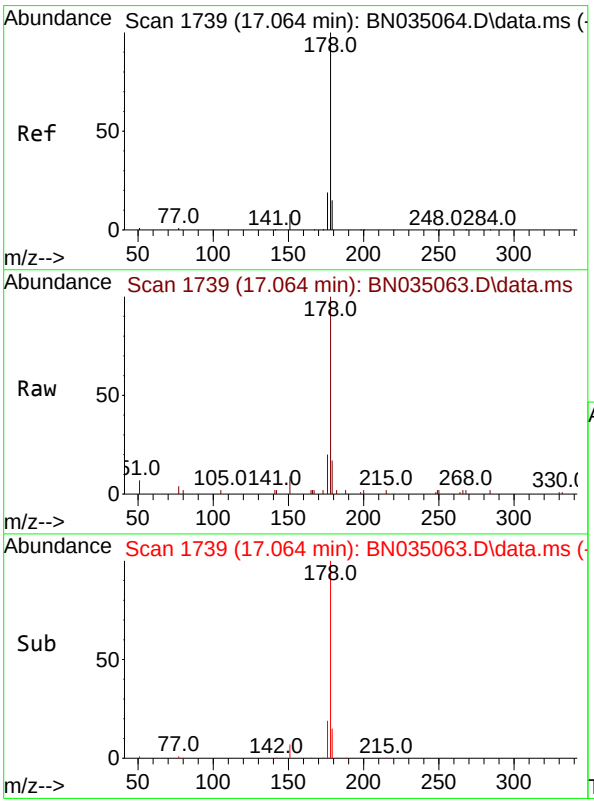
#25
Phenanthrene
Concen: 0.193 ng
RT: 16.977 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 5664

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.2	22.8
179	16.3	12.6	18.8

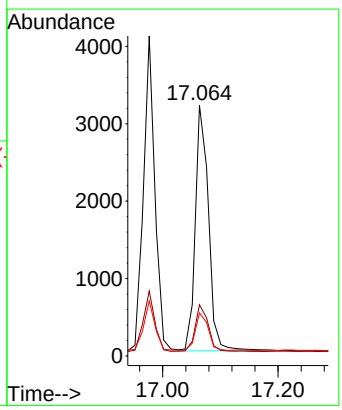


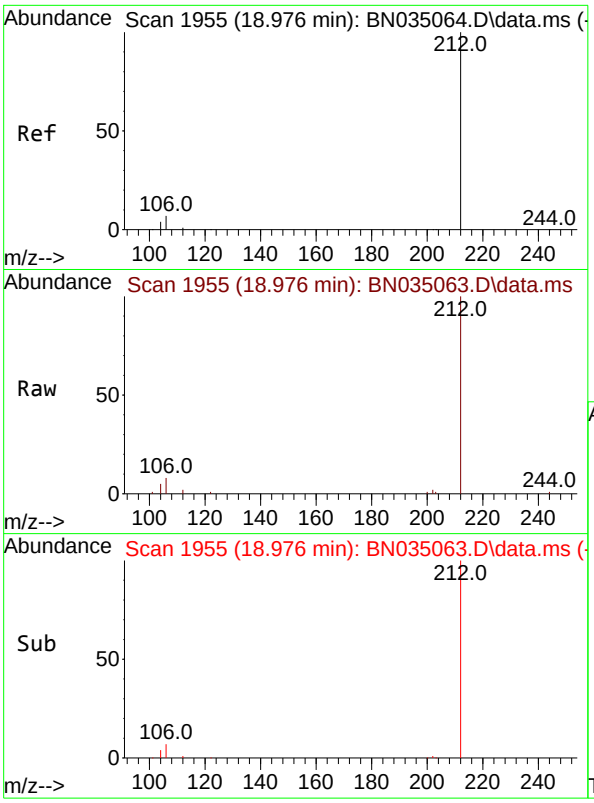


#26
Anthracene
Concen: 0.187 ng
RT: 17.064 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:178 Resp: 5051

Ion	Ratio	Lower	Upper
178	100		
176	19.2	14.6	22.0
179	14.6	12.2	18.2



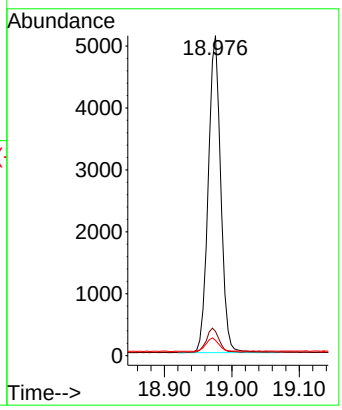


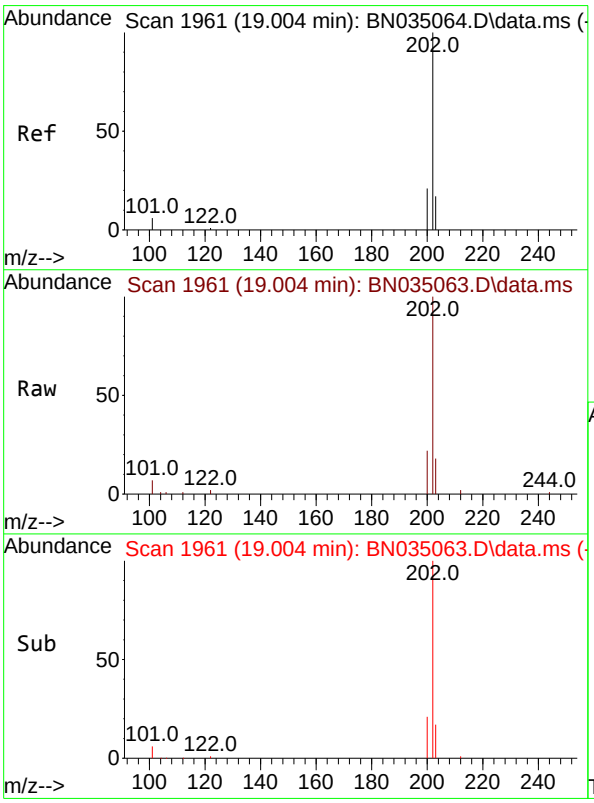
#27
Fluoranthene-d10
Concen: 0.192 ng
RT: 18.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 6587

Ion	Ratio	Lower	Upper
212	100		
106	7.6	6.0	9.0
104	4.4	3.5	5.3

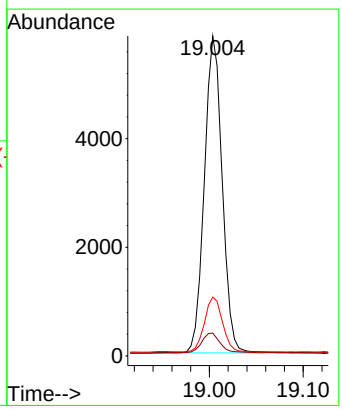


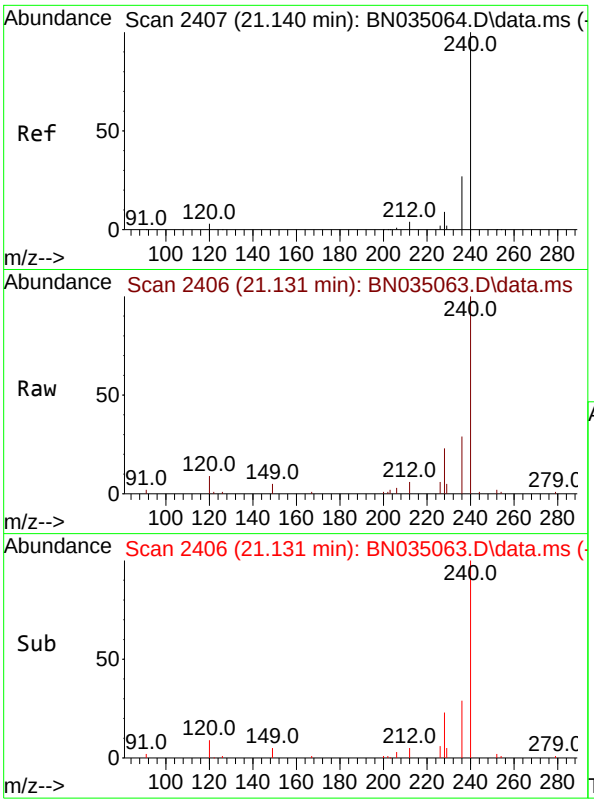


#28
Fluoranthene
Concen: 0.190 ng
RT: 19.004 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:202 Resp: 7690

Ion	Ratio	Lower	Upper
202	100		
101	7.0	5.2	7.8
203	17.3	13.8	20.8



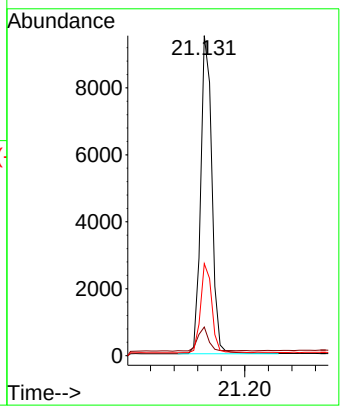


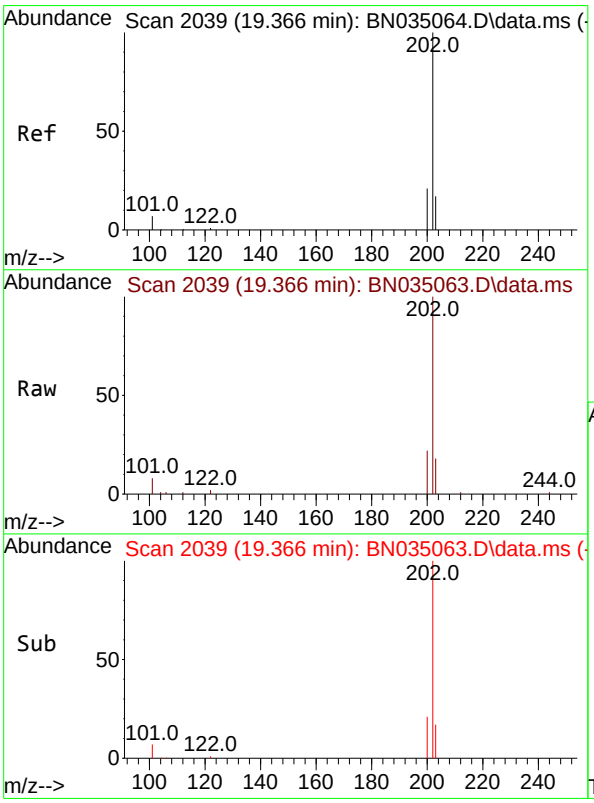
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.131 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 12508

Ion	Ratio	Lower	Upper
240	100		
120	9.0	3.8	5.6#
236	28.8	22.2	33.2

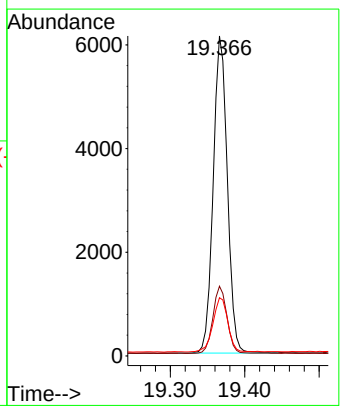


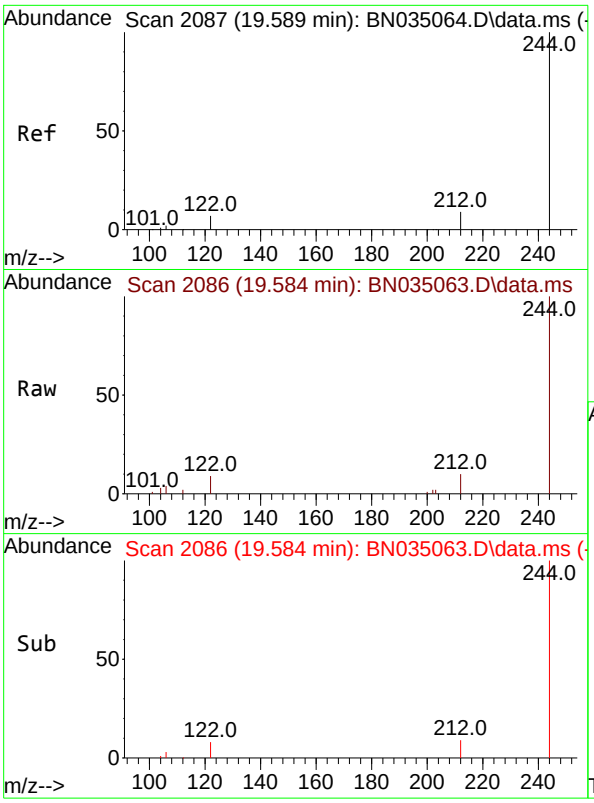


#30
Pyrene
Concen: 0.194 ng
RT: 19.366 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:202 Resp: 8067

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	18.1	14.2	21.4



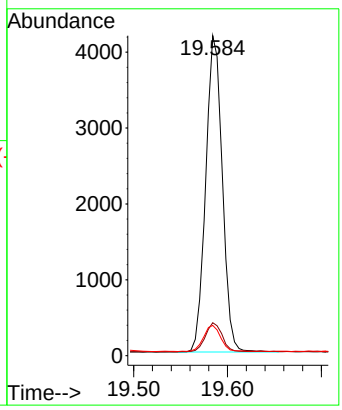


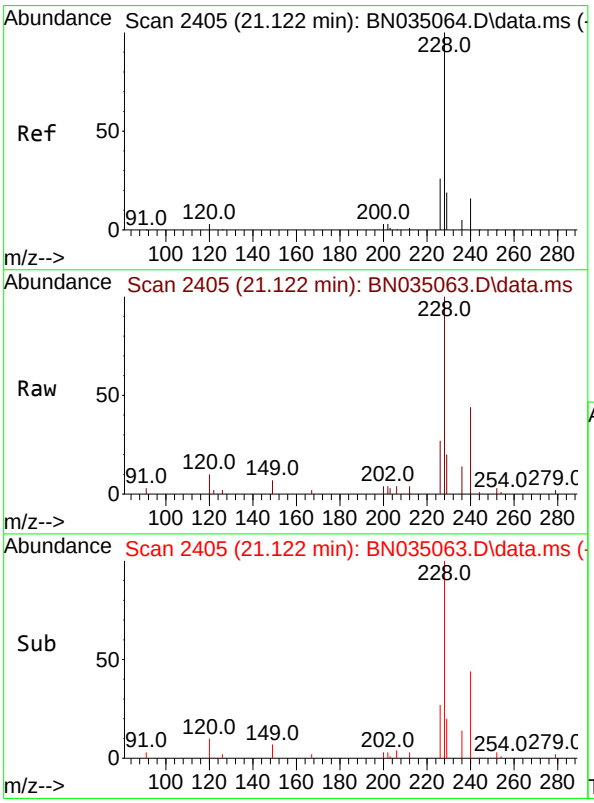
#31
Terphenyl-d14
Concen: 0.195 ng
RT: 19.584 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 5123

Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.6	11.4
122	9.5	6.1	9.1#

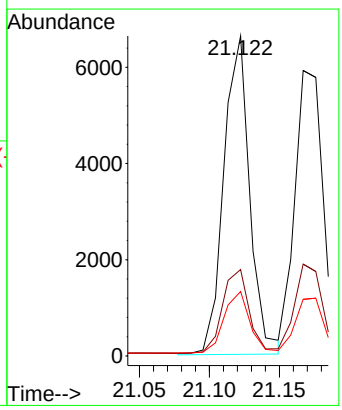


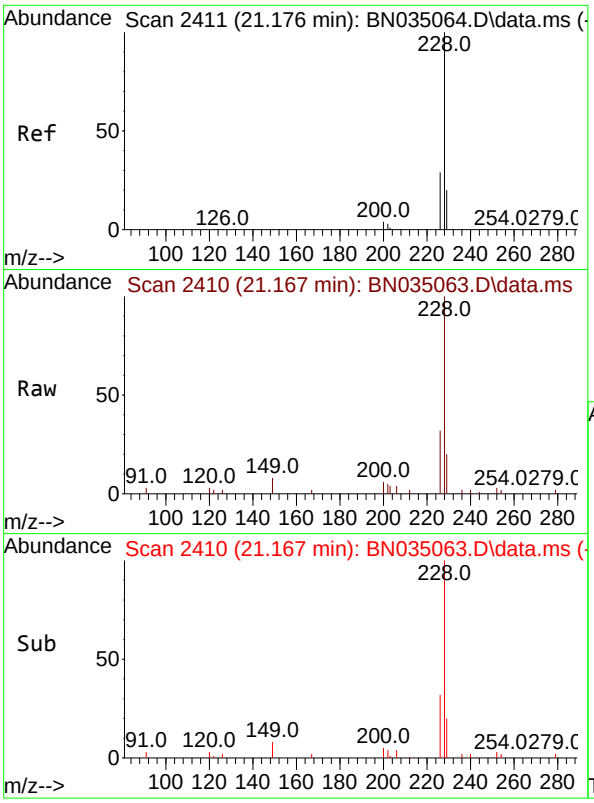


#32
Benzo(a)anthracene
Concen: 0.196 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:228 Resp: 8558

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.4	32.0
229	20.1	15.7	23.5



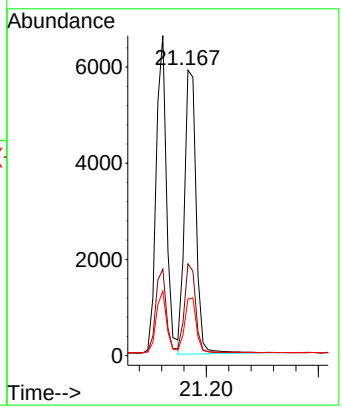


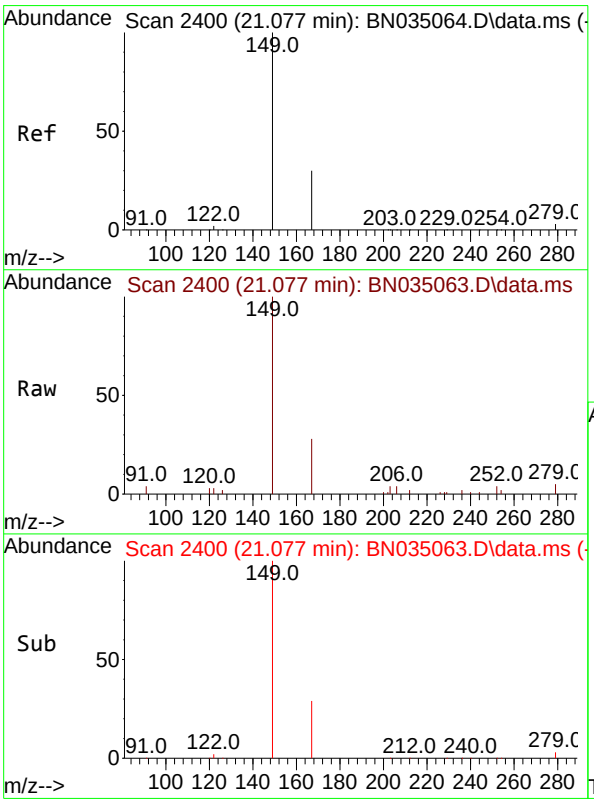
#33
Chrysene
Concen: 0.198 ng
RT: 21.167 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 8540

Ion	Ratio	Lower	Upper
228	100		
226	32.2	23.7	35.5
229	19.9	16.2	24.4

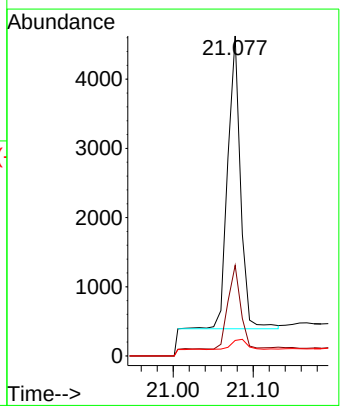


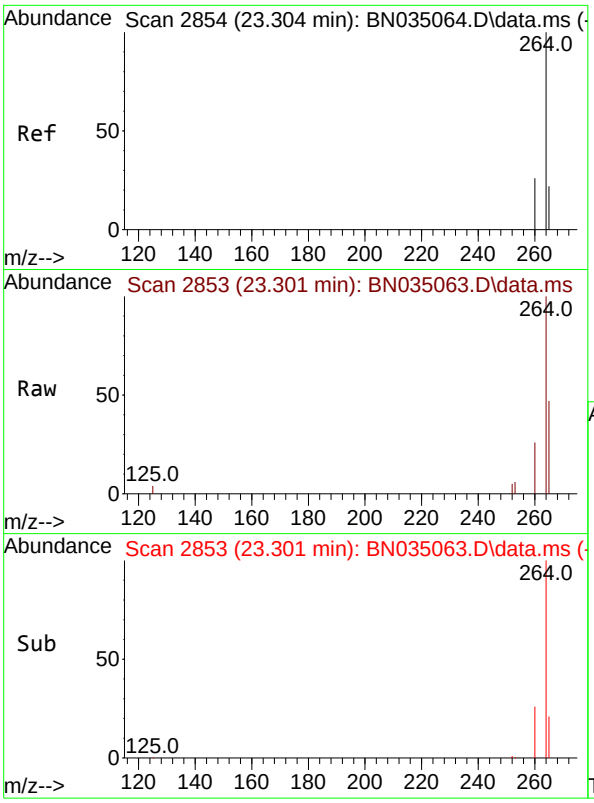


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.208 ng
RT: 21.077 min Scan# 2400
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:149 Resp: 4712

Ion	Ratio	Lower	Upper
149	100		
167	28.3	23.2	34.8
279	3.9	3.2	4.8



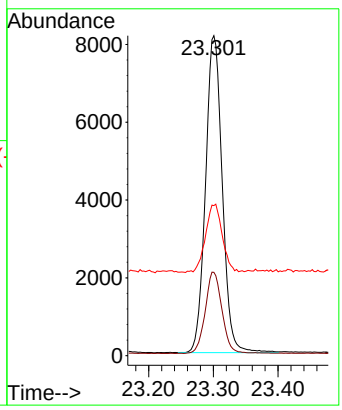


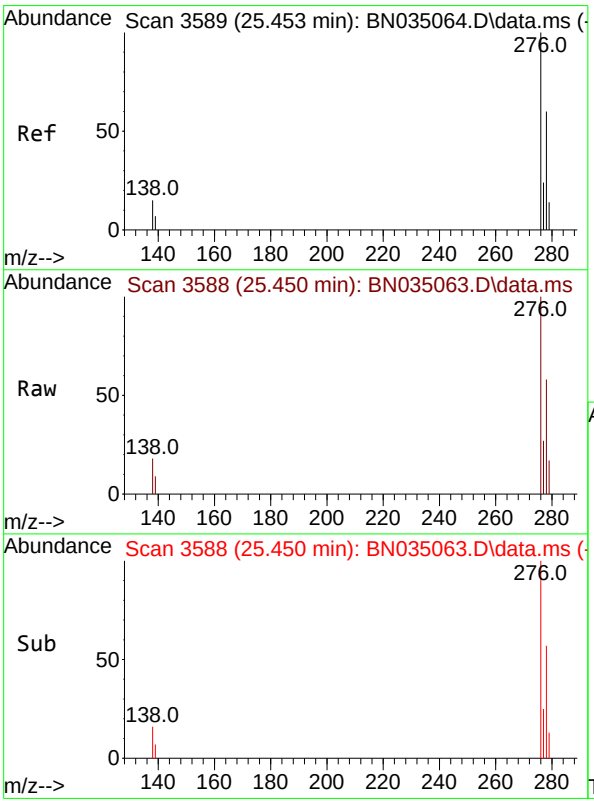
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.301 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 14643

Ion	Ratio	Lower	Upper
264	100		
260	26.1	20.9	31.3
265	46.9	35.4	53.2

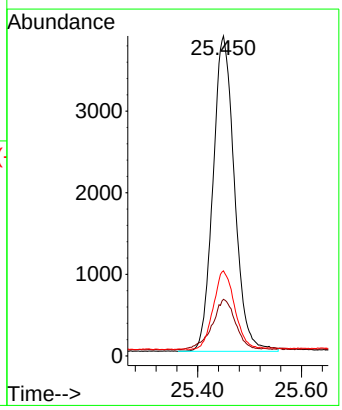


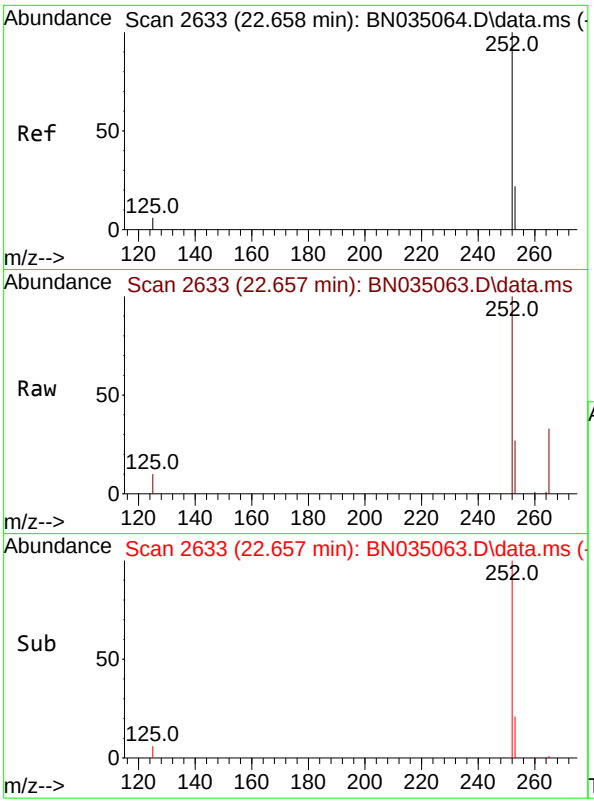


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.190 ng
RT: 25.450 min Scan# 3588
Delta R.T. -0.003 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:276 Resp: 11095

Ion	Ratio	Lower	Upper
276	100		
138	17.3	13.0	19.4
277	24.7	19.8	29.6



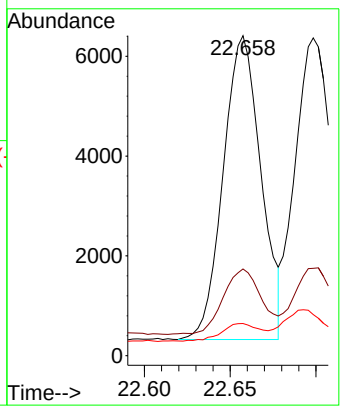


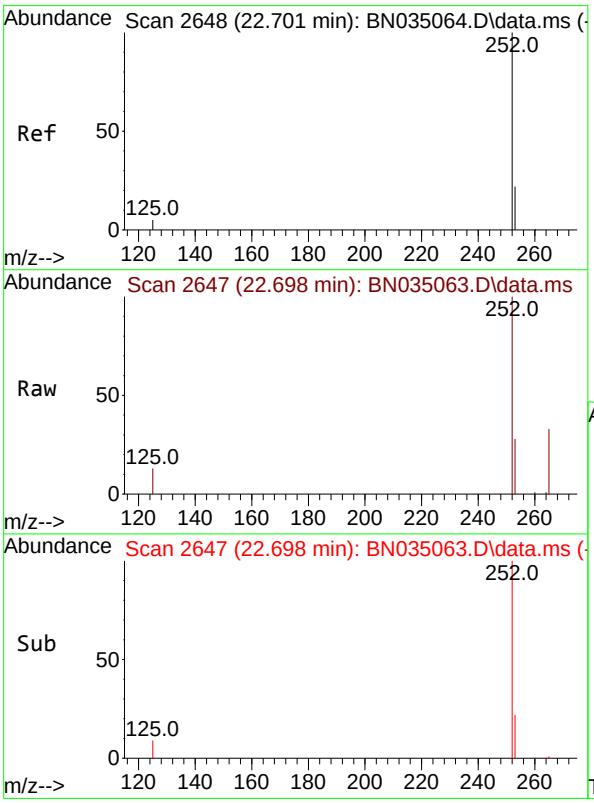
#37
Benzo(b)fluoranthene
Concen: 0.189 ng
RT: 22.657 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 9315

Ion	Ratio	Lower	Upper
252	100		
253	27.1	19.3	28.9
125	10.0	6.2	9.2#

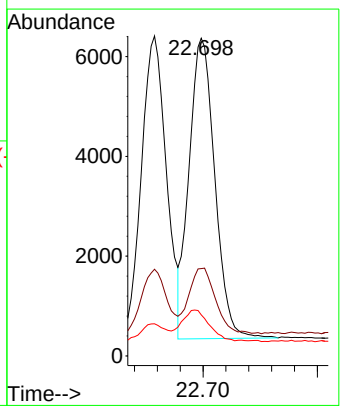


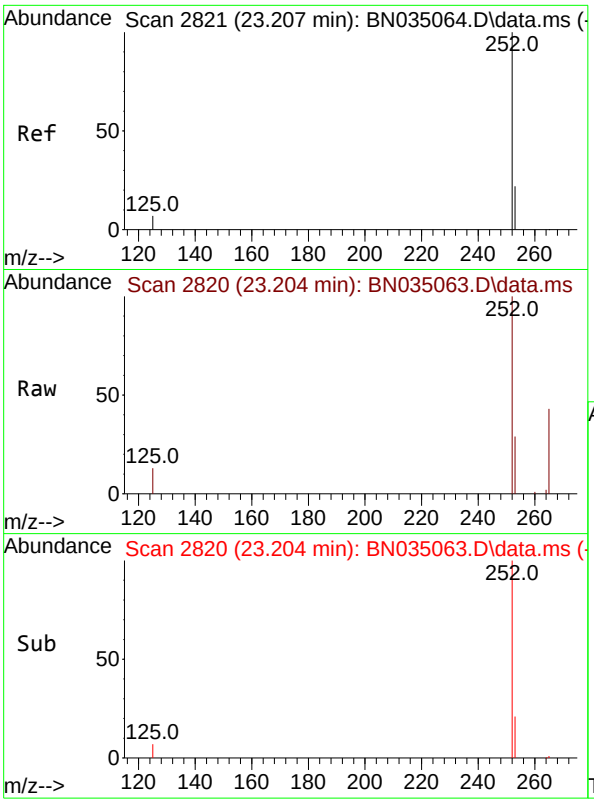


#38
Benzo(k)fluoranthene
Concen: 0.191 ng
RT: 22.698 min Scan# 2647
Delta R.T. -0.003 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:252 Resp: 9432

Ion	Ratio	Lower	Upper
252	100		
253	27.5	19.5	29.3
125	13.0	6.5	9.7#



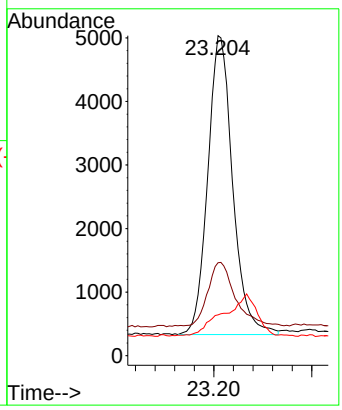


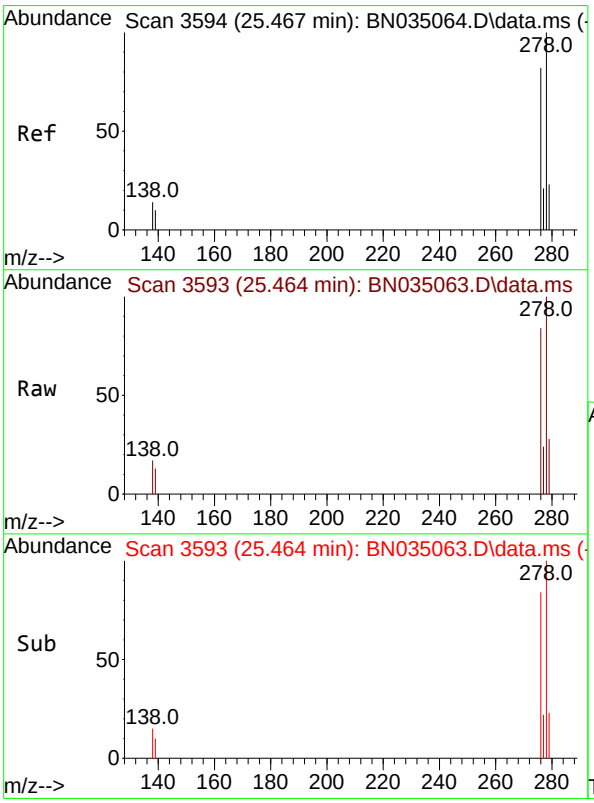
#39
Benzo(a)pyrene
Concen: 0.192 ng
RT: 23.204 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 8302

Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.1	30.1
125	12.8	7.5	11.3#

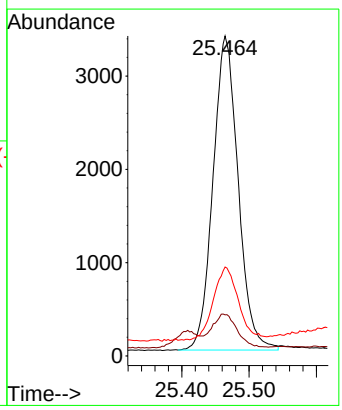


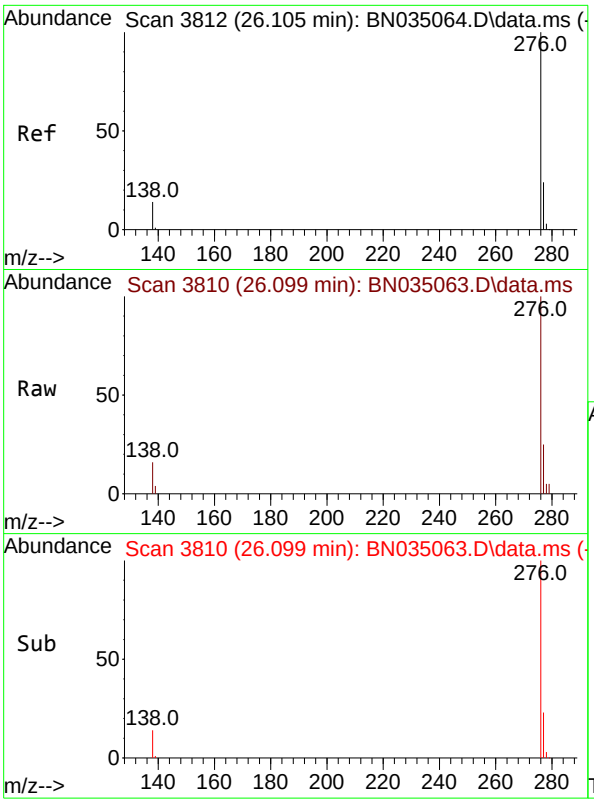


#40
Dibenzo(a,h)anthracene
Concen: 0.189 ng
RT: 25.464 min Scan# 3593
Delta R.T. -0.003 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:278 Resp: 8750

Ion	Ratio	Lower	Upper
278	100		
139	12.9	9.3	13.9
279	27.8	19.7	29.5



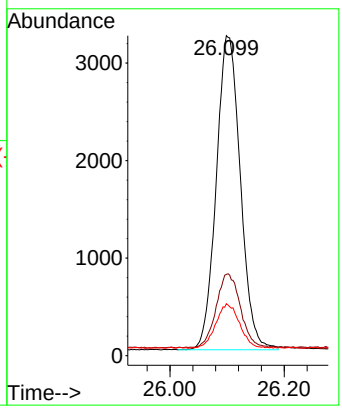


#41
Benzo(g,h,i)perylene
Concen: 0.192 ng
RT: 26.099 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 9431

Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.9	29.9
138	16.3	11.6	17.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035064.D
Acq On : 13 Nov 2024 13:52
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 13 16:43:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	2804	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	6865	0.400	ng		0.00
13) Acenaphthene-d10	14.186	164	5401	0.400	ng		0.00
19) Phenanthrene-d10	16.939	188	13499	0.400	ng		0.00
29) Chrysene-d12	21.140	240	14946	0.400	ng		0.00
35) Perylene-d12	23.304	264	17077	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	2661	0.374	ng		0.00
5) Phenol-d6	6.737	99	3250	0.364	ng		0.00
8) Nitrobenzene-d5	8.696	82	2197	0.369	ng		0.00
11) 2-Methylnaphthalene-d10	11.916	152	4559	0.373	ng		0.00
14) 2,4,6-Tribromophenol	15.686	330	1295	0.333	ng		0.00
15) 2-Fluorobiphenyl	12.807	172	7888	0.360	ng		0.00
27) Fluoranthene-d10	18.976	212	15786	0.382	ng		0.00
31) Terphenyl-d14	19.589	244	12101	0.386	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.177	88	940	0.369	ng		100
3) n-Nitrosodimethylamine	3.480	42	914	0.386	ng		100
6) bis(2-Chloroethyl)ether	6.990	93	2504	0.374	ng		100
9) Naphthalene	10.362	128	6705	0.374	ng		100
10) Hexachlorobutadiene	10.661	225	2010	0.383	ng	#	100
12) 2-Methylnaphthalene	11.988	142	4884	0.369	ng		100
16) Acenaphthylene	13.908	152	8034	0.348	ng		100
17) Acenaphthene	14.251	154	5401	0.357	ng		100
18) Fluorene	15.245	166	7900	0.355	ng		100
20) 4,6-Dinitro-2-methylph...	15.330	198	979	0.348	ng		100
21) 4-Bromophenyl-phenylether	16.145	248	3317	0.386	ng		100
22) Hexachlorobenzene	16.244	284	3412	0.382	ng		100
23) Atrazine	16.418	200	2925	0.379	ng		100
24) Pentachlorophenol	16.592	266	1402	0.336	ng		100
25) Phenanthrene	16.977	178	13558	0.382	ng		100
26) Anthracene	17.064	178	12422	0.381	ng		100
28) Fluoranthene	19.004	202	18716	0.383	ng		100
30) Pyrene	19.366	202	19252	0.387	ng		100
32) Benzo(a)anthracene	21.122	228	19844	0.381	ng		100
33) Chrysene	21.176	228	19908	0.386	ng		100
34) Bis(2-ethylhexyl)phtha...	21.077	149	9671	0.357	ng		100
36) Indeno(1,2,3-cd)pyrene	25.453	276	25986	0.381	ng		100
37) Benzo(b)fluoranthene	22.658	252	21843	0.380	ng		100
38) Benzo(k)fluoranthene	22.701	252	21977	0.382	ng		100
39) Benzo(a)pyrene	23.207	252	19170	0.379	ng		100
40) Dibenzo(a,h)anthracene	25.467	278	20655	0.383	ng		100
41) Benzo(g,h,i)perylene	26.105	276	21955	0.382	ng		100

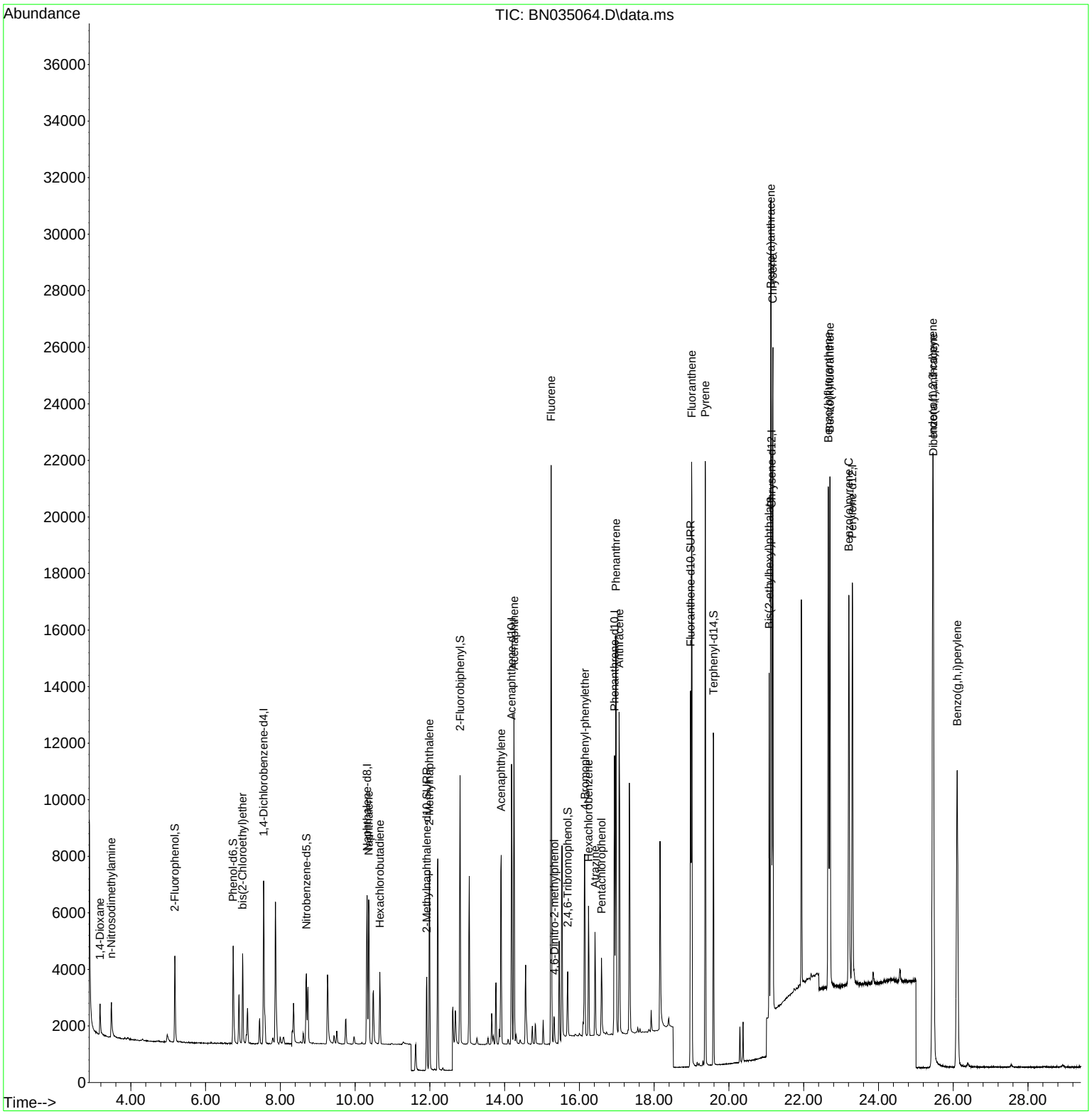
(#) = qualifier out of range (m) = manual integration (+) = signals summed

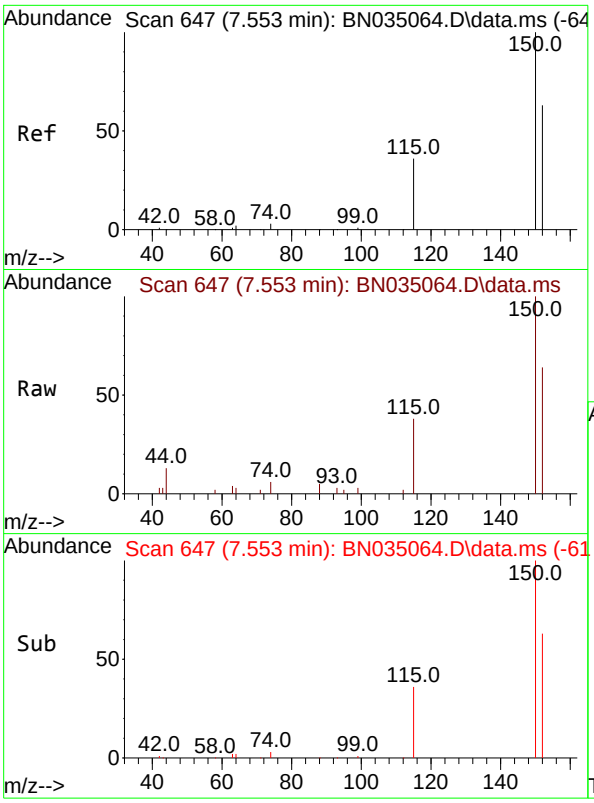
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035064.D
Acq On : 13 Nov 2024 13:52
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 13 16:43:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



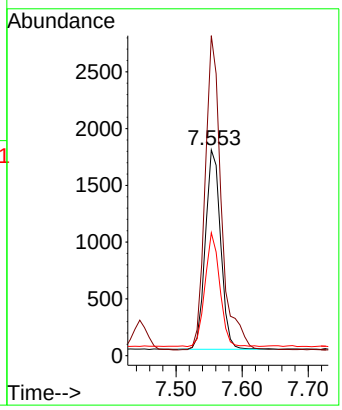


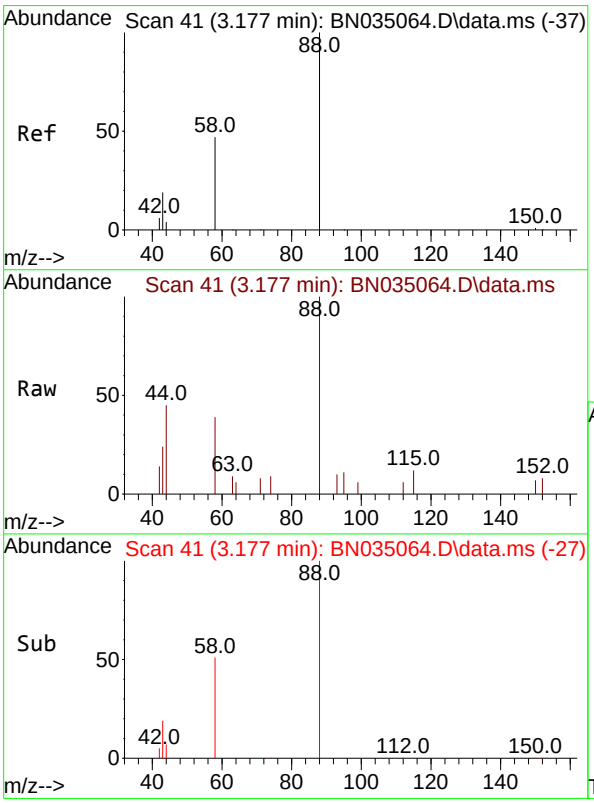
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2804

Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.5	186.7
115	59.7	47.8	71.6

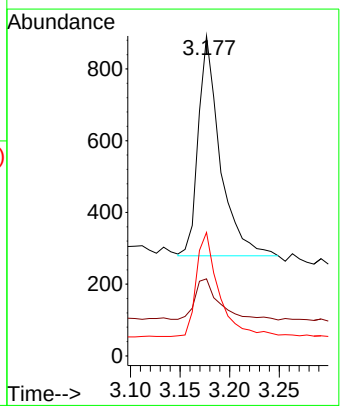


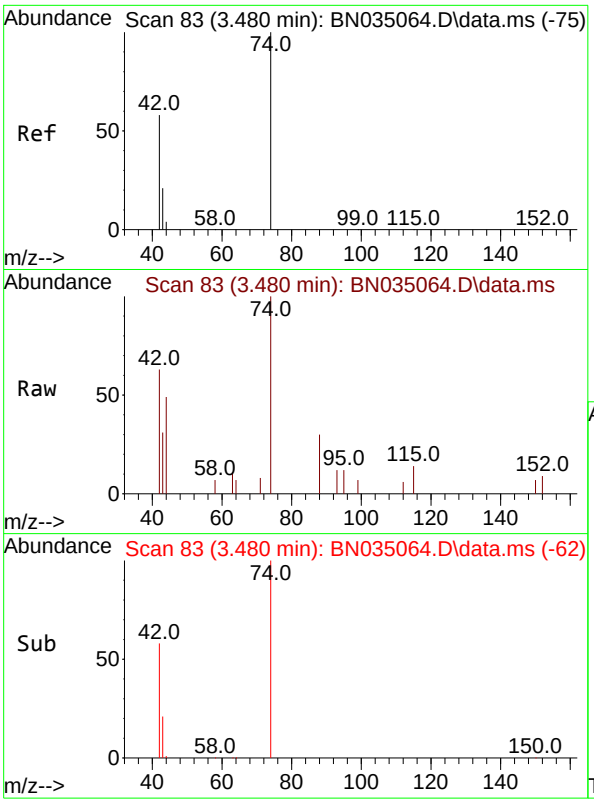


#2
1,4-Dioxane
Concen: 0.369 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 88 Resp: 940

Ion	Ratio	Lower	Upper
88	100		
43	21.1	16.9	25.3
58	48.7	39.0	58.4



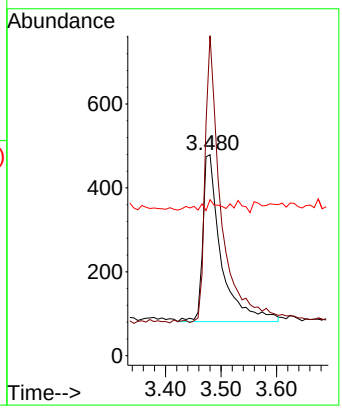


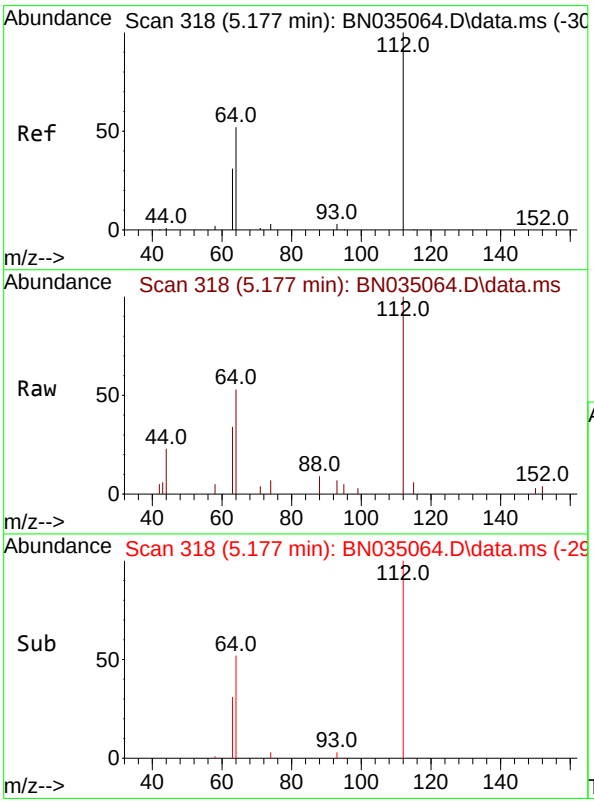
#3
n-Nitrosodimethylamine
Concen: 0.386 ng
RT: 3.480 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 914

Ion	Ratio	Lower	Upper
42	100		
74	151.0	120.8	181.2
44	3.6	2.9	4.3

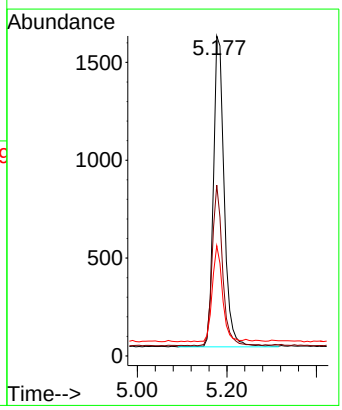


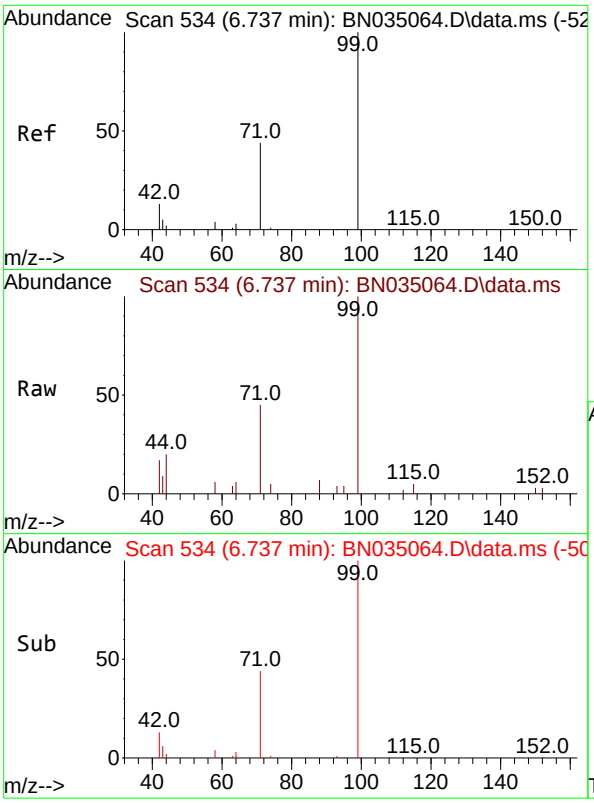


#4
2-Fluorophenol
Concen: 0.374 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:112 Resp: 2661

Ion	Ratio	Lower	Upper
112	100		
64	49.6	39.7	59.5
63	28.7	23.0	34.4



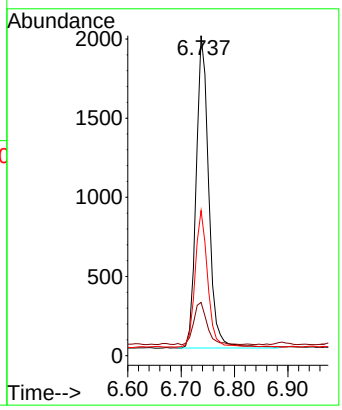


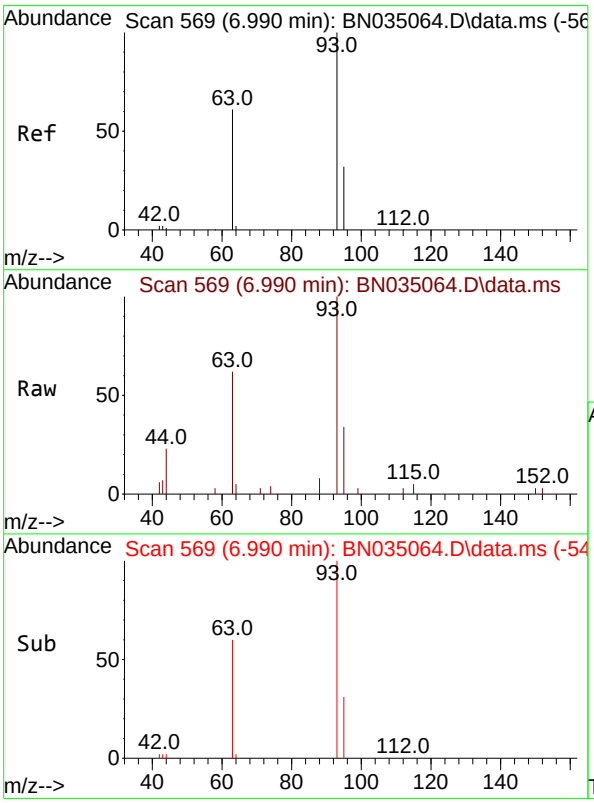
#5
Phenol-d6
Concen: 0.364 ng
RT: 6.737 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 3250

Ion	Ratio	Lower	Upper
99	100		
42	14.2	11.4	17.0
71	43.2	34.6	51.8

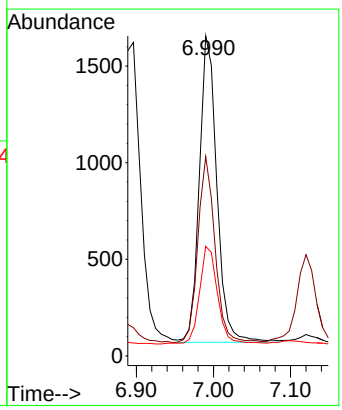


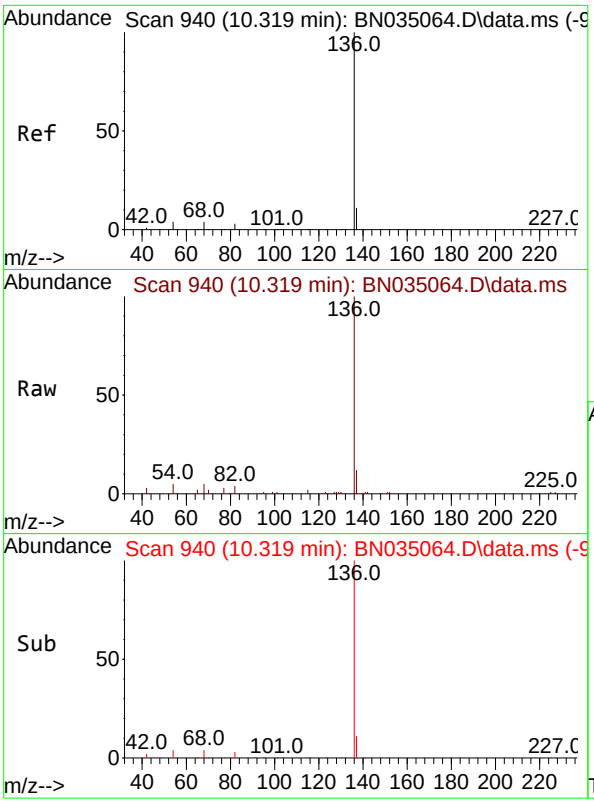


#6
bis(2-Chloroethyl)ether
Concen: 0.374 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 93 Resp: 2504

Ion	Ratio	Lower	Upper
93	100		
63	59.3	47.4	71.2
95	32.8	26.2	39.4



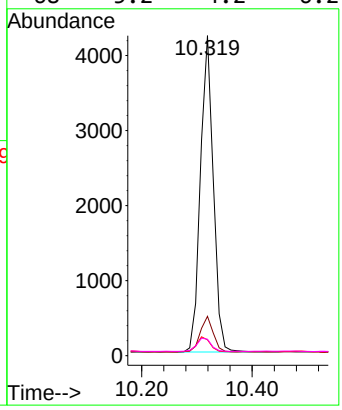


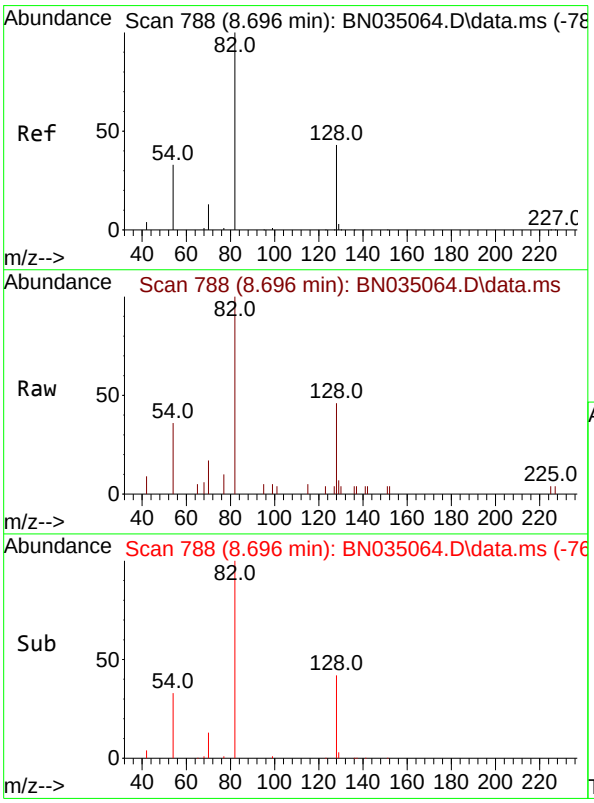
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 6865

Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2

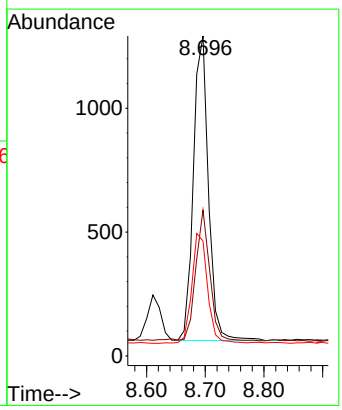


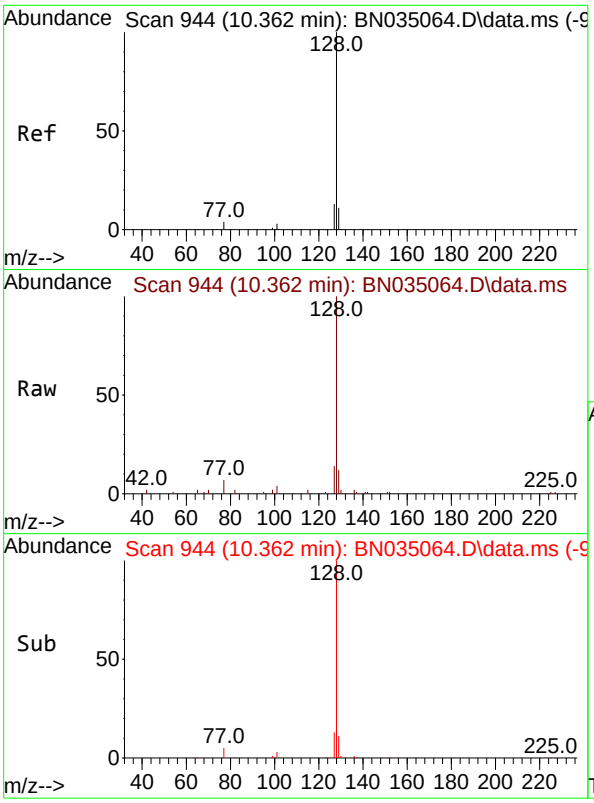


#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 82 Resp: 2197

Ion	Ratio	Lower	Upper
82	100		
128	45.6	36.5	54.7
54	35.9	28.7	43.1



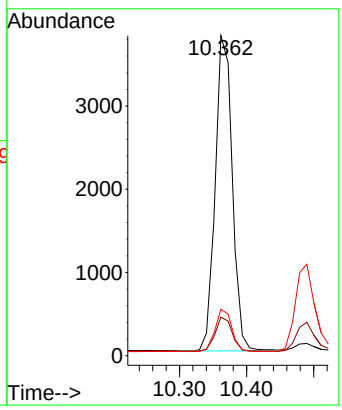


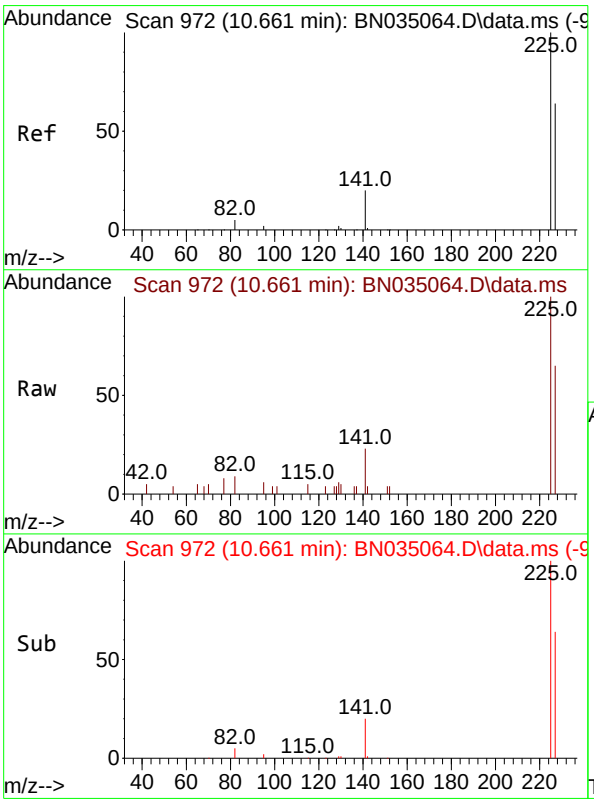
#9
Naphthalene
Concen: 0.374 ng
RT: 10.362 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 6705

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.6	14.4
127	14.5	11.6	17.4

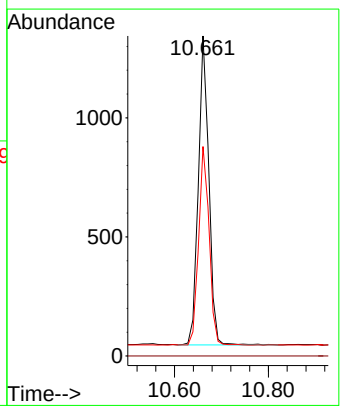


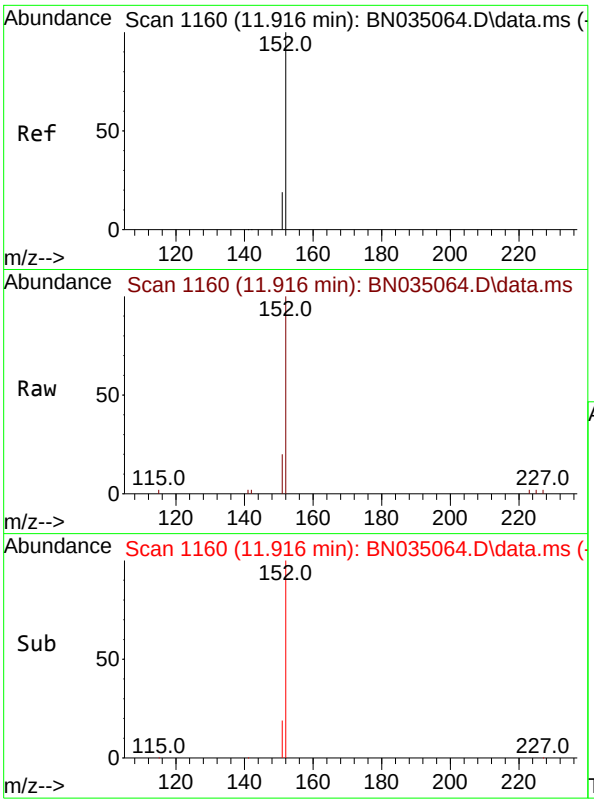


#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:225 Resp: 2010

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.5	77.3



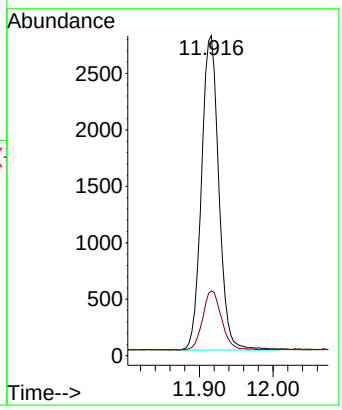


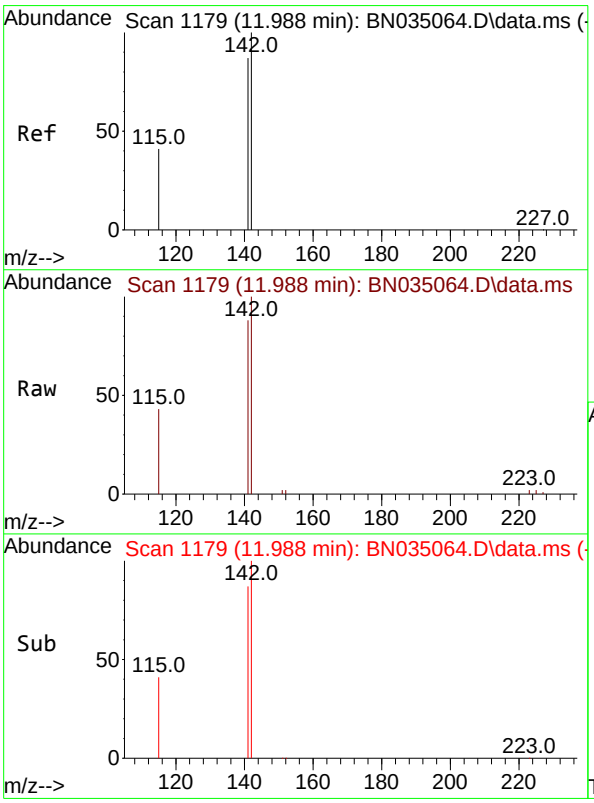
#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.916 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 4559

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4

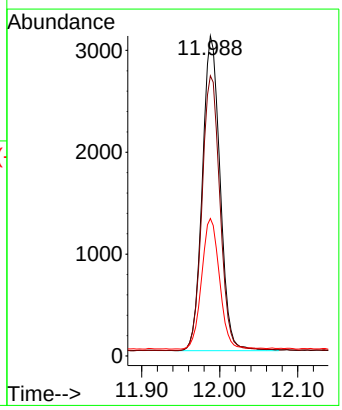


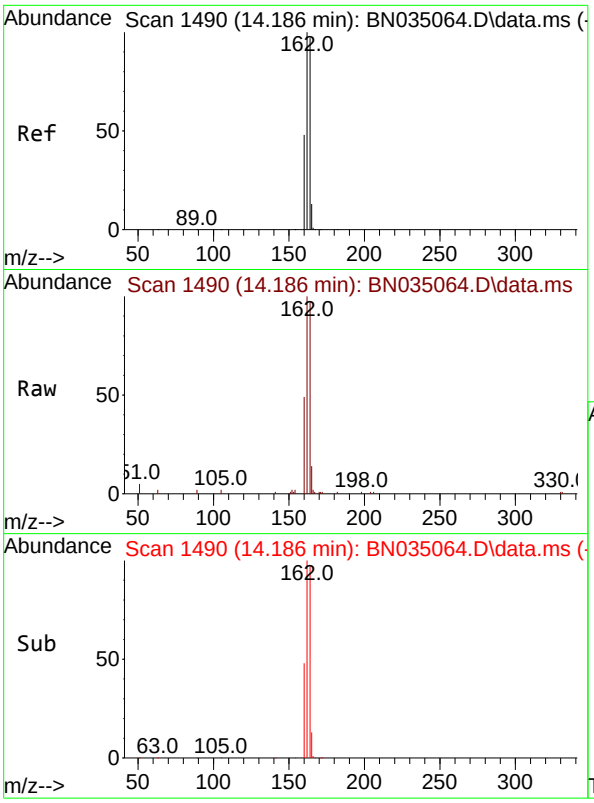


#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 11.988 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:142 Resp: 4884

Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.1	105.1
115	43.0	34.4	51.6



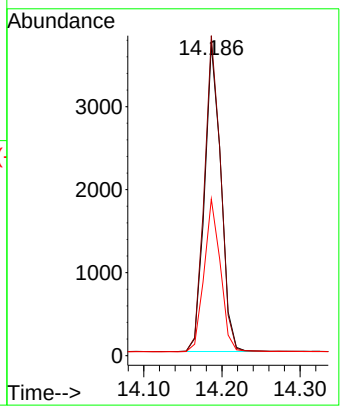


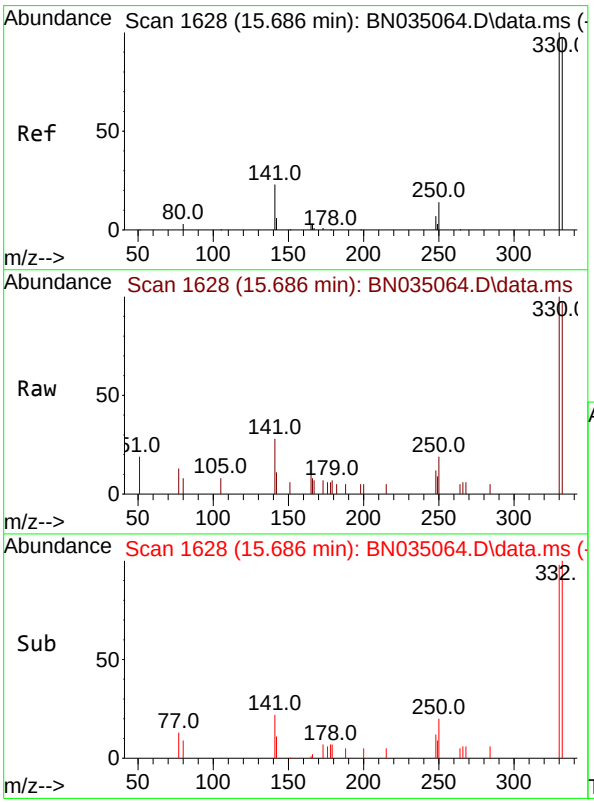
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 5401

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.3	40.2	60.4

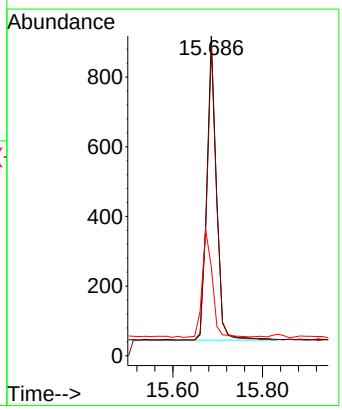


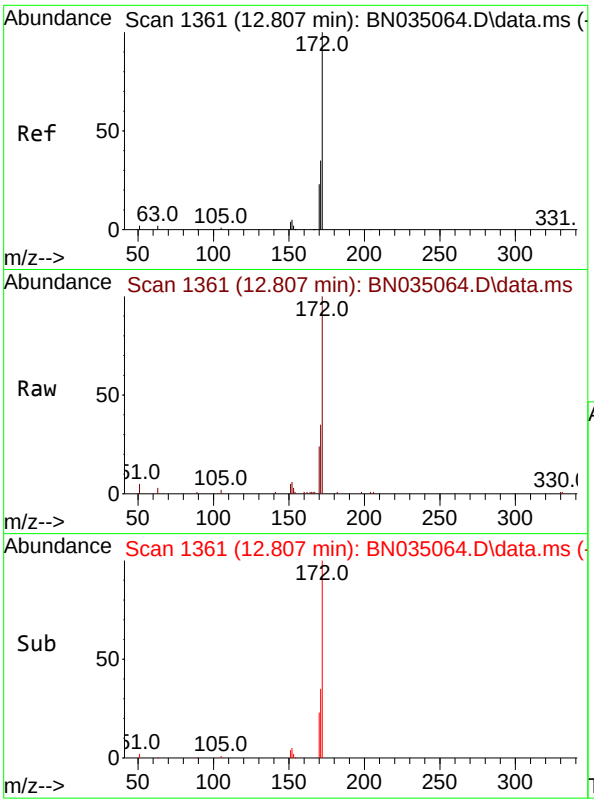


#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:330 Resp: 1295

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.9	115.3
141	37.0	29.6	44.4



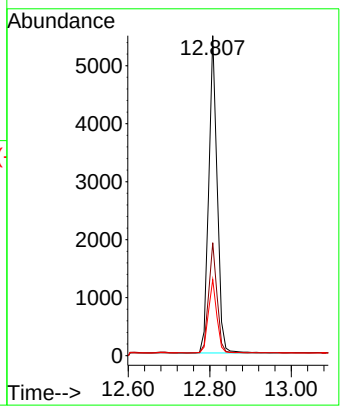


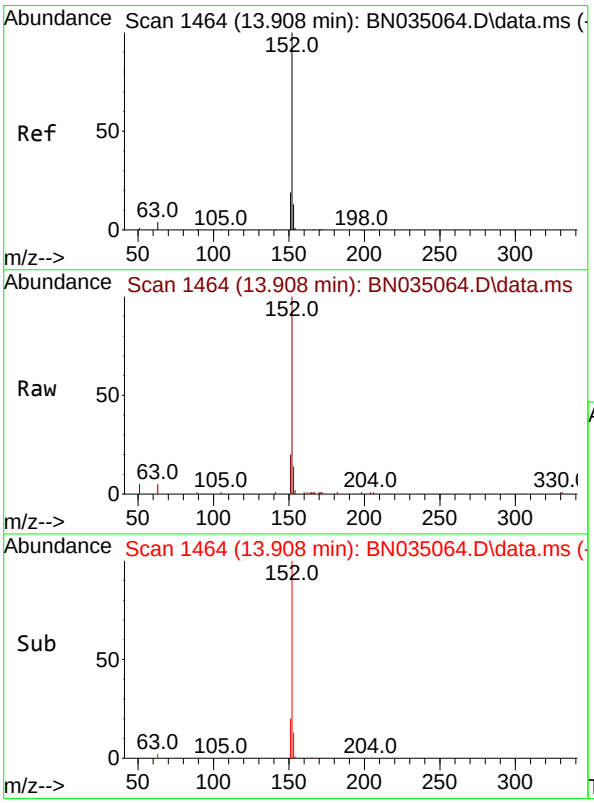
#15
2-Fluorobiphenyl
Concen: 0.360 ng
RT: 12.807 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 7888

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.2	42.4
170	23.8	19.0	28.6

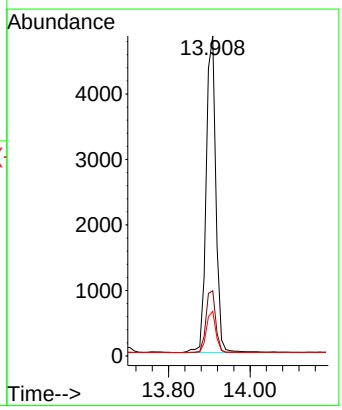


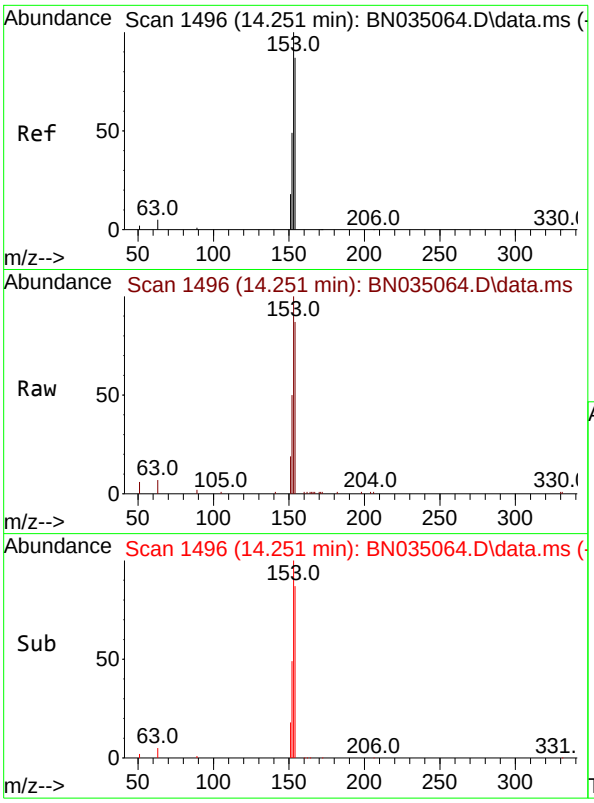


#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.908 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:152 Resp: 8034

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	12.8	10.2	15.4



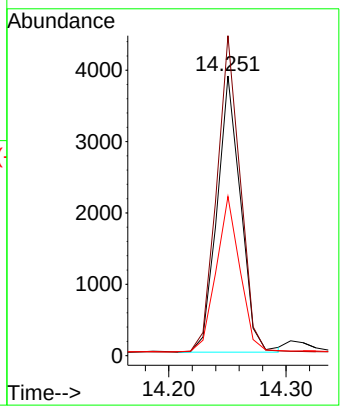


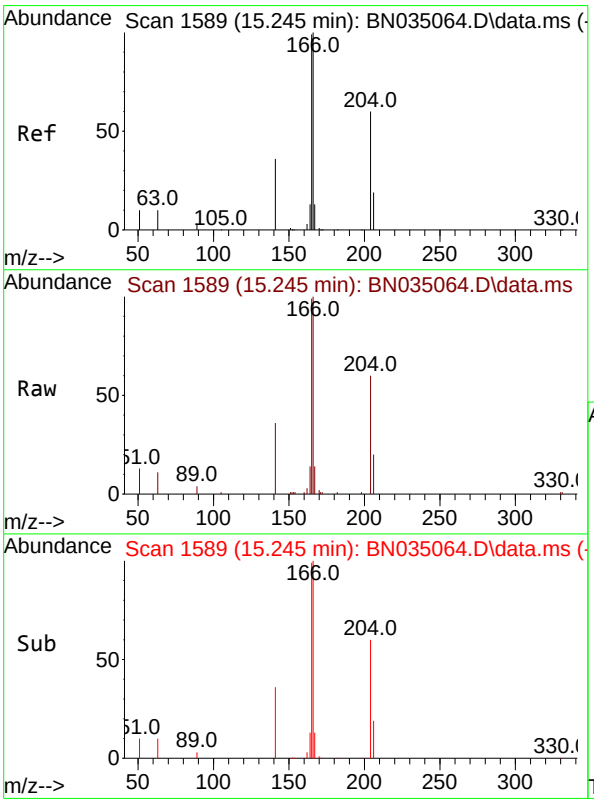
#17
Acenaphthene
Concen: 0.357 ng
RT: 14.251 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 5401

Ion	Ratio	Lower	Upper
154	100		
153	114.5	91.6	137.4
152	57.2	45.8	68.6

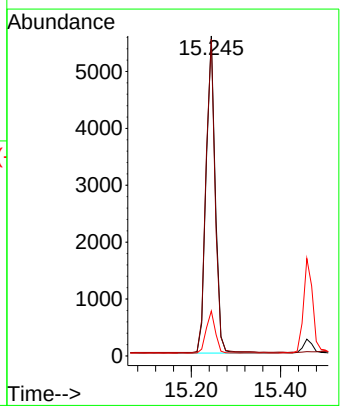


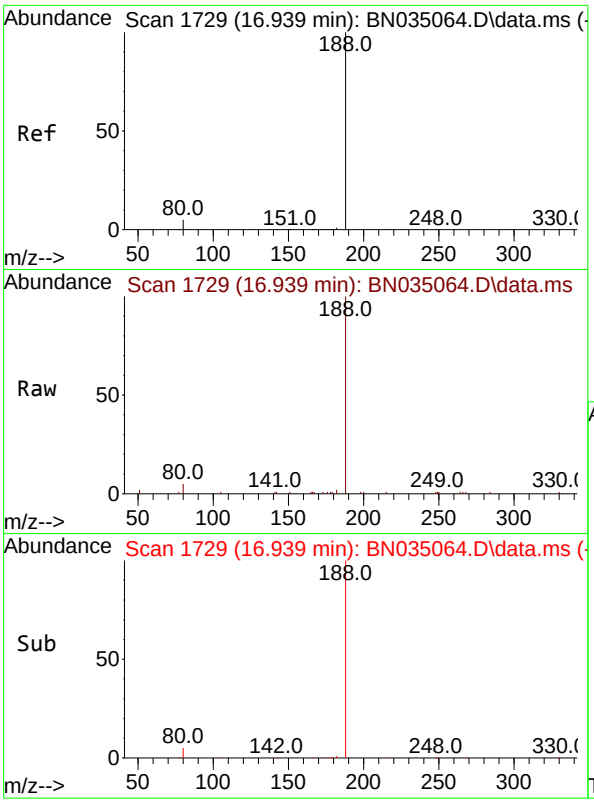


#18
Fluorene
Concen: 0.355 ng
RT: 15.245 min Scan# 1589
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:166 Resp: 7900

Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.1	118.7
167	13.3	10.6	16.0



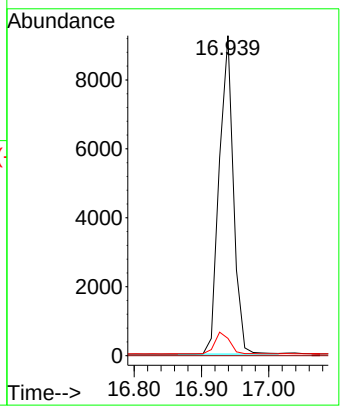


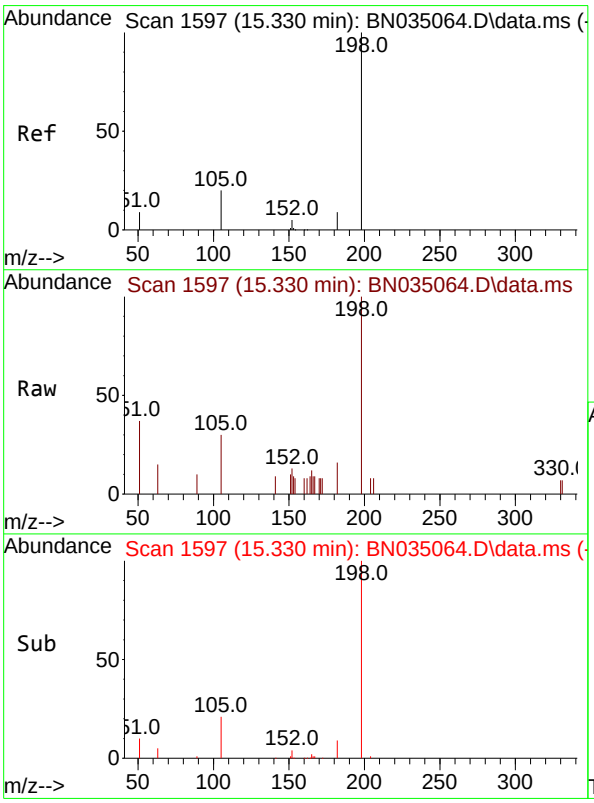
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 13499

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.4	4.3	6.5

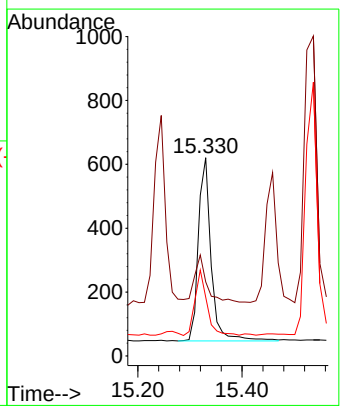


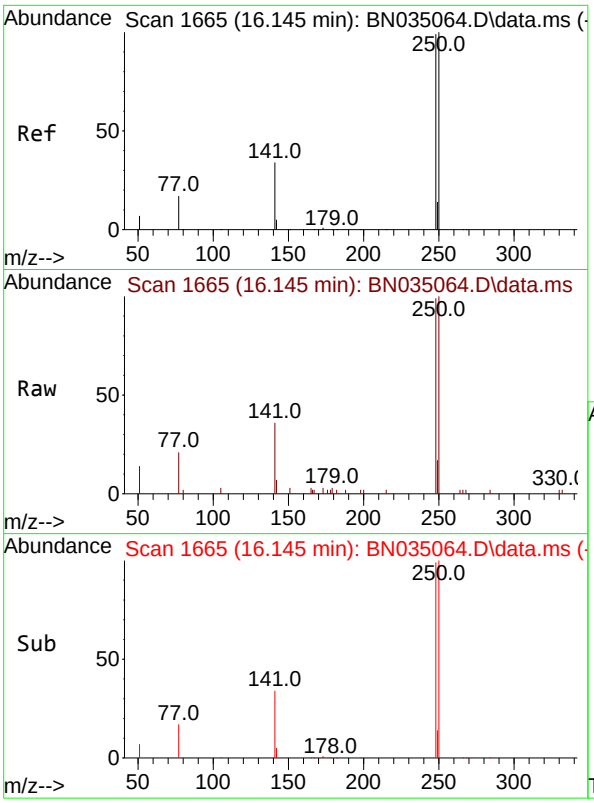


#20
4,6-Dinitro-2-methylphenol
Concen: 0.348 ng
RT: 15.330 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:198 Resp: 979

Ion	Ratio	Lower	Upper
198	100		
51	37.4	29.9	44.9
105	29.6	23.7	35.5



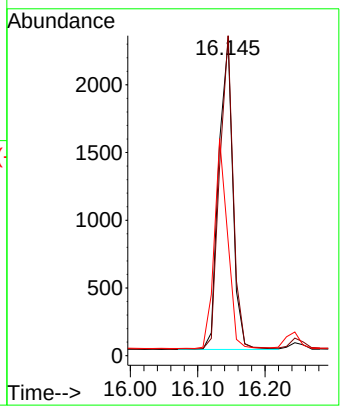


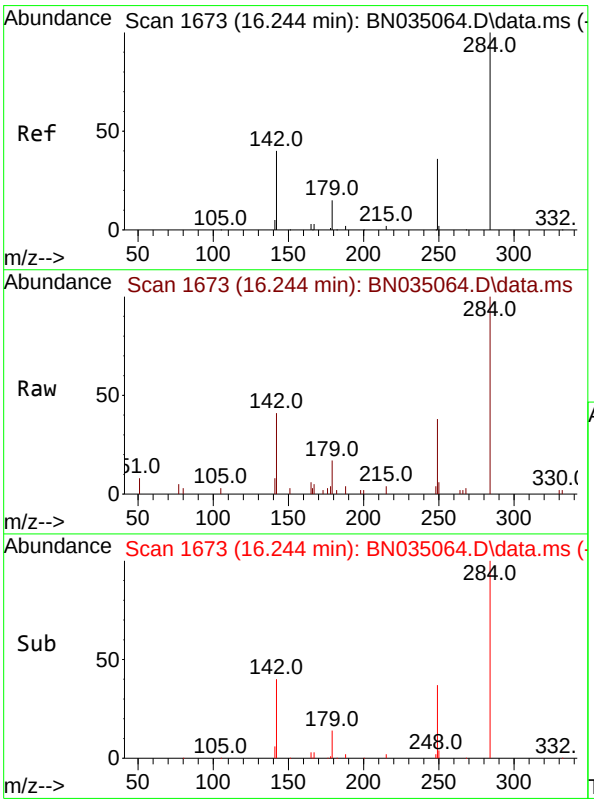
#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.145 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 3317

Ion	Ratio	Lower	Upper
248	100		
250	101.5	81.2	121.8
141	36.4	29.1	43.7

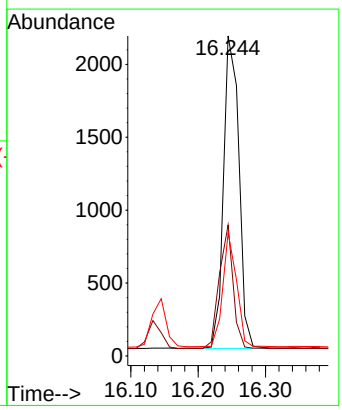


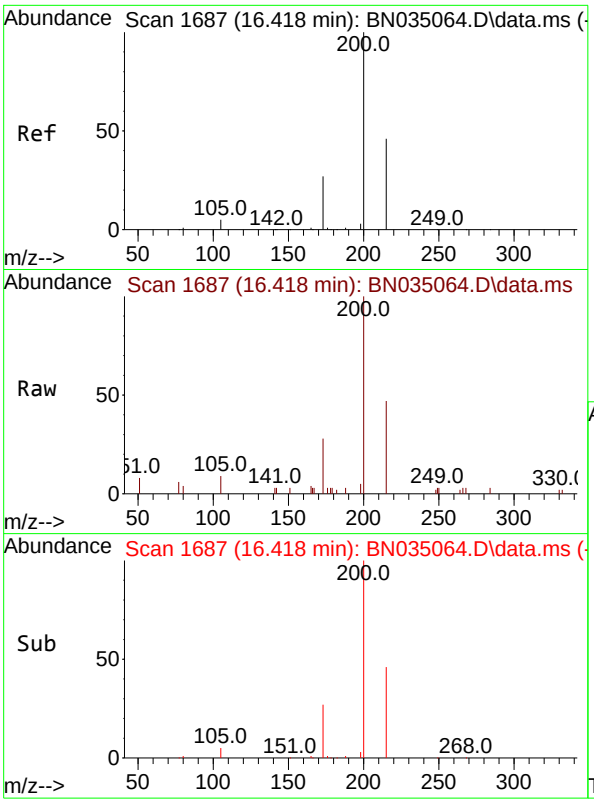


#22
Hexachlorobenzene
Concen: 0.382 ng
RT: 16.244 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:284 Resp: 3412

Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.2	42.4
249	32.7	26.2	39.2



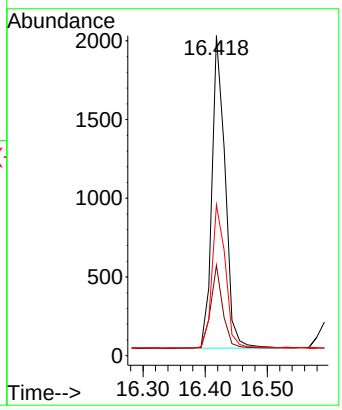


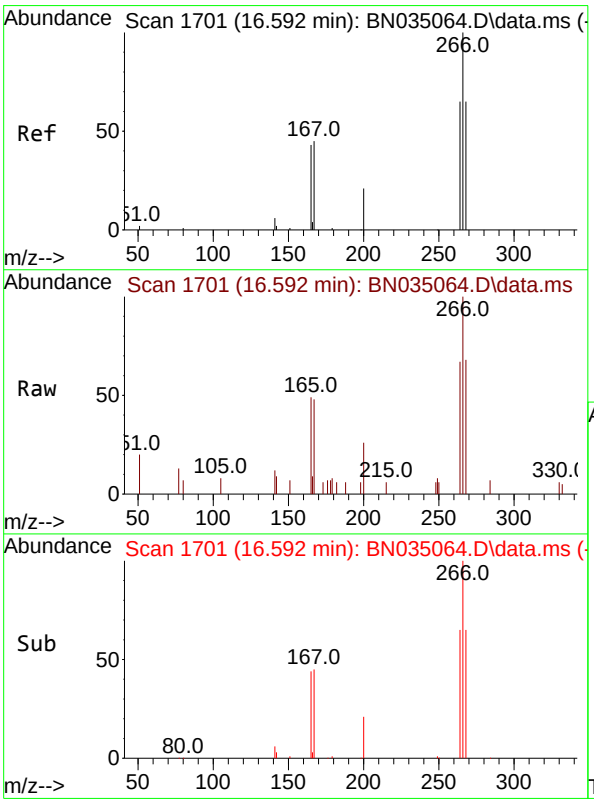
#23
Atrazine
Concen: 0.379 ng
RT: 16.418 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 2925

Ion	Ratio	Lower	Upper
200	100		
173	28.2	22.6	33.8
215	47.2	37.8	56.6

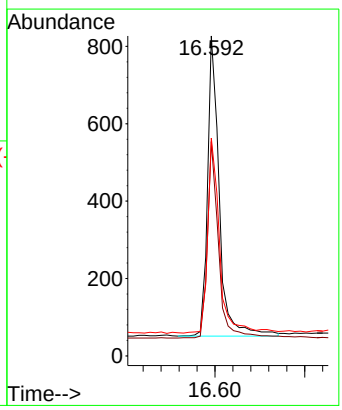


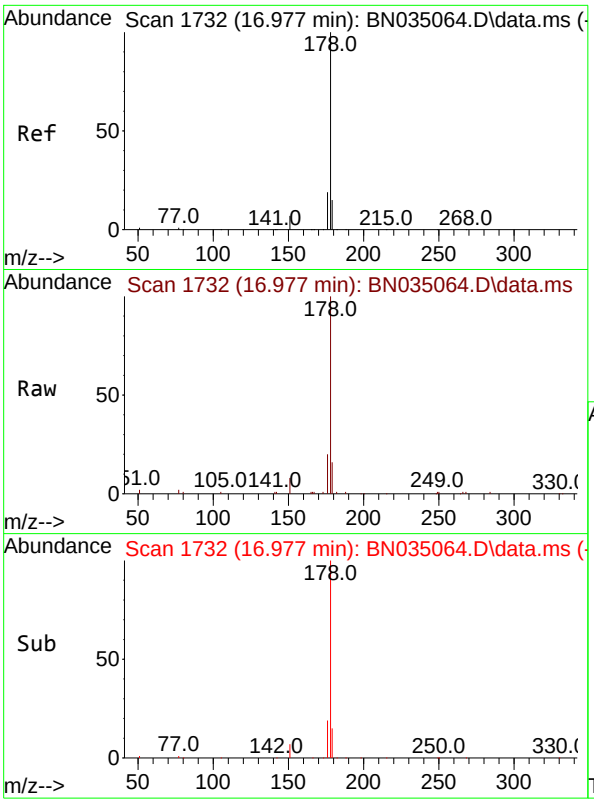


#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.592 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:266 Resp: 1402

Ion	Ratio	Lower	Upper
266	100		
264	61.7	49.4	74.0
268	65.8	52.6	79.0



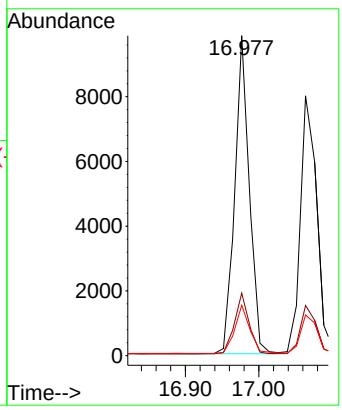


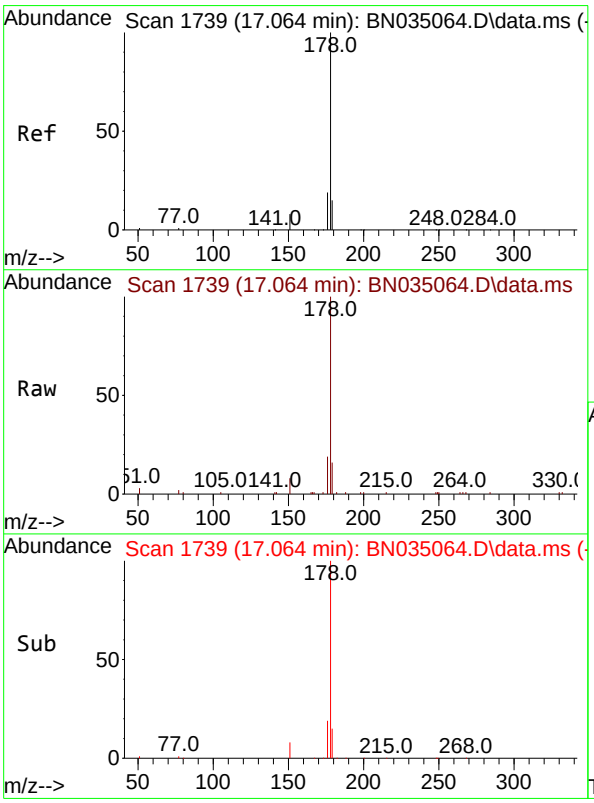
#25
Phenanthrene
Concen: 0.382 ng
RT: 16.977 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 13558

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.7	12.6	18.8

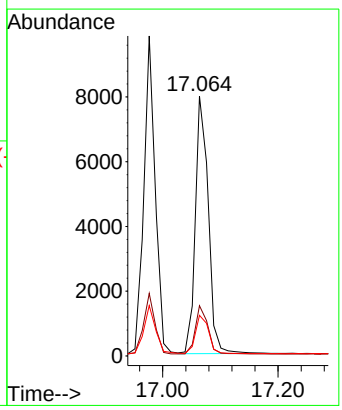


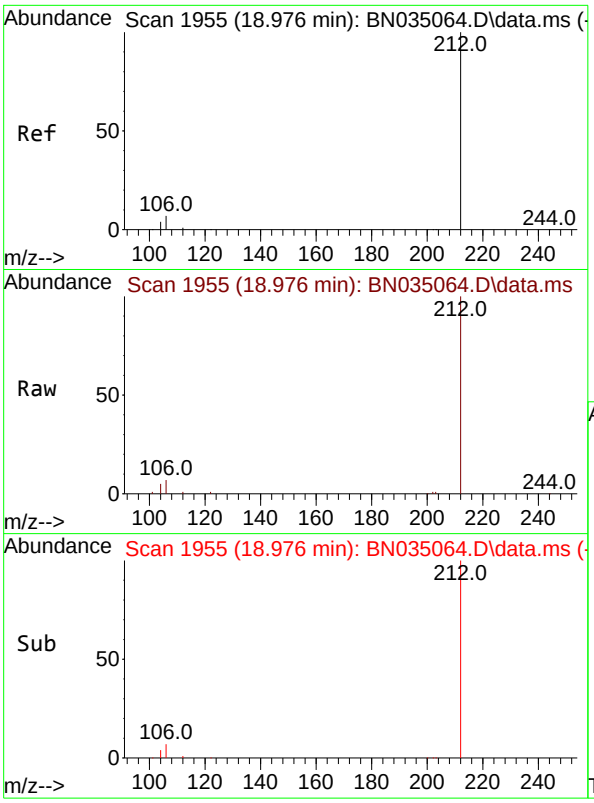


#26
Anthracene
Concen: 0.381 ng
RT: 17.064 min Scan# 1739
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:178 Resp: 12422

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	22.0
179	15.2	12.2	18.2



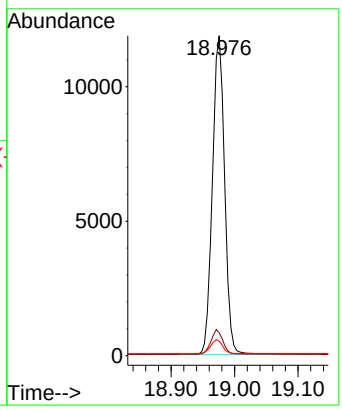


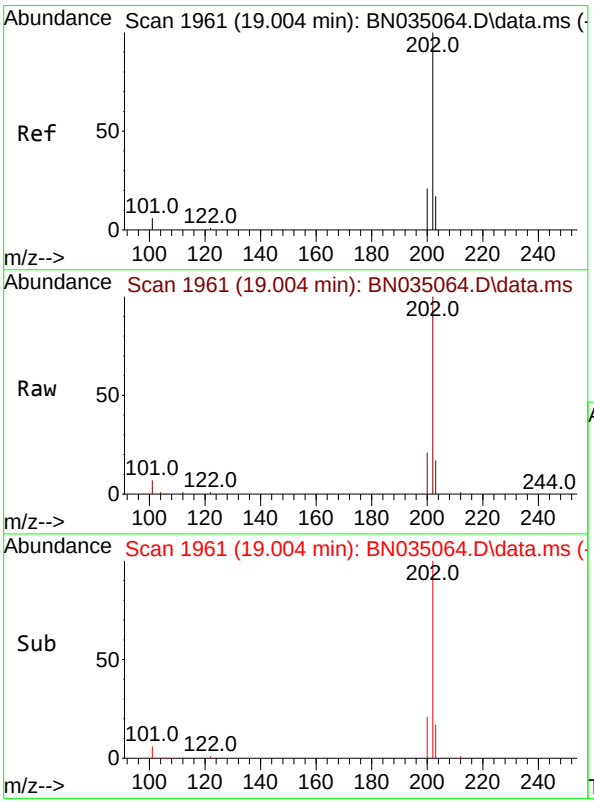
#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 18.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 15786

Ion	Ratio	Lower	Upper
212	100		
106	7.5	6.0	9.0
104	4.4	3.5	5.3

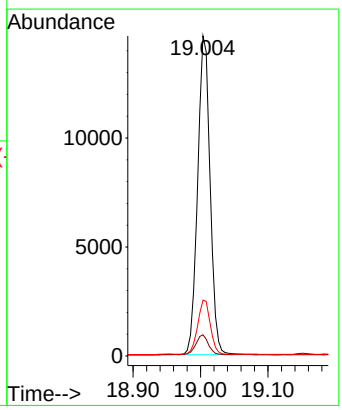


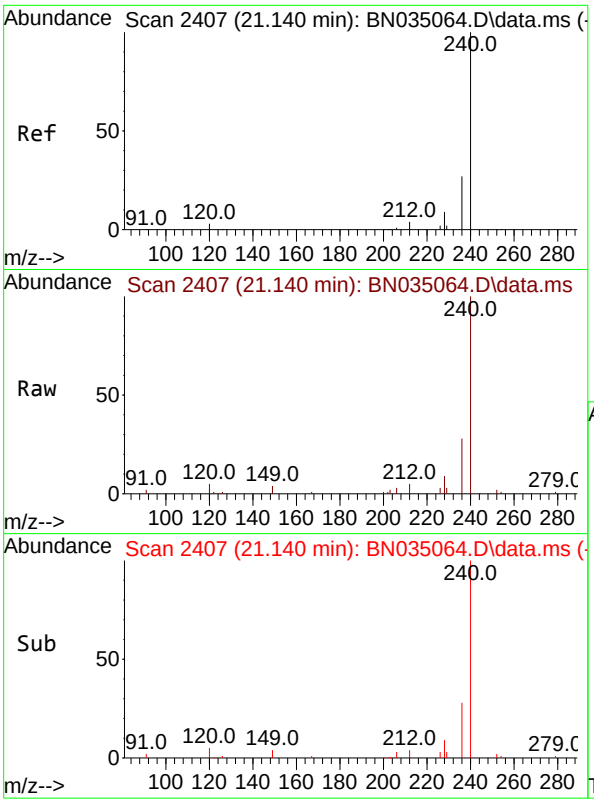


#28
Fluoranthene
Concen: 0.383 ng
RT: 19.004 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:202 Resp: 18716

Ion	Ratio	Lower	Upper
202	100		
101	6.5	5.2	7.8
203	17.3	13.8	20.8



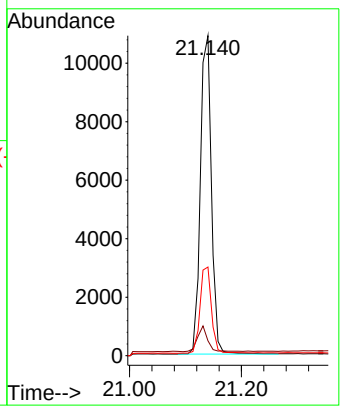


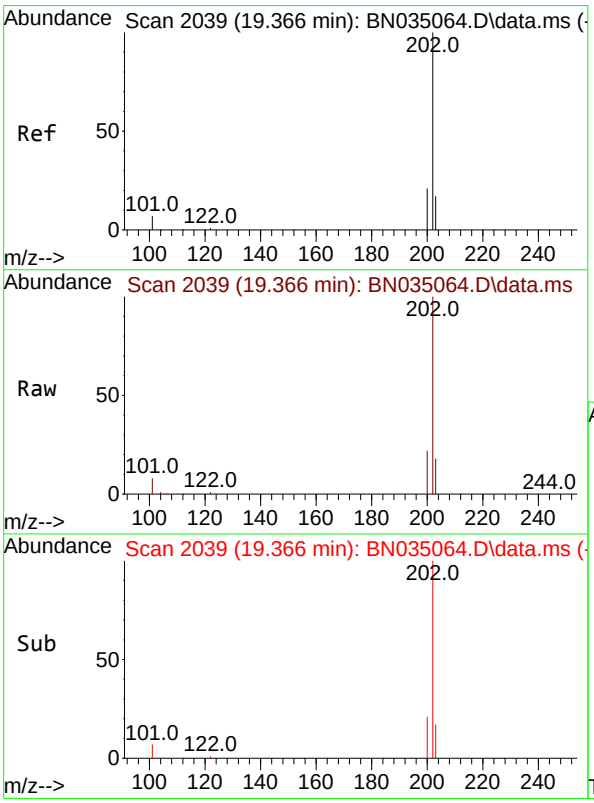
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.140 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 14946

Ion	Ratio	Lower	Upper
240	100		
120	4.7	3.8	5.6
236	27.7	22.2	33.2

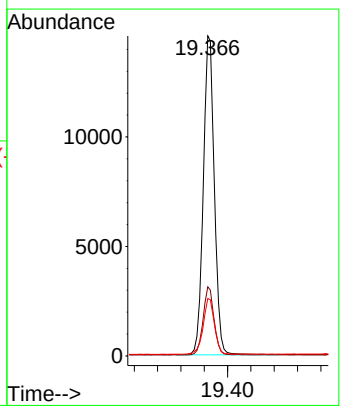


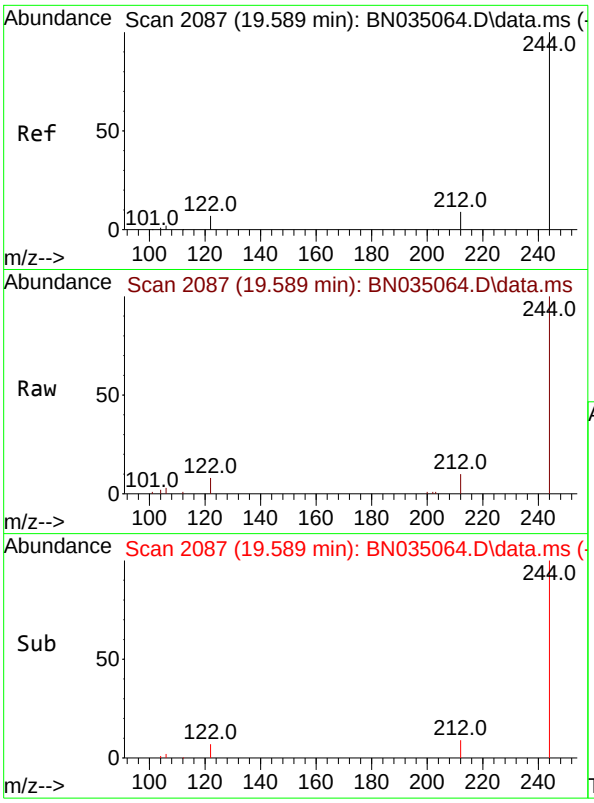


#30
Pyrene
Concen: 0.387 ng
RT: 19.366 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:202 Resp: 19252

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.8	14.2	21.4



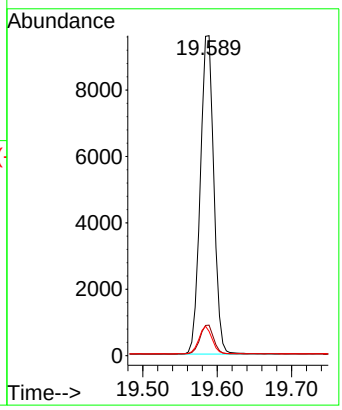


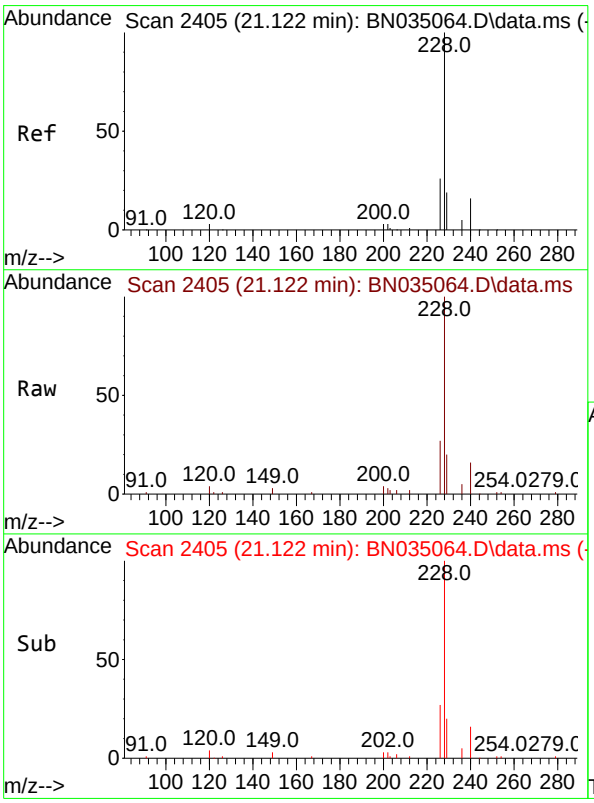
#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.589 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 12101

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	7.6	6.1	9.1

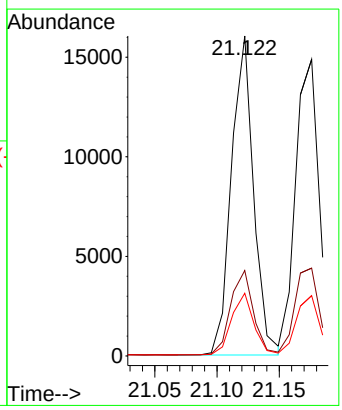


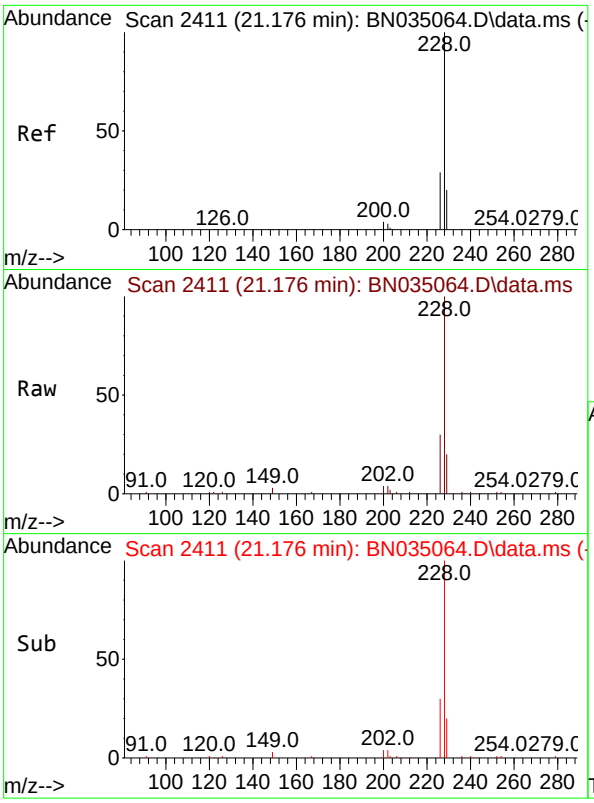


#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.122 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:228 Resp: 19844

Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.4	32.0
229	19.6	15.7	23.5



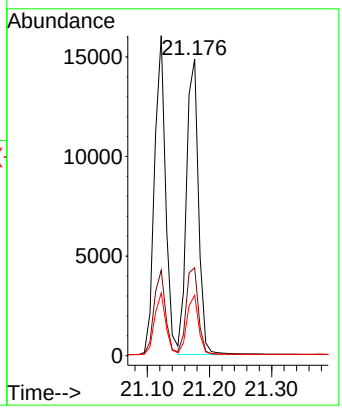


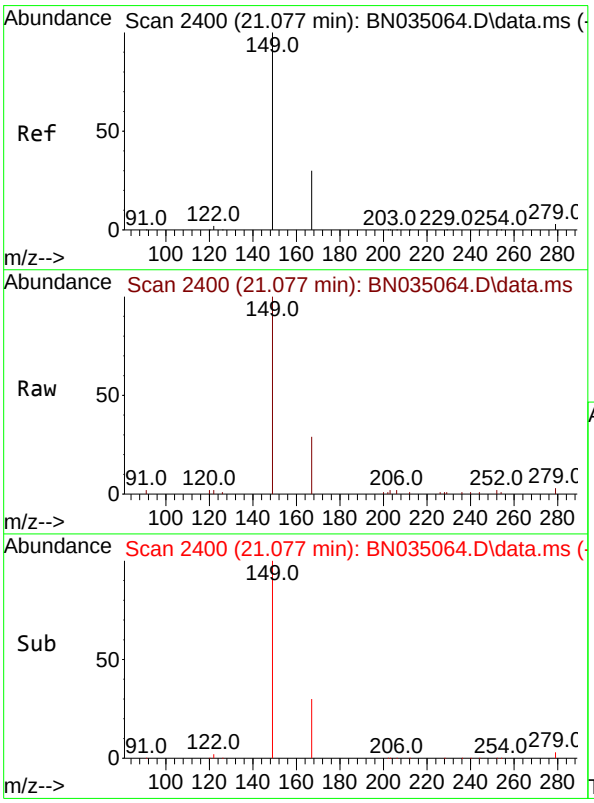
#33
Chrysene
Concen: 0.386 ng
RT: 21.176 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 19908

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.7	35.5
229	20.3	16.2	24.4

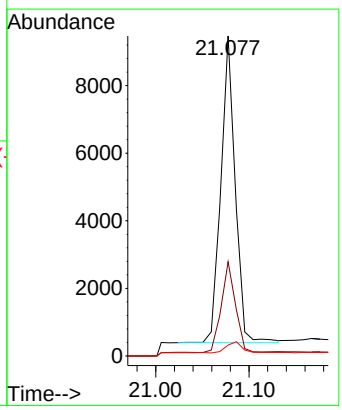


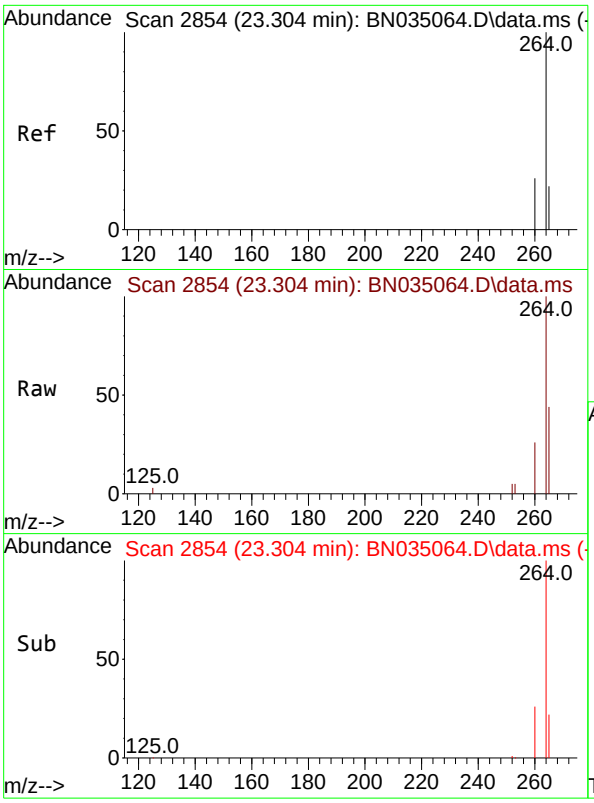


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.357 ng
RT: 21.077 min Scan# 2400
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:149 Resp: 9671

Ion	Ratio	Lower	Upper
149	100		
167	29.0	23.2	34.8
279	4.0	3.2	4.8



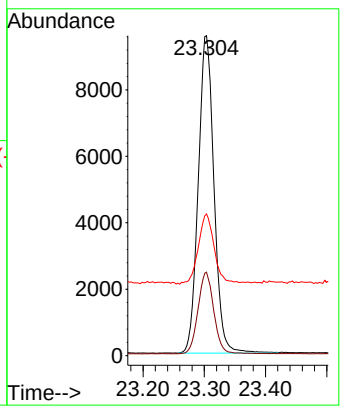


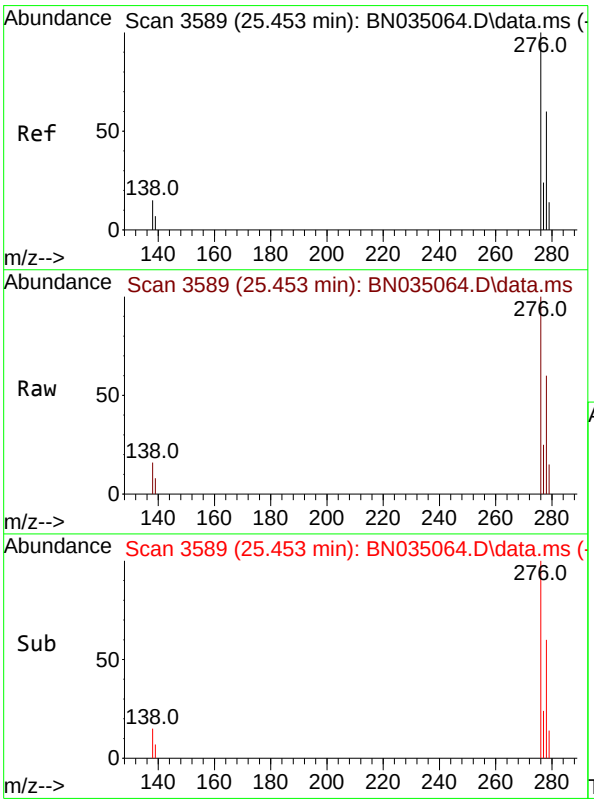
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.304 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 17077

Ion	Ratio	Lower	Upper
264	100		
260	26.1	20.9	31.3
265	44.3	35.4	53.2

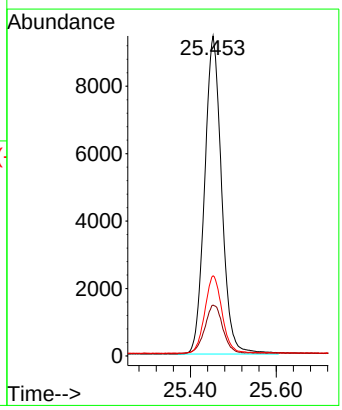


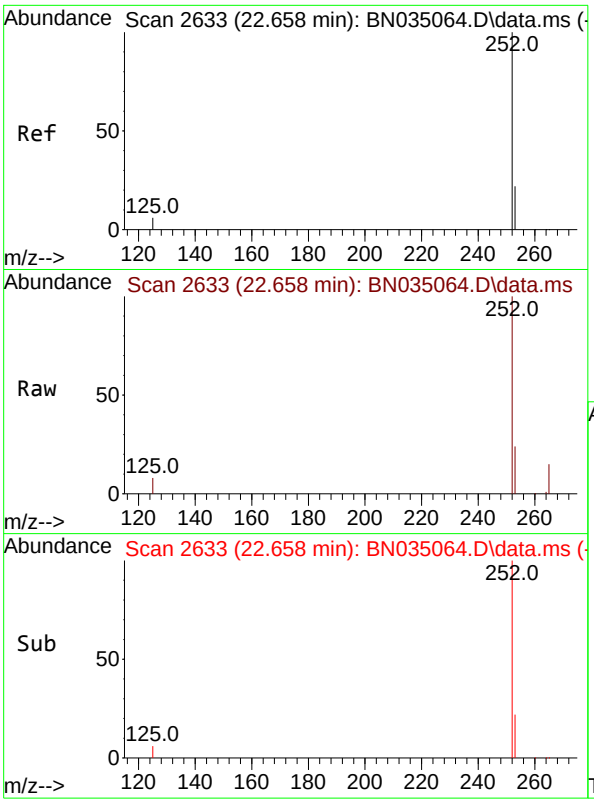


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.453 min Scan# 3589
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:276 Resp: 25986

Ion	Ratio	Lower	Upper
276	100		
138	16.2	13.0	19.4
277	24.7	19.8	29.6



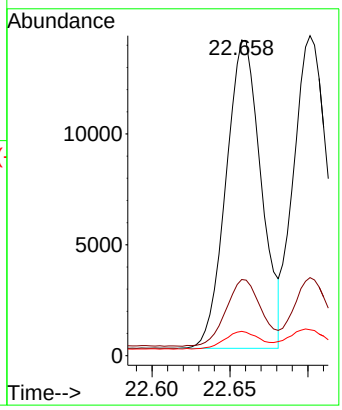


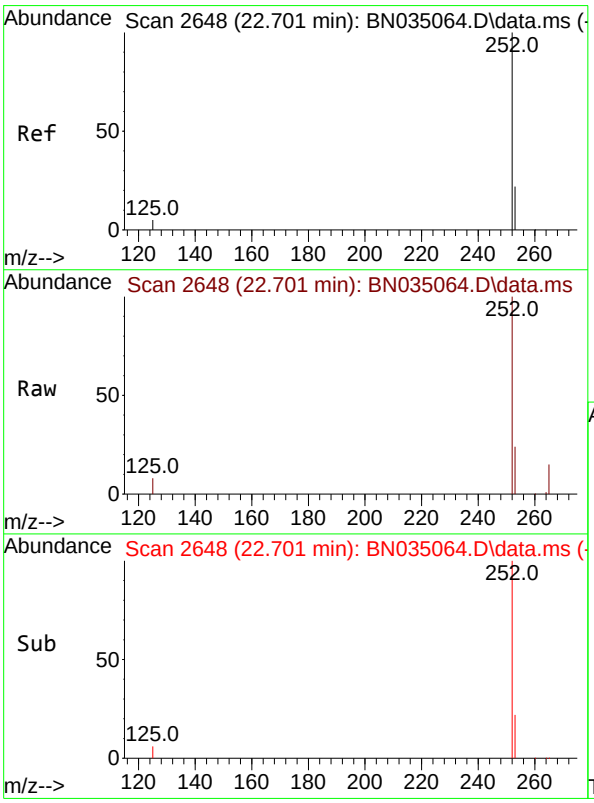
#37
Benzo(b)fluoranthene
Concen: 0.380 ng
RT: 22.658 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 21843

Ion	Ratio	Lower	Upper
252	100		
253	24.1	19.3	28.9
125	7.7	6.2	9.2

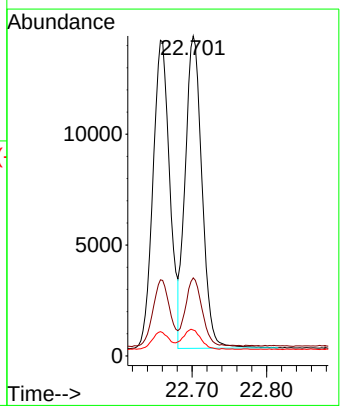


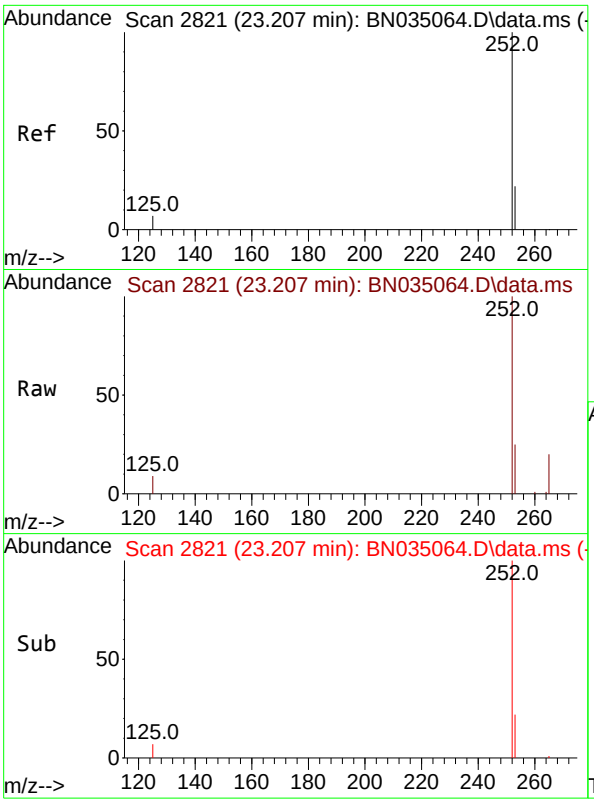


#38
Benzo(k)fluoranthene
Concen: 0.382 ng
RT: 22.701 min Scan# 2648
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:252 Resp: 21977

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	8.1	6.5	9.7



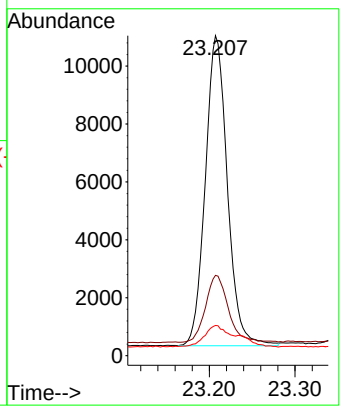


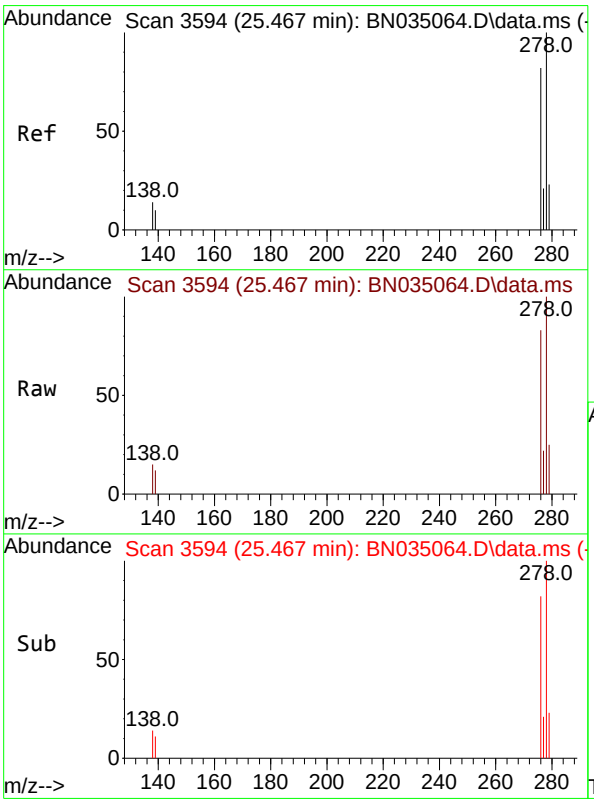
#39
Benzo(a)pyrene
Concen: 0.379 ng
RT: 23.207 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 19170

Ion	Ratio	Lower	Upper
252	100		
253	25.1	20.1	30.1
125	9.4	7.5	11.3

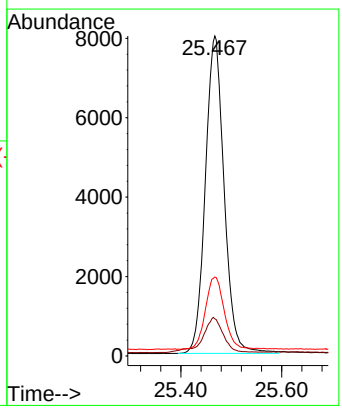


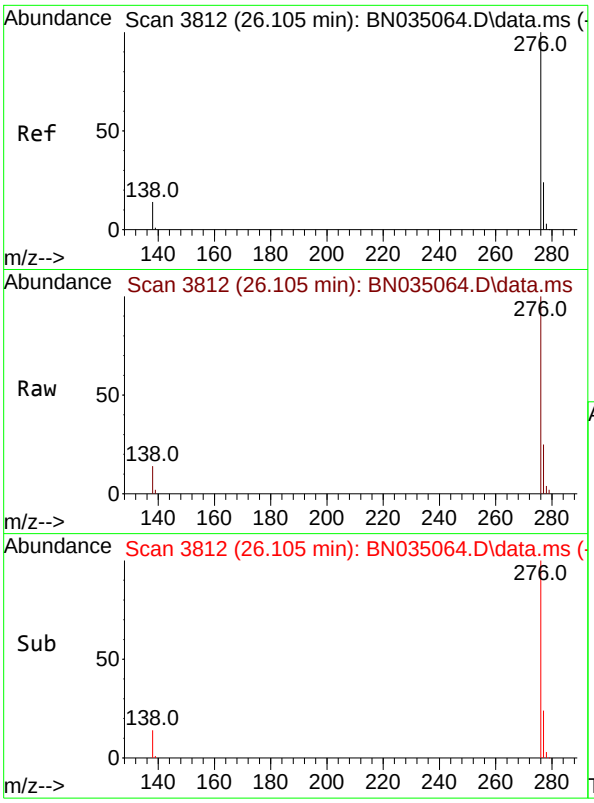


#40
Dibenzo(a,h)anthracene
Concen: 0.383 ng
RT: 25.467 min Scan# 3594
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:278 Resp: 20655

Ion	Ratio	Lower	Upper
278	100		
139	11.6	9.3	13.9
279	24.6	19.7	29.5



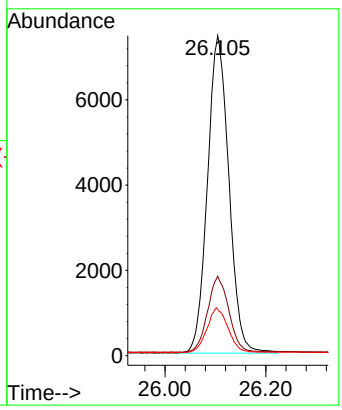


#41
Benzo(g,h,i)perylene
Concen: 0.382 ng
RT: 26.105 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 21955

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	14.5	11.6	17.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035065.D
Acq On : 13 Nov 2024 14:28
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 13 16:44:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	3429	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	8612	0.400	ng		0.00
13) Acenaphthene-d10	14.190	164	6454	0.400	ng		0.00
19) Phenanthrene-d10	16.933	188	17302	0.400	ng	#	0.00
29) Chrysene-d12	21.134	240	19278	0.400	ng	#	0.00
35) Perylene-d12	23.300	264	21751	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	7450	0.856	ng		0.00
5) Phenol-d6	6.737	99	9293	0.851	ng		0.00
8) Nitrobenzene-d5	8.685	82	6336	0.848	ng		-0.01
11) 2-Methylnaphthalene-d10	11.912	152	13119	0.855	ng		0.00
14) 2,4,6-Tribromophenol	15.679	330	3866	0.831	ng		0.00
15) 2-Fluorobiphenyl	12.811	172	22399	0.855	ng		0.00
27) Fluoranthene-d10	18.973	212	44583	0.841	ng		0.00
31) Terphenyl-d14	19.582	244	34460	0.852	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.177	88	2545	0.817	ng		99
3) n-Nitrosodimethylamine	3.473	42	2466	0.853	ng	#	96
6) bis(2-Chloroethyl)ether	6.990	93	7043	0.860	ng		99
9) Naphthalene	10.362	128	19223	0.855	ng		98
10) Hexachlorobutadiene	10.661	225	5612	0.851	ng	#	100
12) 2-Methylnaphthalene	11.988	142	14179	0.855	ng		99
16) Acenaphthylene	13.902	152	23520	0.853	ng		99
17) Acenaphthene	14.254	154	15511	0.858	ng		99
18) Fluorene	15.238	166	22649	0.852	ng		99
20) 4,6-Dinitro-2-methylph...	15.323	198	3013	0.837	ng	#	87
21) 4-Bromophenyl-phenylether	16.138	248	9403	0.853	ng	#	85
22) Hexachlorobenzene	16.250	284	9574	0.837	ng		99
23) Atrazine	16.424	200	8427	0.852	ng	#	92
24) Pentachlorophenol	16.597	266	4494	0.841	ng		98
25) Phenanthrene	16.970	178	38573	0.847	ng		99
26) Anthracene	17.069	178	35437	0.847	ng		100
28) Fluoranthene	19.006	202	53391	0.853	ng		100
30) Pyrene	19.368	202	54892	0.855	ng		100
32) Benzo(a)anthracene	21.116	228	56460	0.841	ng		98
33) Chrysene	21.169	228	57039	0.858	ng		98
34) Bis(2-ethylhexyl)phtha...	21.080	149	29628	0.848	ng		100
36) Indeno(1,2,3-cd)pyrene	25.452	276	75270	0.867	ng		100
37) Benzo(b)fluoranthene	22.657	252	62606	0.855	ng		97
38) Benzo(k)fluoranthene	22.701	252	61702	0.843	ng		96
39) Benzo(a)pyrene	23.206	252	54251	0.842	ng	#	95
40) Dibenzo(a,h)anthracene	25.466	278	59829	0.870	ng		99
41) Benzo(g,h,i)perylene	26.104	276	63167	0.864	ng		98

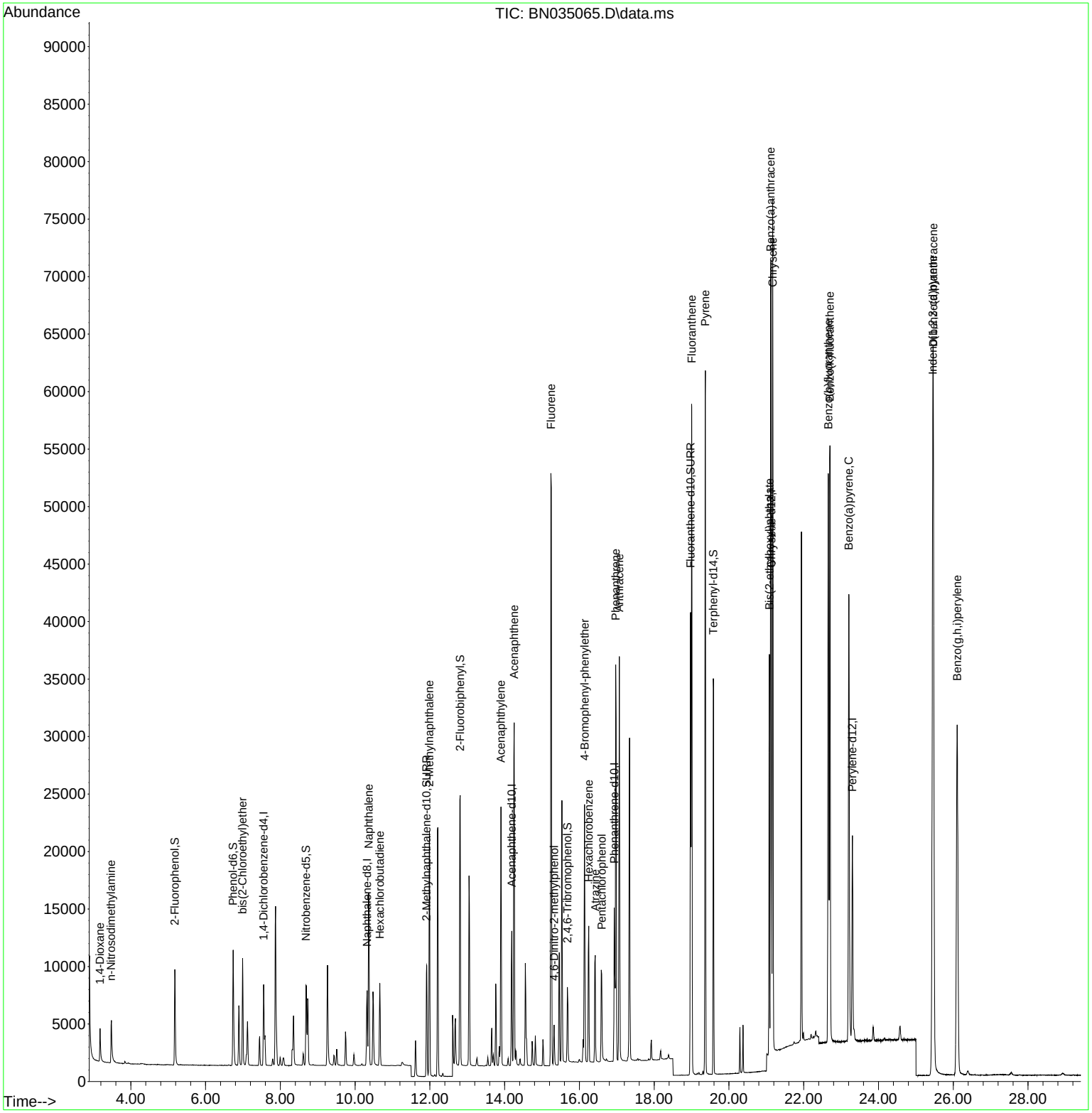
(#) = qualifier out of range (m) = manual integration (+) = signals summed

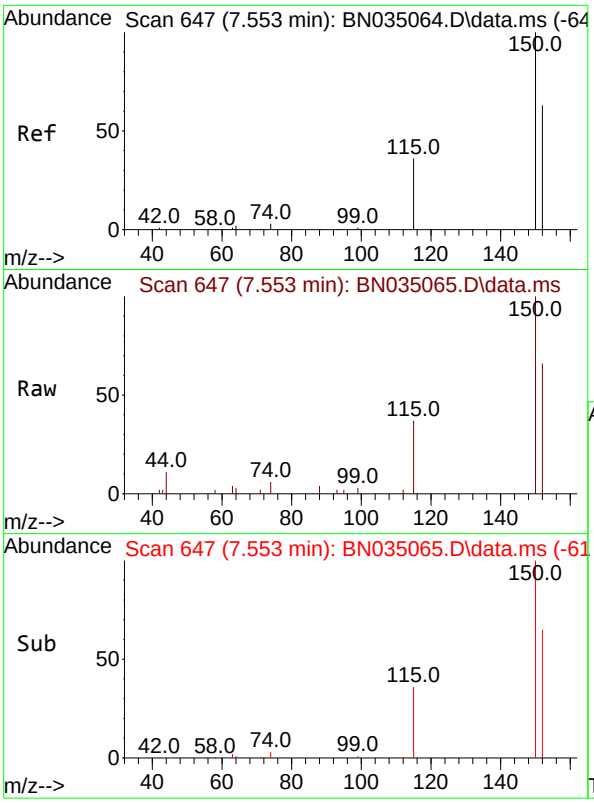
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035065.D
Acq On : 13 Nov 2024 14:28
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 13 16:44:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



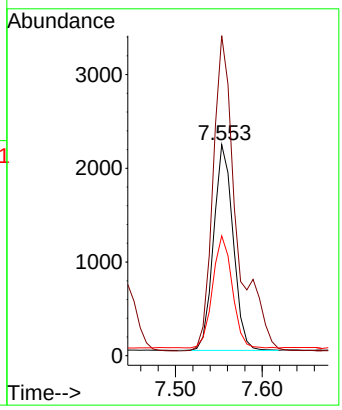


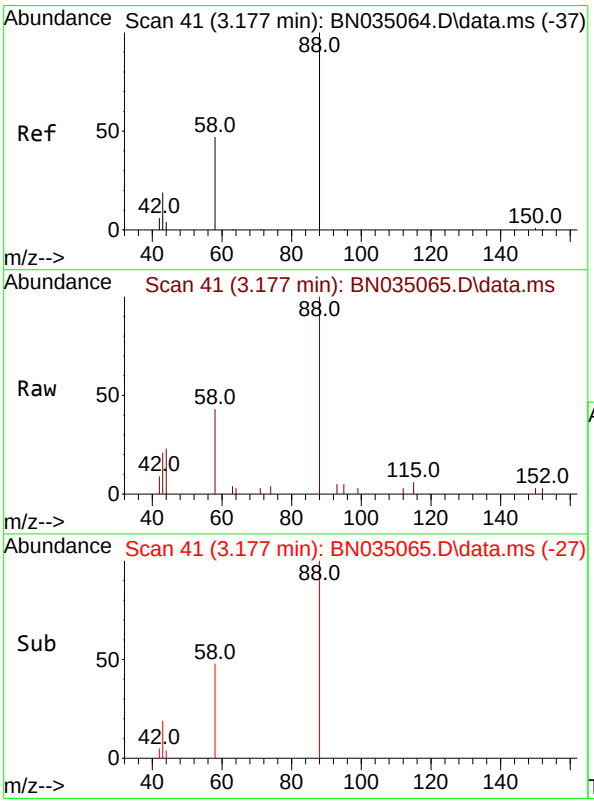
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 3429

Ion	Ratio	Lower	Upper
152	100		
150	151.6	124.5	186.7
115	56.8	47.8	71.6

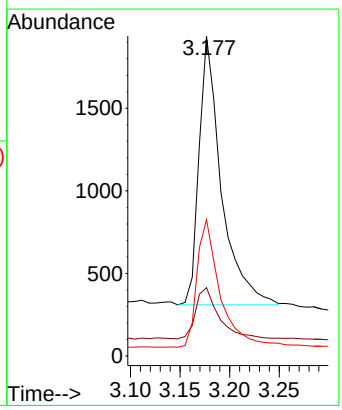


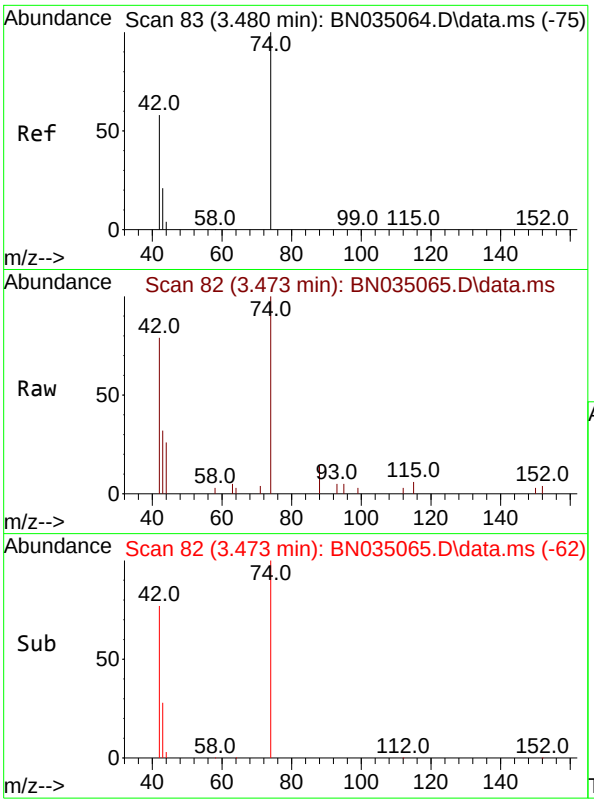


#2
1,4-Dioxane
Concen: 0.817 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 88 Resp: 2545

Ion	Ratio	Lower	Upper
88	100		
43	19.8	16.9	25.3
58	49.3	39.0	58.4



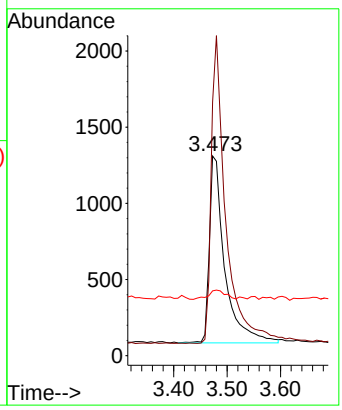


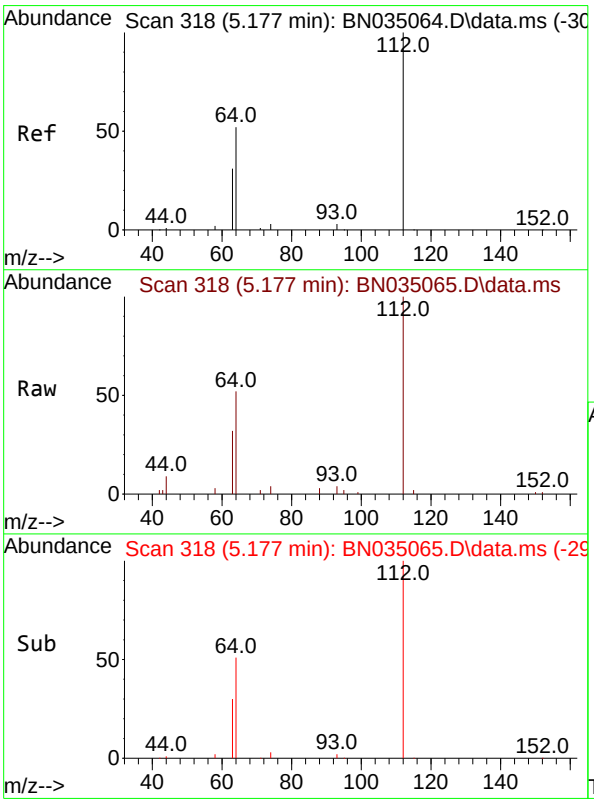
#3
n-Nitrosodimethylamine
Concen: 0.853 ng
RT: 3.473 min Scan# 8
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 2466

Ion	Ratio	Lower	Upper
42	100		
74	155.8	120.8	181.2
44	5.4	2.9	4.3#

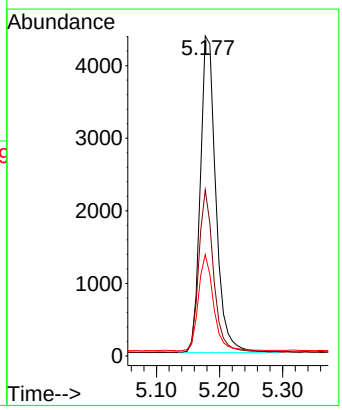


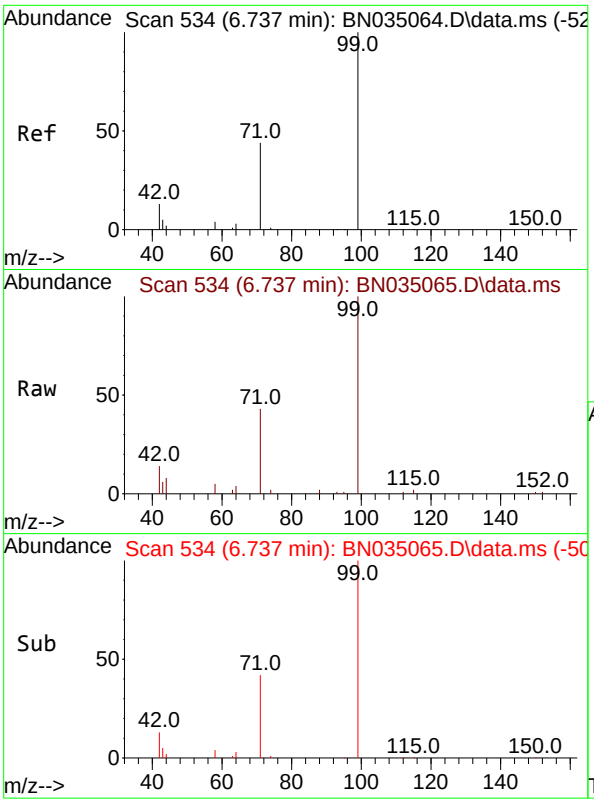


#4
2-Fluorophenol
Concen: 0.856 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:112 Resp: 7450

Ion	Ratio	Lower	Upper
112	100		
64	49.1	39.7	59.5
63	29.6	23.0	34.4



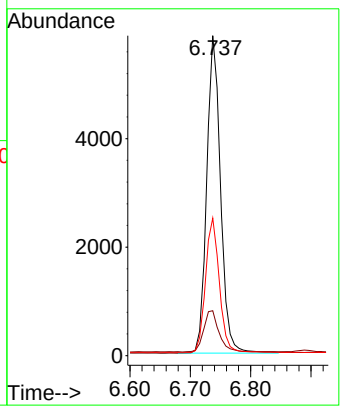


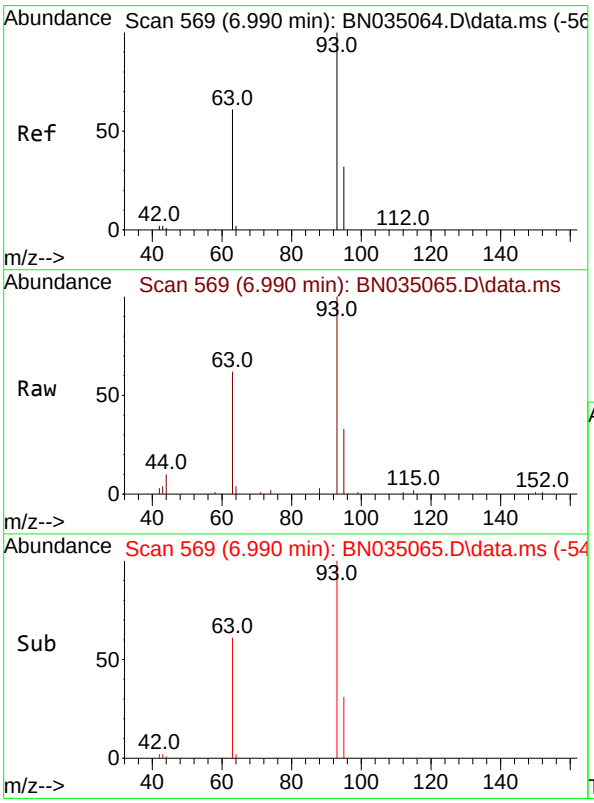
#5
Phenol-d6
Concen: 0.851 ng
RT: 6.737 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 9293

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.0
71	42.9	34.6	51.8

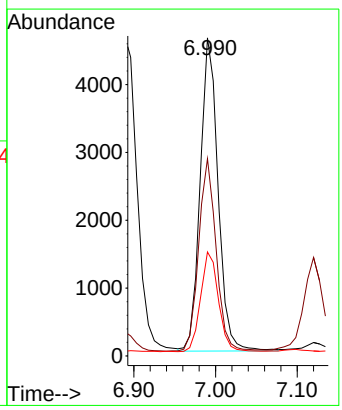


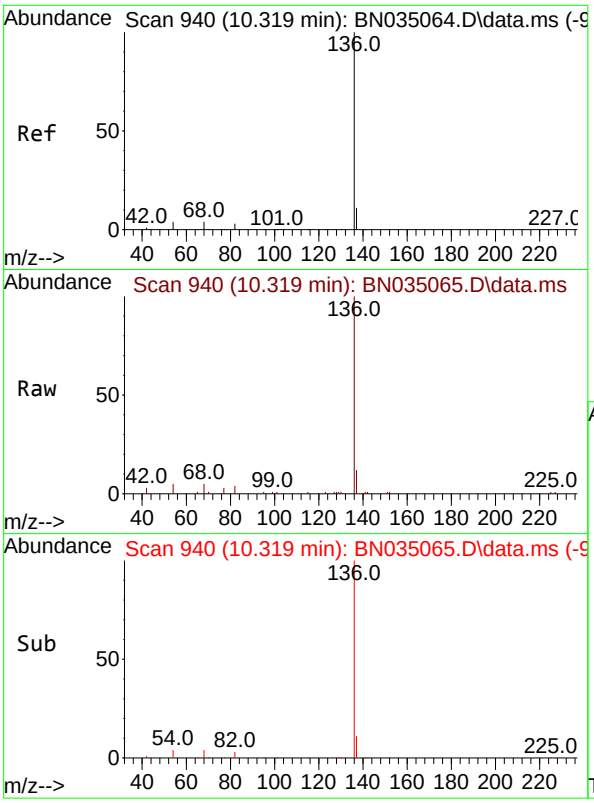


#6
bis(2-Chloroethyl)ether
Concen: 0.860 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 93 Resp: 7043

Ion	Ratio	Lower	Upper
93	100		
63	60.1	47.4	71.2
95	31.8	26.2	39.4



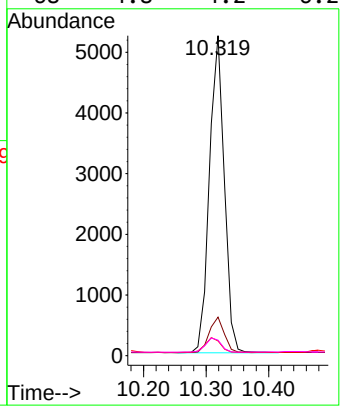


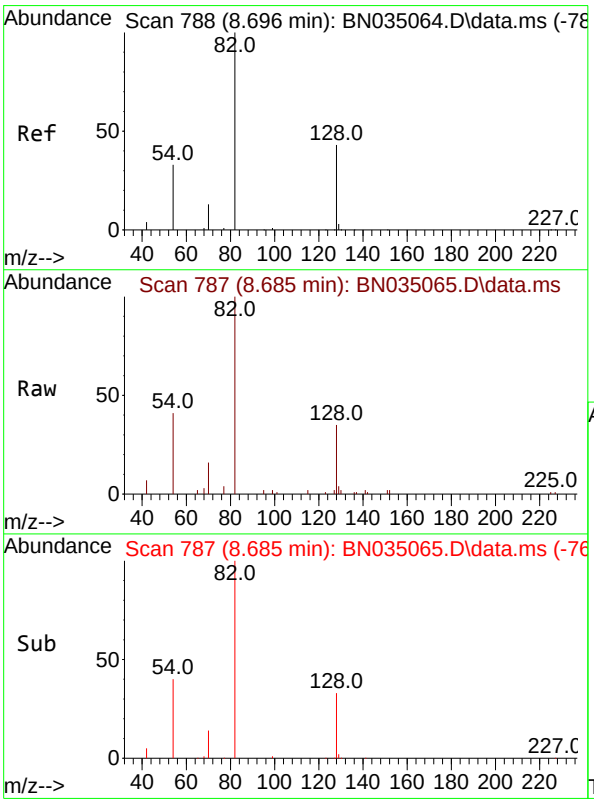
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 8612

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.6	4.0	6.0
68	4.8	4.2	6.2

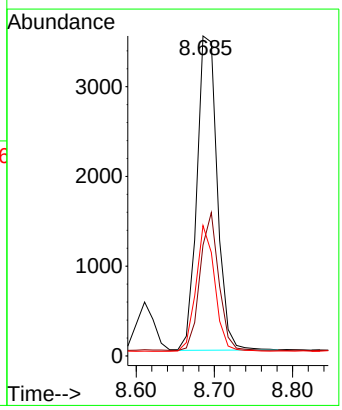


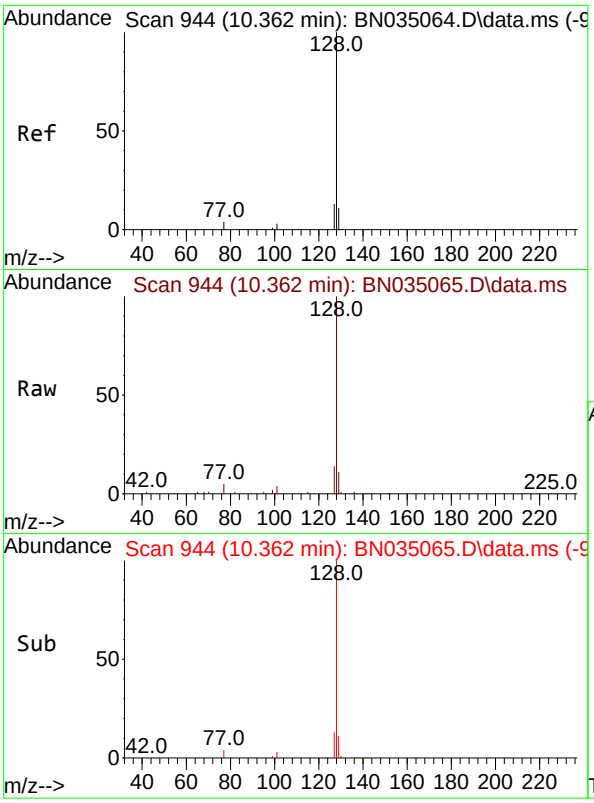


#8
Nitrobenzene-d5
Concen: 0.848 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 82 Resp: 6336

Ion	Ratio	Lower	Upper
82	100		
128	34.6	36.5	54.7#
54	40.8	28.7	43.1



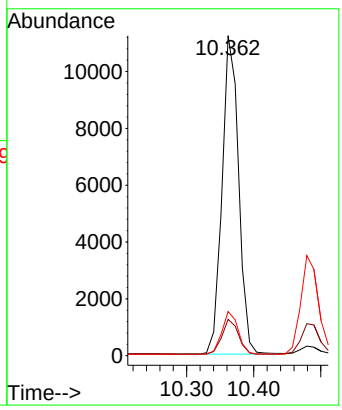


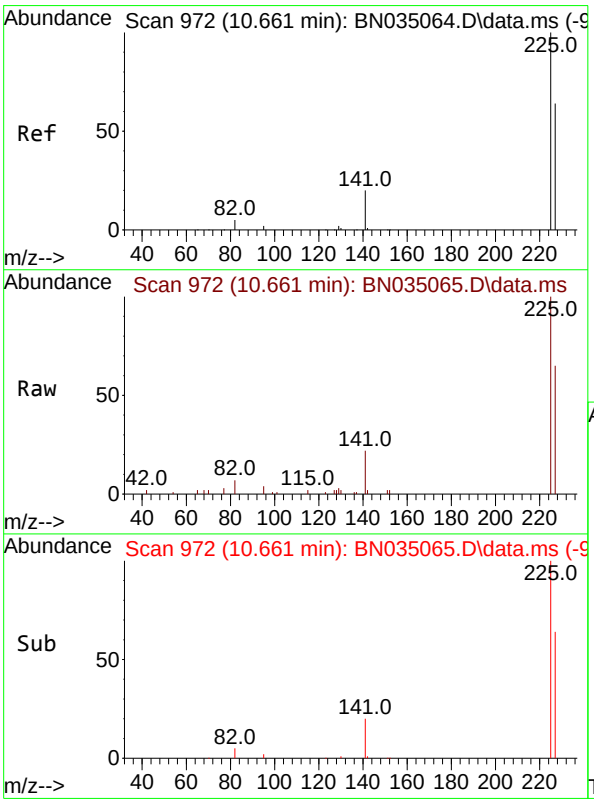
#9
Naphthalene
Concen: 0.855 ng
RT: 10.362 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 19223

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.6	14.4
127	13.8	11.6	17.4

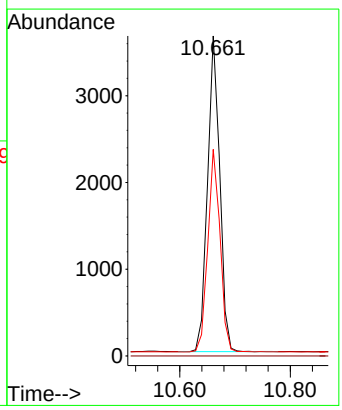


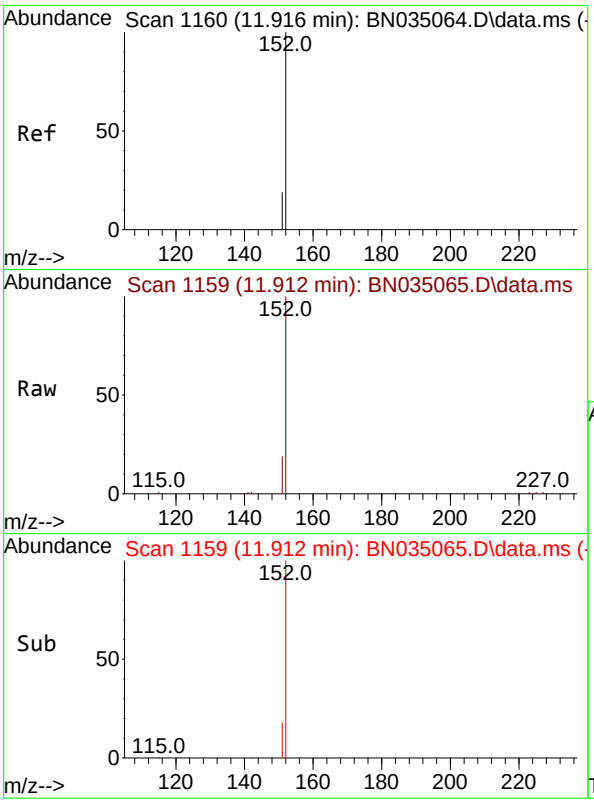


#10
Hexachlorobutadiene
Concen: 0.851 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:225 Resp: 5612

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.5	77.3



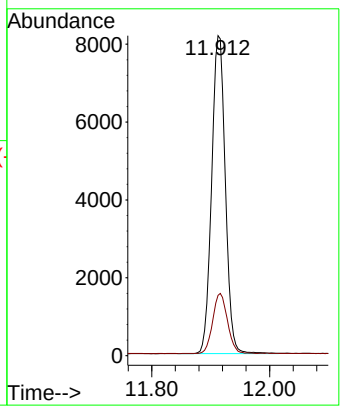


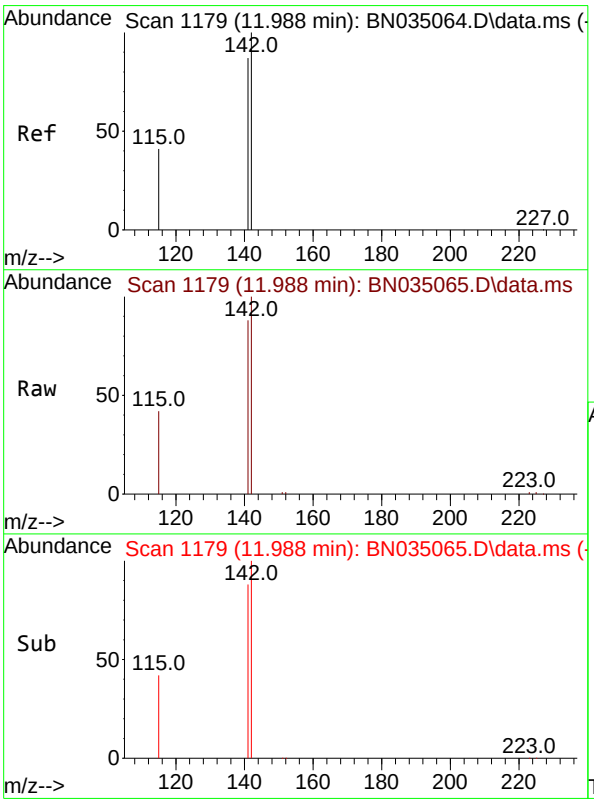
#11
2-Methylnaphthalene-d10
Concen: 0.855 ng
RT: 11.912 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 13119

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4

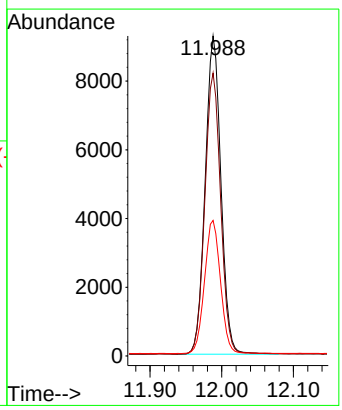


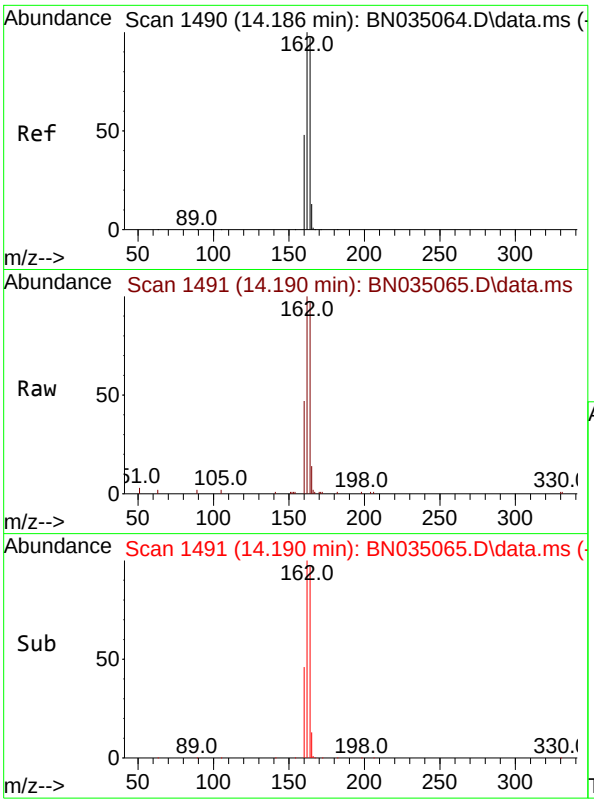


#12
2-Methylnaphthalene
Concen: 0.855 ng
RT: 11.988 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:142 Resp: 14179

Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.1	105.1
115	42.4	34.4	51.6



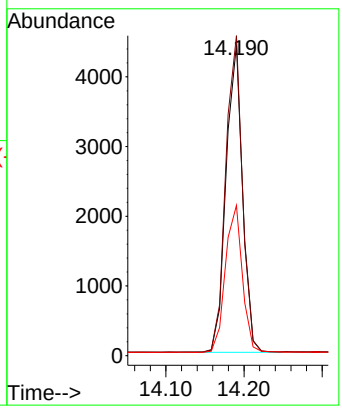


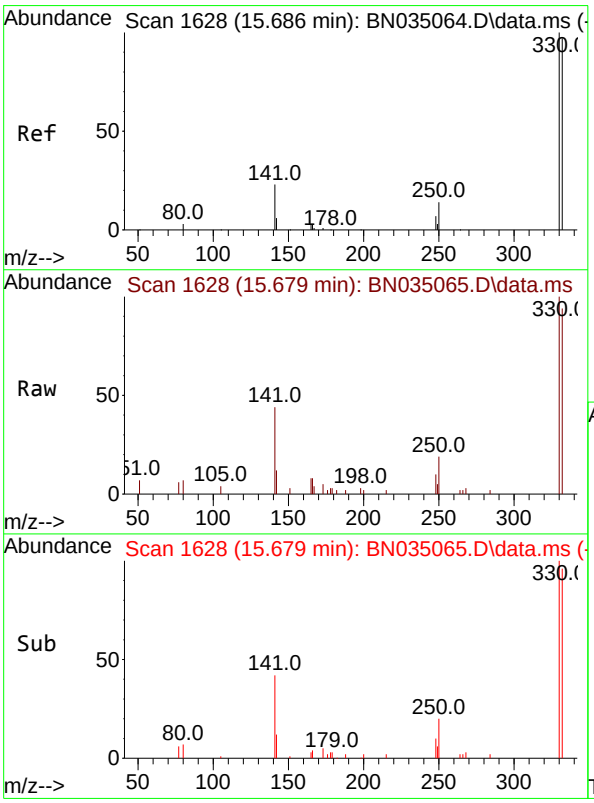
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 6454

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.2
160	48.3	40.2	60.4

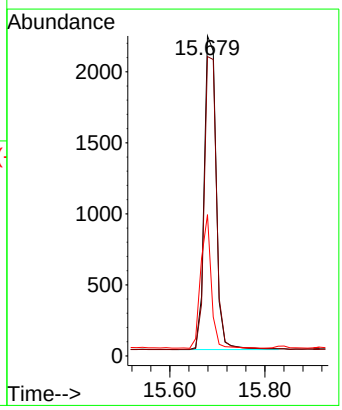


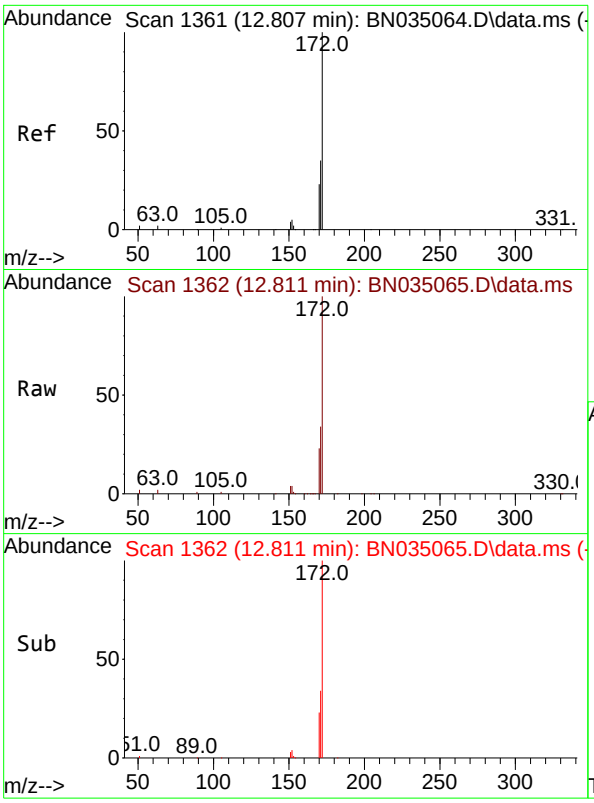


#14
2,4,6-Tribromophenol
Concen: 0.831 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:330 Resp: 3866

Ion	Ratio	Lower	Upper
330	100		
332	95.2	76.9	115.3
141	36.9	29.6	44.4



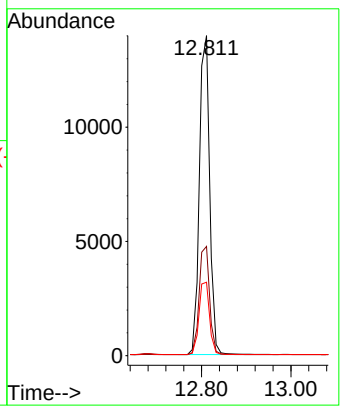


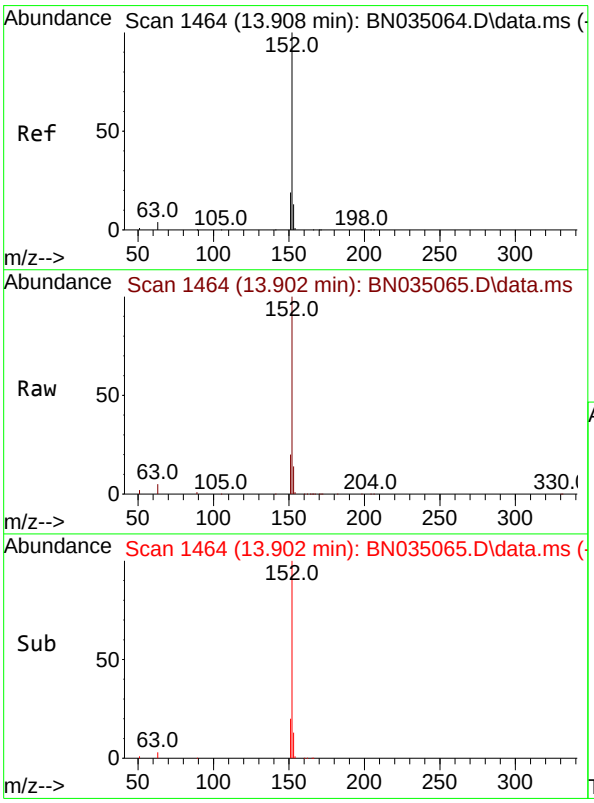
#15
2-Fluorobiphenyl
Concen: 0.855 ng
RT: 12.811 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 22399

Ion	Ratio	Lower	Upper
172	100		
171	34.1	28.2	42.4
170	22.9	19.0	28.6

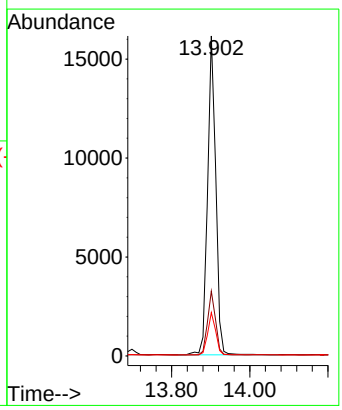


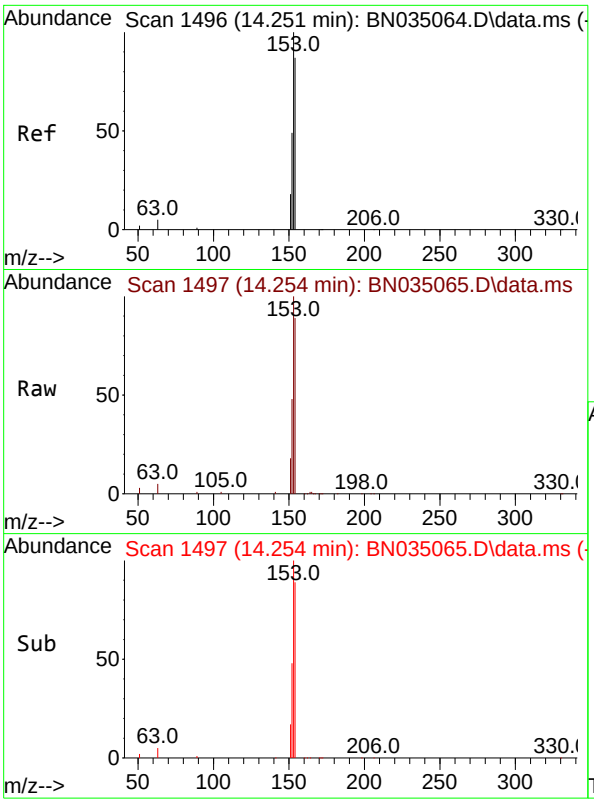


#16
Acenaphthylene
Concen: 0.853 ng
RT: 13.902 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:152 Resp: 23520

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.8	23.8
153	13.1	10.2	15.4



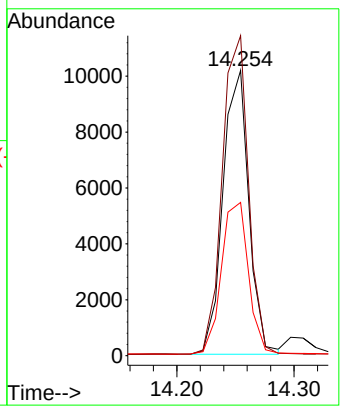


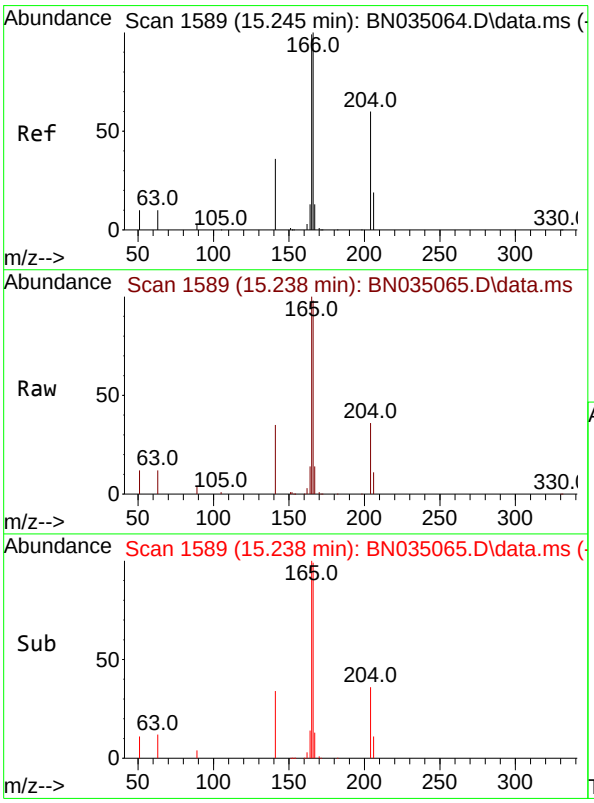
#17
Acenaphthene
Concen: 0.858 ng
RT: 14.254 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 15511

Ion	Ratio	Lower	Upper
154	100		
153	114.0	91.6	137.4
152	56.6	45.8	68.6

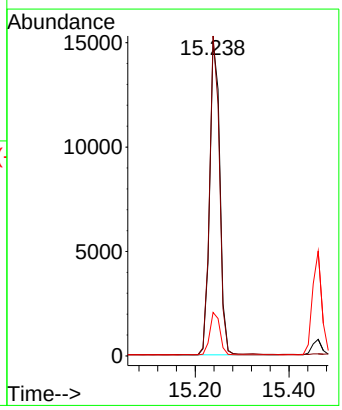


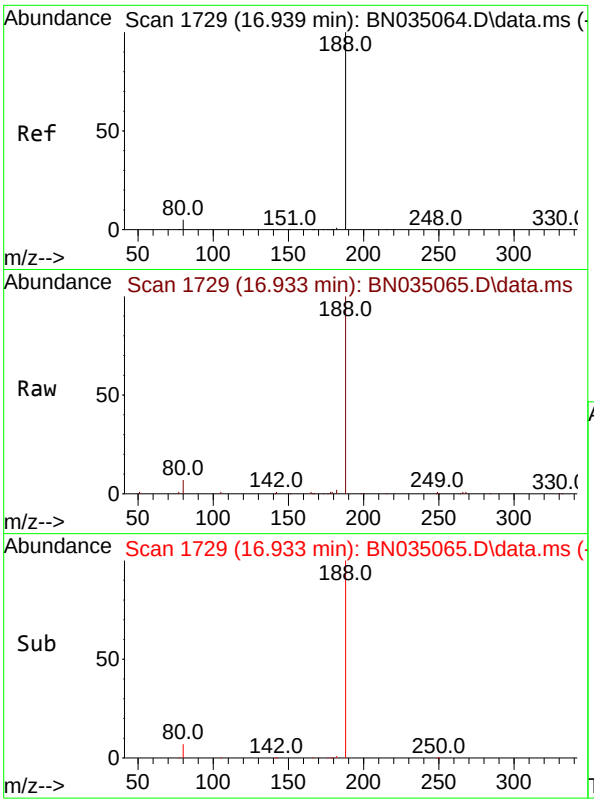


#18
Fluorene
Concen: 0.852 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:166 Resp: 22649

Ion	Ratio	Lower	Upper
166	100		
165	98.3	79.1	118.7
167	13.6	10.6	16.0



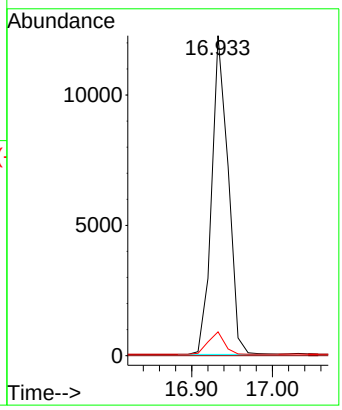


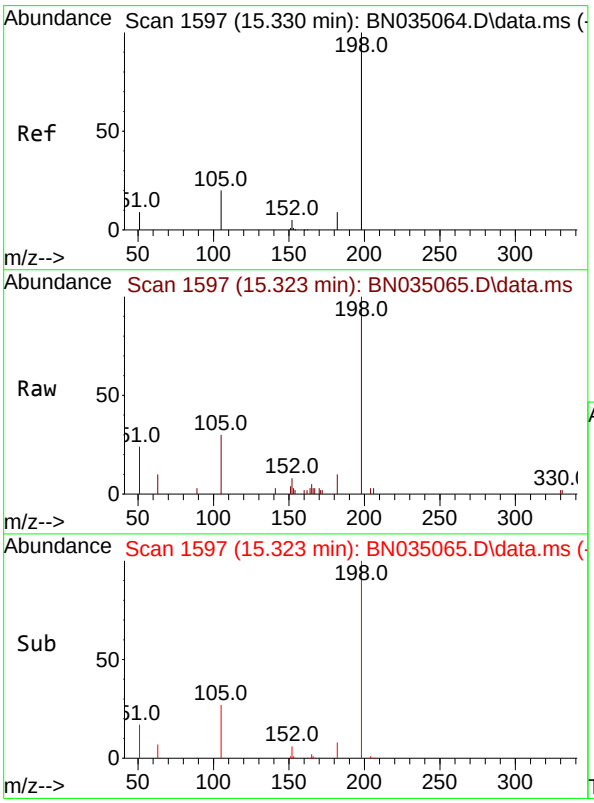
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.933 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 17302

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.5	4.3	6.5#

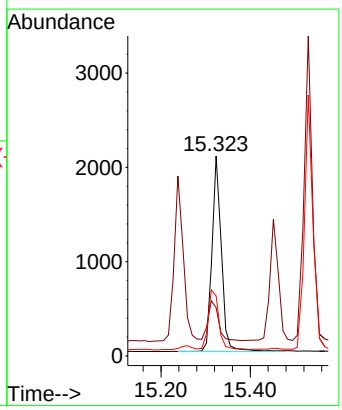


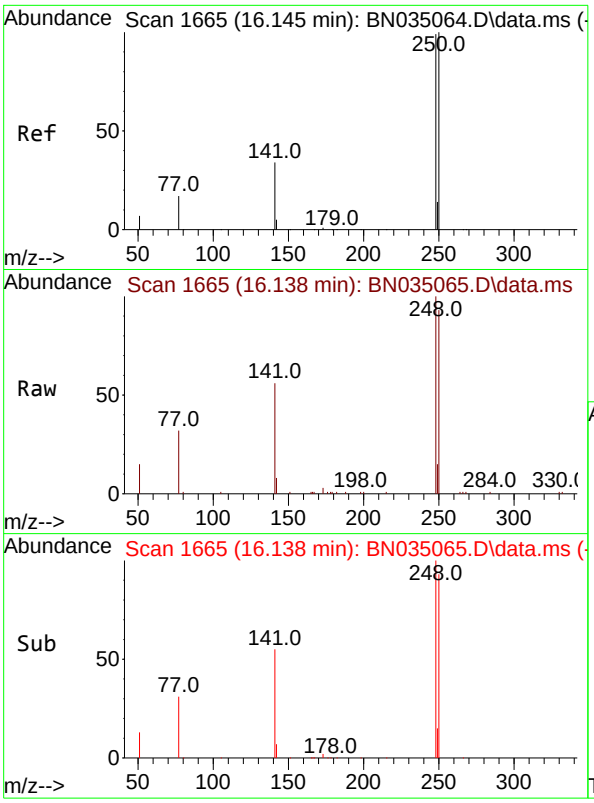


#20
4,6-Dinitro-2-methylphenol
Concen: 0.837 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:198 Resp: 3013

Ion	Ratio	Lower	Upper
198	100		
51	24.1	29.9	44.9#
105	30.0	23.7	35.5



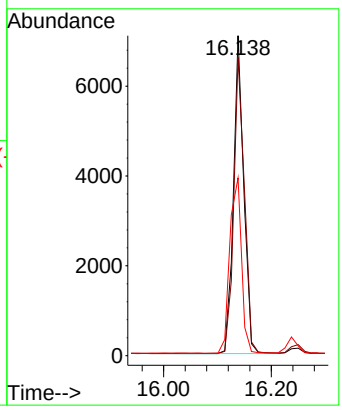


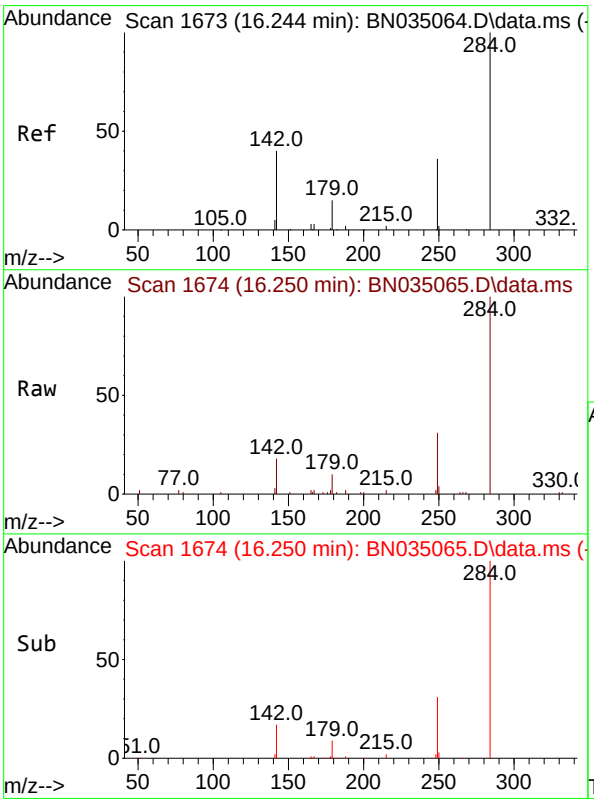
#21
4-Bromophenyl-phenylether
Concen: 0.853 ng
RT: 16.138 min Scan# 1(
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 9403

Ion	Ratio	Lower	Upper
248	100		
250	93.3	81.2	121.8
141	55.6	29.1	43.7#

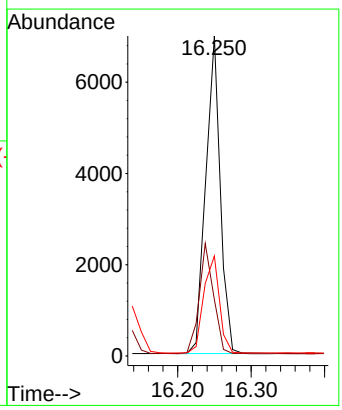


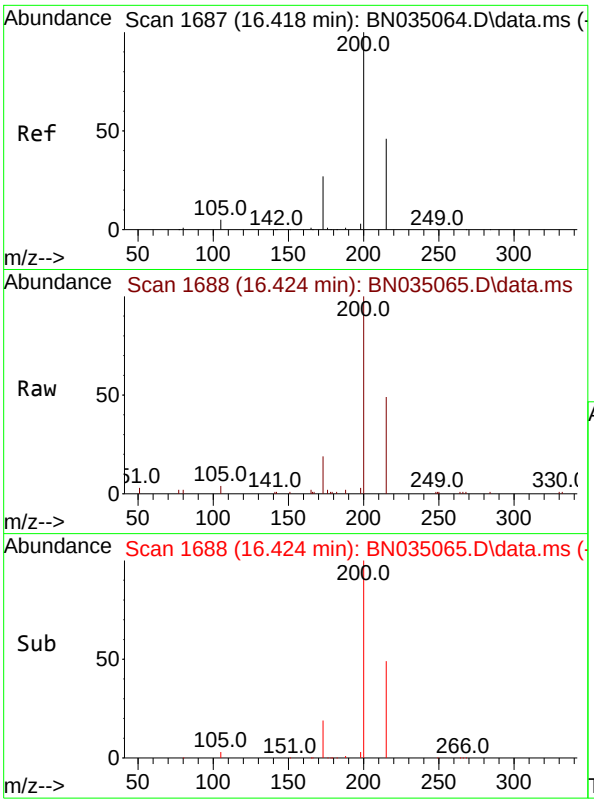


#22
Hexachlorobenzene
Concen: 0.837 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:284 Resp: 9574

Ion	Ratio	Lower	Upper
284	100		
142	34.4	28.2	42.4
249	32.9	26.2	39.2



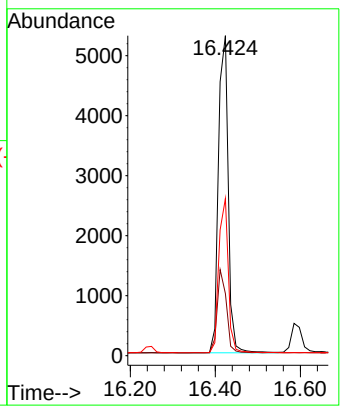


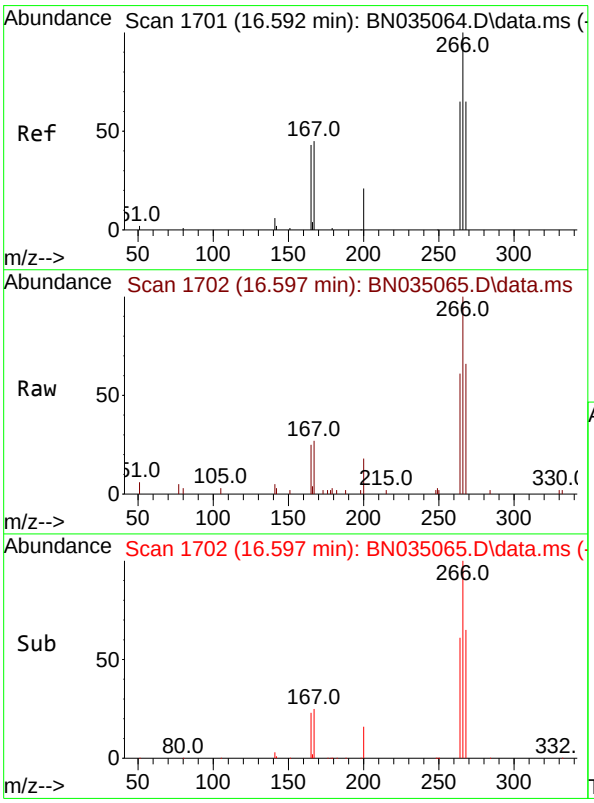
#23
Atrazine
Concen: 0.852 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 8427

Ion	Ratio	Lower	Upper
200	100		
173	19.4	22.6	33.8#
215	49.1	37.8	56.6

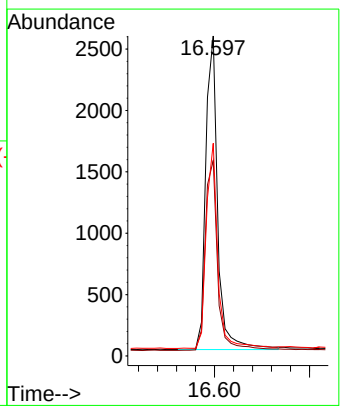


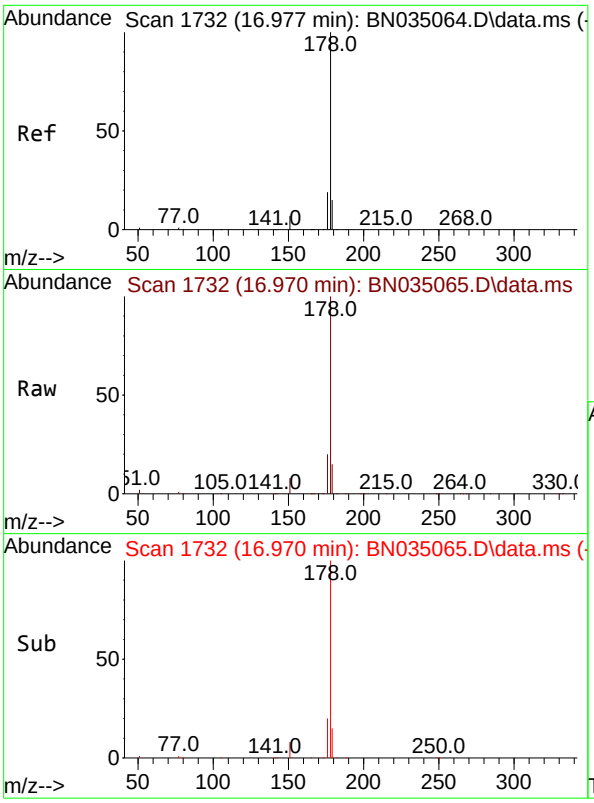


#24
Pentachlorophenol
Concen: 0.841 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:266 Resp: 4494

Ion	Ratio	Lower	Upper
266	100		
264	62.3	49.4	74.0
268	63.1	52.6	79.0



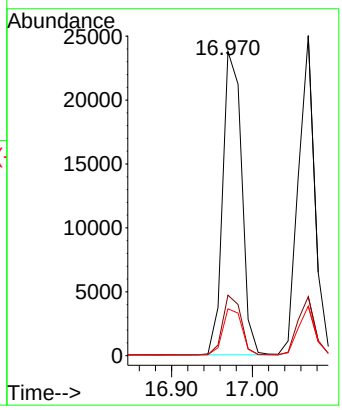


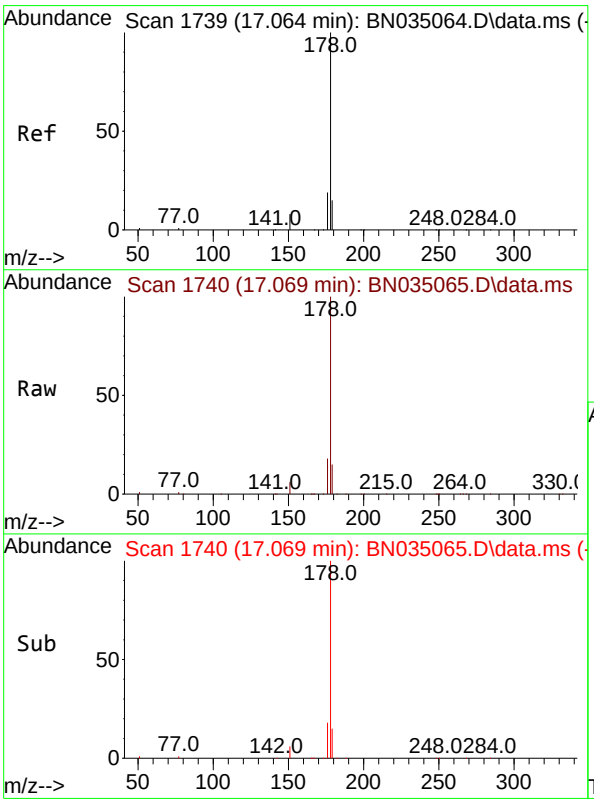
#25
Phenanthrene
Concen: 0.847 ng
RT: 16.970 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 38573

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.3	12.6	18.8

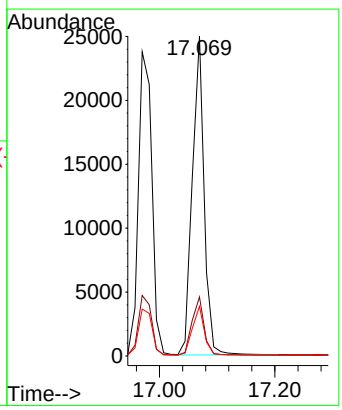


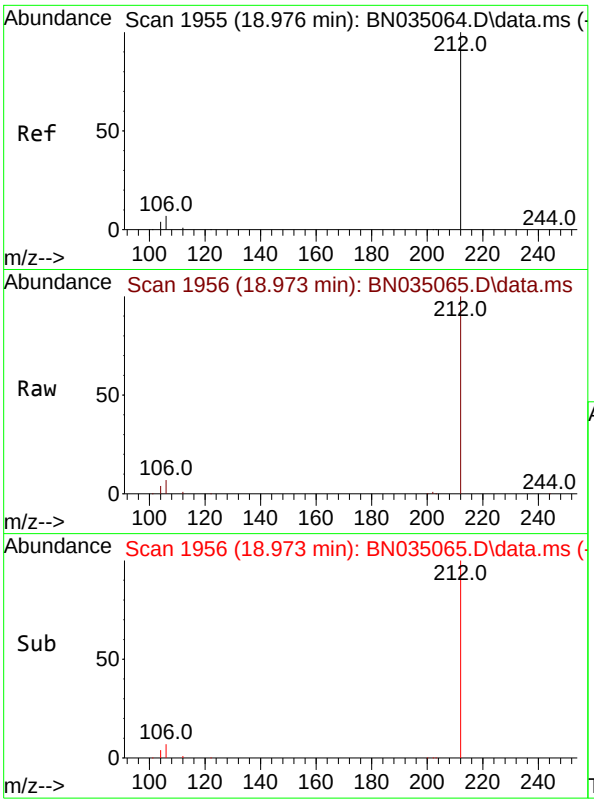


#26
Anthracene
Concen: 0.847 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.006 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:178 Resp: 35437

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.2	12.2	18.2



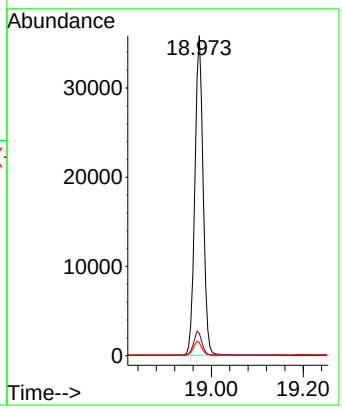


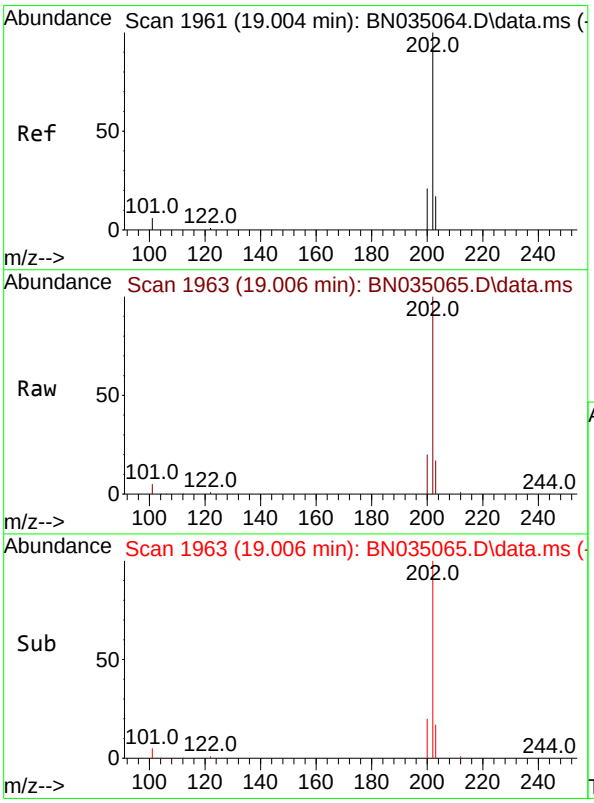
#27
Fluoranthene-d10
Concen: 0.841 ng
RT: 18.973 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 44583

Ion	Ratio	Lower	Upper
212	100		
106	7.5	6.0	9.0
104	4.4	3.5	5.3

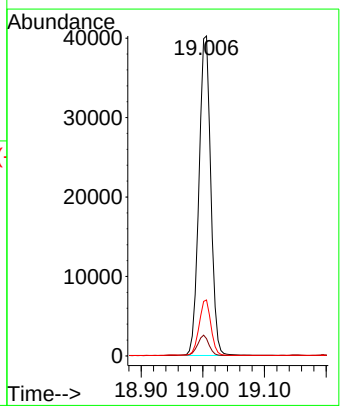


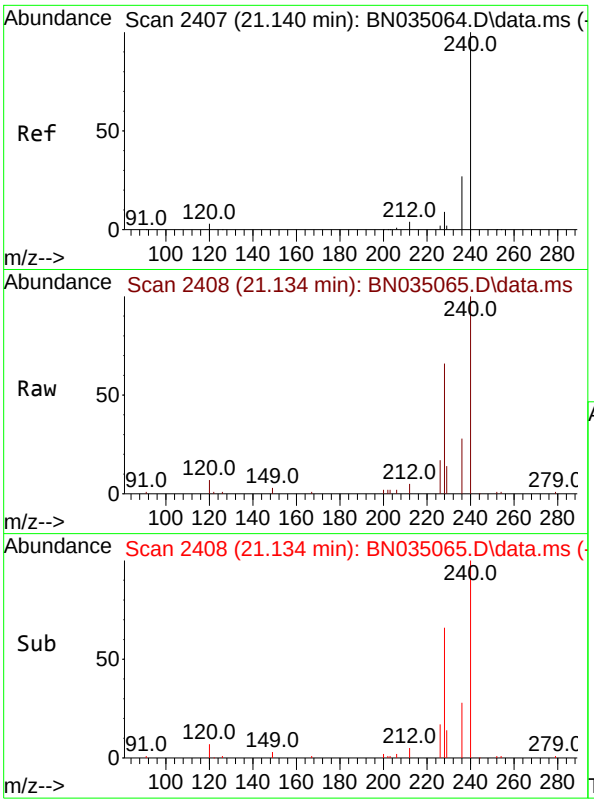


#28
Fluoranthene
Concen: 0.853 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:202 Resp: 53391

Ion	Ratio	Lower	Upper
202	100		
101	6.3	5.2	7.8
203	17.3	13.8	20.8



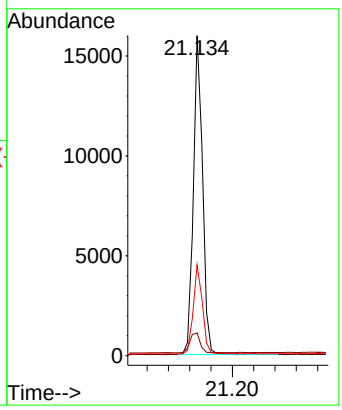


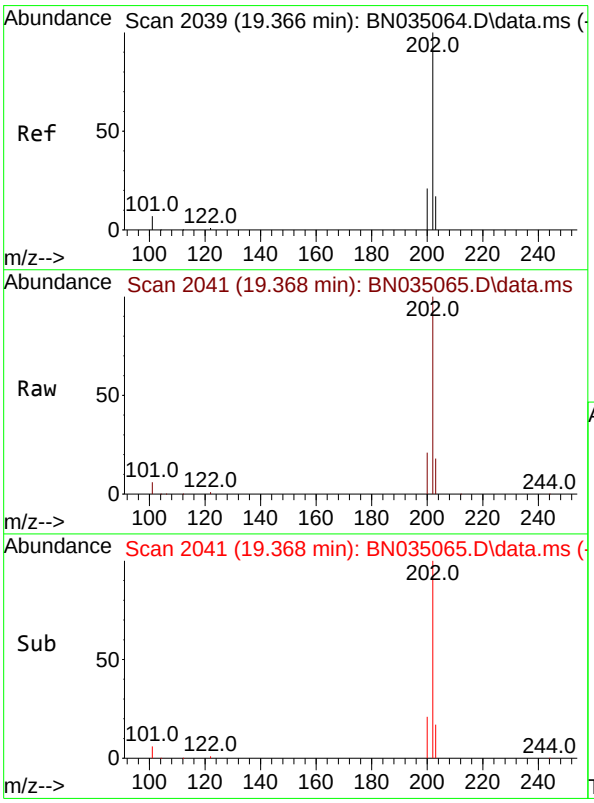
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.134 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 19278

Ion	Ratio	Lower	Upper
240	100		
120	7.1	3.8	5.6#
236	28.4	22.2	33.2

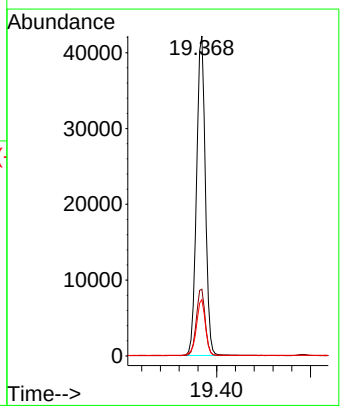


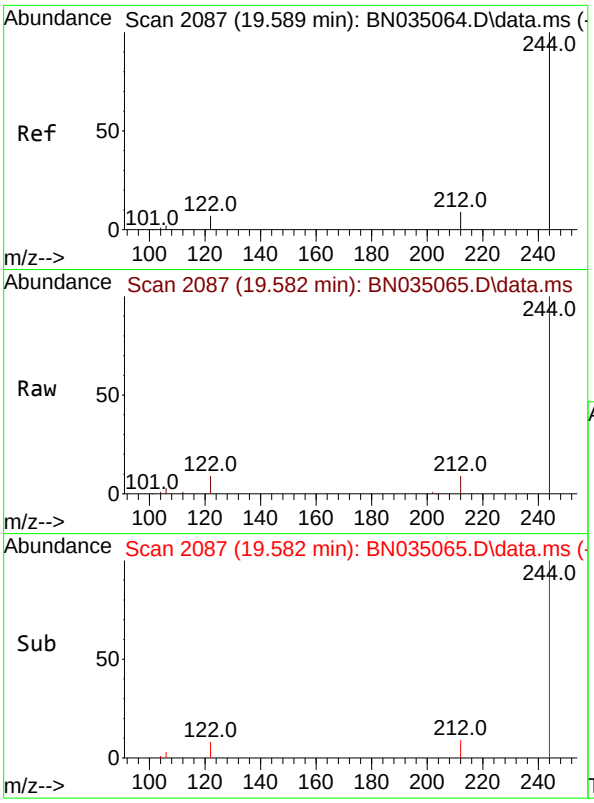


#30
Pyrene
Concen: 0.855 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:202 Resp: 54892

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4



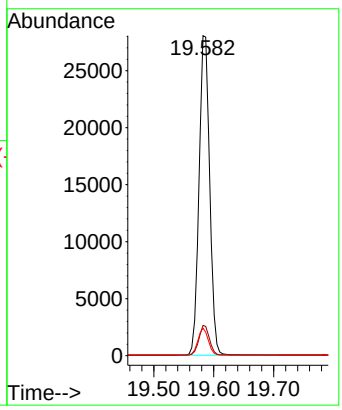


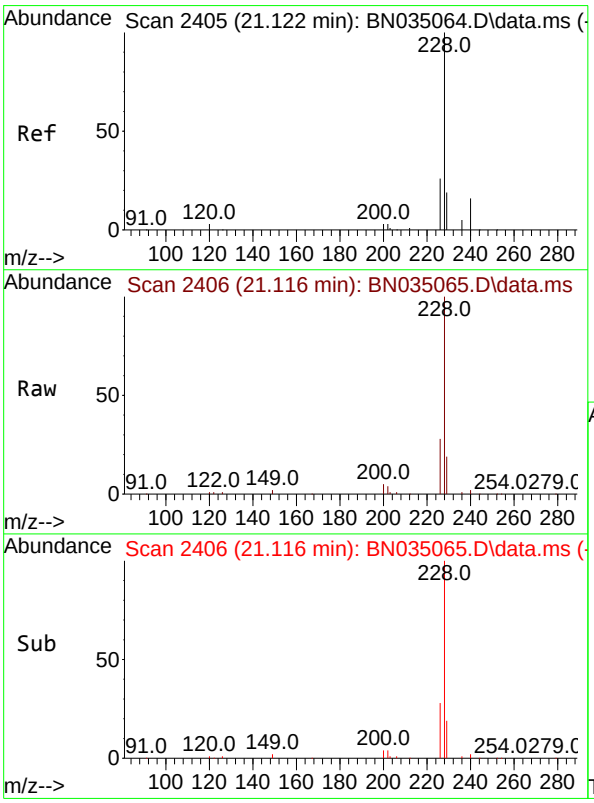
#31
Terphenyl-d14
Concen: 0.852 ng
RT: 19.582 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 34460

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	8.6	6.1	9.1

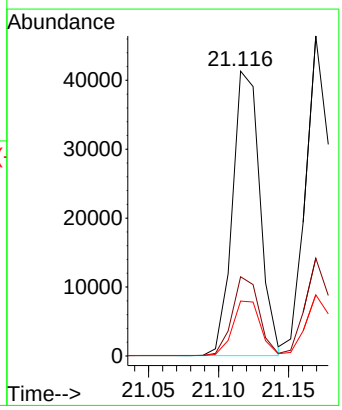


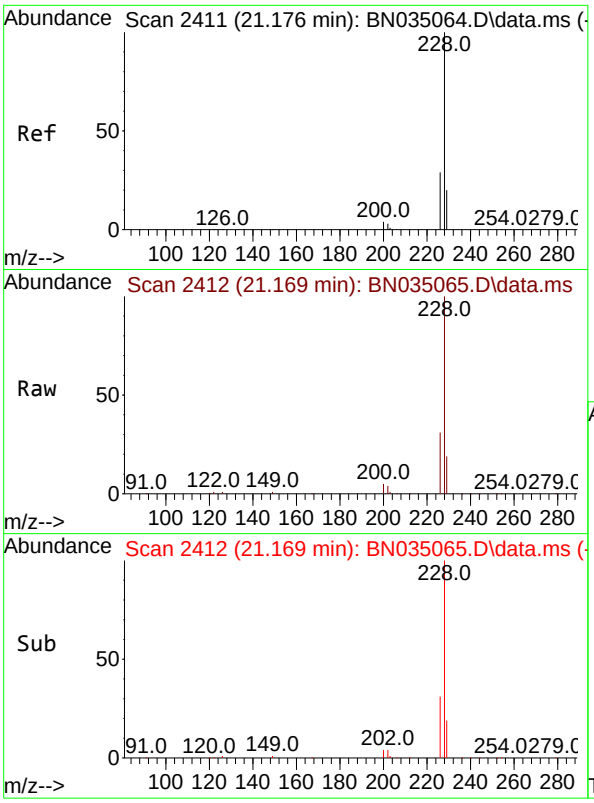


#32
Benzo(a)anthracene
Concen: 0.841 ng
RT: 21.116 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:228 Resp: 56460

Ion	Ratio	Lower	Upper
228	100		
226	27.8	21.4	32.0
229	19.3	15.7	23.5



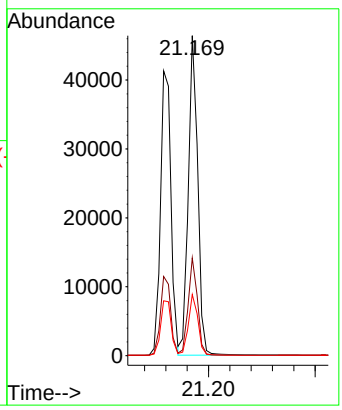


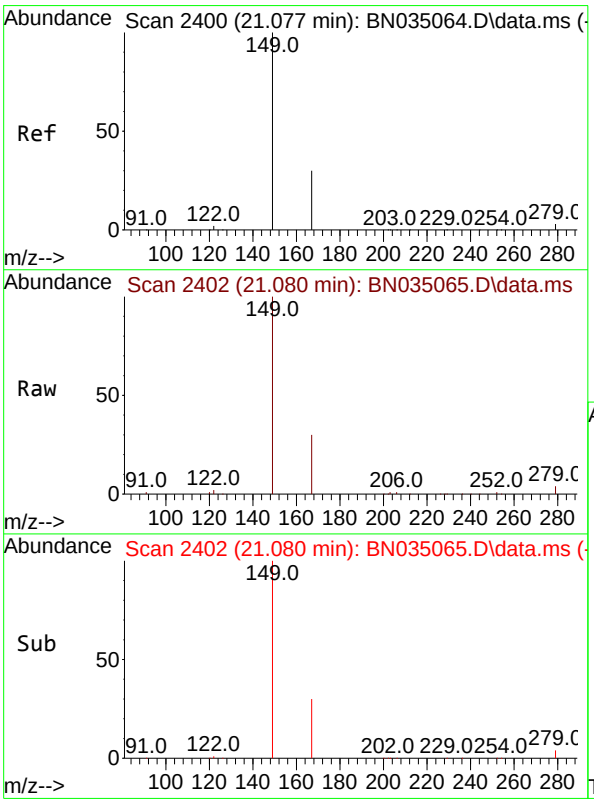
#33
Chrysene
Concen: 0.858 ng
RT: 21.169 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 57039

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.7	35.5
229	19.1	16.2	24.4

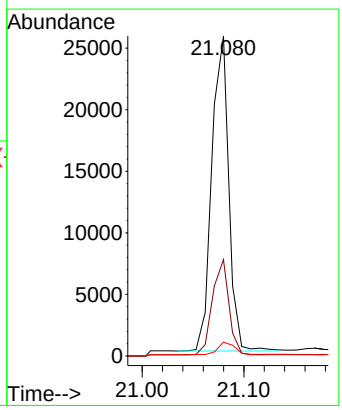


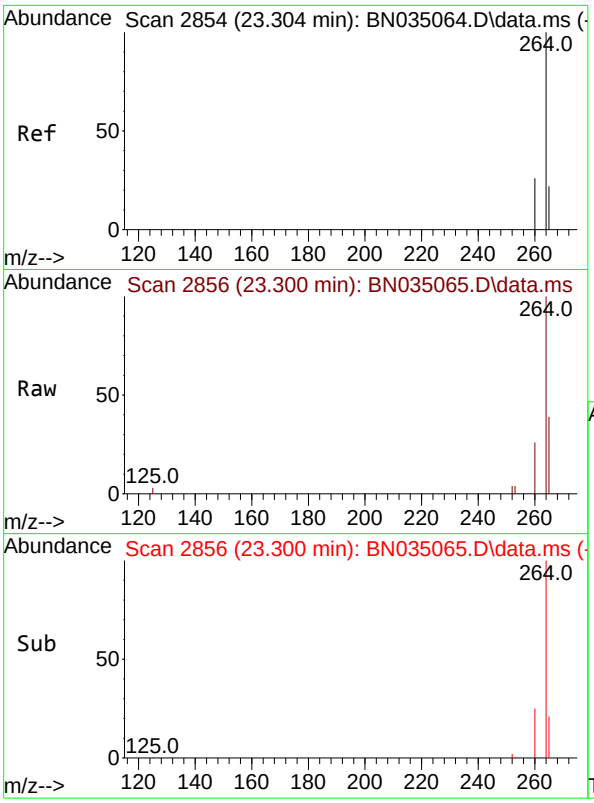


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.848 ng
RT: 21.080 min Scan# 2402
Delta R.T. 0.002 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:149 Resp: 29628

Ion	Ratio	Lower	Upper
149	100		
167	29.1	23.2	34.8
279	4.0	3.2	4.8



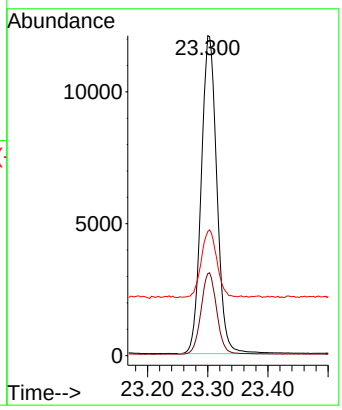


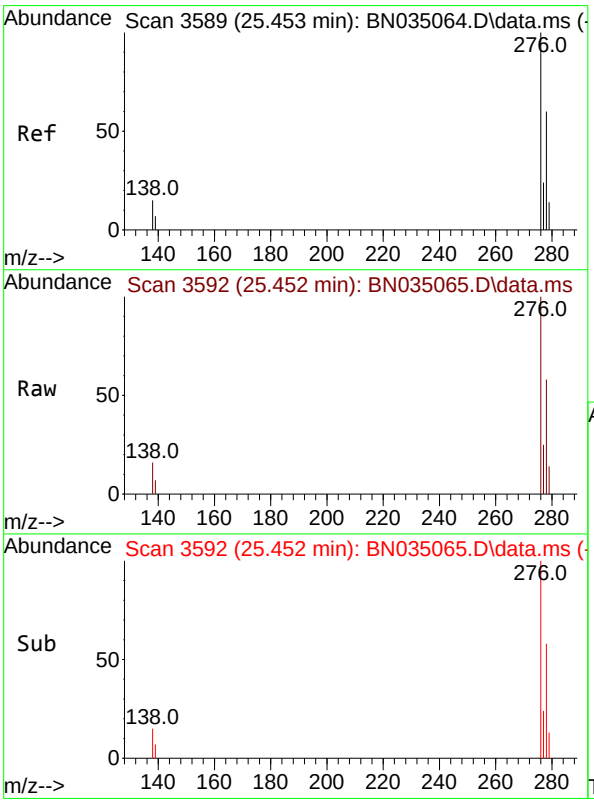
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 21751

Ion	Ratio	Lower	Upper
264	100		
260	25.6	20.9	31.3
265	38.8	35.4	53.2

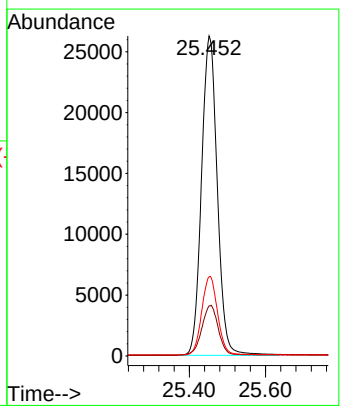


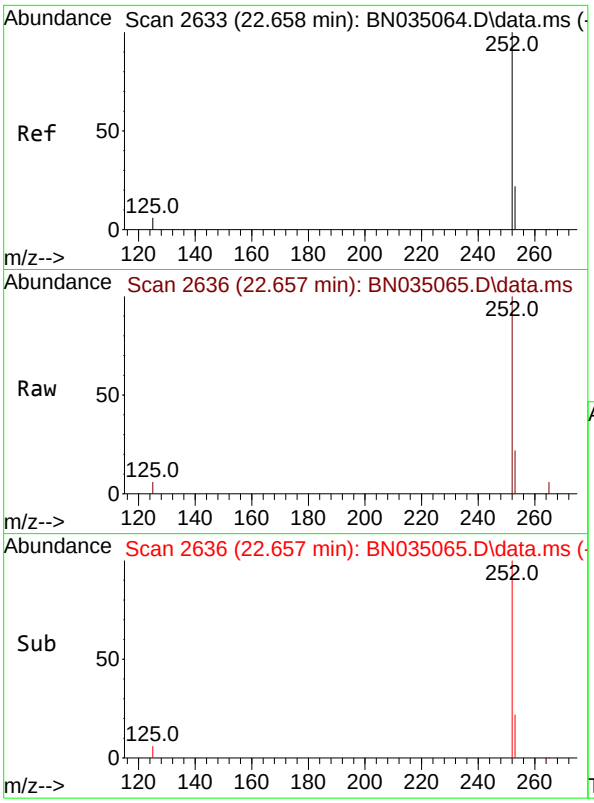


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.867 ng
RT: 25.452 min Scan# 3592
Delta R.T. -0.001 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:276 Resp: 75270

Ion	Ratio	Lower	Upper
276	100		
138	16.2	13.0	19.4
277	24.7	19.8	29.6



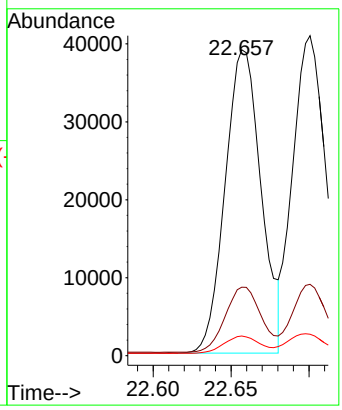


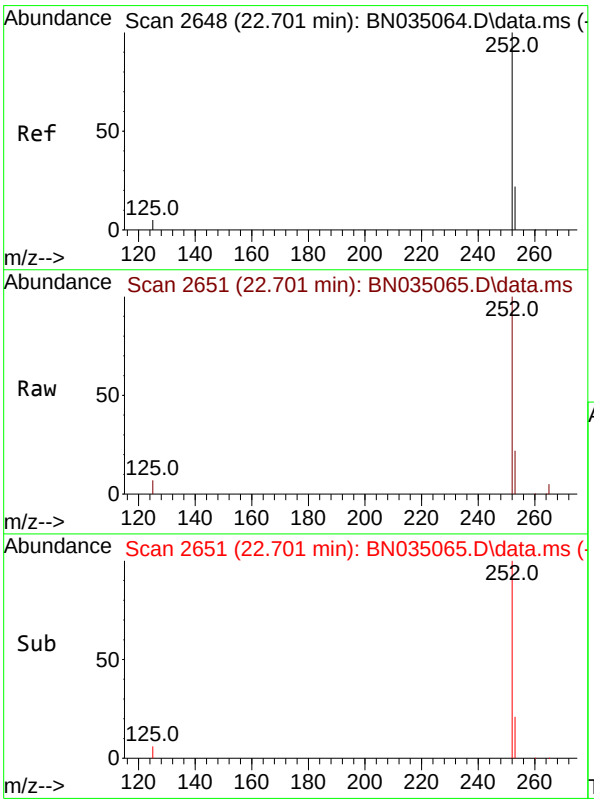
#37
Benzo(b)fluoranthene
Concen: 0.855 ng
RT: 22.657 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 62606

Ion	Ratio	Lower	Upper
252	100		
253	22.4	19.3	28.9
125	6.5	6.2	9.2

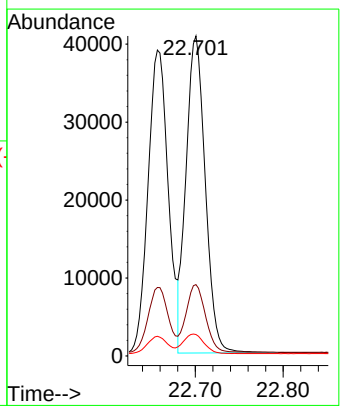


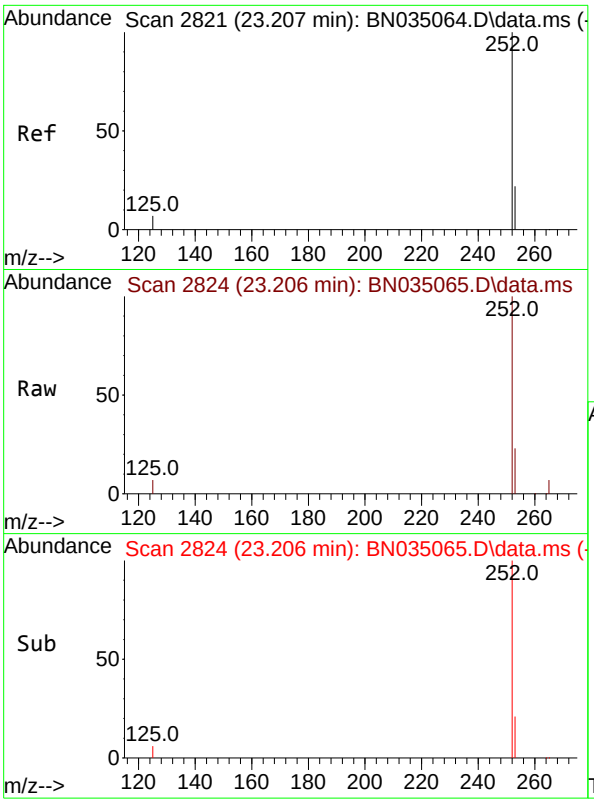


#38
Benzo(k)fluoranthene
Concen: 0.843 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:252 Resp: 61702

Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.5	29.3
125	6.7	6.5	9.7



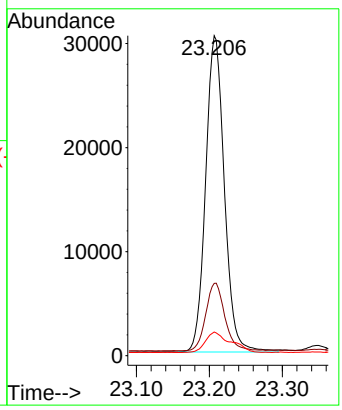


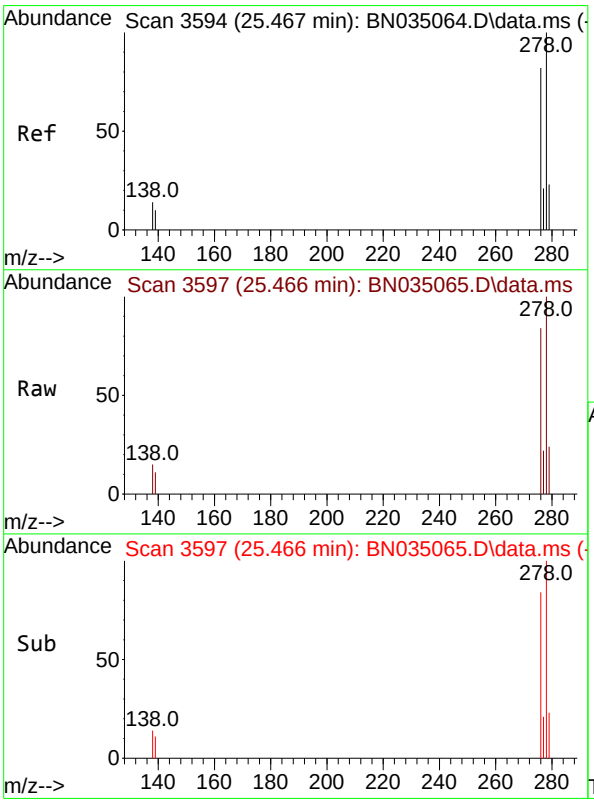
#39
Benzo(a)pyrene
Concen: 0.842 ng
RT: 23.206 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 54251

Ion	Ratio	Lower	Upper
252	100		
253	22.6	20.1	30.1
125	7.4	7.5	11.3#

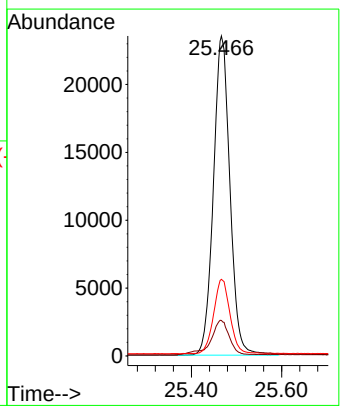


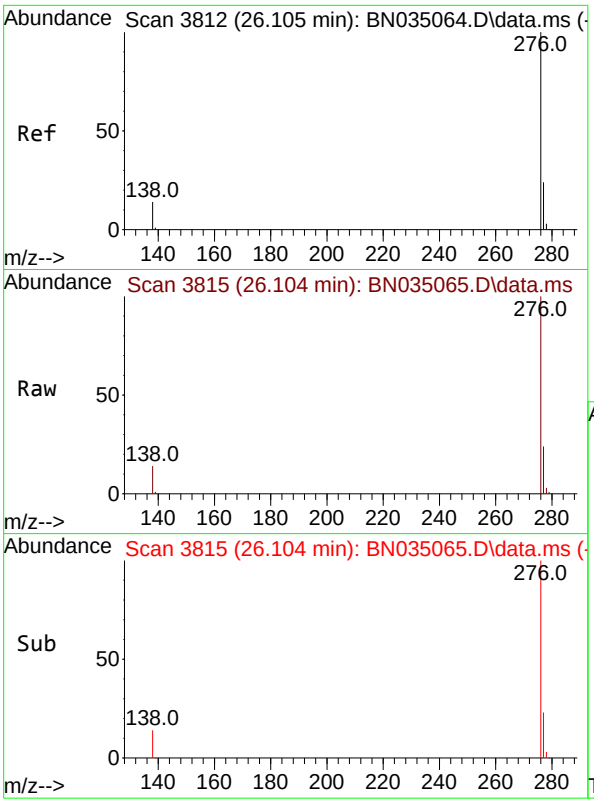


#40
Dibenzo(a,h)anthracene
Concen: 0.870 ng
RT: 25.466 min Scan# 3597
Delta R.T. -0.001 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:278 Resp: 59829

Ion	Ratio	Lower	Upper
278	100		
139	11.1	9.3	13.9
279	24.0	19.7	29.5



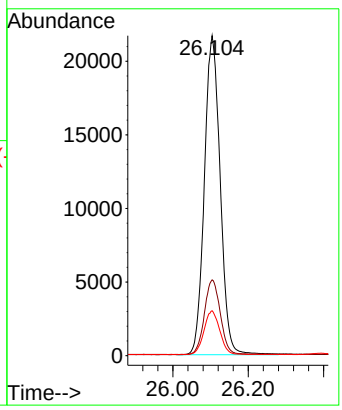


#41
Benzo(g,h,i)perylene
Concen: 0.864 ng
RT: 26.104 min Scan# 3
Delta R.T. -0.001 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 63167

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.9	29.9
138	14.0	11.6	17.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035066.D
Acq On : 13 Nov 2024 15:04
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 16:44:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	2280	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	5826	0.400	ng		0.00
13) Acenaphthene-d10	14.190	164	4517	0.400	ng		0.00
19) Phenanthrene-d10	16.932	188	12068	0.400	ng	#	0.00
29) Chrysene-d12	21.133	240	13823	0.400	ng	#	0.00
35) Perylene-d12	23.303	264	15060	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	9427	1.629	ng		0.00
5) Phenol-d6	6.737	99	12023	1.657	ng		0.00
8) Nitrobenzene-d5	8.696	82	8306	1.643	ng		0.00
11) 2-Methylnaphthalene-d10	11.912	152	17545	1.690	ng		0.00
14) 2,4,6-Tribromophenol	15.691	330	5402	1.659	ng		0.00
15) 2-Fluorobiphenyl	12.811	172	30472	1.661	ng		0.00
27) Fluoranthene-d10	18.973	212	61972	1.676	ng		0.00
31) Terphenyl-d14	19.587	244	47914	1.652	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.169	88	3351	1.618	ng		98
3) n-Nitrosodimethylamine	3.465	42	3168	1.647	ng	#	97
6) bis(2-Chloroethyl)ether	6.990	93	9071	1.665	ng		99
9) Naphthalene	10.362	128	25283	1.662	ng		98
10) Hexachlorobutadiene	10.660	225	7338	1.646	ng	#	99
12) 2-Methylnaphthalene	11.988	142	18997	1.693	ng		99
16) Acenaphthylene	13.901	152	32064	1.661	ng		99
17) Acenaphthene	14.254	154	20910	1.653	ng		99
18) Fluorene	15.238	166	30868	1.659	ng		99
20) 4,6-Dinitro-2-methylph...	15.323	198	4259	1.695	ng	#	84
21) 4-Bromophenyl-phenylether	16.138	248	12888	1.676	ng	#	86
22) Hexachlorobenzene	16.250	284	13172	1.651	ng		99
23) Atrazine	16.424	200	11471	1.663	ng	#	93
24) Pentachlorophenol	16.597	266	6275	1.683	ng		98
25) Phenanthrene	16.982	178	52915	1.666	ng		99
26) Anthracene	17.069	178	49046	1.681	ng		100
28) Fluoranthene	19.006	202	73694	1.687	ng		100
30) Pyrene	19.368	202	75558	1.641	ng		100
32) Benzo(a)anthracene	21.125	228	78298	1.627	ng		100
33) Chrysene	21.169	228	78533	1.647	ng		98
34) Bis(2-ethylhexyl)phtha...	21.080	149	38807	1.549	ng		99
36) Indeno(1,2,3-cd)pyrene	25.452	276	99936	1.663	ng		100
37) Benzo(b)fluoranthene	22.660	252	85426m	1.686	ng		
38) Benzo(k)fluoranthene	22.701	252	84960	1.676	ng	#	95
39) Benzo(a)pyrene	23.209	252	74668	1.675	ng	#	94
40) Dibenzo(a,h)anthracene	25.469	278	79628	1.673	ng		98
41) Benzo(g,h,i)perylene	26.107	276	83498	1.649	ng		98

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

Quantitation Report (QT Reviewed)

ICAL Form

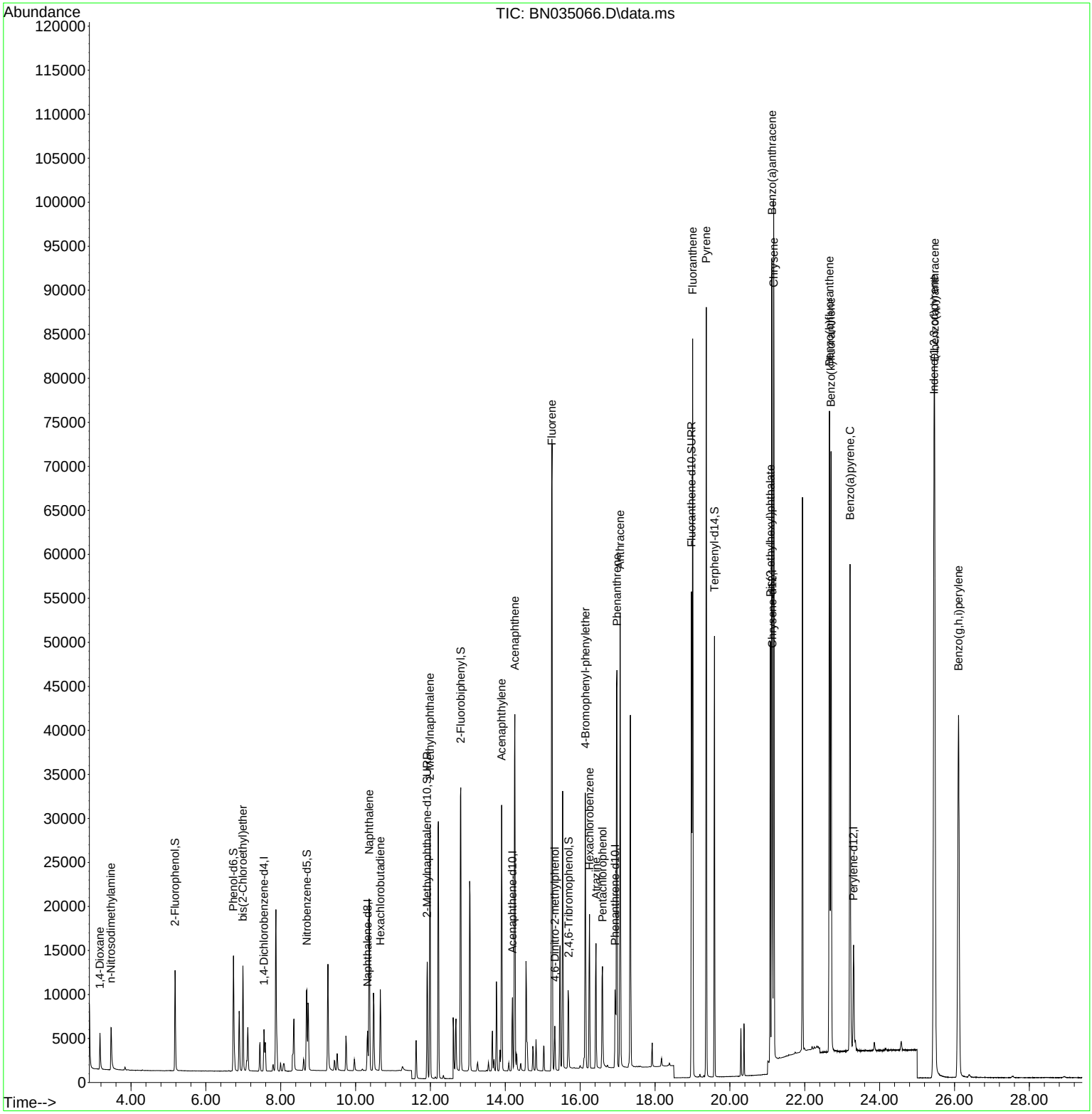
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035066.D
Acq On : 13 Nov 2024 15:04
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

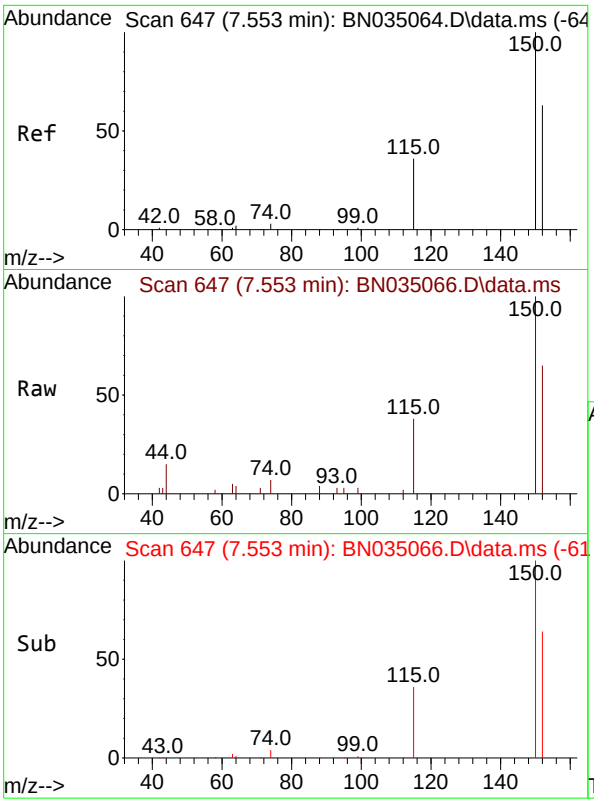
Quant Time: Nov 13 16:44:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

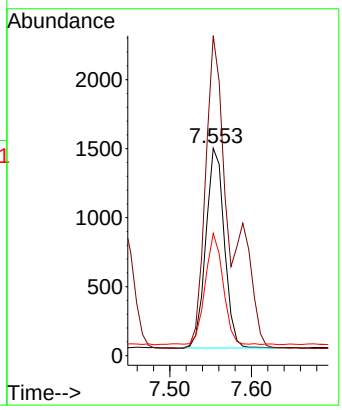




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:152 Resp: 228

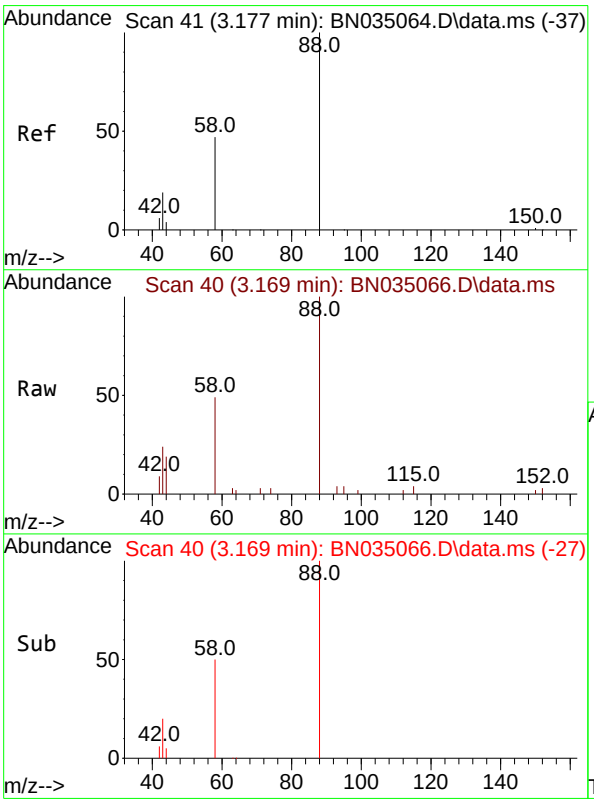
Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.5	186.7
115	58.9	47.8	71.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Manual Integrations
APPROVED

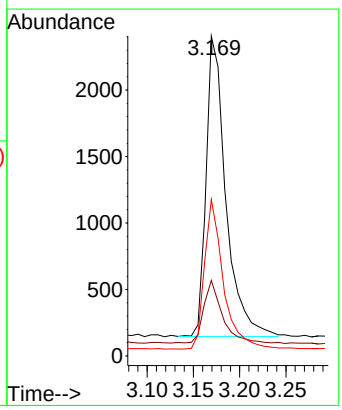
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

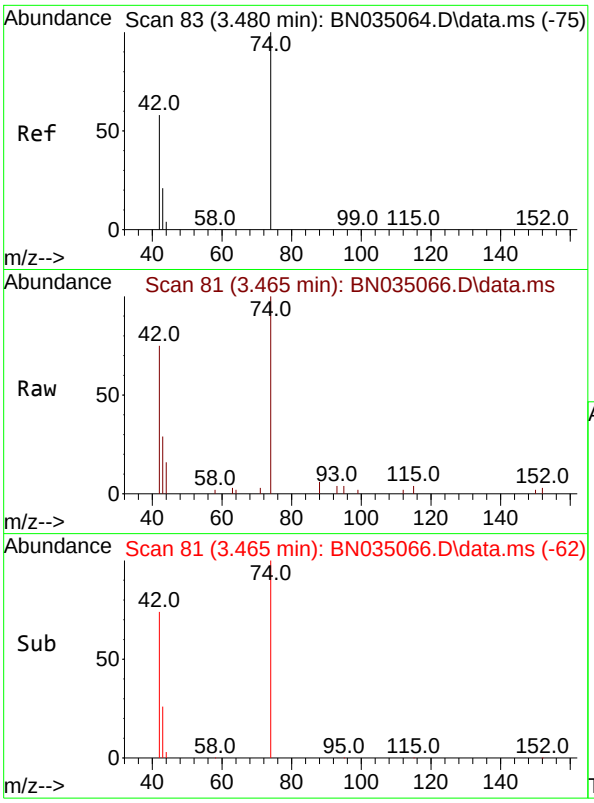


#2
1,4-Dioxane
Concen: 1.618 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 88 Resp: 3351

Ion	Ratio	Lower	Upper
88	100		
43	20.3	16.9	25.3
58	47.7	39.0	58.4

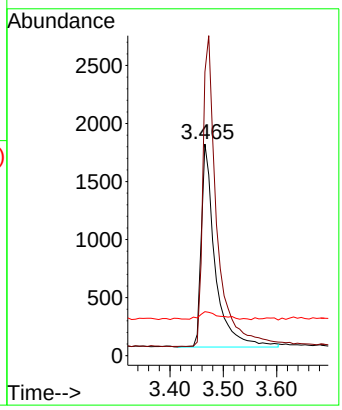




#3
n-Nitrosodimethylamine
Concen: 1.647 ng
RT: 3.465 min Scan# 8
Delta R.T. -0.015 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 42 Resp: 316

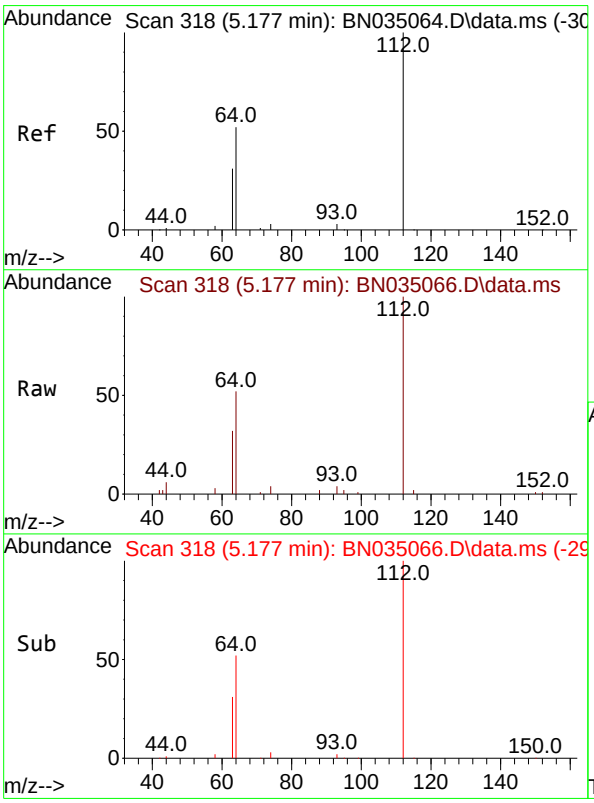
Ion	Ratio	Lower	Upper
42	100		
74	155.0	120.8	181.2
44	6.3	2.9	4.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Manual Integrations
APPROVED

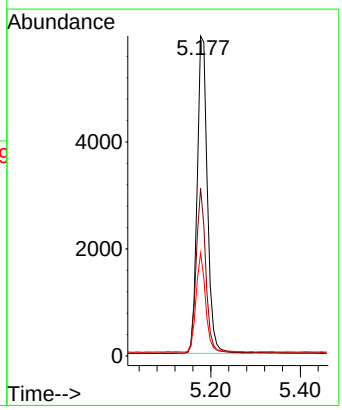
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

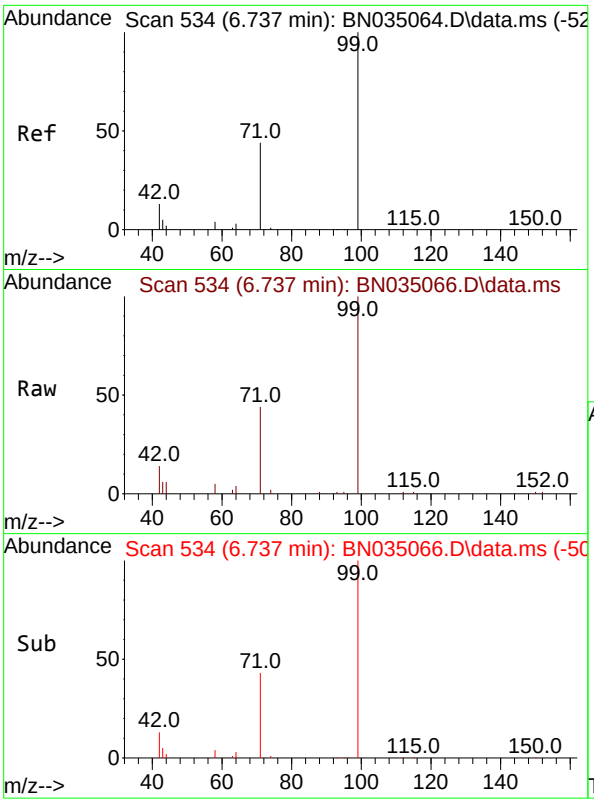


#4
2-Fluorophenol
Concen: 1.629 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:112 Resp: 9427

Ion	Ratio	Lower	Upper
112	100		
64	48.8	39.7	59.5
63	29.4	23.0	34.4

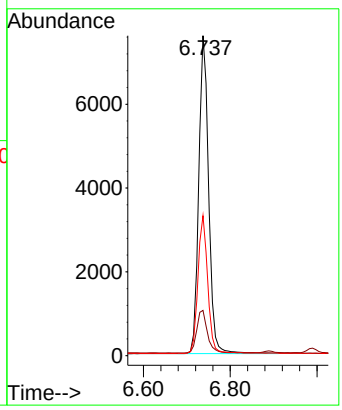




#5
Phenol-d6
Concen: 1.657 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 99 Resp: 1202

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.0
71	42.9	34.6	51.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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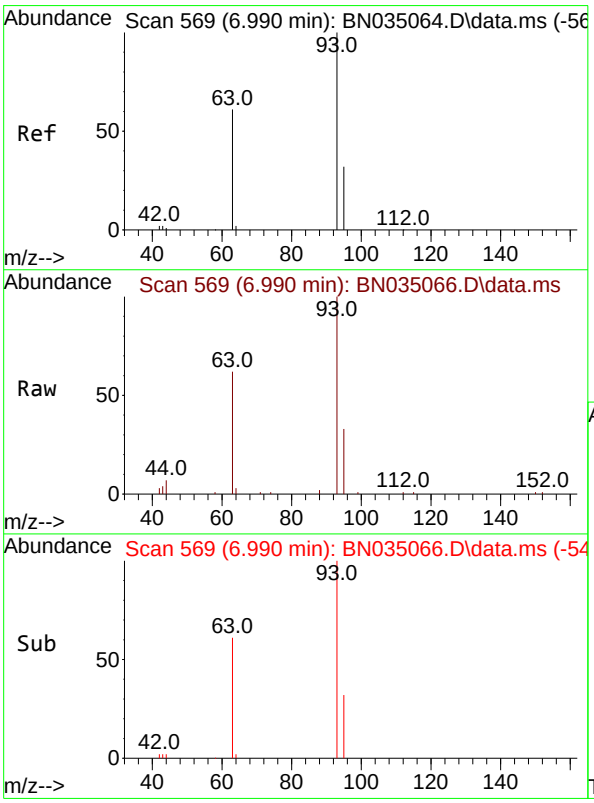
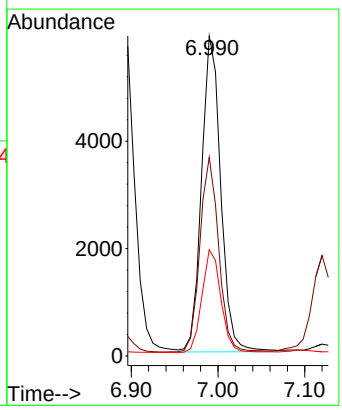
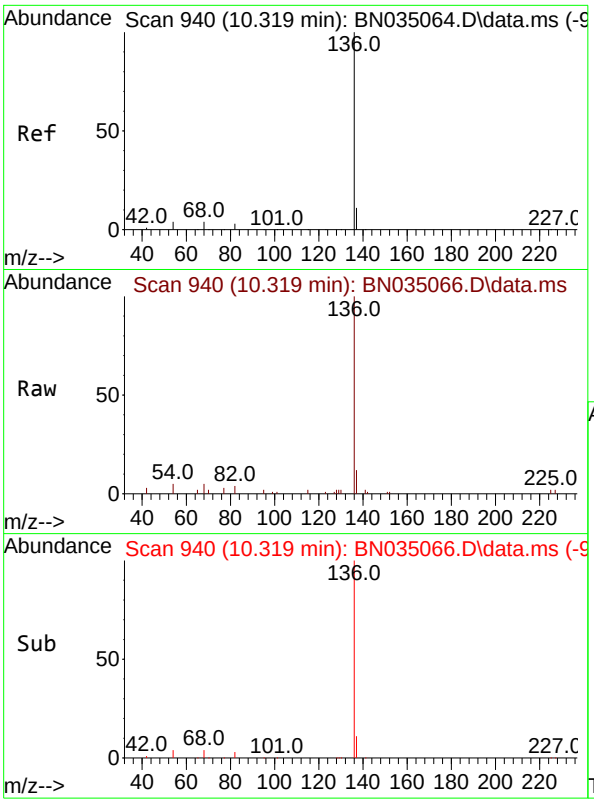


#6
bis(2-Chloroethyl)ether
Concen: 1.665 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 93 Resp: 9071

Ion	Ratio	Lower	Upper
93	100		
63	60.3	47.4	71.2
95	32.3	26.2	39.4

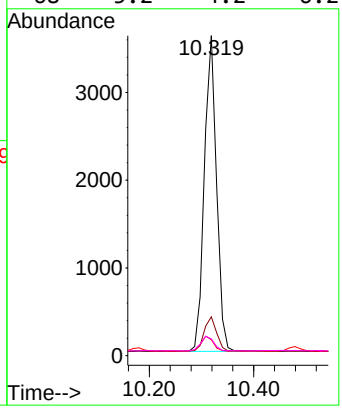




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:136 Resp: 582

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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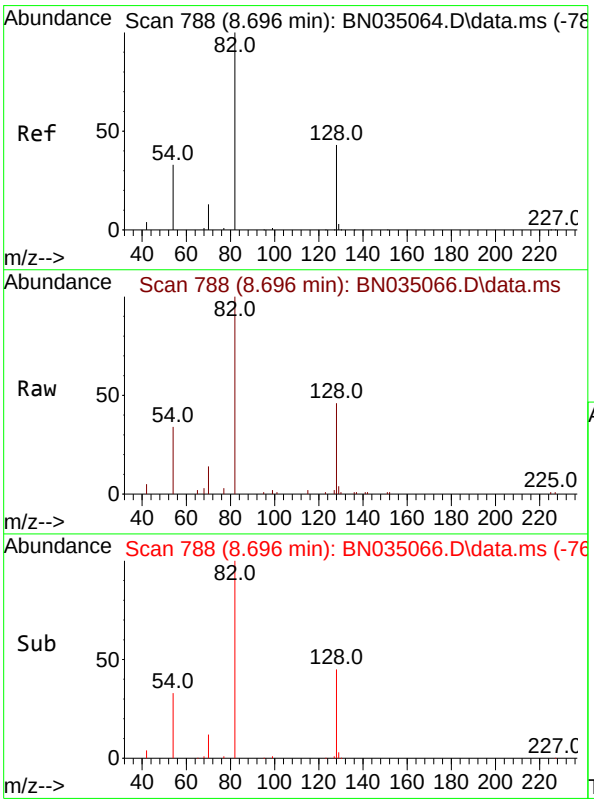
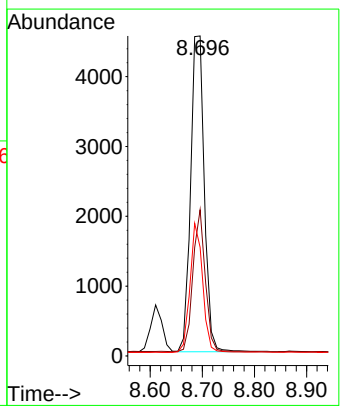
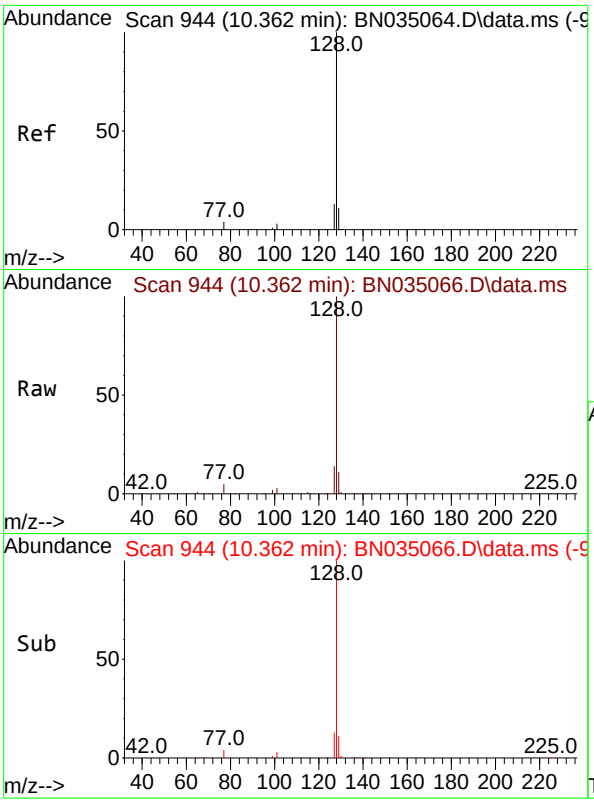


#8
Nitrobenzene-d5
Concen: 1.643 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 82 Resp: 8306

Ion	Ratio	Lower	Upper
82	100		
128	45.7	36.5	54.7
54	34.0	28.7	43.1





#9
Naphthalene
Concen: 1.662 ng
RT: 10.362 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:128 Resp: 2528

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.6	14.4
127	13.7	11.6	17.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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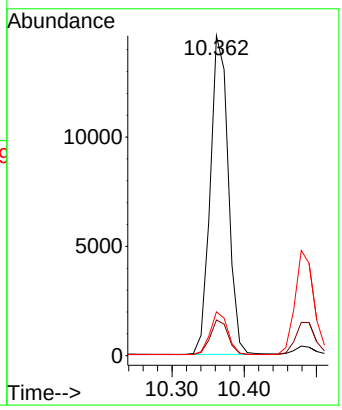
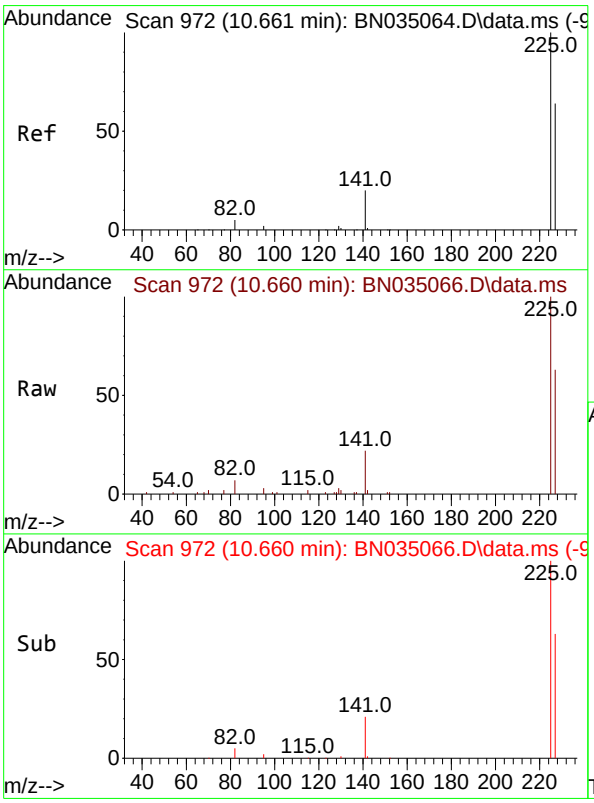
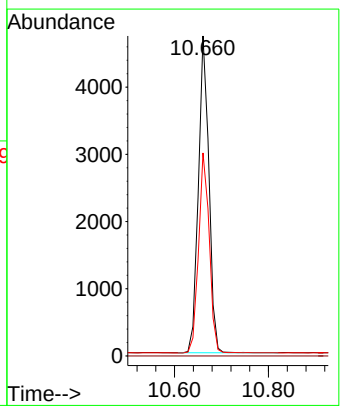


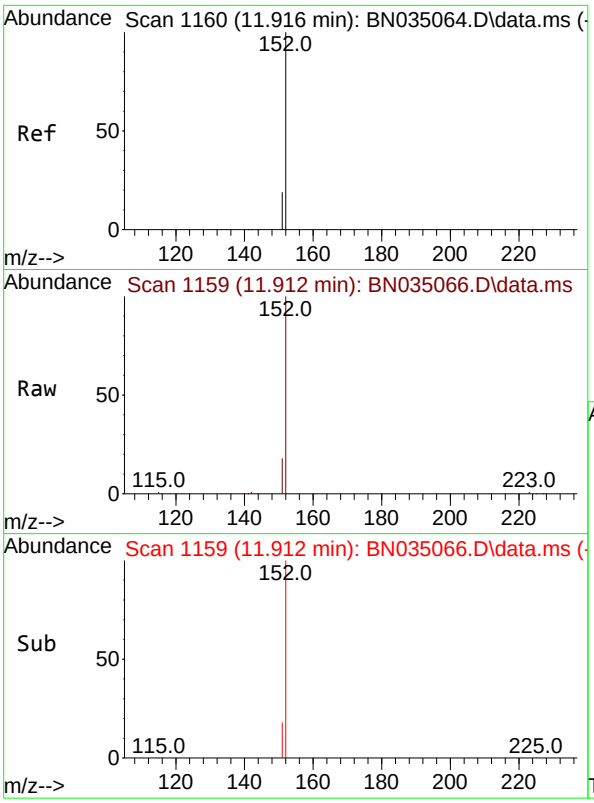


#10
Hexachlorobutadiene
Concen: 1.646 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:225 Resp: 7338

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.5	77.3





#11
2-Methylnaphthalene-d10
Concen: 1.690 ng
RT: 11.912 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:152 Resp: 1754

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.2	24.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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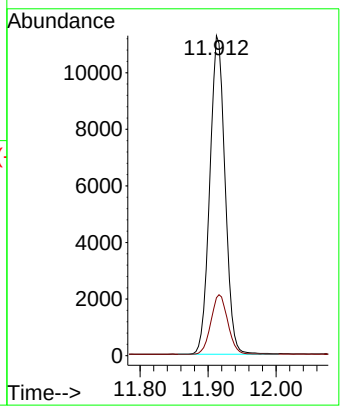
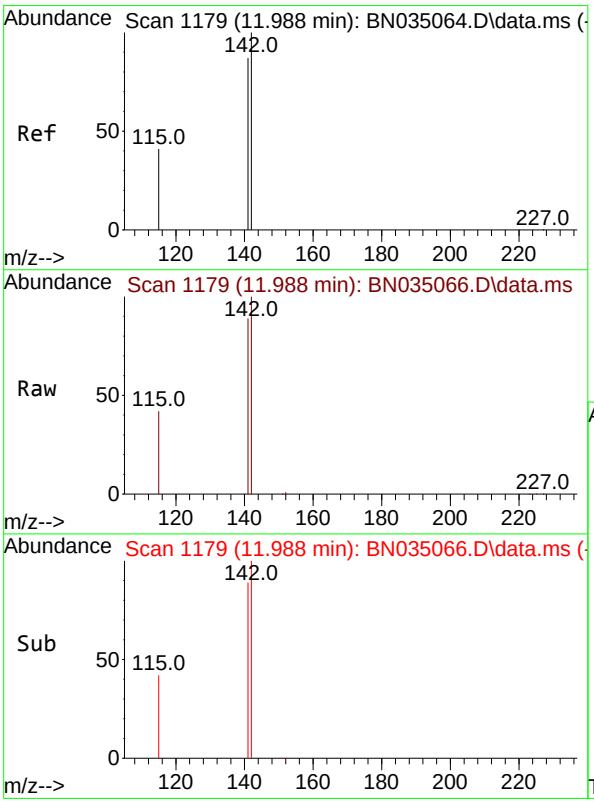
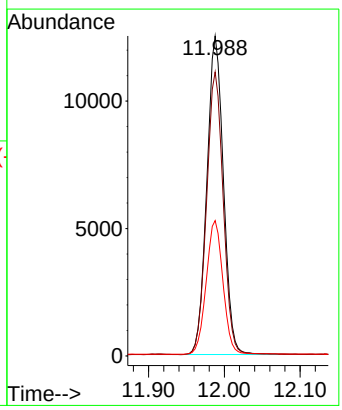


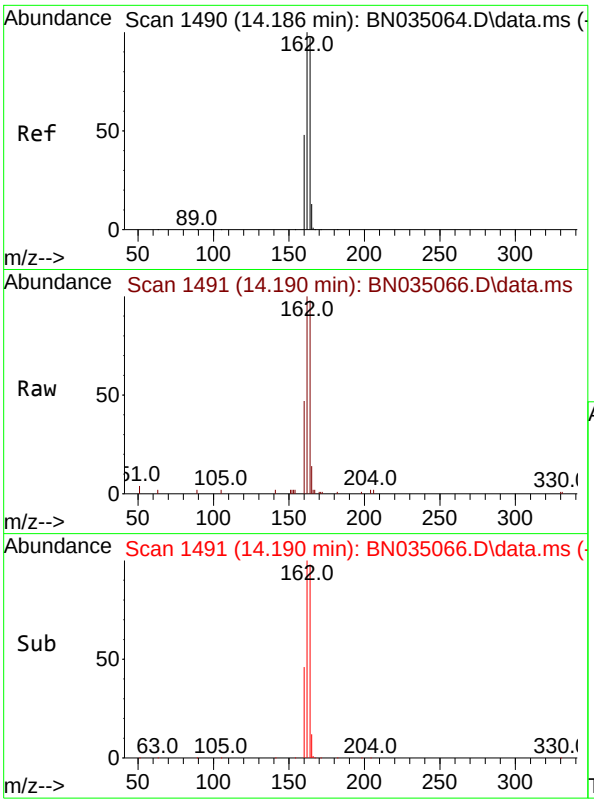


#12
2-Methylnaphthalene
Concen: 1.693 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:142 Resp: 18997

Ion	Ratio	Lower	Upper
142	100		
141	88.8	70.1	105.1
115	42.3	34.4	51.6

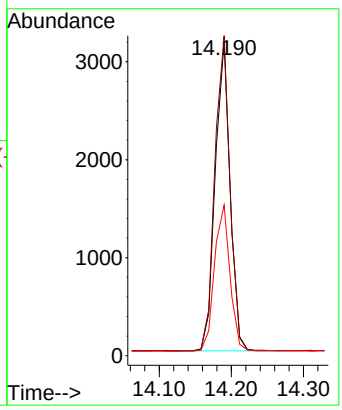




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:164 Resp: 451

Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.2	123.2
160	47.9	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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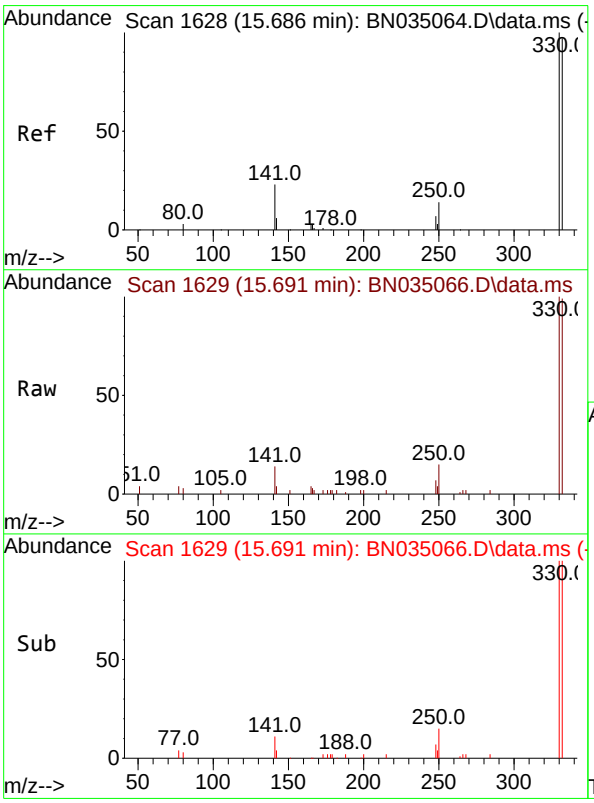
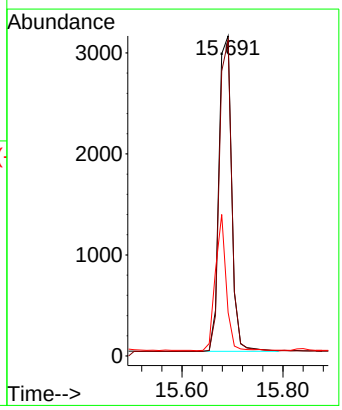
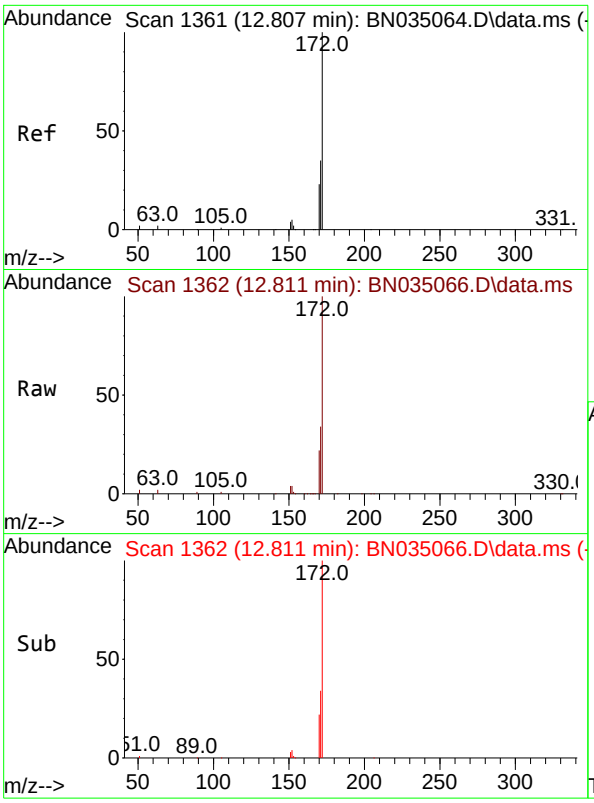


#14
2,4,6-Tribromophenol
Concen: 1.659 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:330 Resp: 5402

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.9	115.3
141	37.2	29.6	44.4

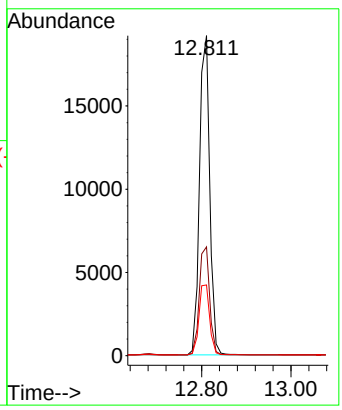




#15
2-Fluorobiphenyl
Concen: 1.661 ng
RT: 12.811 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:172 Resp: 3047

Ion	Ratio	Lower	Upper
172	100		
171	34.0	28.2	42.4
170	22.1	19.0	28.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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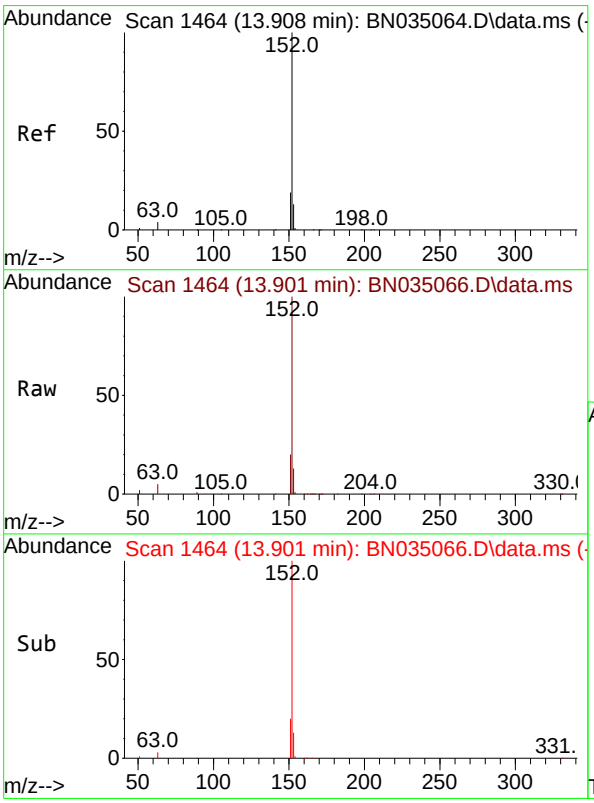
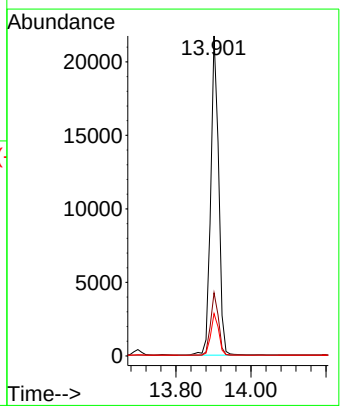
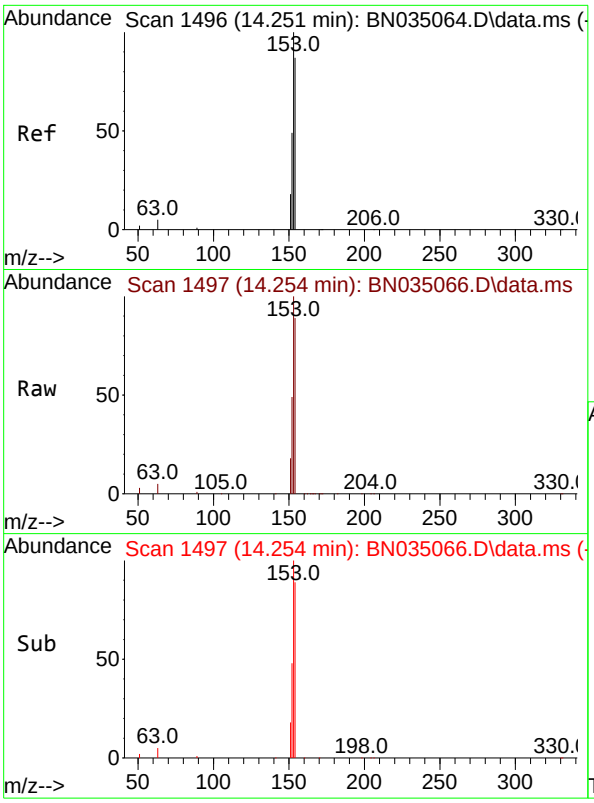


#16
Acenaphthylene
Concen: 1.661 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:152 Resp: 32064

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.8	23.8
153	13.1	10.2	15.4

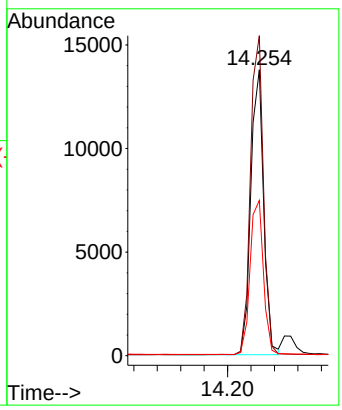




#17
Acenaphthene
Concen: 1.653 ng
RT: 14.254 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:154 Resp: 2091(

Ion	Ratio	Lower	Upper
154	100		
153	113.4	91.6	137.4
152	56.5	45.8	68.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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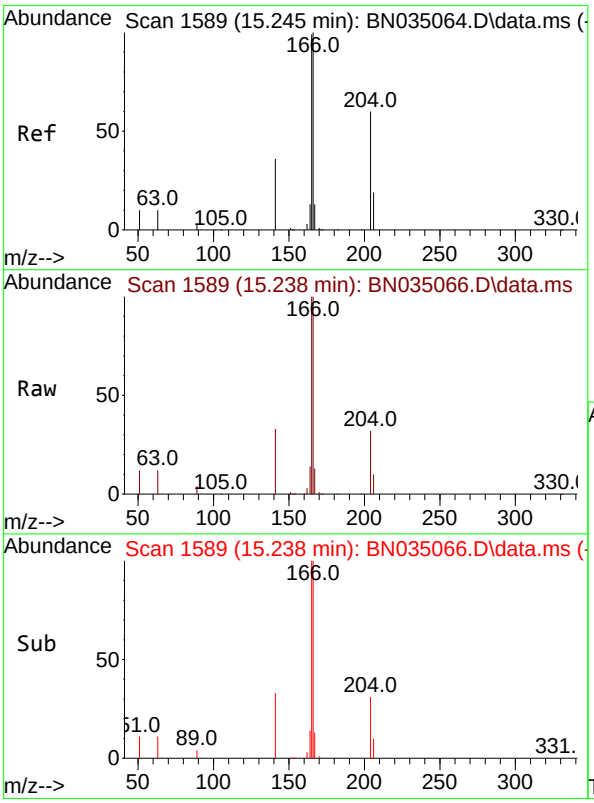
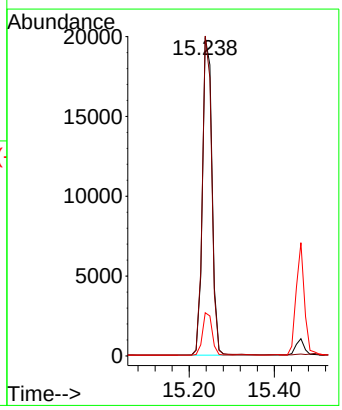
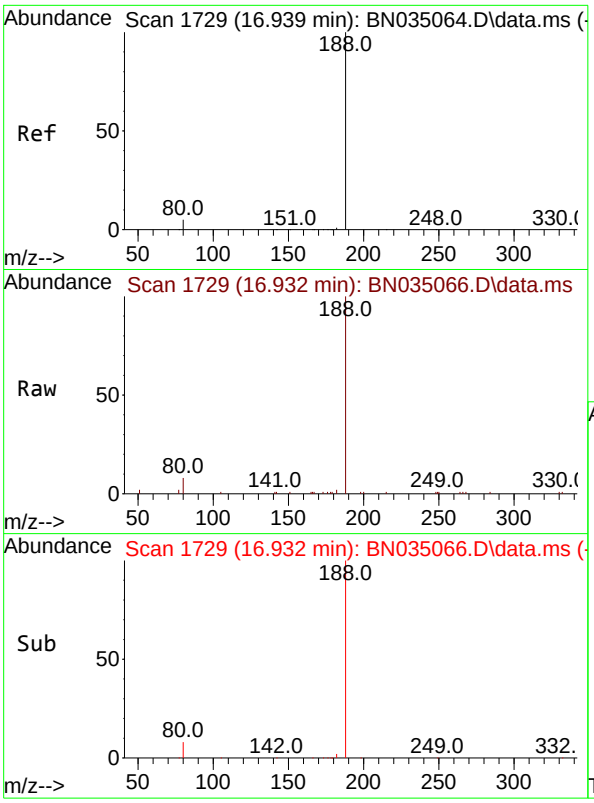


#18
Fluorene
Concen: 1.659 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:166 Resp: 30868

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.1	118.7
167	13.4	10.6	16.0

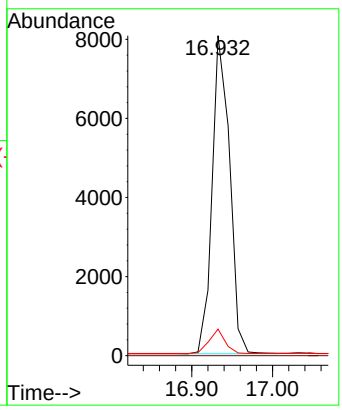




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:188 Resp: 1206

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	4.3	6.5#



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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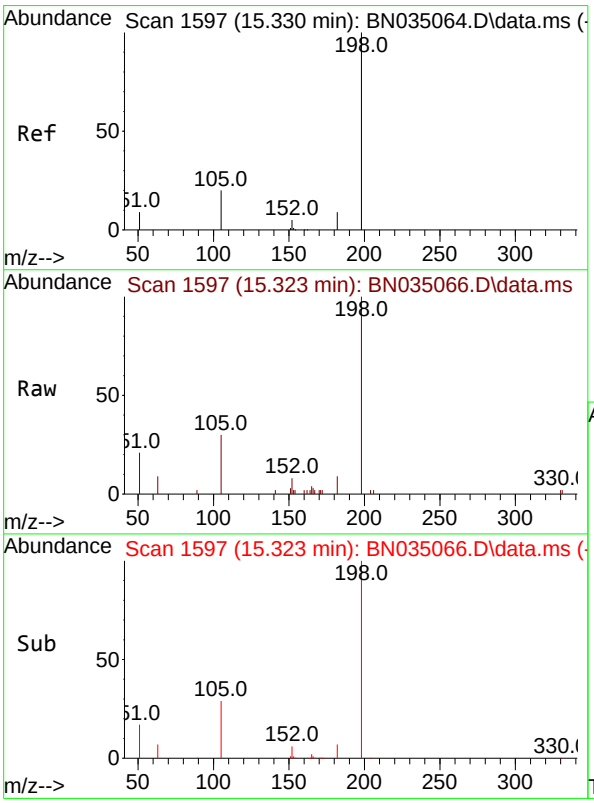
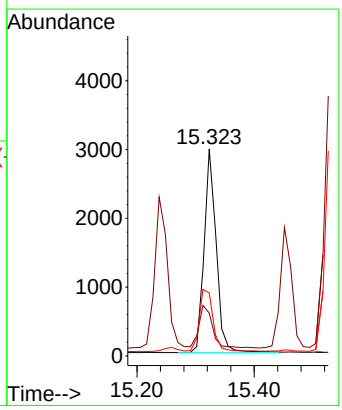
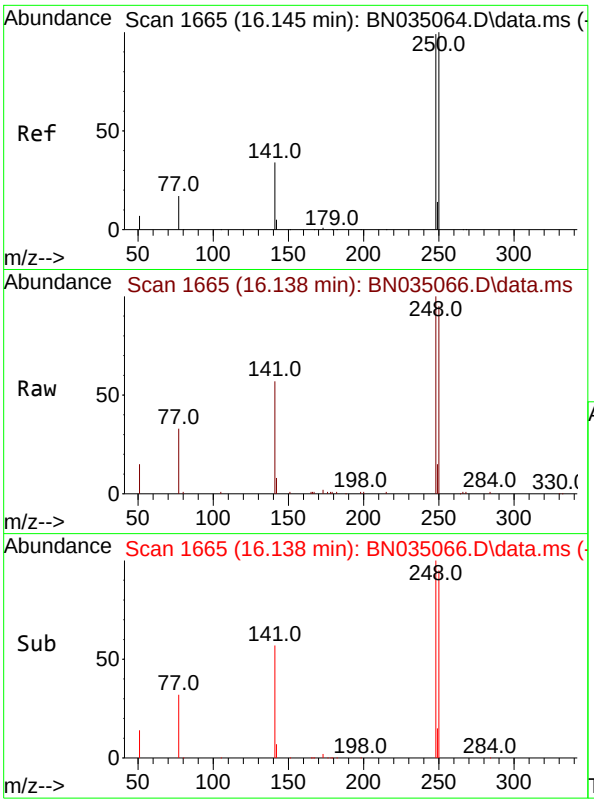


#20
4,6-Dinitro-2-methylphenol
Concen: 1.695 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:198 Resp: 4259

Ion	Ratio	Lower	Upper
198	100		
51	20.7	29.9	44.9#
105	30.5	23.7	35.5

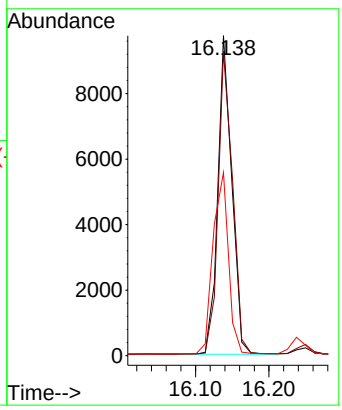




#21
4-Bromophenyl-phenylether
Concen: 1.676 ng
RT: 16.138 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:248 Resp: 1288

Ion	Ratio	Lower	Upper
248	100		
250	95.0	81.2	121.8
141	57.2	29.1	43.7



Instrument :
BNA_N
ClientSampleId :
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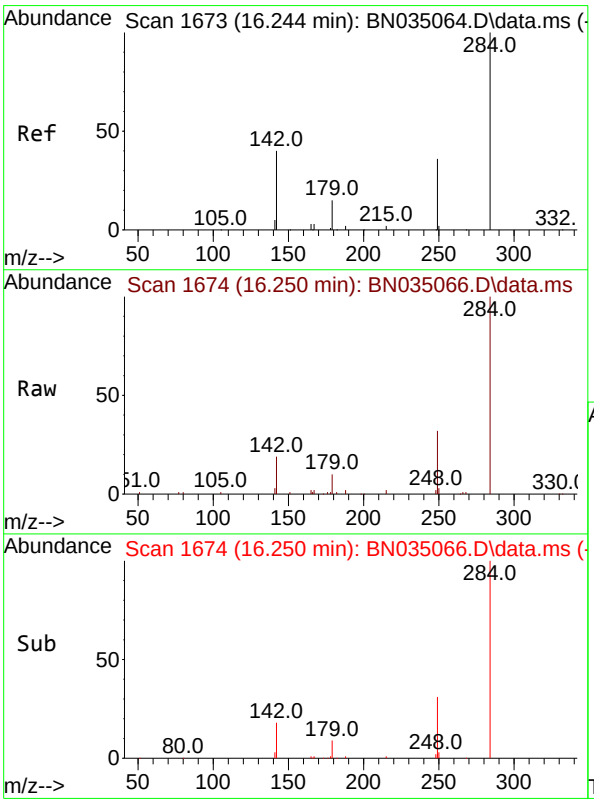
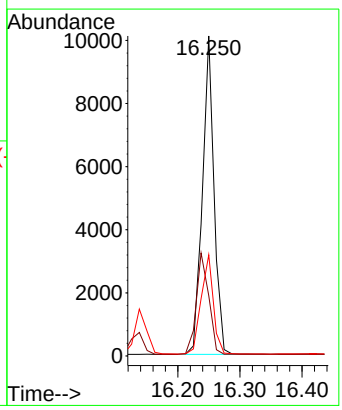
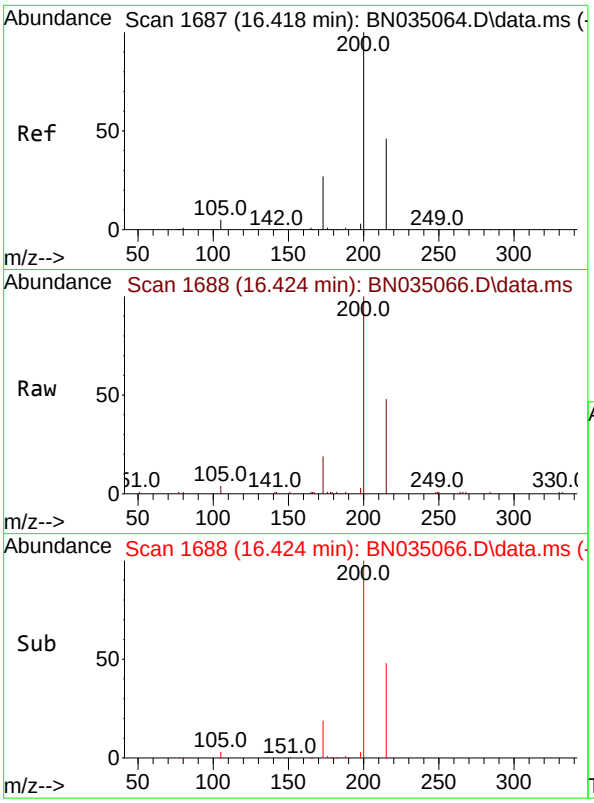


#22
Hexachlorobenzene
Concen: 1.651 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:284 Resp: 13172

Ion	Ratio	Lower	Upper
284	100		
142	34.0	28.2	42.4
249	32.5	26.2	39.2

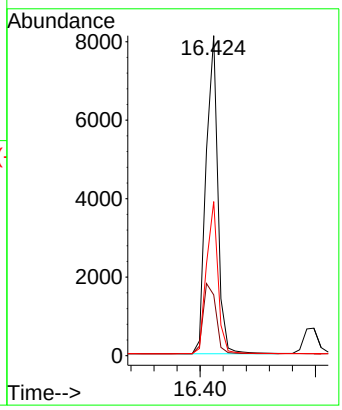




#23
Atrazine
Concen: 1.663 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:200 Resp: 1147

Ion	Ratio	Lower	Upper
200	100		
173	19.0	22.6	33.8
215	48.2	37.8	56.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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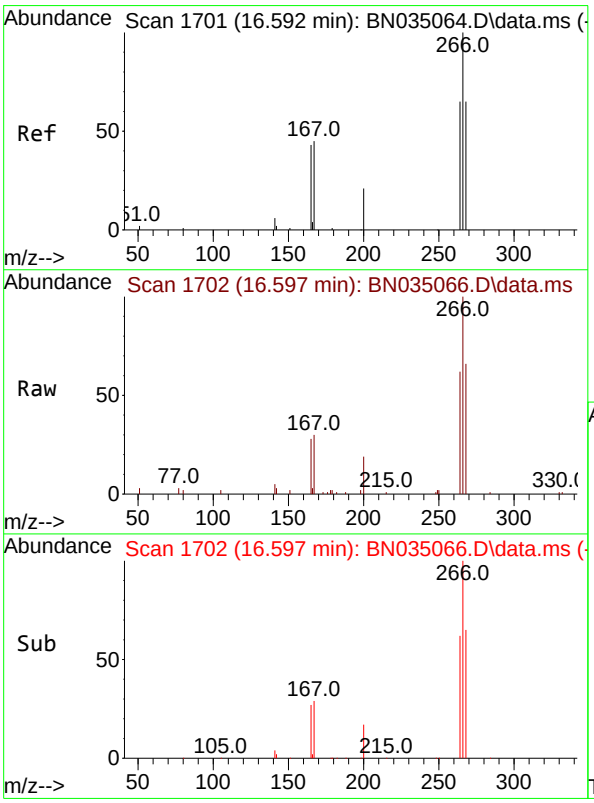
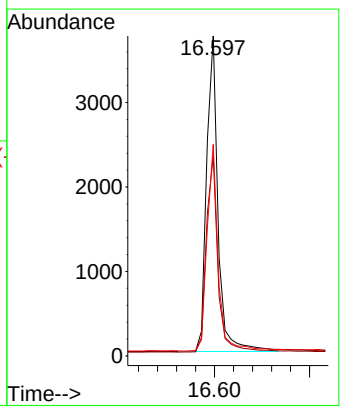
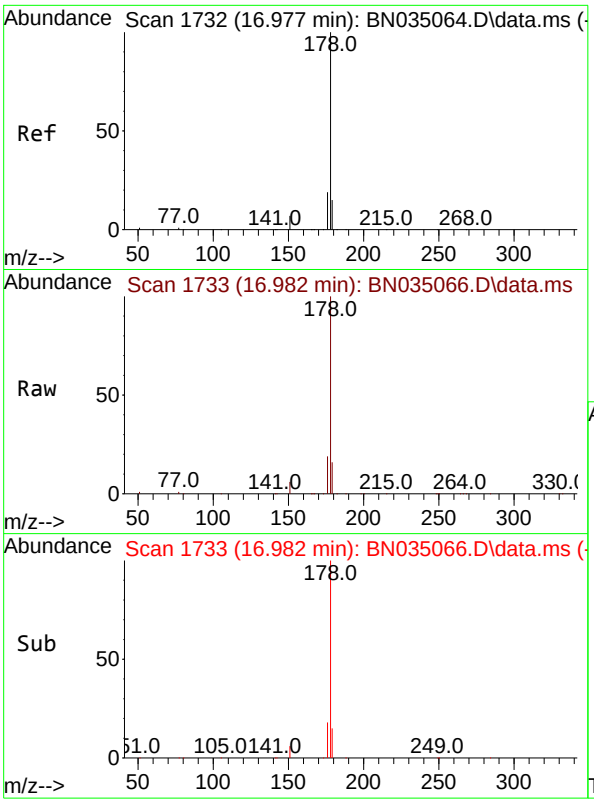


#24
Pentachlorophenol
Concen: 1.683 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:266 Resp: 6275

Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.4	74.0
268	63.7	52.6	79.0

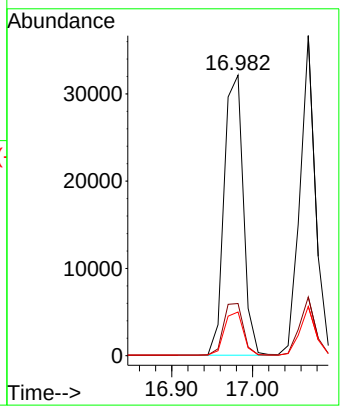




#25
Phenanthrene
Concen: 1.666 ng
RT: 16.982 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:178 Resp: 5291

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.3	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Manual Integrations
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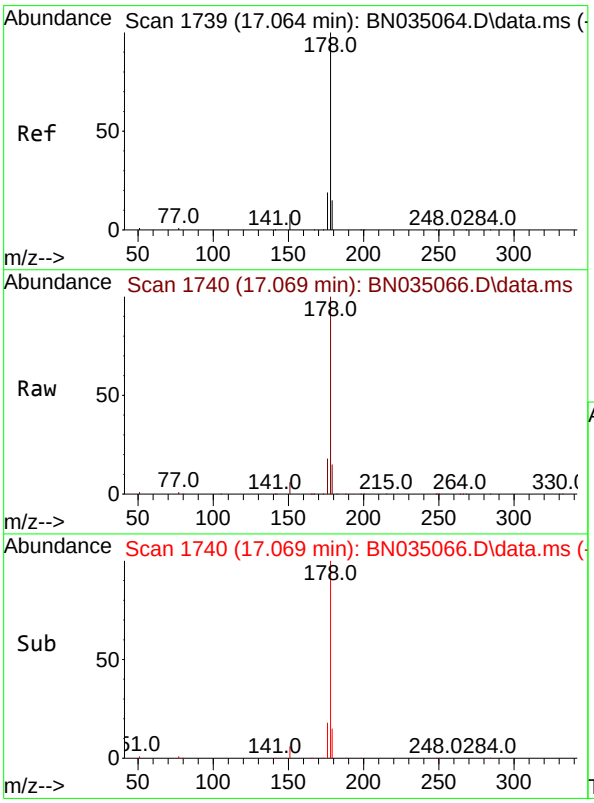
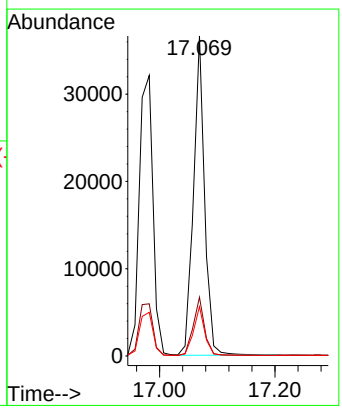
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

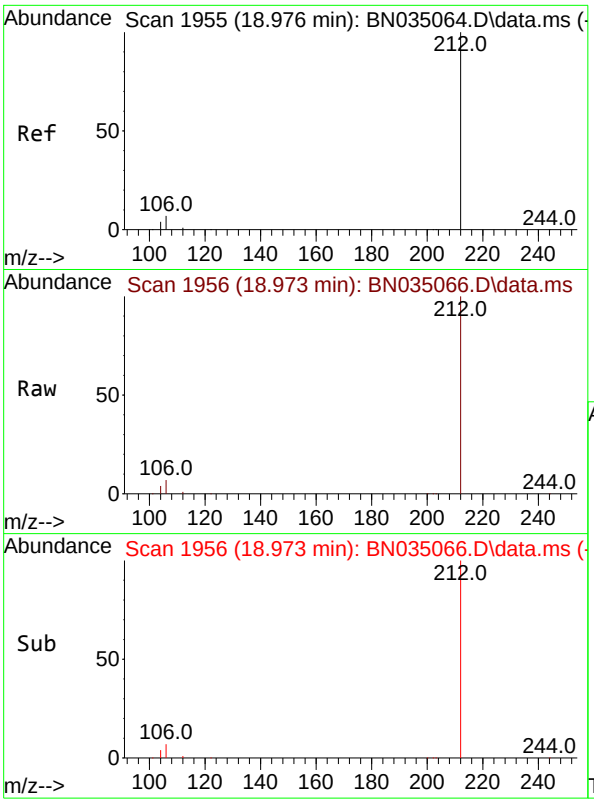


#26
Anthracene
Concen: 1.681 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:178 Resp: 49046

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	22.0
179	15.3	12.2	18.2

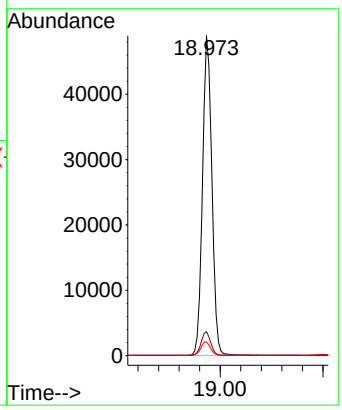




#27
Fluoranthene-d10
Concen: 1.676 ng
RT: 18.973 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:212 Resp: 6197

Ion	Ratio	Lower	Upper
212	100		
106	7.5	6.0	9.0
104	4.3	3.5	5.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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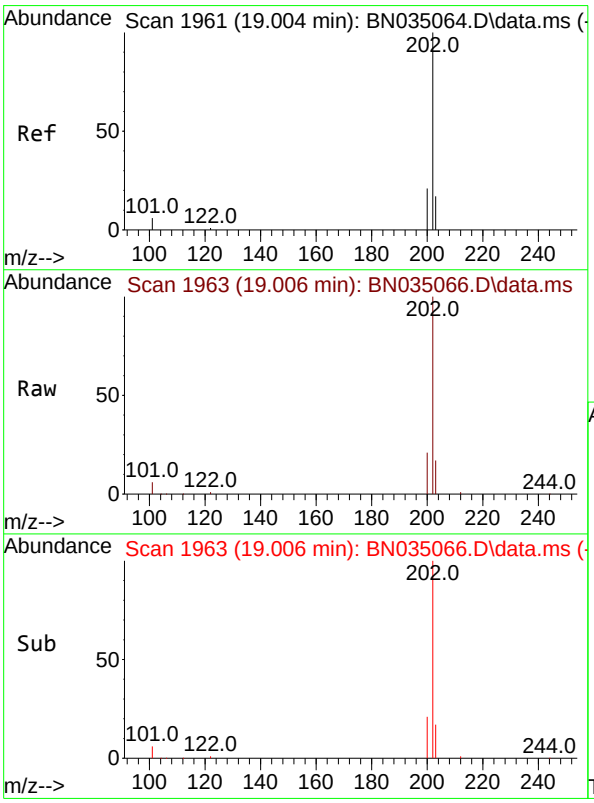
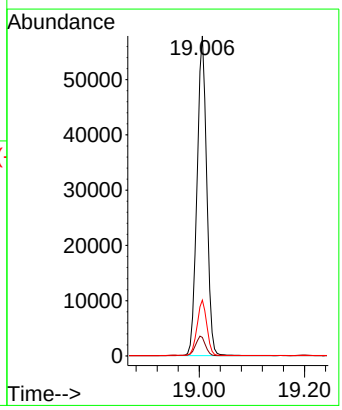
Supervised By :mohammad ahmed 11/14/2024

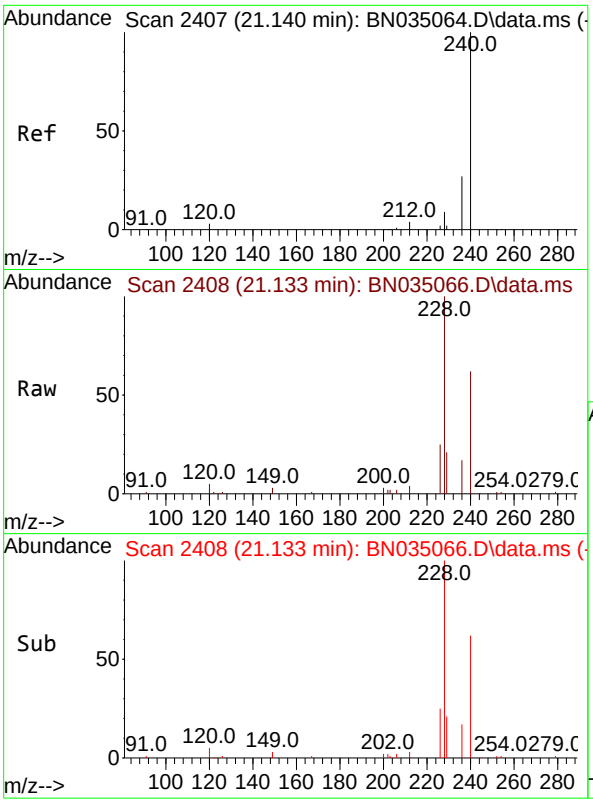


#28
Fluoranthene
Concen: 1.687 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:202 Resp: 73694

Ion	Ratio	Lower	Upper
202	100		
101	6.3	5.2	7.8
203	17.4	13.8	20.8

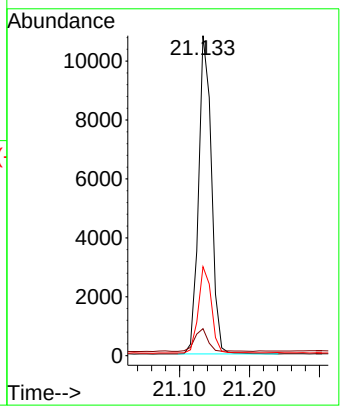




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:240 Resp: 1382

Ion	Ratio	Lower	Upper
240	100		
120	8.5	3.8	5.6
236	27.8	22.2	33.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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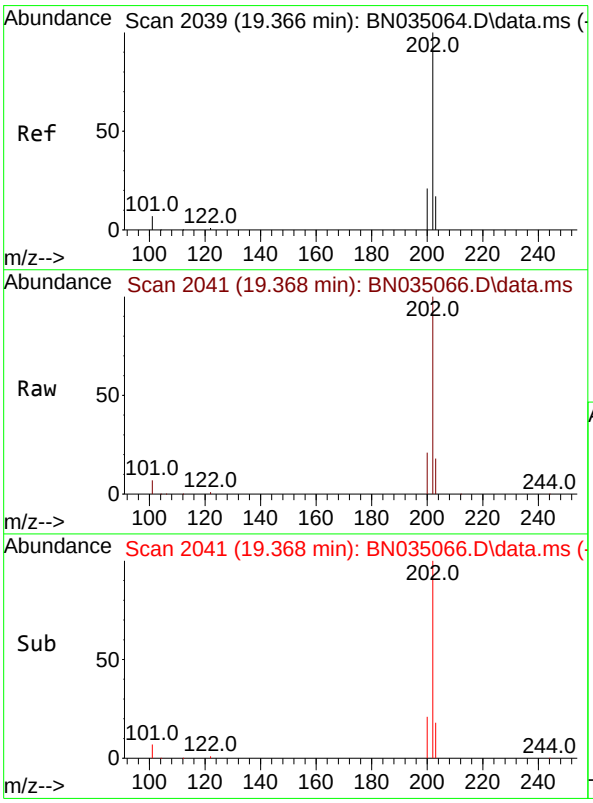
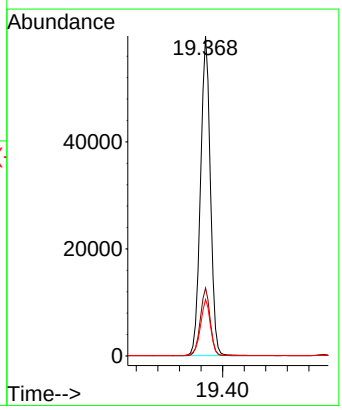
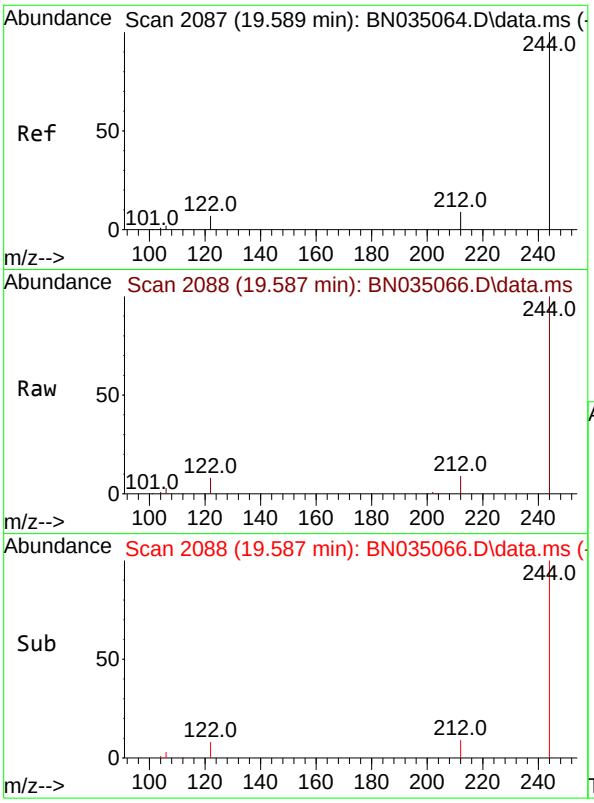


#30
Pyrene
Concen: 1.641 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:202 Resp: 75558

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4

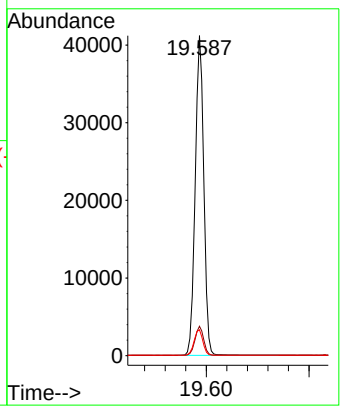




#31
Terphenyl-d14
Concen: 1.652 ng
RT: 19.587 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:244 Resp: 4791

Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.6	11.4
122	8.1	6.1	9.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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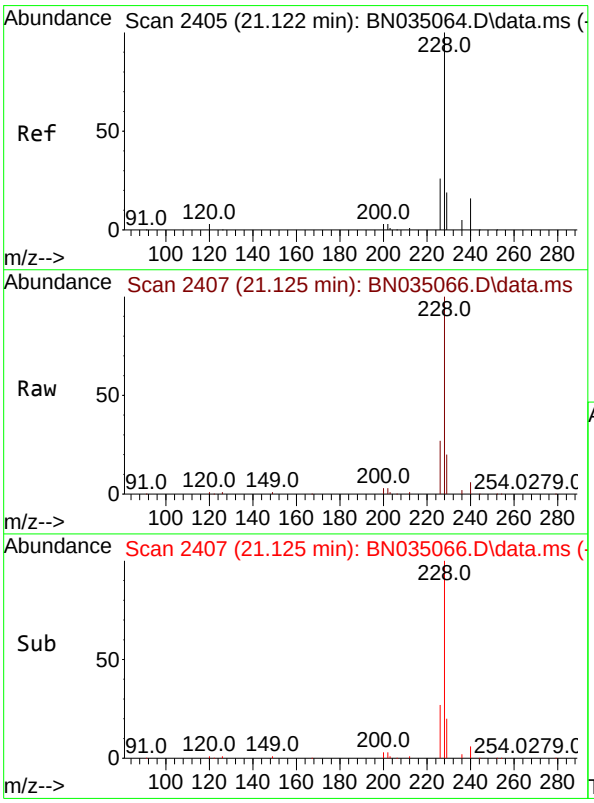
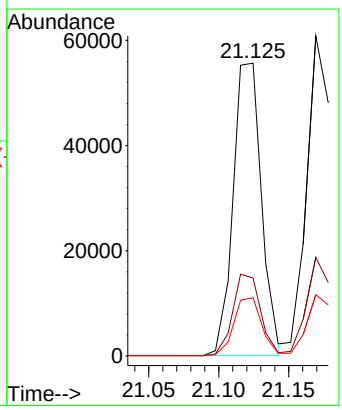
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

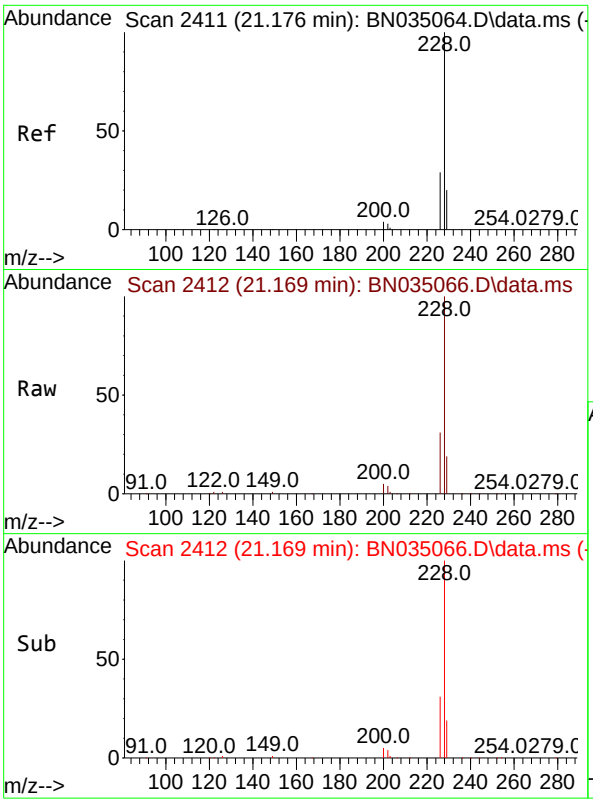


#32
Benzo(a)anthracene
Concen: 1.627 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:228 Resp: 78298

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.4	32.0
229	19.9	15.7	23.5

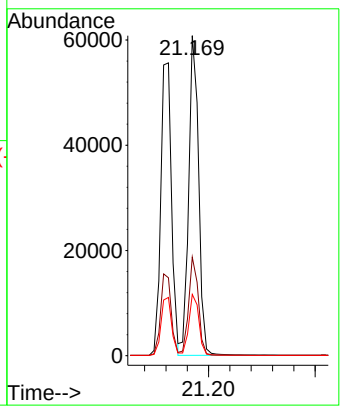




#33
Chrysene
Concen: 1.647 ng
RT: 21.169 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:228 Resp: 7853

Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.7	35.5
229	19.2	16.2	24.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Manual Integrations
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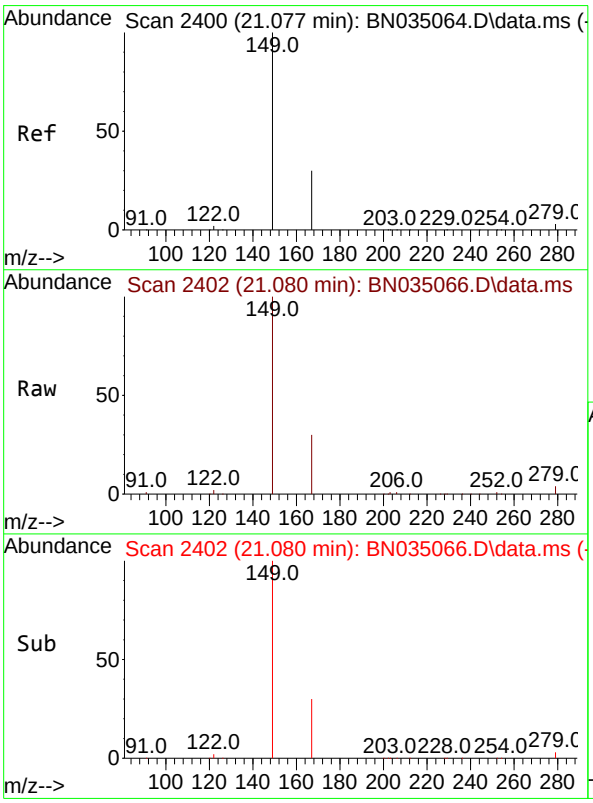
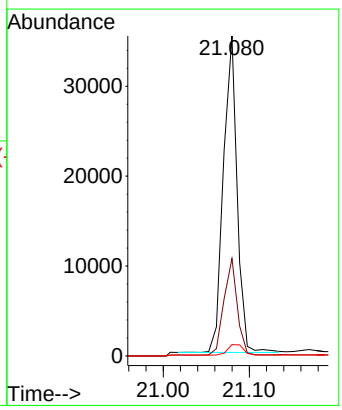
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

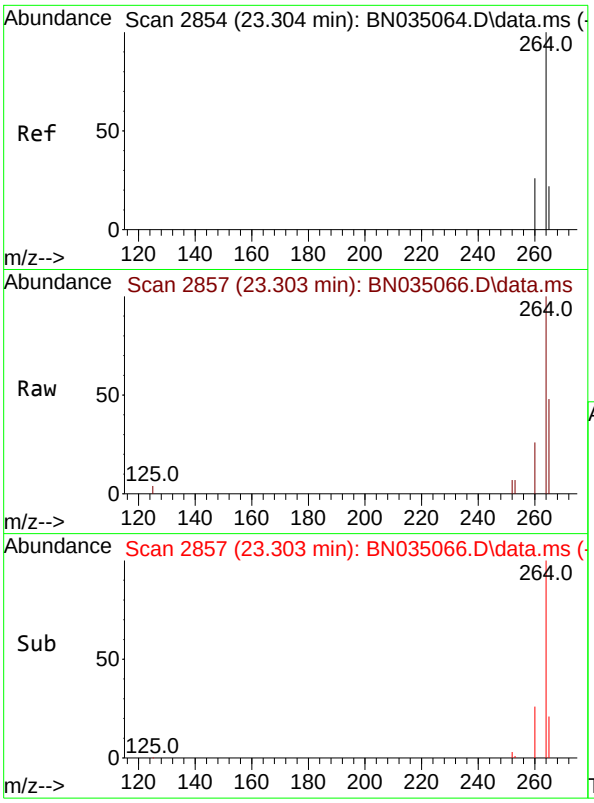


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.549 ng
RT: 21.080 min Scan# 2402
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:149 Resp: 38807

Ion	Ratio	Lower	Upper
149	100		
167	29.5	23.2	34.8
279	3.9	3.2	4.8

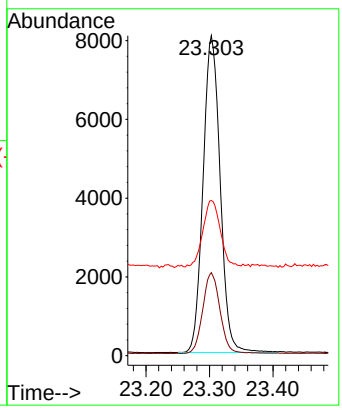




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:264 Resp: 1506

Ion	Ratio	Lower	Upper
264	100		
260	26.0	20.9	31.3
265	48.5	35.4	53.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Manual Integrations
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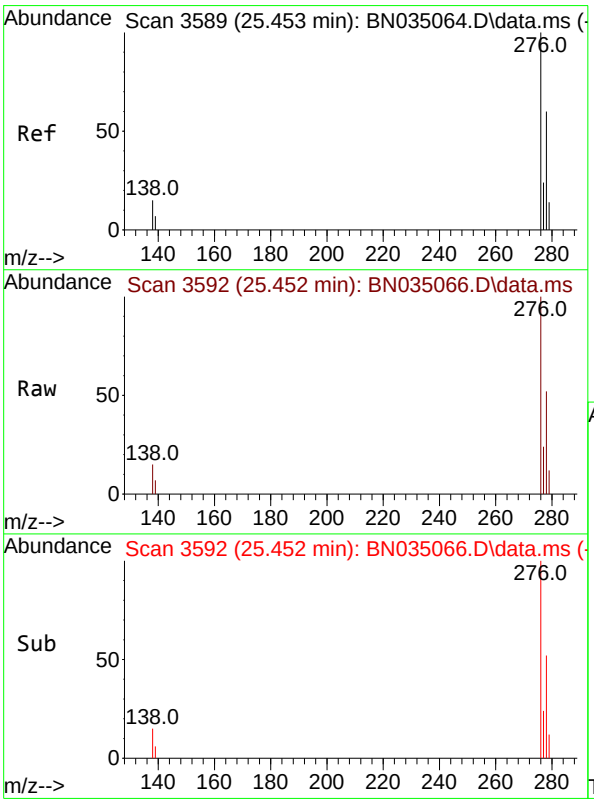
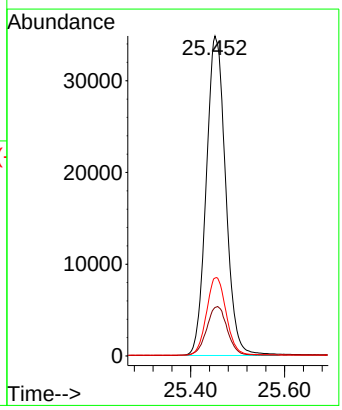
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

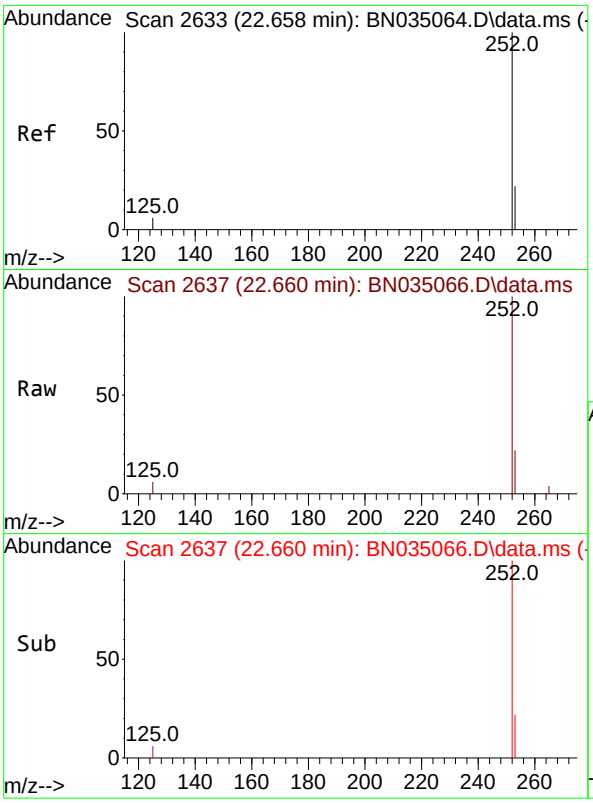


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.663 ng
RT: 25.452 min Scan# 3592
Delta R.T. -0.001 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:276 Resp: 99936

Ion	Ratio	Lower	Upper
276	100		
138	16.1	13.0	19.4
277	24.8	19.8	29.6

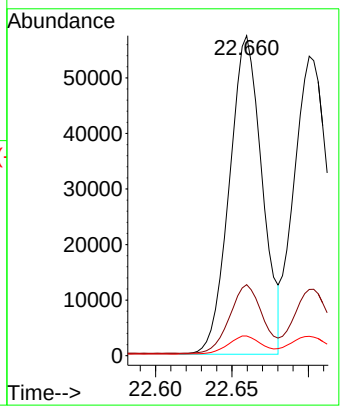




#37
Benzo(b)fluoranthene
Concen: 1.686 ng m
RT: 22.660 min Scan# 2
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:252 Resp: 8542

Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.3	28.9
125	6.1	6.2	9.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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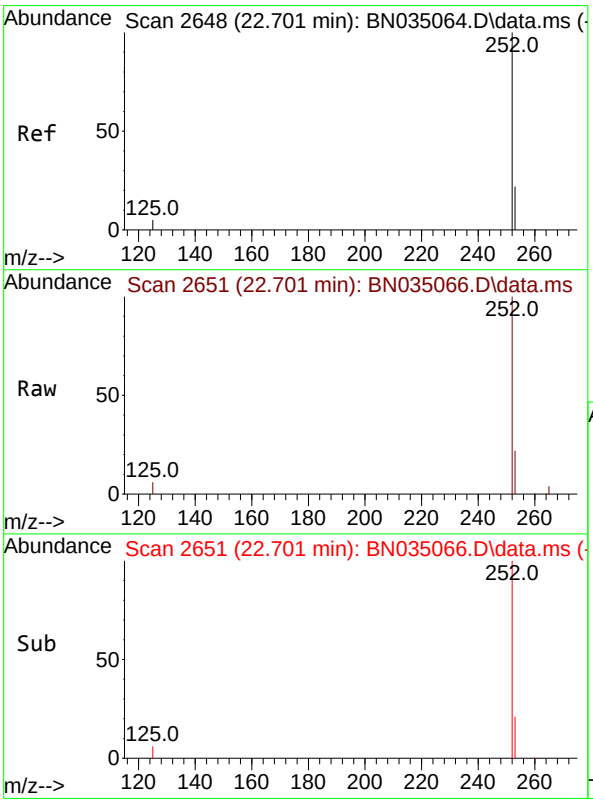
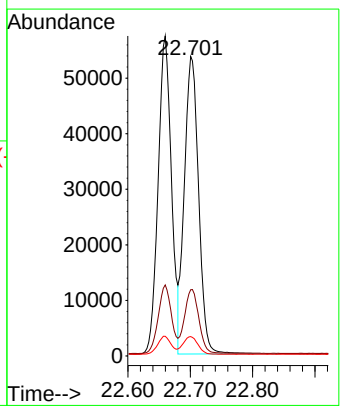
Supervised By :mohammad ahmed 11/14/2024

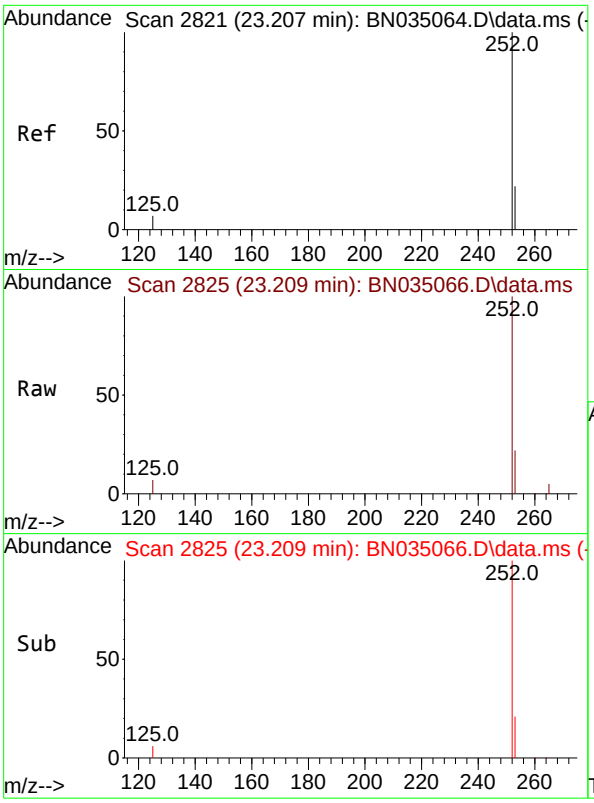


#38
Benzo(k)fluoranthene
Concen: 1.676 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:252 Resp: 84960

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.5	29.3
125	6.5	6.5	9.7#

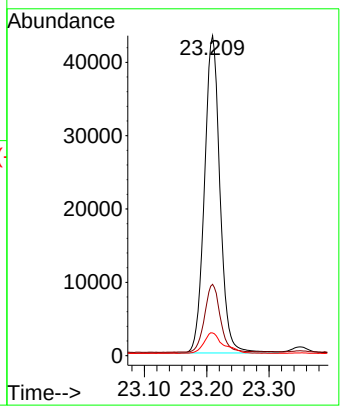




#39
Benzo(a)pyrene
Concen: 1.675 ng
RT: 23.209 min Scan# 2
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:252 Resp: 7466

Ion	Ratio	Lower	Upper
252	100		
253	22.3	20.1	30.1
125	7.1	7.5	11.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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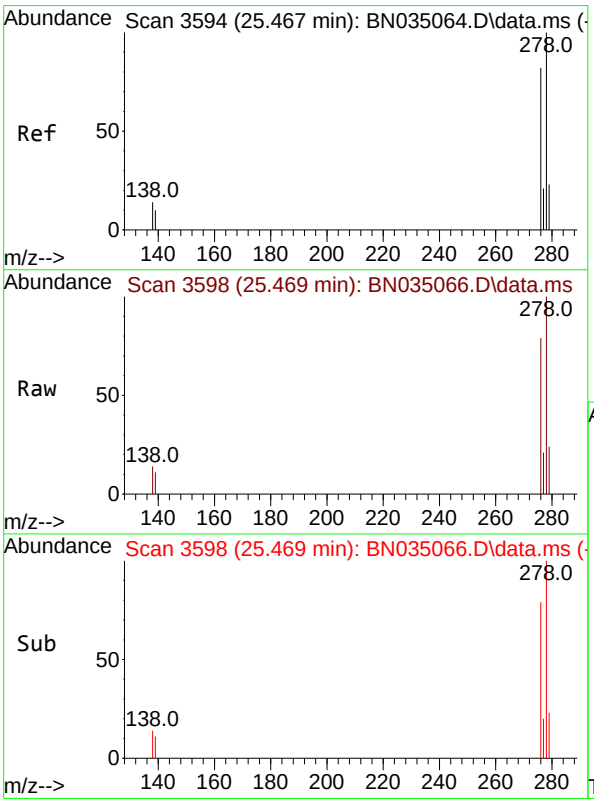
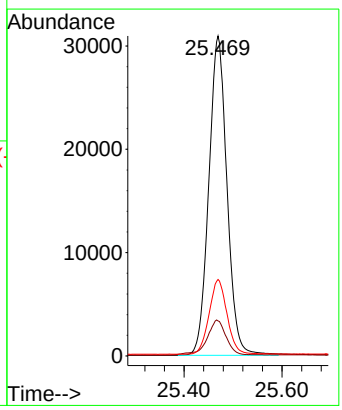
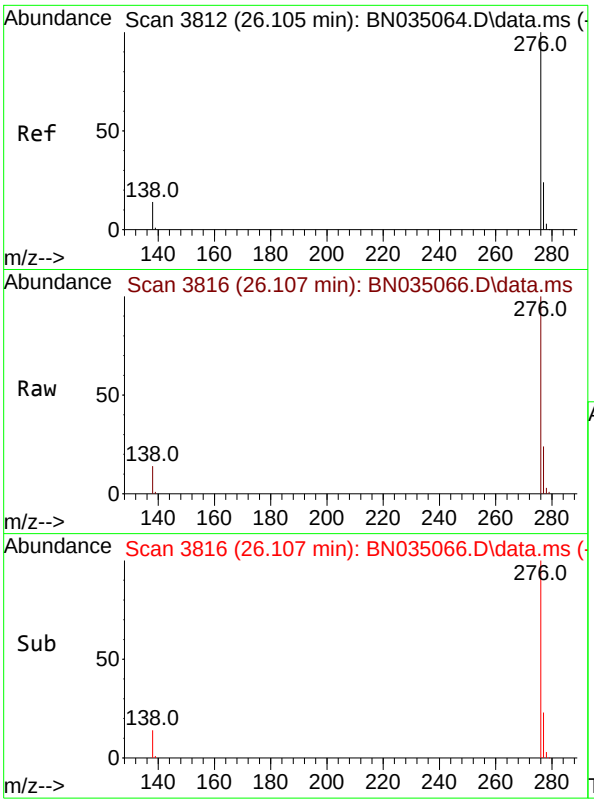


#40
Dibenzo(a,h)anthracene
Concen: 1.673 ng
RT: 25.469 min Scan# 3598
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:278 Resp: 79628

Ion	Ratio	Lower	Upper
278	100		
139	10.9	9.3	13.9
279	23.9	19.7	29.5

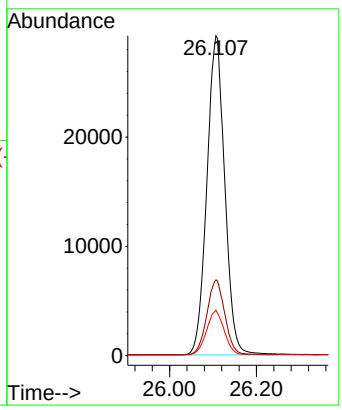




#41
Benzo(g,h,i)perylene
Concen: 1.649 ng
RT: 26.107 min Scan# 3
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:276 Resp: 8349

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.9	29.9
138	14.2	11.6	17.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Manual Integrations
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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035067.D
Acq On : 13 Nov 2024 15:39
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 16:45:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	2920	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	7487	0.400	ng		0.00
13) Acenaphthene-d10	14.190	164	5593	0.400	ng		0.00
19) Phenanthrene-d10	16.932	188	14864	0.400	ng	#	0.00
29) Chrysene-d12	21.133	240	17096	0.400	ng	#	0.00
35) Perylene-d12	23.303	264	18582	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	22571	3.045	ng		0.00
5) Phenol-d6	6.737	99	29328	3.155	ng		0.00
8) Nitrobenzene-d5	8.696	82	20578	3.167	ng		0.00
11) 2-Methylnaphthalene-d10	11.912	152	42128	3.157	ng		0.00
14) 2,4,6-Tribromophenol	15.691	330	13778	3.417	ng		0.00
15) 2-Fluorobiphenyl	12.811	172	71543	3.150	ng		0.00
27) Fluoranthene-d10	18.973	212	145321	3.191	ng		0.00
31) Terphenyl-d14	19.587	244	111732	3.115	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.177	88	8131	3.066	ng		99
3) n-Nitrosodimethylamine	3.465	42	7509	3.049	ng	#	93
6) bis(2-Chloroethyl)ether	6.990	93	21619	3.099	ng		99
9) Naphthalene	10.362	128	60468	3.093	ng		98
10) Hexachlorobutadiene	10.660	225	17300	3.019	ng	#	99
12) 2-Methylnaphthalene	11.988	142	45806	3.176	ng		98
16) Acenaphthylene	13.901	152	78553	3.286	ng		99
17) Acenaphthene	14.254	154	50542	3.227	ng		98
18) Fluorene	15.238	166	74092	3.215	ng		99
20) 4,6-Dinitro-2-methylph...	15.323	198	11328	3.661	ng	#	83
21) 4-Bromophenyl-phenylether	16.138	248	30013	3.169	ng	#	85
22) Hexachlorobenzene	16.250	284	30635	3.117	ng		99
23) Atrazine	16.424	200	26567	3.127	ng	#	93
24) Pentachlorophenol	16.597	266	16789	3.656	ng		98
25) Phenanthrene	16.982	178	123000	3.144	ng		99
26) Anthracene	17.069	178	117301	3.265	ng		100
28) Fluoranthene	19.006	202	172759	3.212	ng		100
30) Pyrene	19.368	202	177937	3.125	ng		100
32) Benzo(a)anthracene	21.125	228	185345	3.114	ng		99
33) Chrysene	21.169	228	182053	3.087	ng		98
34) Bis(2-ethylhexyl)phtha...	21.080	149	94826	3.061	ng		99
36) Indeno(1,2,3-cd)pyrene	25.455	276	230419	3.108	ng		100
37) Benzo(b)fluoranthene	22.660	252	197259m	3.155	ng		
38) Benzo(k)fluoranthene	22.701	252	196686	3.144	ng	#	95
39) Benzo(a)pyrene	23.209	252	173547	3.155	ng	#	93
40) Dibenzo(a,h)anthracene	25.466	278	183641	3.127	ng		98
41) Benzo(g,h,i)perylene	26.107	276	192341	3.079	ng		98

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

ICAL Form

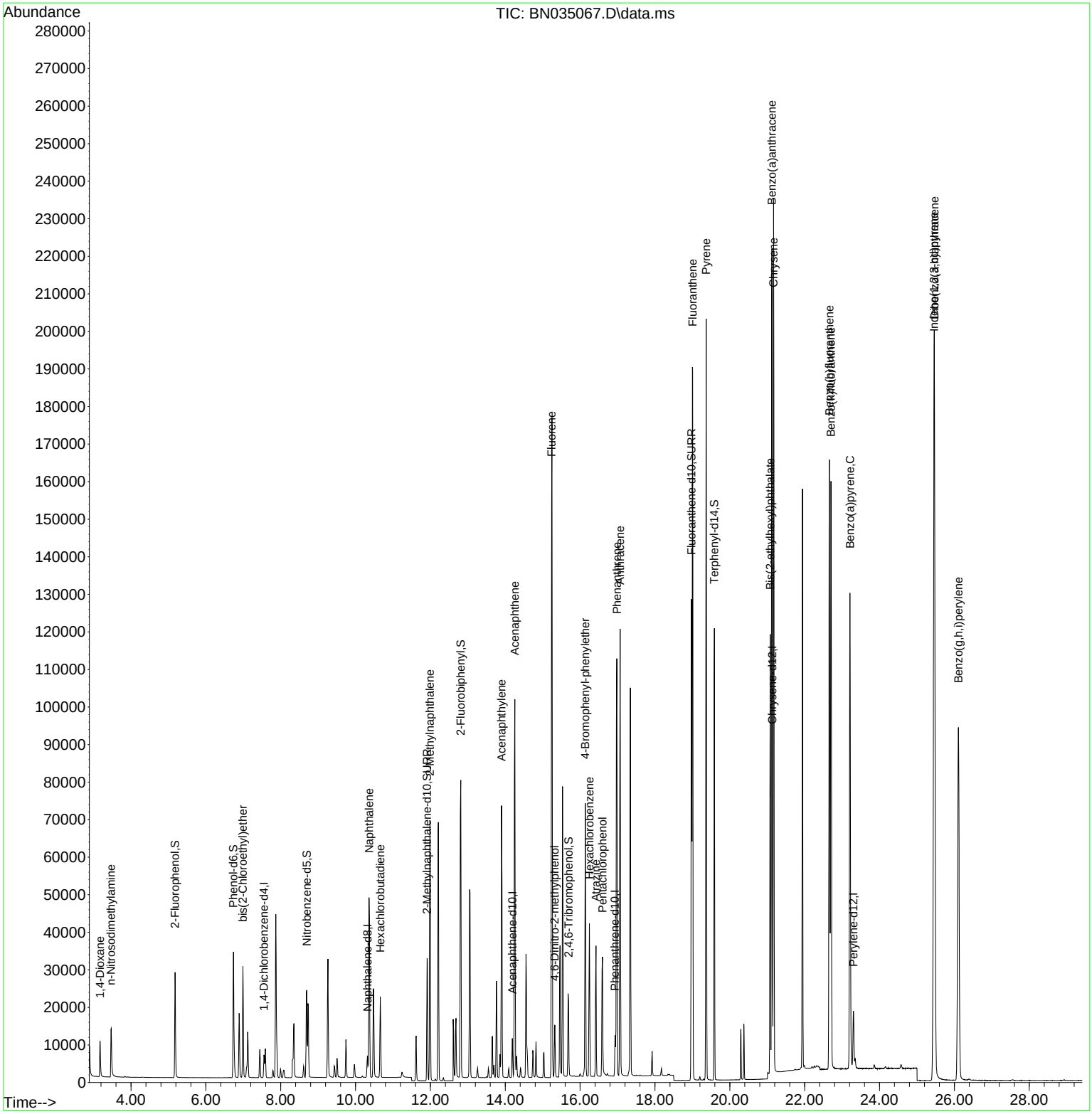
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035067.D
Acq On : 13 Nov 2024 15:39
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

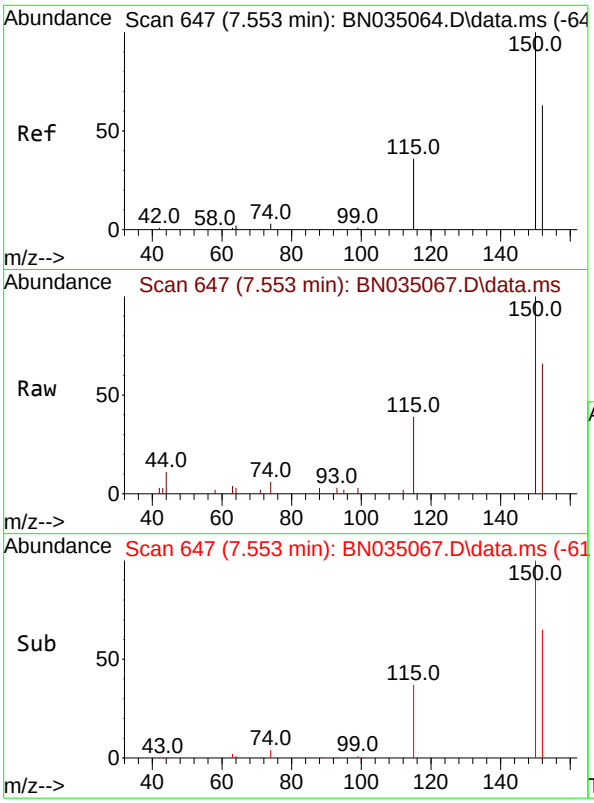
Quant Time: Nov 13 16:45:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

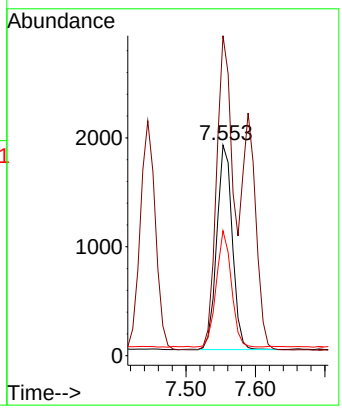




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:152 Resp: 292

Ion	Ratio	Lower	Upper
152	100		
150	152.0	124.5	186.7
115	59.4	47.8	71.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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Reviewed By :Yogesh Patel 11/14/2024
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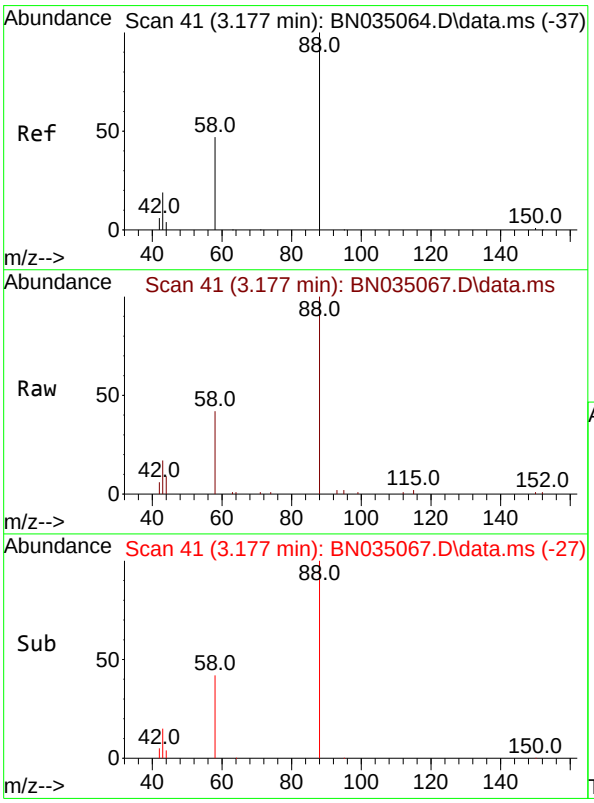
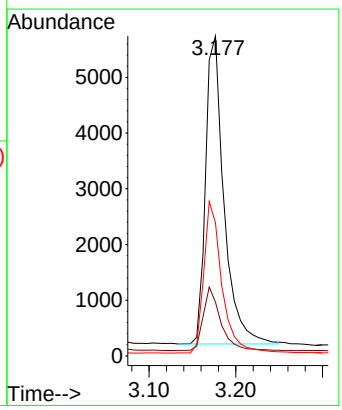
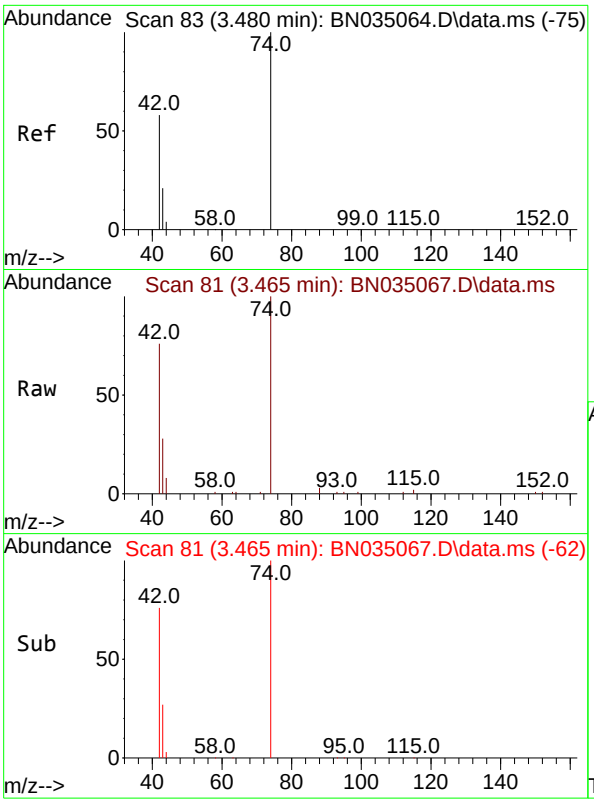


#2
1,4-Dioxane
Concen: 3.066 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 88 Resp: 8131

Ion	Ratio	Lower	Upper
88	100		
43	19.5	16.9	25.3
58	48.4	39.0	58.4

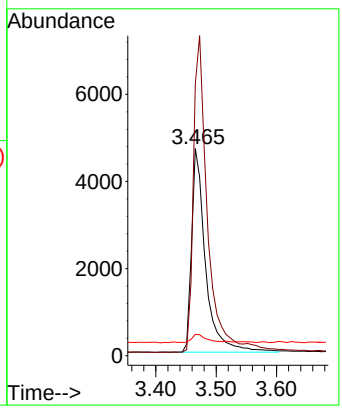




#3
n-Nitrosodimethylamine
Concen: 3.049 ng
RT: 3.465 min Scan# 8
Delta R.T. -0.015 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 42 Resp: 750

Ion	Ratio	Lower	Upper
42	100		
74	159.4	120.8	181.2
44	4.7	2.9	4.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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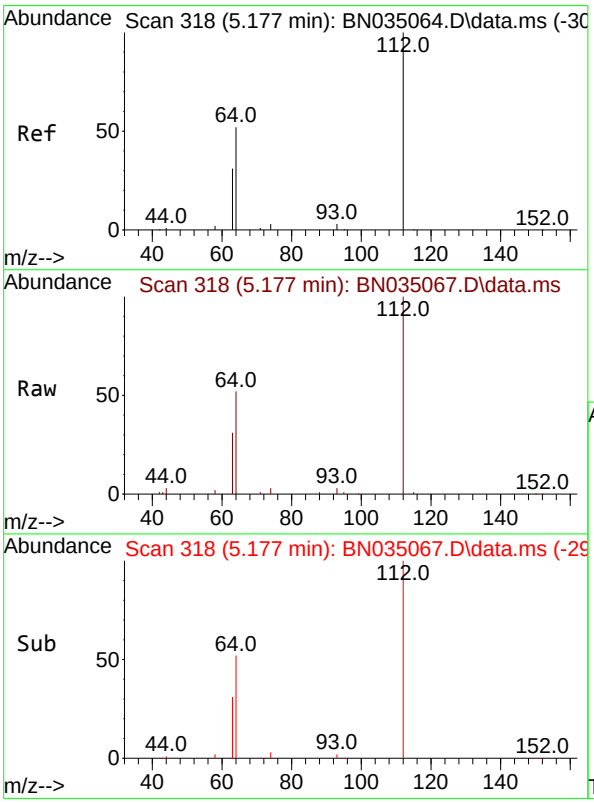
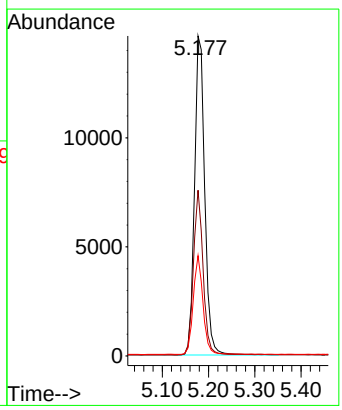
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

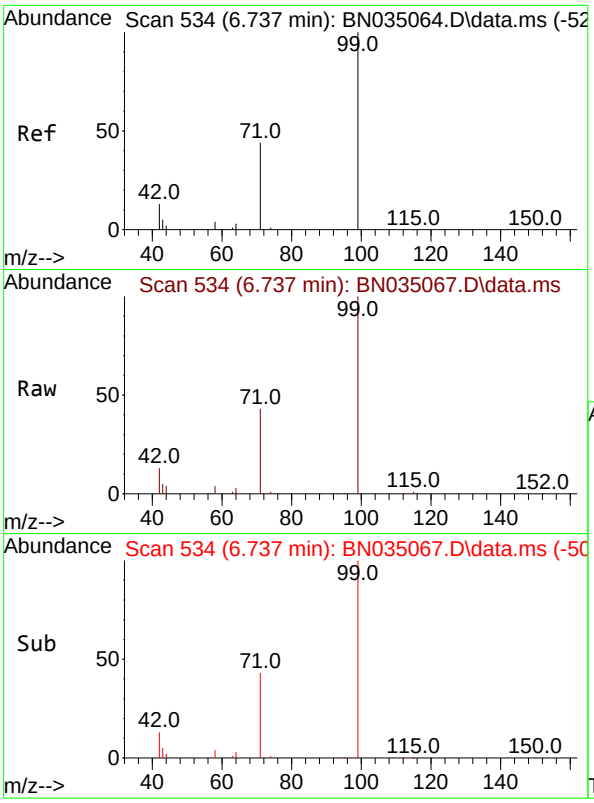


#4
2-Fluorophenol
Concen: 3.045 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:112 Resp: 22571

Ion	Ratio	Lower	Upper
112	100		
64	48.8	39.7	59.5
63	29.4	23.0	34.4

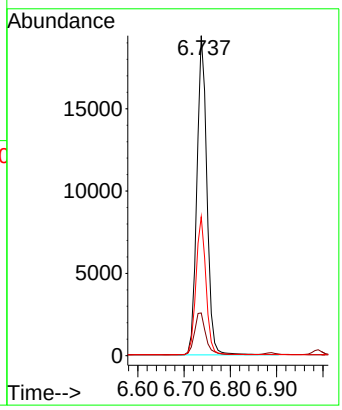




#5
Phenol-d6
Concen: 3.155 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 99 Resp: 2932

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.0
71	43.0	34.6	51.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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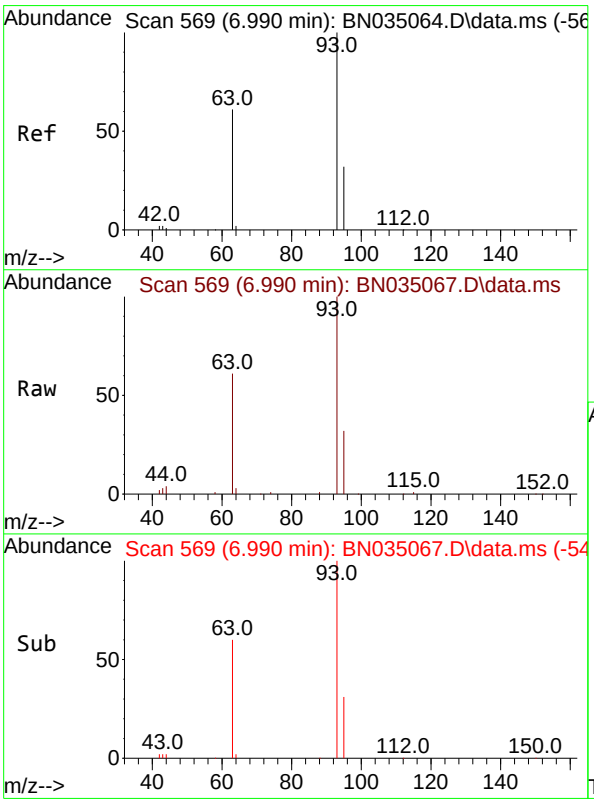
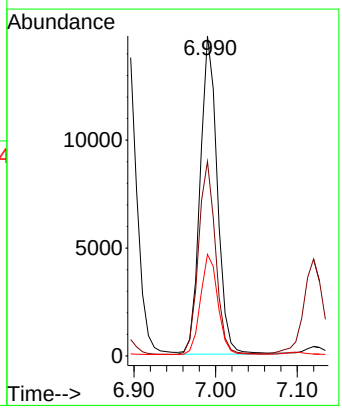
Supervised By :mohammad ahmed 11/14/2024

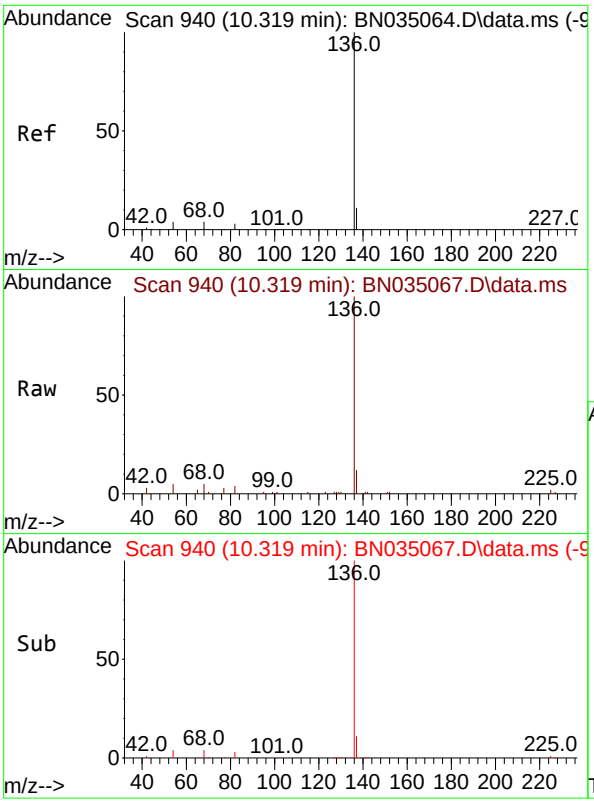


#6
bis(2-Chloroethyl)ether
Concen: 3.099 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 93 Resp: 21619

Ion	Ratio	Lower	Upper
93	100		
63	60.2	47.4	71.2
95	31.9	26.2	39.4

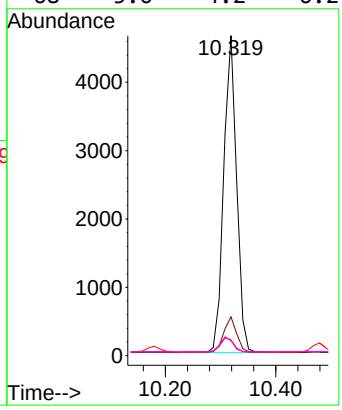




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:136 Resp: 748

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.7	4.0	6.0
68	5.0	4.2	6.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Manual Integrations
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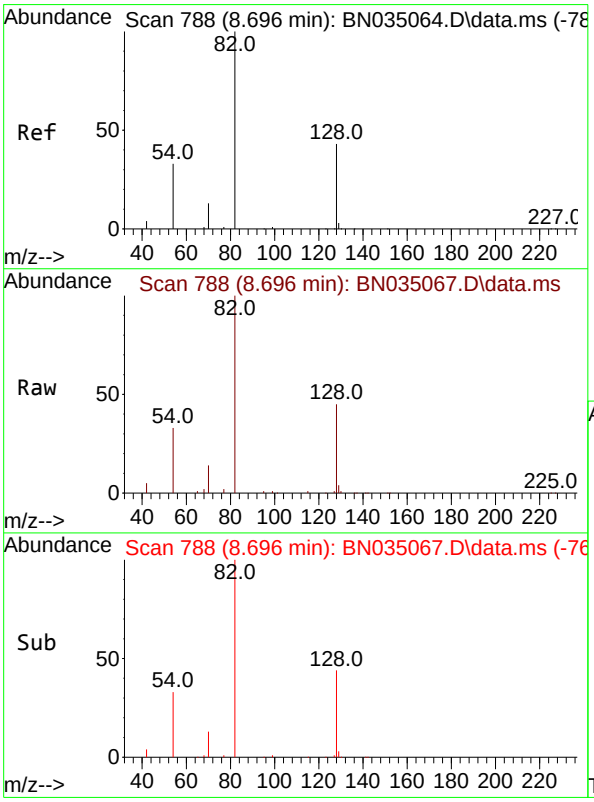
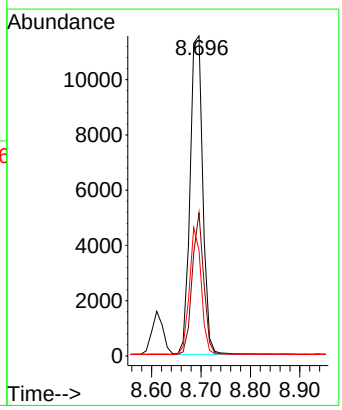
Supervised By :mohammad ahmed 11/14/2024

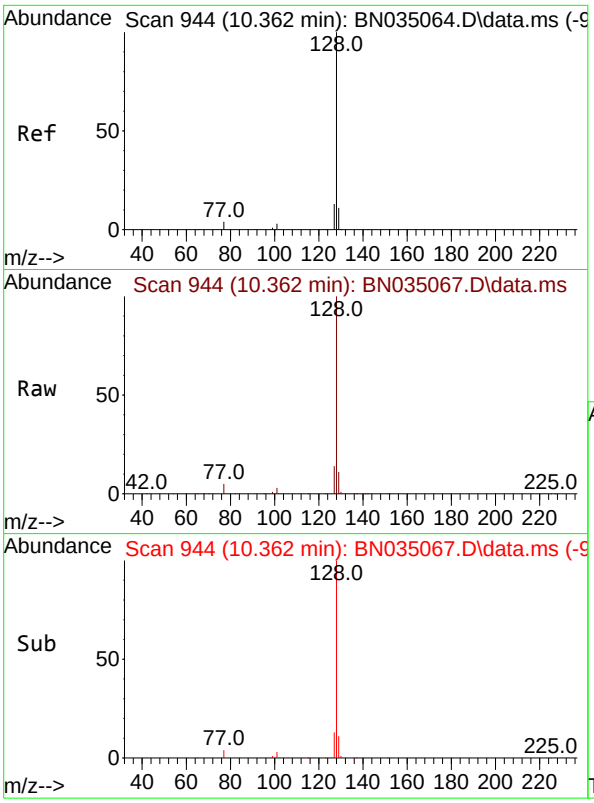


#8
Nitrobenzene-d5
Concen: 3.167 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 82 Resp: 20578

Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.5	54.7
54	33.0	28.7	43.1

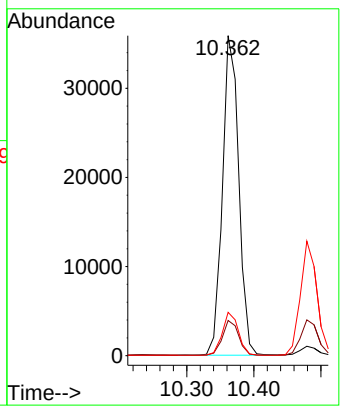




#9
Naphthalene
Concen: 3.093 ng
RT: 10.362 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:128 Resp: 6046

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.6	14.4
127	13.6	11.6	17.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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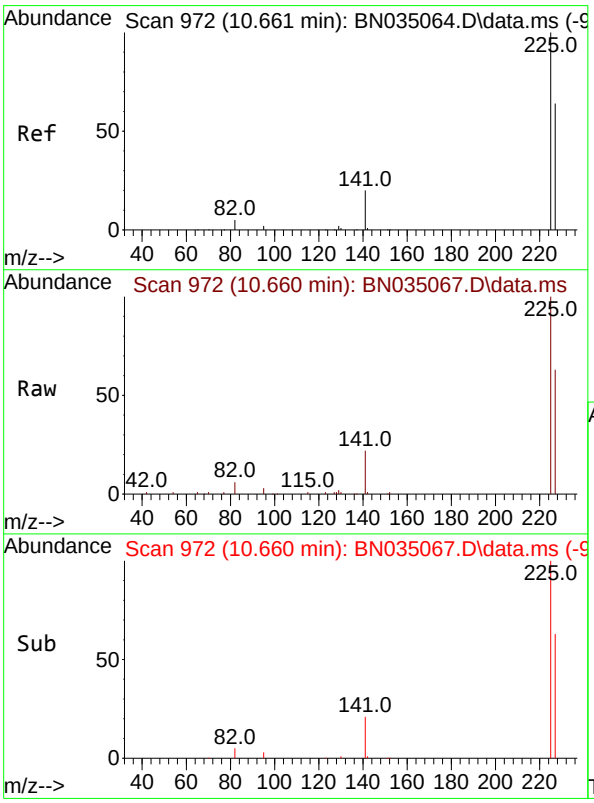
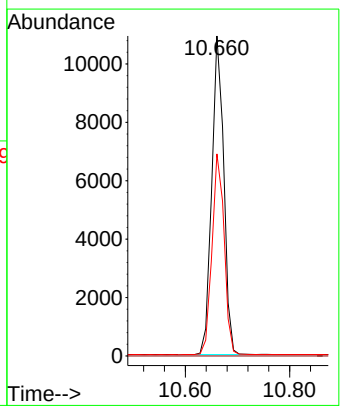
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

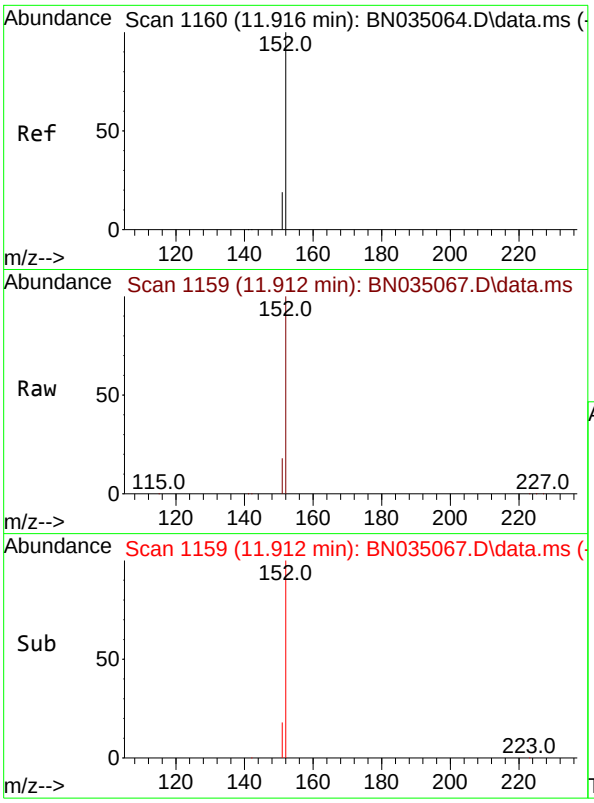


#10
Hexachlorobutadiene
Concen: 3.019 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:225 Resp: 17300

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.5	77.3

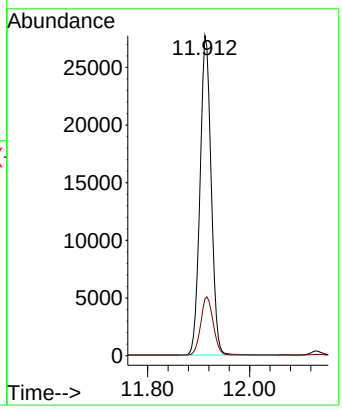




#11
2-Methylnaphthalene-d10
Concen: 3.157 ng
RT: 11.912 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:152 Resp: 4212

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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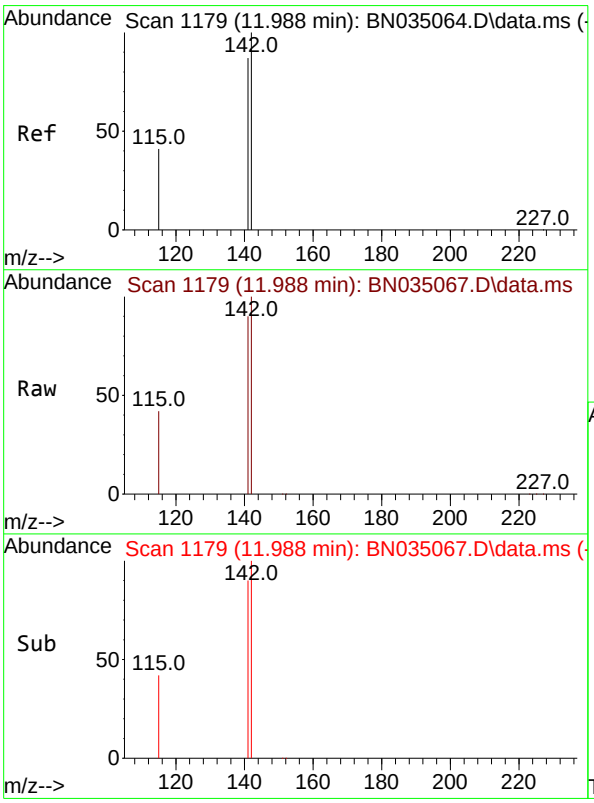
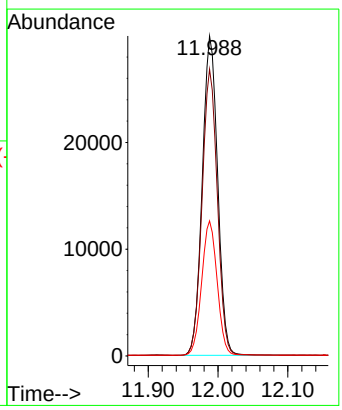
Supervised By :mohammad ahmed 11/14/2024

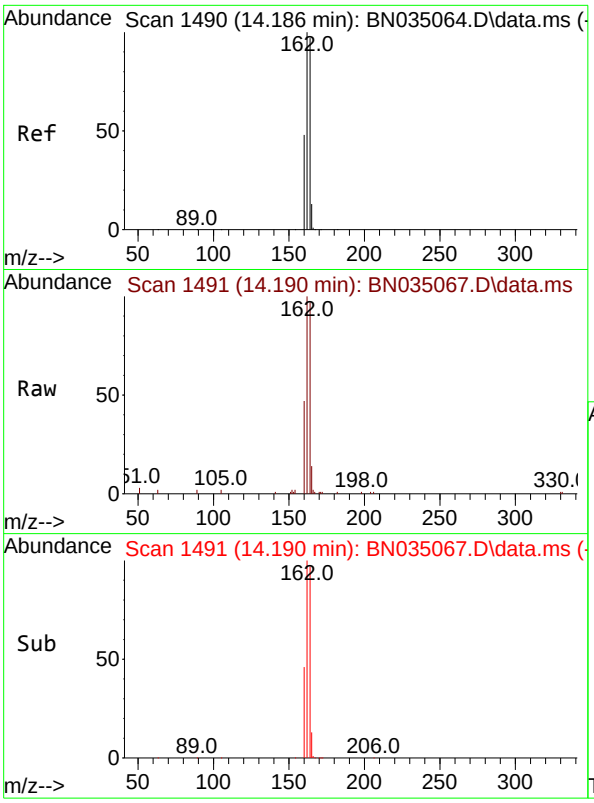


#12
2-Methylnaphthalene
Concen: 3.176 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:142 Resp: 45806

Ion	Ratio	Lower	Upper
142	100		
141	89.6	70.1	105.1
115	42.2	34.4	51.6

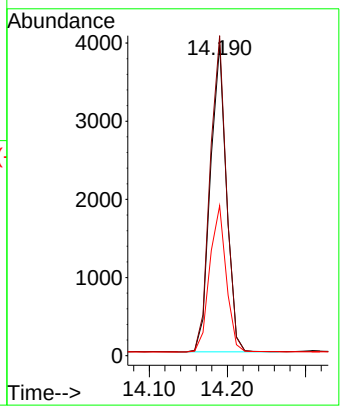




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:164 Resp: 559

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.2
160	48.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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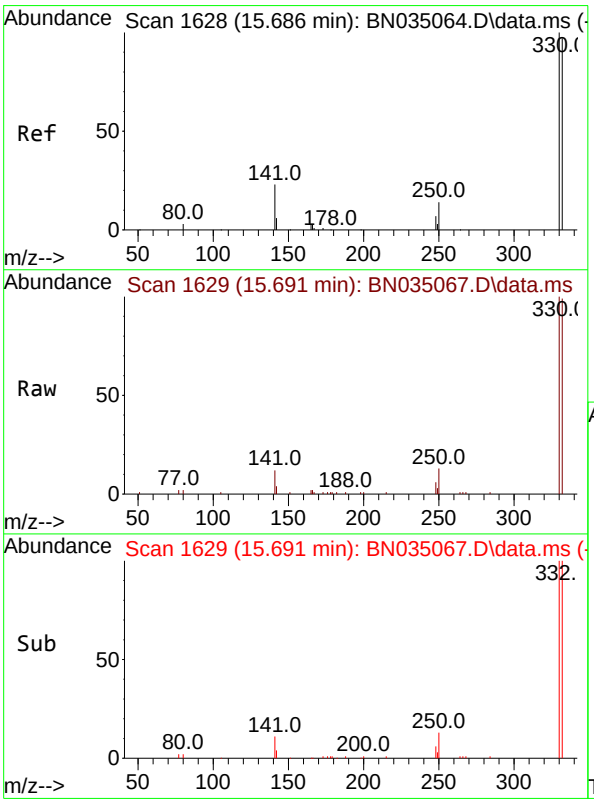
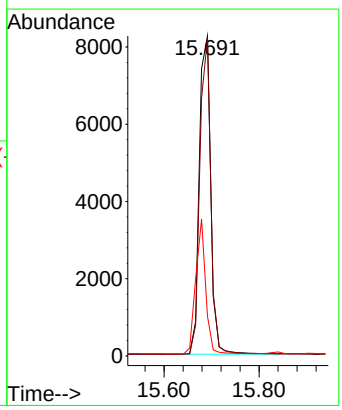
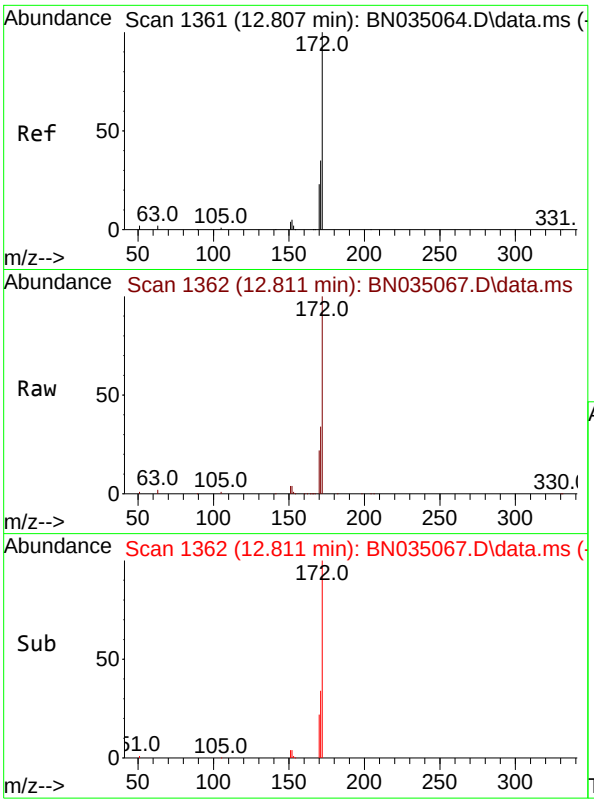


#14
2,4,6-Tribromophenol
Concen: 3.417 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:330 Resp: 13778

Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.9	115.3
141	36.6	29.6	44.4

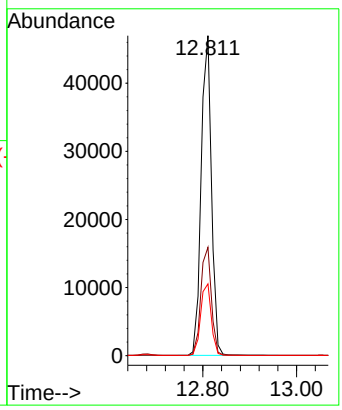




#15
2-Fluorobiphenyl
Concen: 3.150 ng
RT: 12.811 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:172 Resp: 7154

Ion	Ratio	Lower	Upper
172	100		
171	33.9	28.2	42.4
170	22.5	19.0	28.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Manual Integrations
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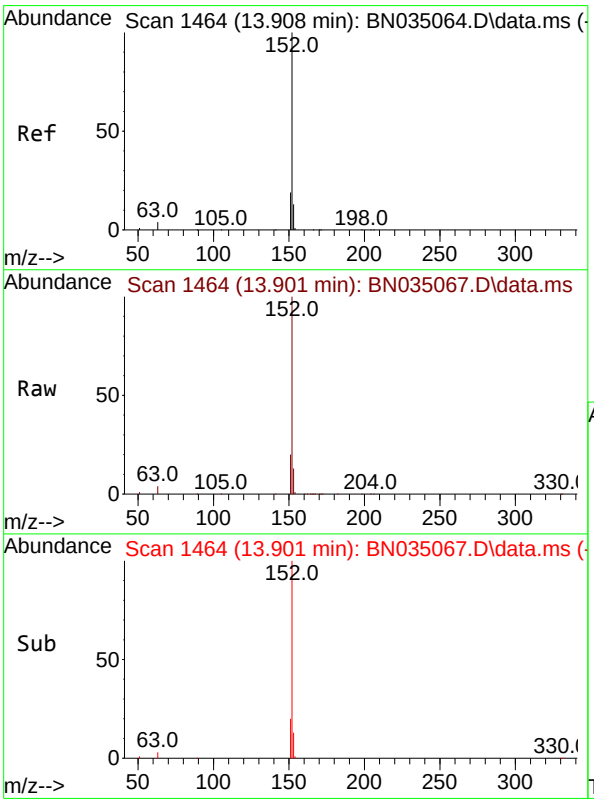
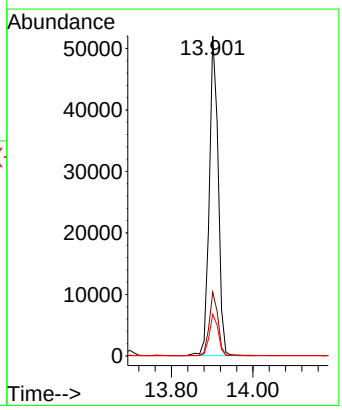
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

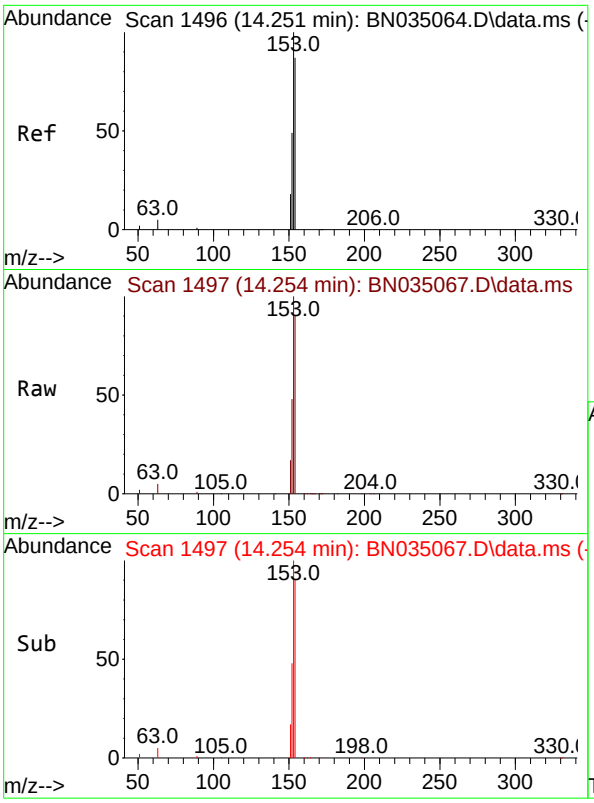


#16
Acenaphthylene
Concen: 3.286 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:152 Resp: 78553

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.8	23.8
153	13.0	10.2	15.4

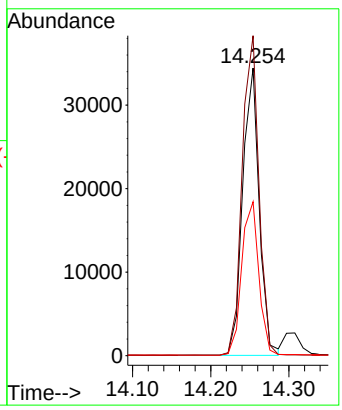




#17
Acenaphthene
Concen: 3.227 ng
RT: 14.254 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:154 Resp: 5054

Ion	Ratio	Lower	Upper
154	100		
153	112.9	91.6	137.4
152	55.6	45.8	68.6



Instrument :
BNA_N
ClientSampleId :
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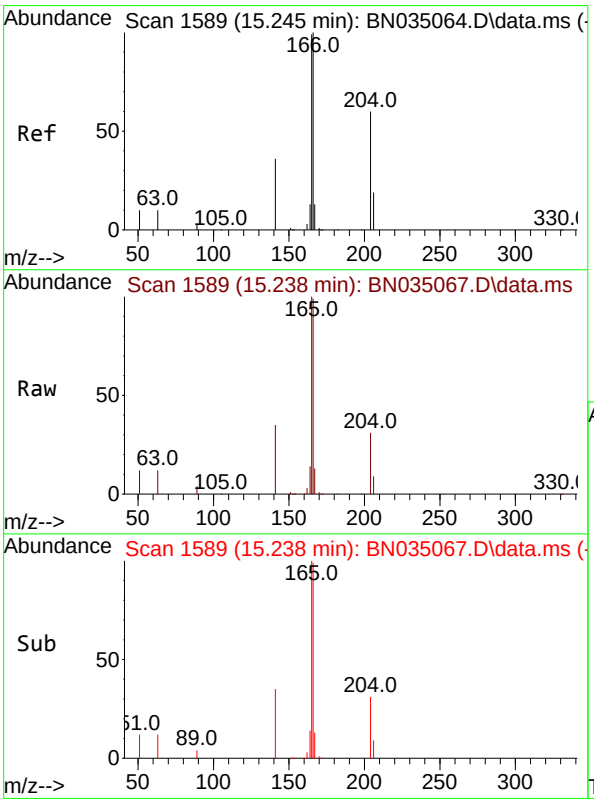
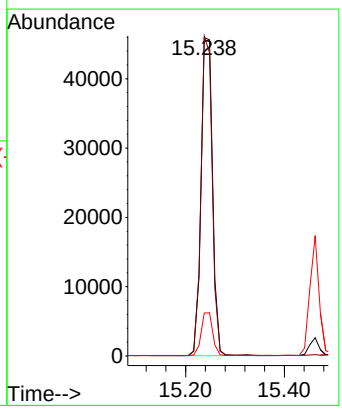
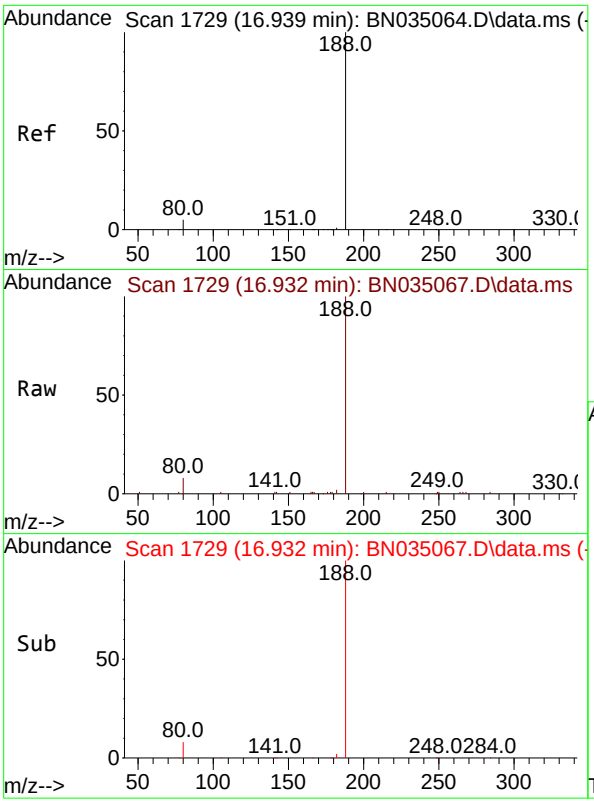


#18
Fluorene
Concen: 3.215 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:166 Resp: 74092

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.1	118.7
167	13.5	10.6	16.0

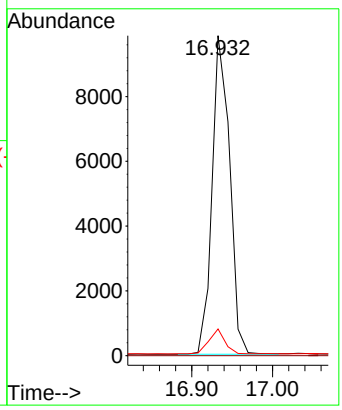




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:188 Resp: 1486

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	4.3	6.5#



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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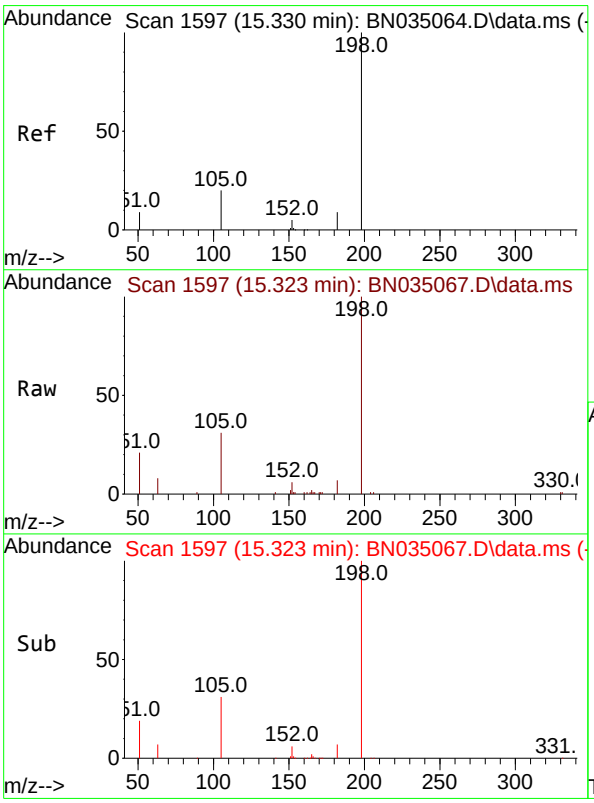
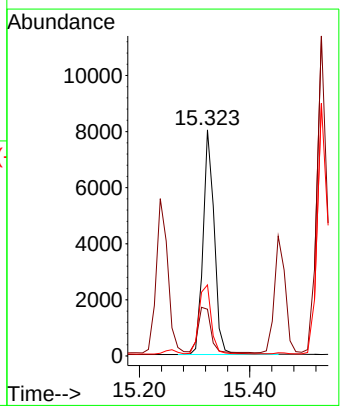
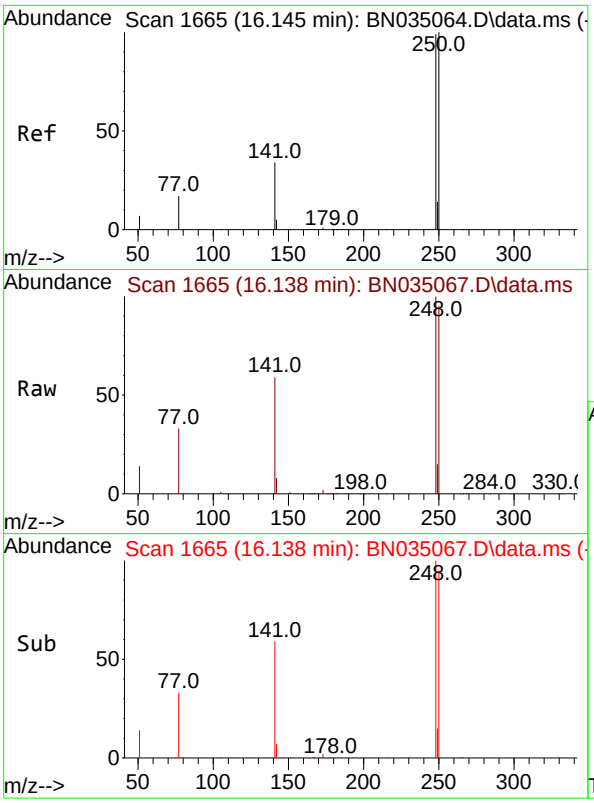


#20
4,6-Dinitro-2-methylphenol
Concen: 3.661 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:198 Resp: 11328

Ion	Ratio	Lower	Upper
198	100		
51	20.6	29.9	44.9#
105	31.4	23.7	35.5

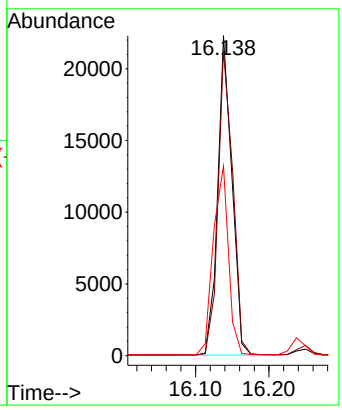




#21
4-Bromophenyl-phenylether
Concen: 3.169 ng
RT: 16.138 min Scan# 1(
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:248 Resp: 3001

Ion	Ratio	Lower	Upper
248	100		
250	95.4	81.2	121.8
141	59.2	29.1	43.7#



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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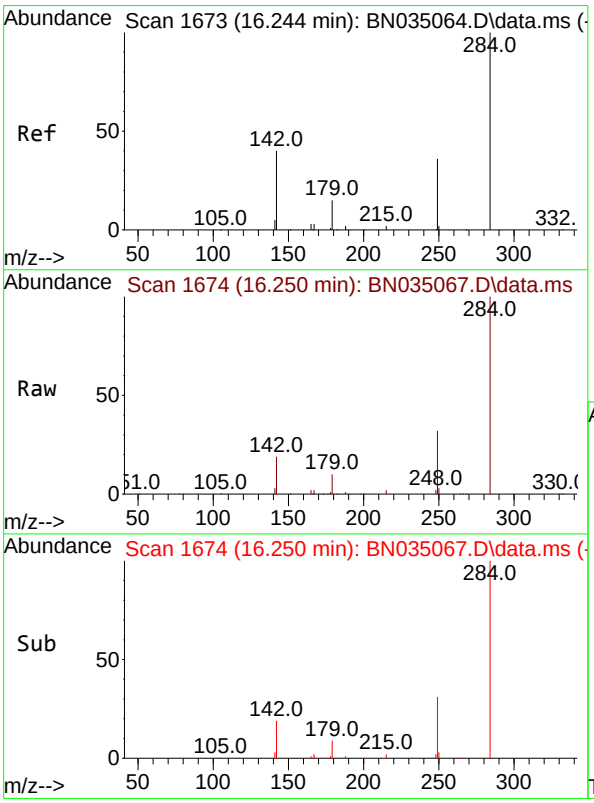
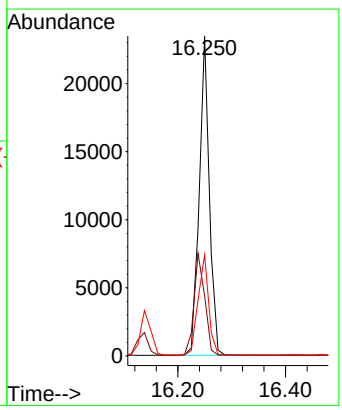
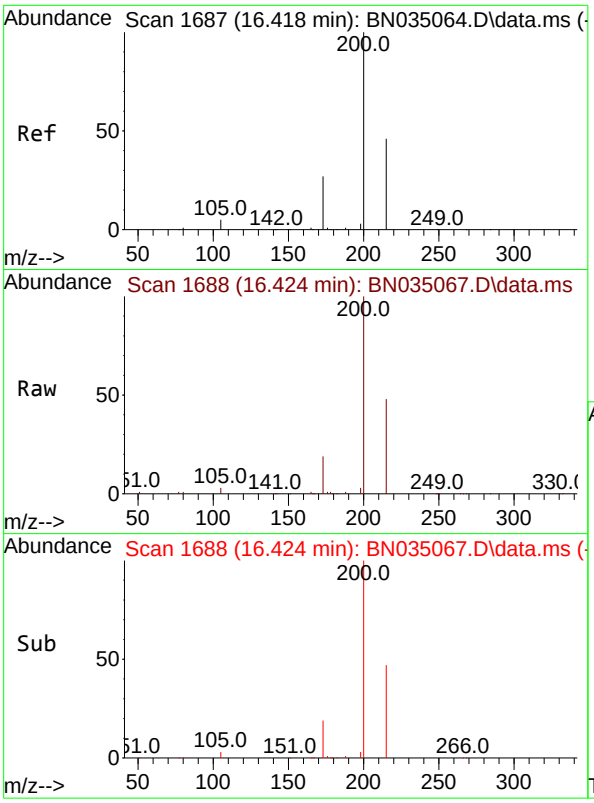


#22
Hexachlorobenzene
Concen: 3.117 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:284 Resp: 30635

Ion	Ratio	Lower	Upper
284	100		
142	33.9	28.2	42.4
249	32.8	26.2	39.2

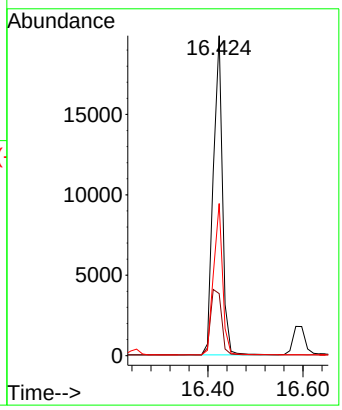




#23
Atrazine
Concen: 3.127 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:200 Resp: 2656

Ion	Ratio	Lower	Upper
200	100		
173	19.4	22.6	33.8
215	47.5	37.8	56.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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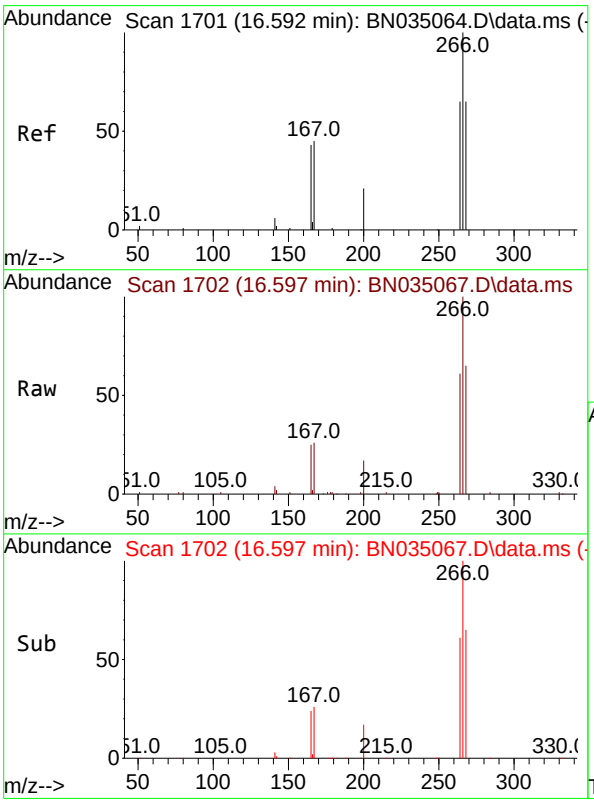
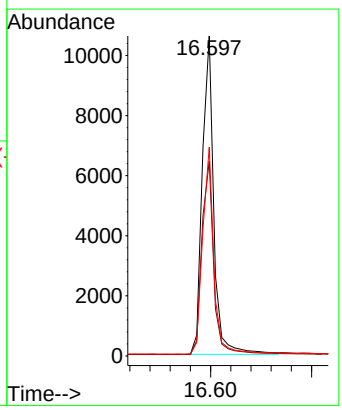
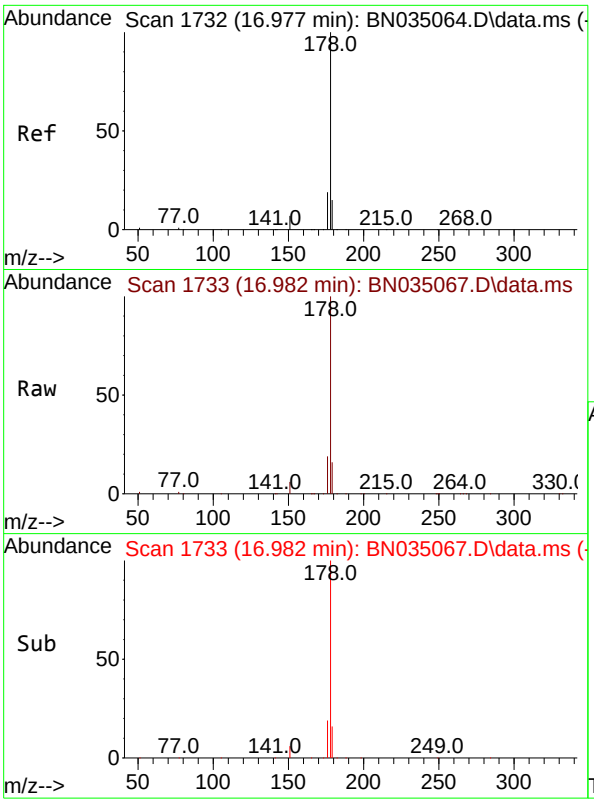


#24
Pentachlorophenol
Concen: 3.656 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:266 Resp: 16789

Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.4	74.0
268	64.0	52.6	79.0

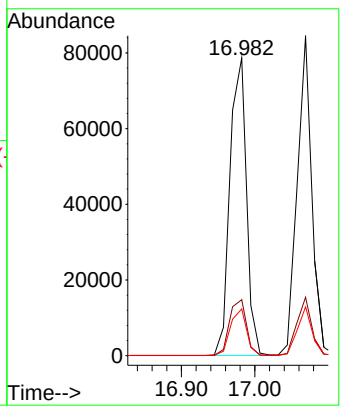




#25
Phenanthrene
Concen: 3.144 ng
RT: 16.982 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:178 Resp: 12300

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.2	22.8
179	15.3	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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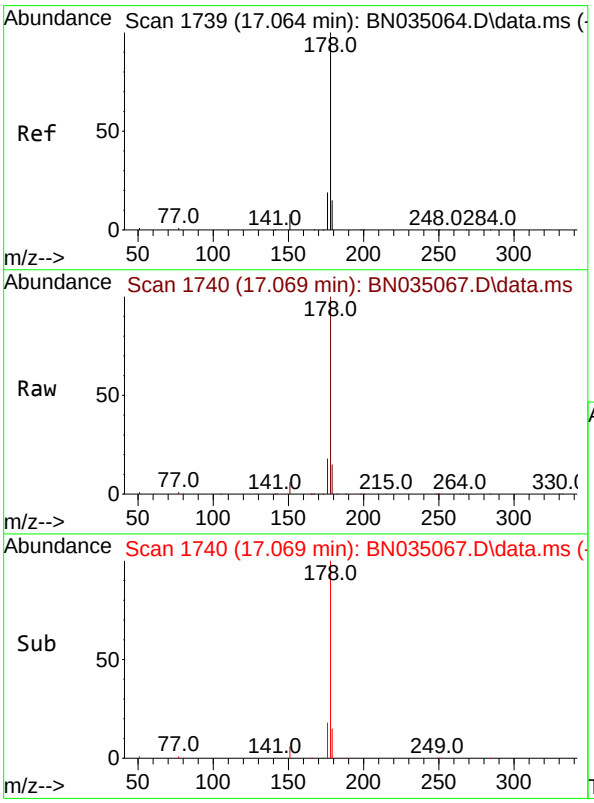
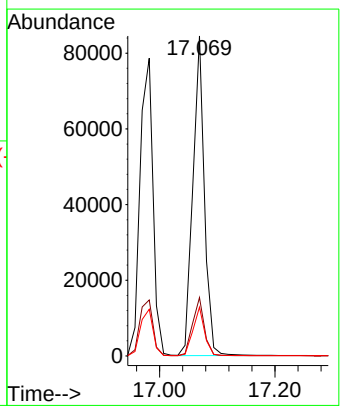
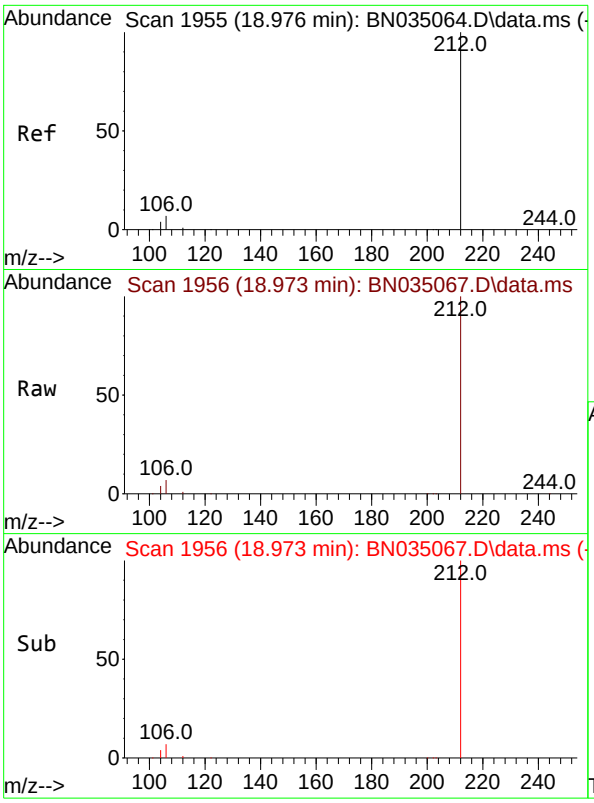


#26
Anthracene
Concen: 3.265 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:178 Resp: 117301

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.2	12.2	18.2

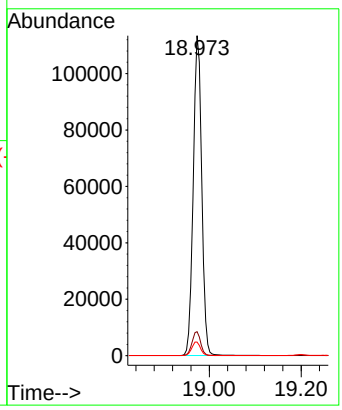




#27
Fluoranthene-d10
Concen: 3.191 ng
RT: 18.973 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:212 Resp: 14532

Ion	Ratio	Lower	Upper
212	100		
106	7.5	6.0	9.0
104	4.3	3.5	5.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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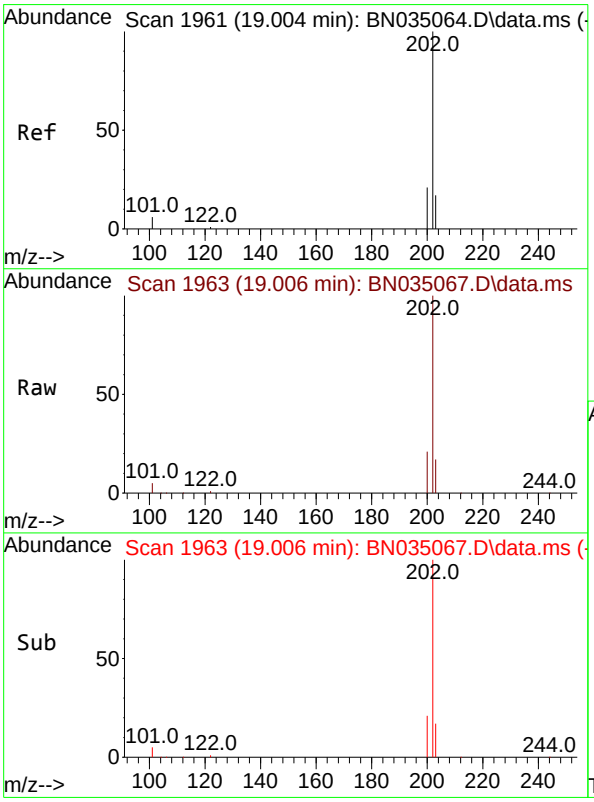
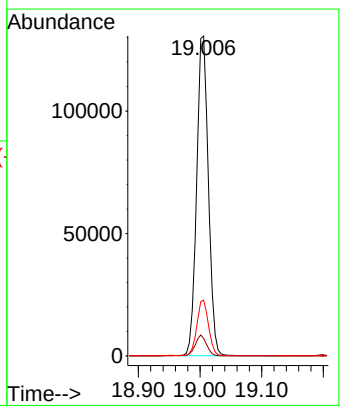
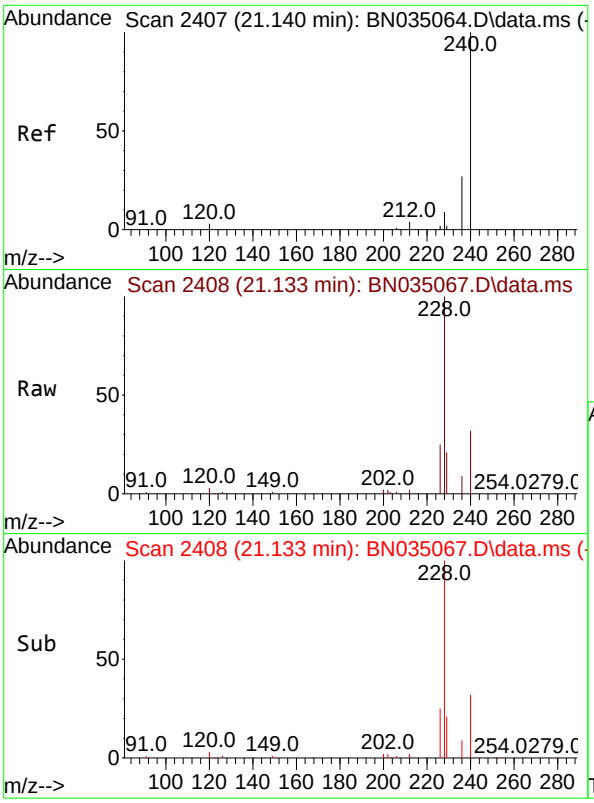


#28
Fluoranthene
Concen: 3.212 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:202 Resp: 172759

Ion	Ratio	Lower	Upper
202	100		
101	6.4	5.2	7.8
203	17.3	13.8	20.8





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:240 Resp: 1709

Ion	Ratio	Lower	Upper
240	100		
120	8.4	3.8	5.6
236	28.5	22.2	33.2

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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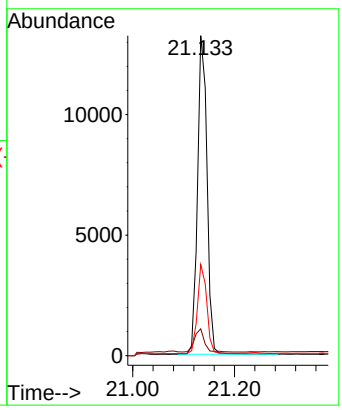
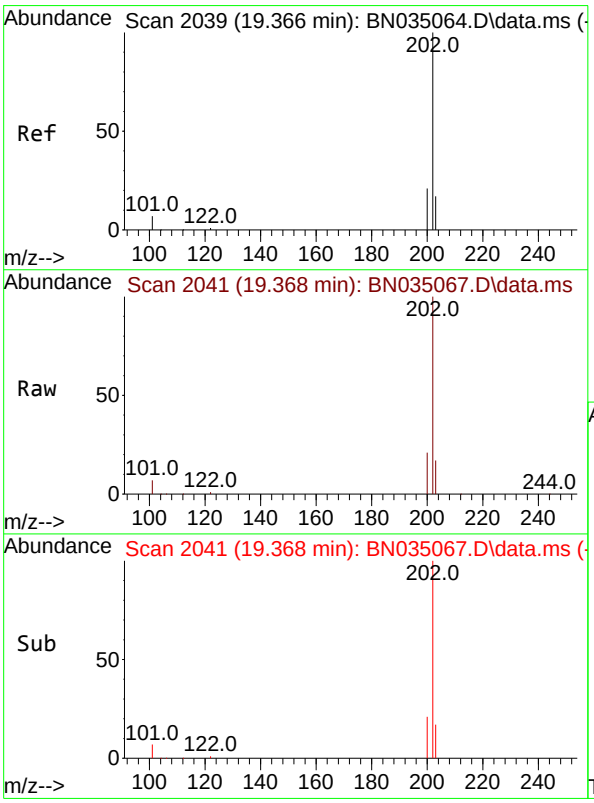
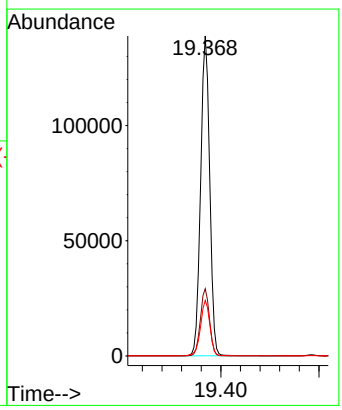


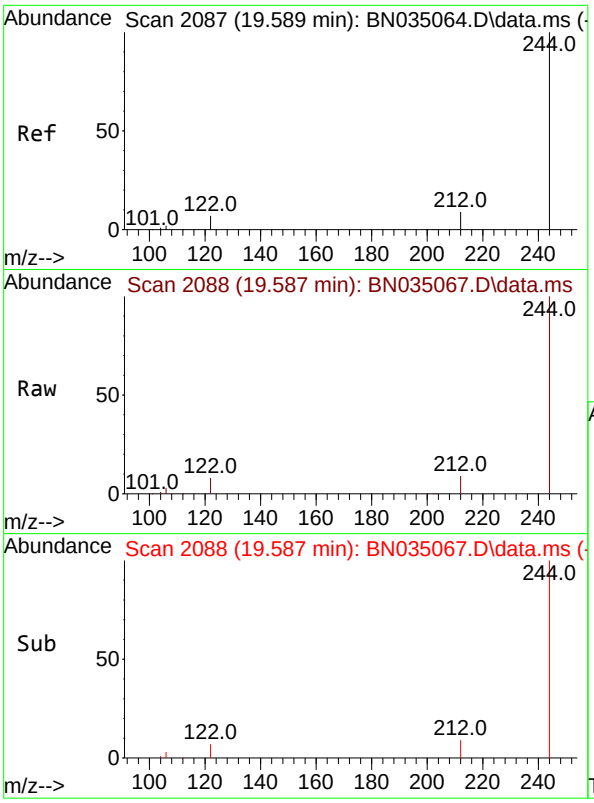


#30
Pyrene
Concen: 3.125 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:202 Resp: 177937

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4

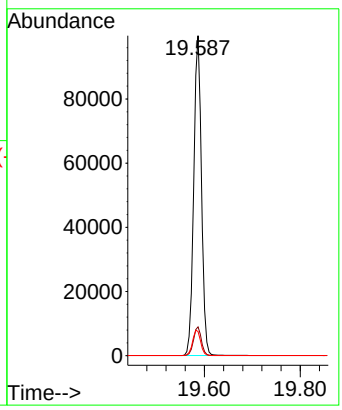




#31
Terphenyl-d14
Concen: 3.115 ng
RT: 19.587 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:244 Resp: 11173

Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.6	11.4
122	7.6	6.1	9.1



Instrument :
BNA_N
ClientSampleId :
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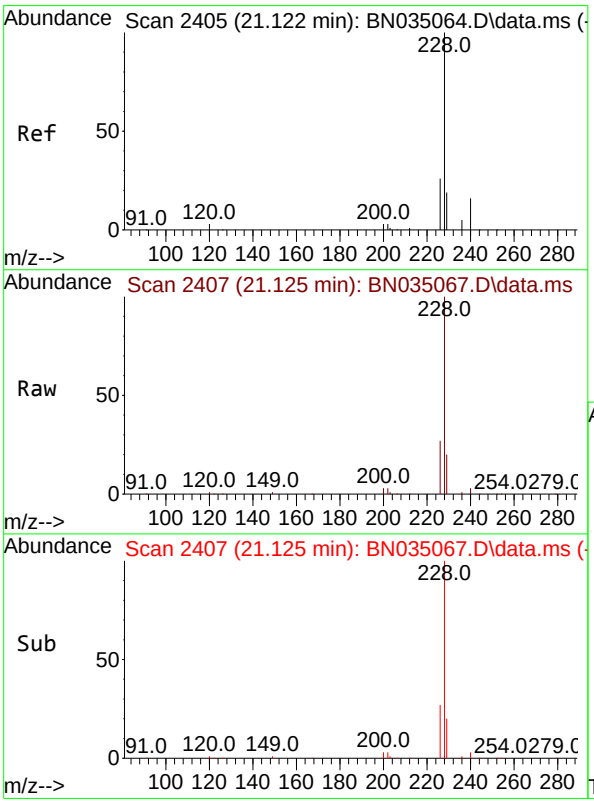
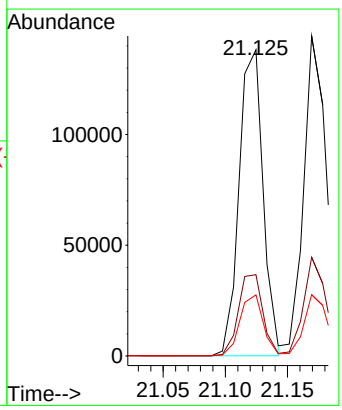
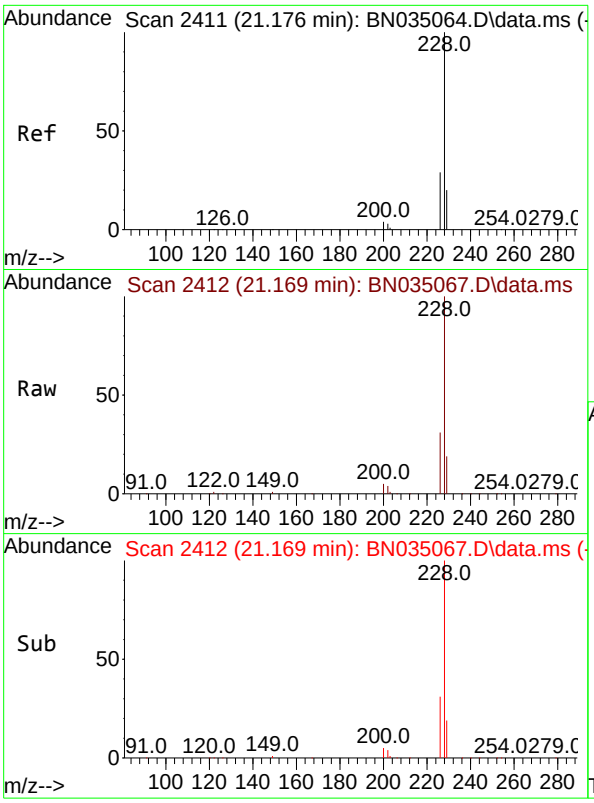


#32
Benzo(a)anthracene
Concen: 3.114 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:228 Resp: 185345

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.4	32.0
229	20.0	15.7	23.5

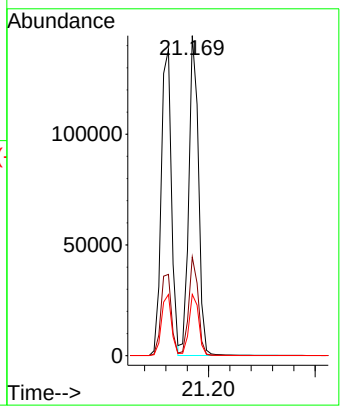




#33
Chrysene
Concen: 3.087 ng
RT: 21.169 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:228 Resp: 18205

Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.7	35.5
229	19.1	16.2	24.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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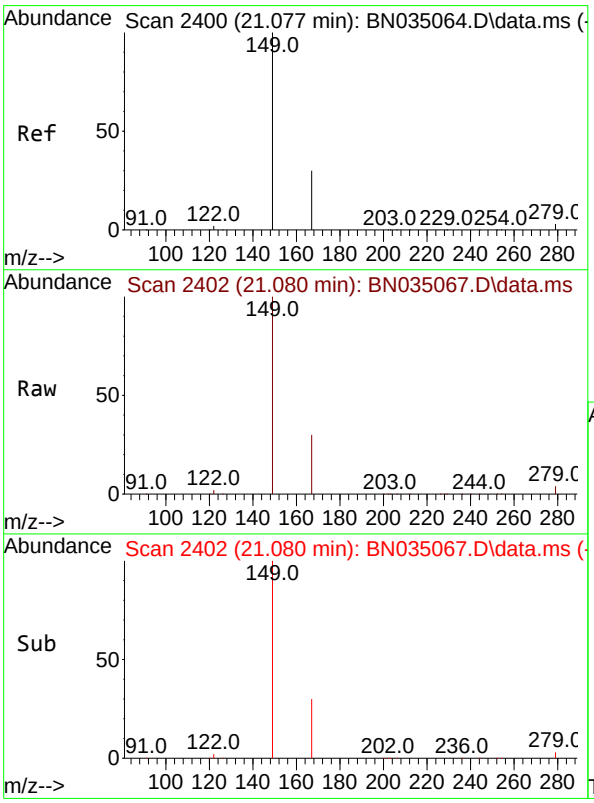
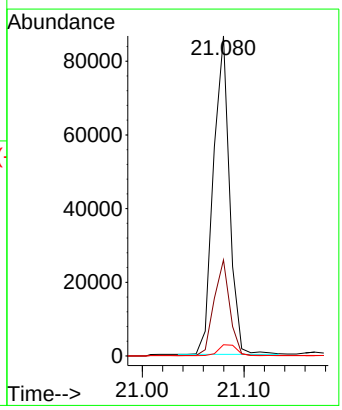
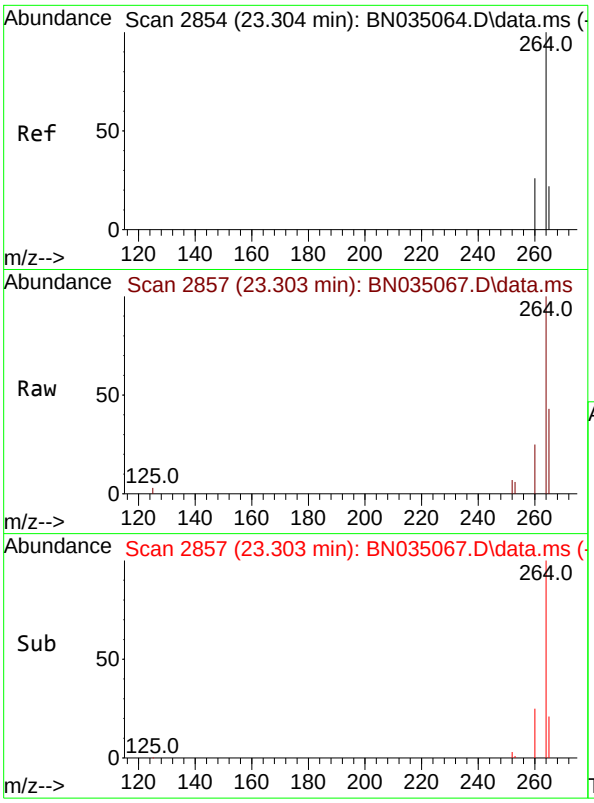


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.061 ng
RT: 21.080 min Scan# 2402
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:149 Resp: 94826

Ion	Ratio	Lower	Upper
149	100		
167	29.3	23.2	34.8
279	3.9	3.2	4.8

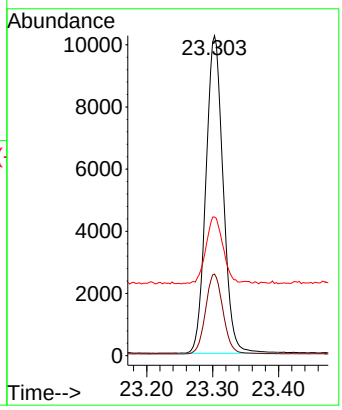




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:264 Resp: 1858

Ion	Ratio	Lower	Upper
264	100		
260	25.5	20.9	31.3
265	43.4	35.4	53.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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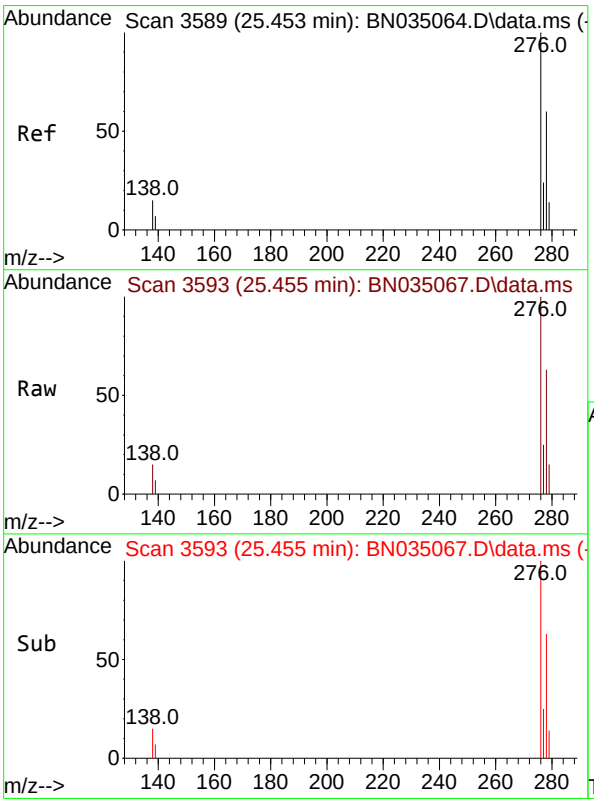
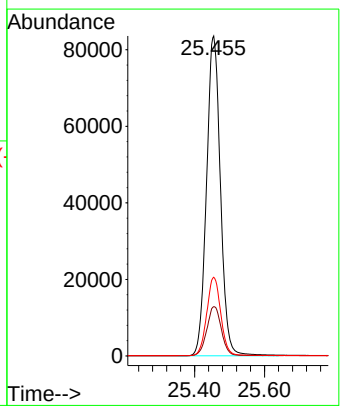
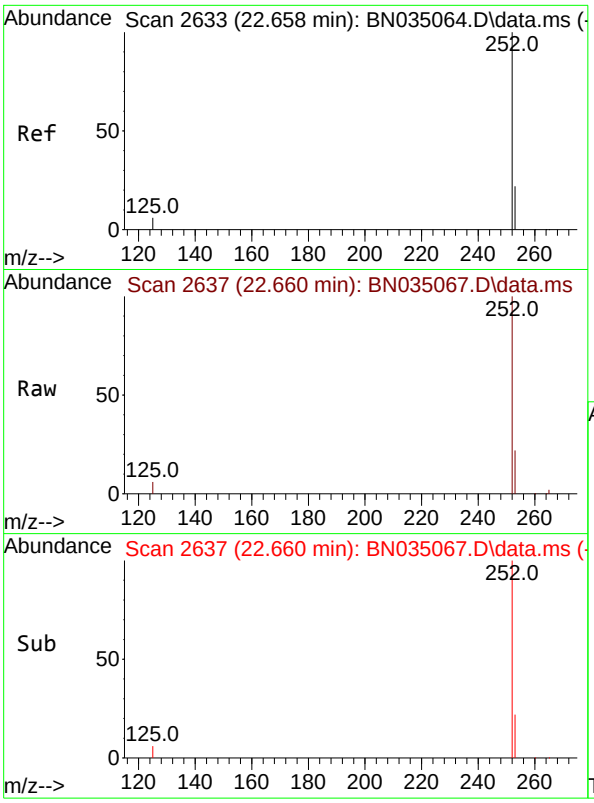


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.108 ng
RT: 25.455 min Scan# 3593
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:276 Resp: 230419

Ion	Ratio	Lower	Upper
276	100		
138	16.0	13.0	19.4
277	24.8	19.8	29.6

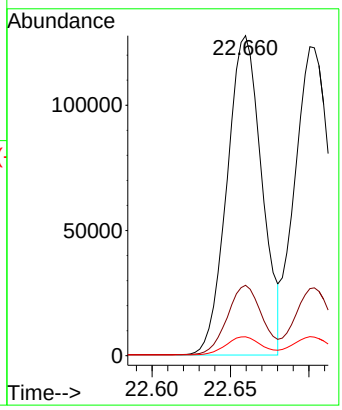




#37
Benzo(b)fluoranthene
Concen: 3.155 ng m
RT: 22.660 min Scan# 2
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:252 Resp: 19725

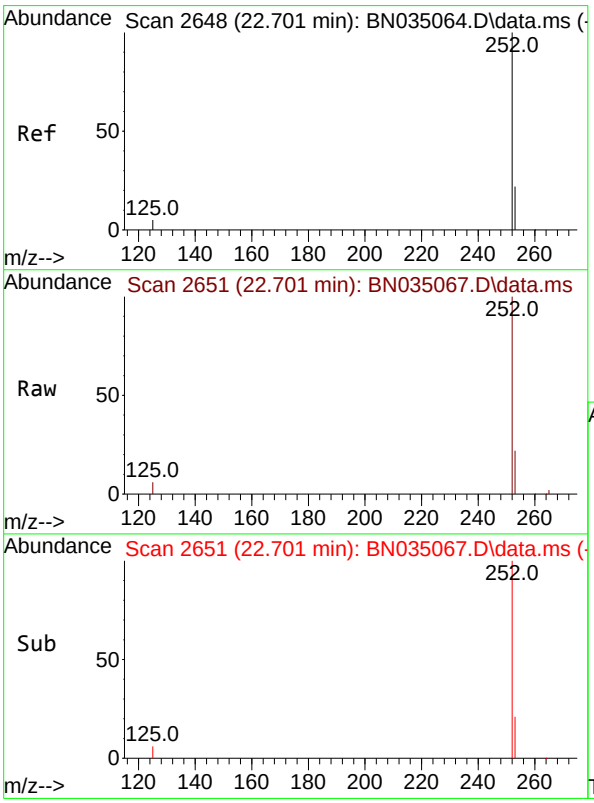
Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.3	28.9
125	5.9	6.2	9.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Manual Integrations
APPROVED

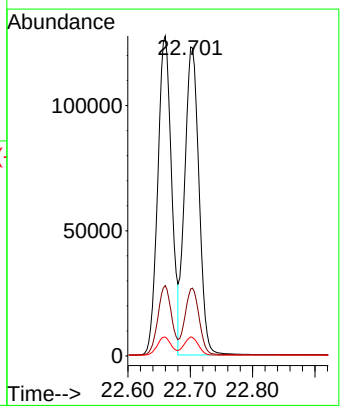
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

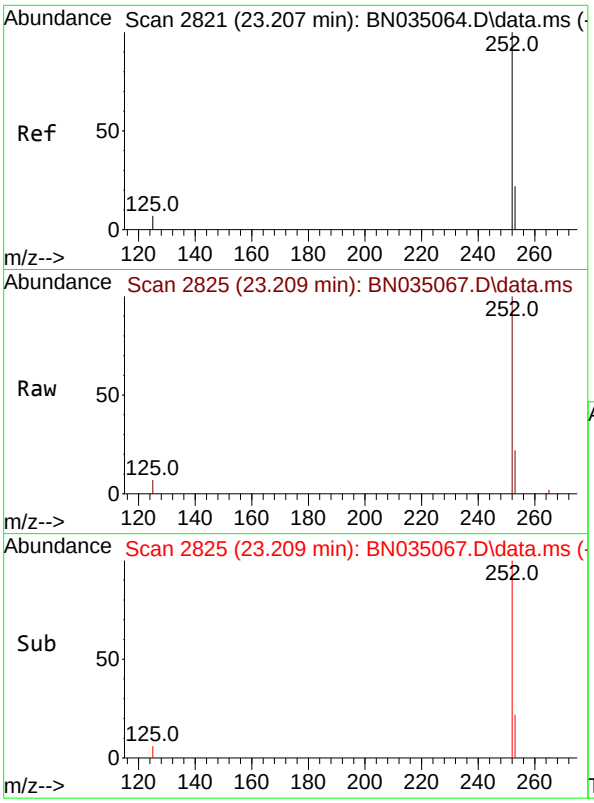


#38
Benzo(k)fluoranthene
Concen: 3.144 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:252 Resp: 196686

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.5	29.3
125	6.2	6.5	9.7#

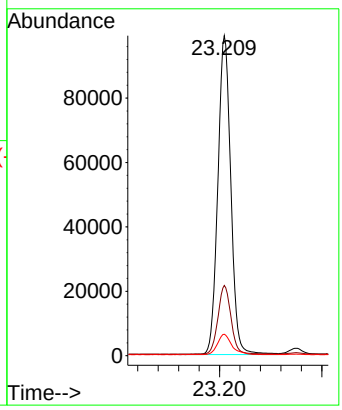




#39
Benzo(a)pyrene
Concen: 3.155 ng
RT: 23.209 min Scan# 2
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:252 Resp: 17354

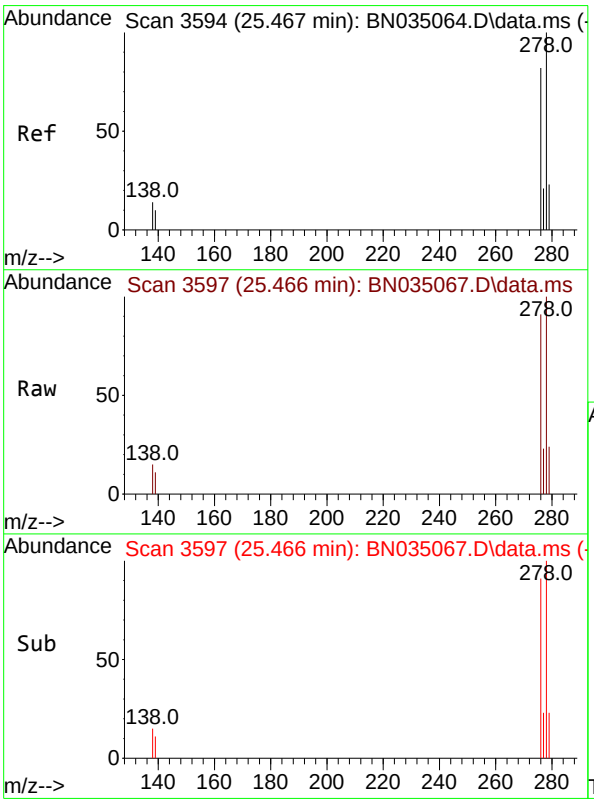
Ion	Ratio	Lower	Upper
252	100		
253	22.0	20.1	30.1
125	6.7	7.5	11.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Manual Integrations
APPROVED

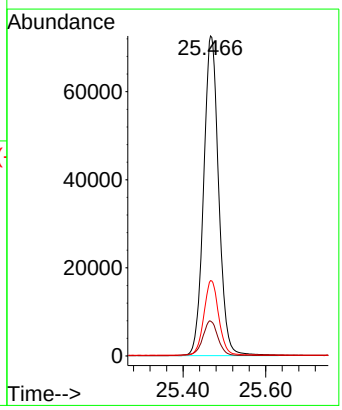
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

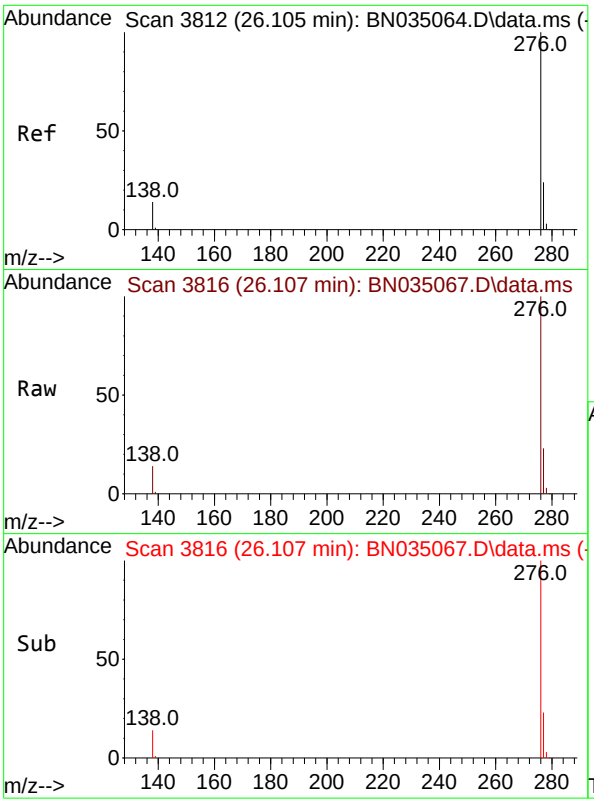


#40
Dibenzo(a,h)anthracene
Concen: 3.127 ng
RT: 25.466 min Scan# 3597
Delta R.T. -0.001 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:278 Resp: 183641

Ion	Ratio	Lower	Upper
278	100		
139	10.9	9.3	13.9
279	23.6	19.7	29.5

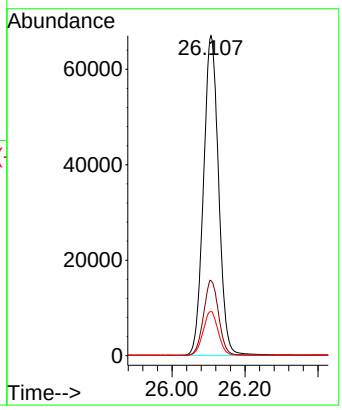




#41
Benzo(g,h,i)perylene
Concen: 3.079 ng
RT: 26.107 min Scan# 3
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:276 Resp: 19234

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.9	29.9
138	13.8	11.6	17.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035068.D
Acq On : 13 Nov 2024 16:15
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 13 16:45:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	3163	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	8134	0.400	ng		0.00
13) Acenaphthene-d10	14.190	164	6225	0.400	ng		0.00
19) Phenanthrene-d10	16.932	188	16809	0.400	ng	#	0.00
29) Chrysene-d12	21.133	240	19216	0.400	ng	#	0.00
35) Perylene-d12	23.303	264	20465	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	37993	4.732	ng		0.00
5) Phenol-d6	6.737	99	50689	5.035	ng		0.00
8) Nitrobenzene-d5	8.685	82	35941	5.091	ng		-0.01
11) 2-Methylnaphthalene-d10	11.912	152	74330	5.128	ng		0.00
14) 2,4,6-Tribromophenol	15.691	330	25763	5.740	ng		0.00
15) 2-Fluorobiphenyl	12.811	172	125581	4.967	ng		0.00
27) Fluoranthene-d10	18.973	212	260540	5.059	ng		0.00
31) Terphenyl-d14	19.587	244	199585	4.950	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.169	88	13024	4.533	ng		99
3) n-Nitrosodimethylamine	3.465	42	12737	4.774	ng	#	94
6) bis(2-Chloroethyl)ether	6.990	93	36728	4.860	ng		99
9) Naphthalene	10.361	128	104370	4.914	ng		97
10) Hexachlorobutadiene	10.660	225	29615	4.757	ng	#	99
12) 2-Methylnaphthalene	11.988	142	80182	5.118	ng		98
16) Acenaphthylene	13.901	152	139668	5.250	ng		100
17) Acenaphthene	14.254	154	89181	5.115	ng		98
18) Fluorene	15.238	166	129071	5.033	ng		99
20) 4,6-Dinitro-2-methylph...	15.323	198	22059	6.304	ng	#	82
21) 4-Bromophenyl-phenylether	16.138	248	52850	4.935	ng	#	85
22) Hexachlorobenzene	16.250	284	54126	4.870	ng		99
23) Atrazine	16.423	200	47349	4.928	ng	#	93
24) Pentachlorophenol	16.597	266	32339	6.228	ng		98
25) Phenanthrene	16.982	178	217781	4.923	ng		99
26) Anthracene	17.069	178	210303	5.176	ng		100
28) Fluoranthene	19.006	202	305283	5.019	ng		100
30) Pyrene	19.368	202	316225	4.942	ng		100
32) Benzo(a)anthracene	21.124	228	335437	5.013	ng		100
33) Chrysene	21.169	228	317200	4.786	ng		97
34) Bis(2-ethylhexyl)phtha...	21.080	149	178320	5.121	ng		99
36) Indeno(1,2,3-cd)pyrene	25.455	276	405401	4.966	ng		100
37) Benzo(b)fluoranthene	22.660	252	347639	5.049	ng	#	95
38) Benzo(k)fluoranthene	22.703	252	347310	5.041	ng	#	95
39) Benzo(a)pyrene	23.209	252	308664	5.094	ng	#	93
40) Dibenzo(a,h)anthracene	25.469	278	323522	5.002	ng		98
41) Benzo(g,h,i)perylene	26.107	276	339655	4.937	ng		98

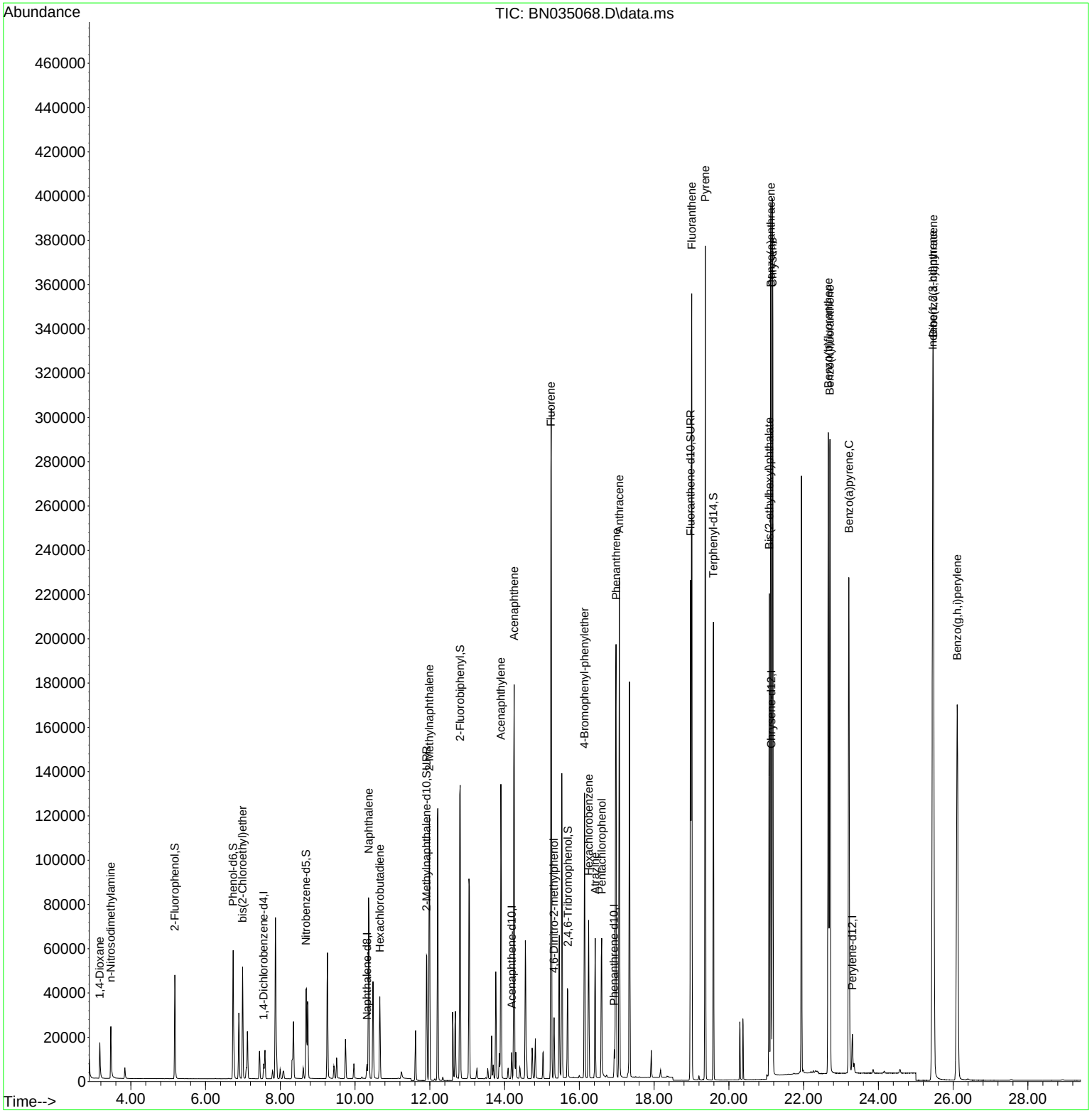
(#) = qualifier out of range (m) = manual integration (+) = signals summed

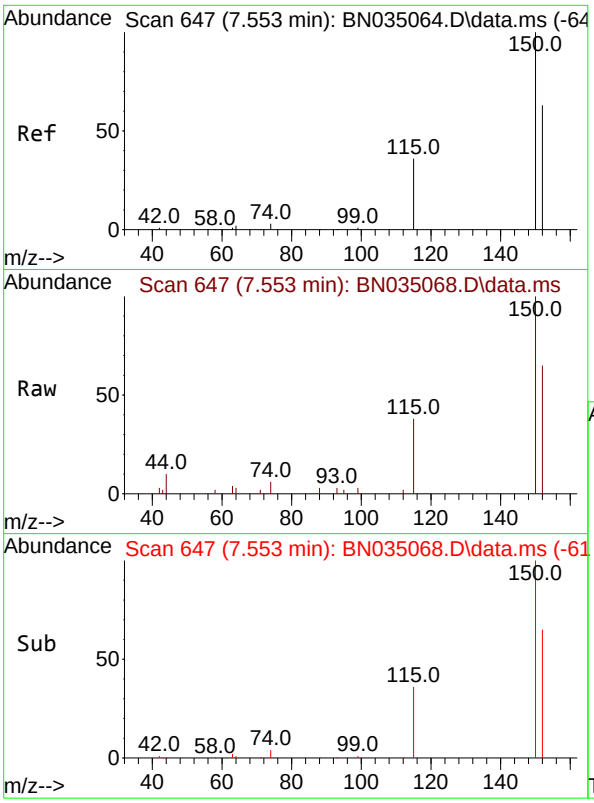
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035068.D
Acq On : 13 Nov 2024 16:15
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 13 16:45:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



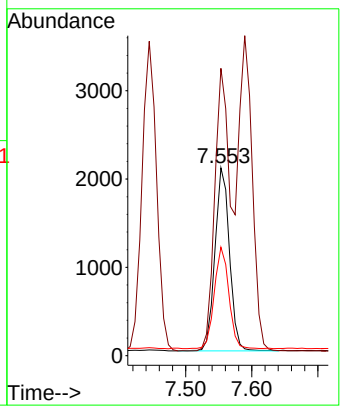


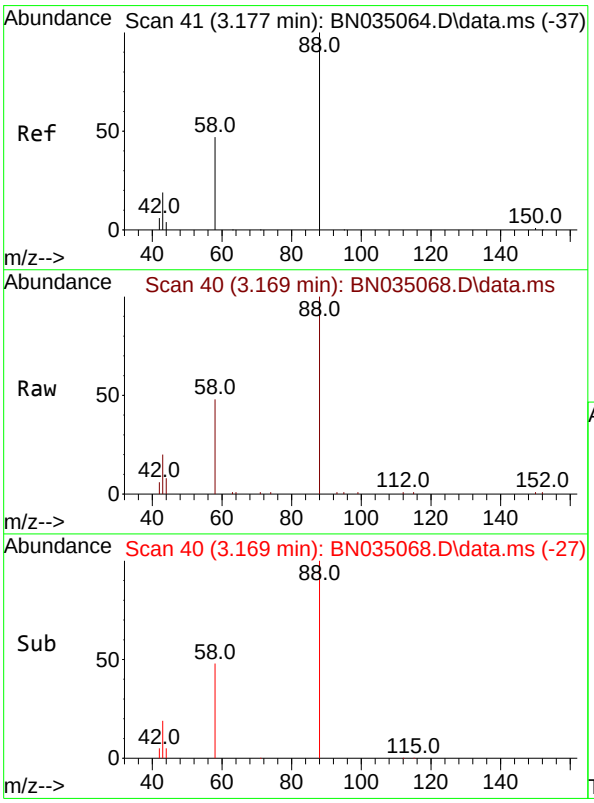
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 3163

Ion	Ratio	Lower	Upper
152	100		
150	152.9	124.5	186.7
115	57.7	47.8	71.6

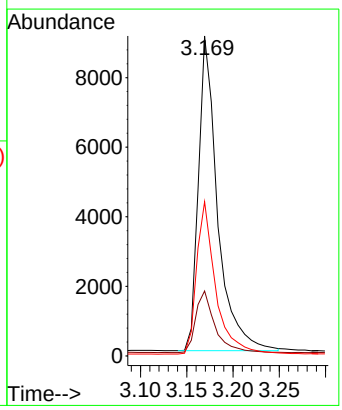


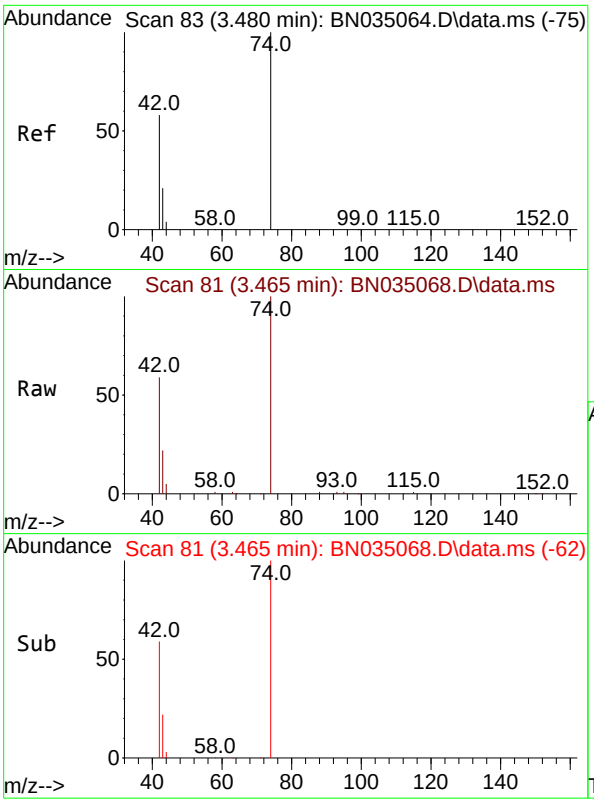


#2
1,4-Dioxane
Concen: 4.533 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 88 Resp: 13024

Ion	Ratio	Lower	Upper
88	100		
43	19.6	16.9	25.3
58	48.2	39.0	58.4



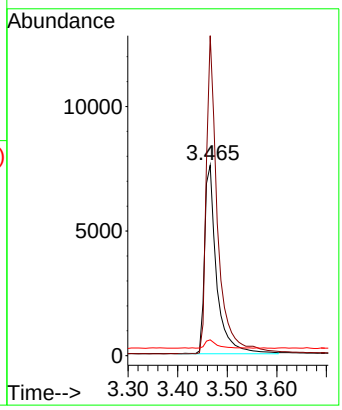


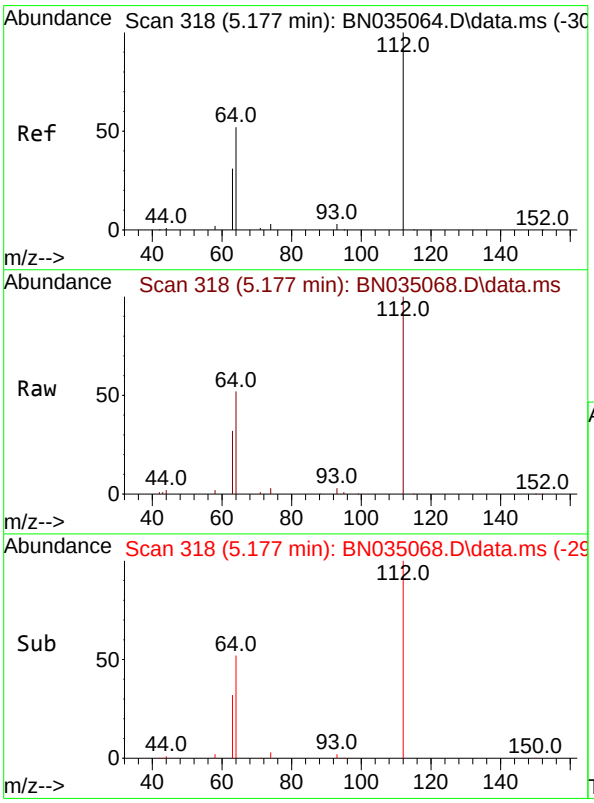
#3
n-Nitrosodimethylamine
Concen: 4.774 ng
RT: 3.465 min Scan# 8
Delta R.T. -0.015 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 12737

Ion	Ratio	Lower	Upper
42	100		
74	159.1	120.8	181.2
44	4.4	2.9	4.3#

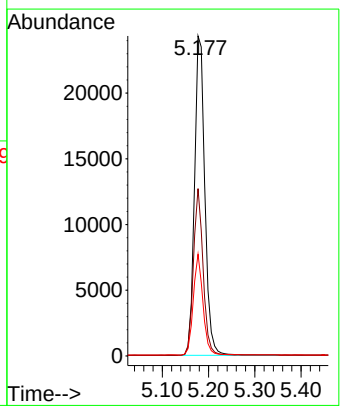


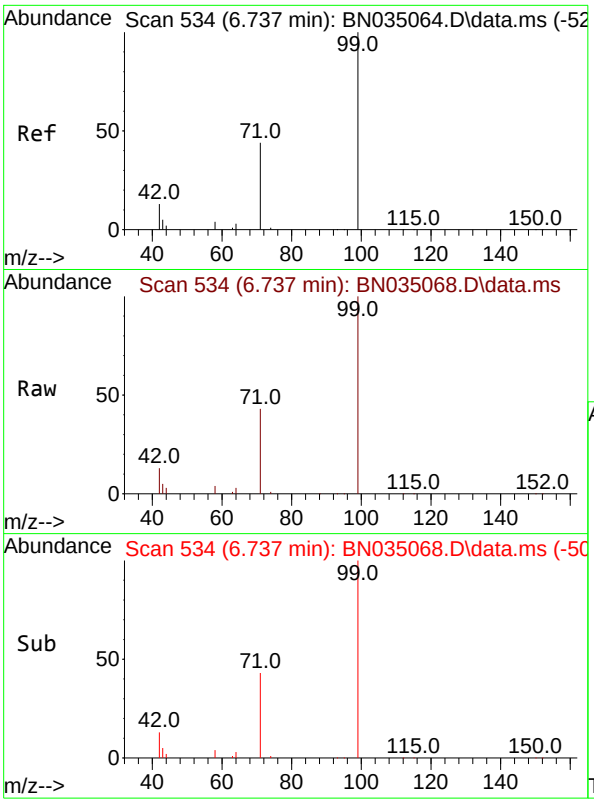


#4
2-Fluorophenol
Concen: 4.732 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:112 Resp: 37993

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.7	59.5
63	29.4	23.0	34.4



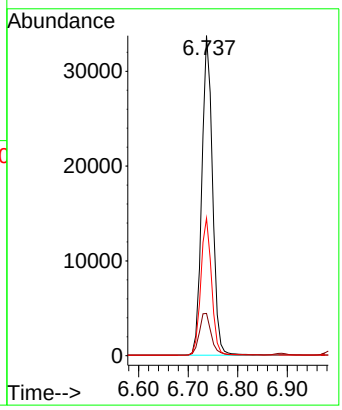


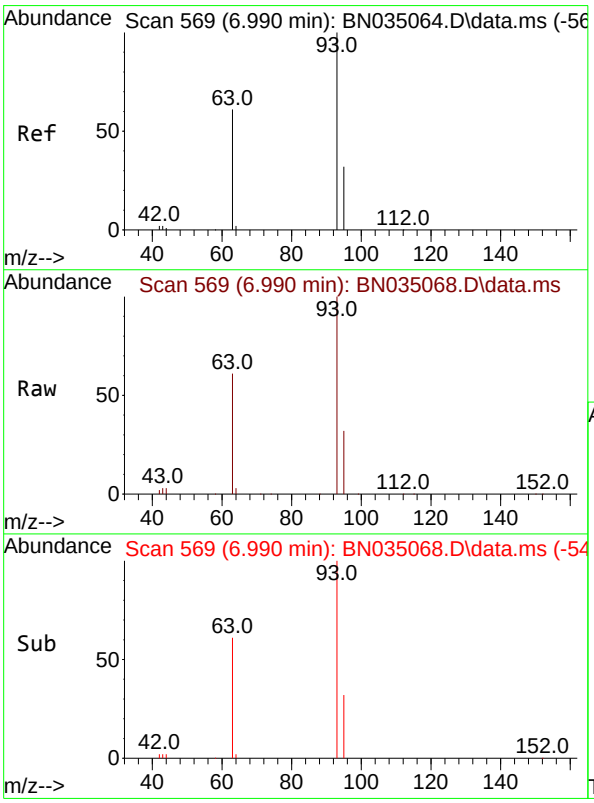
#5
Phenol-d6
Concen: 5.035 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 50689

Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.0
71	43.2	34.6	51.8

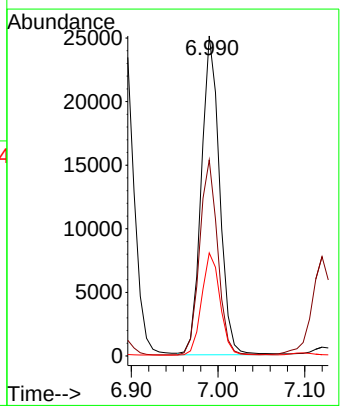


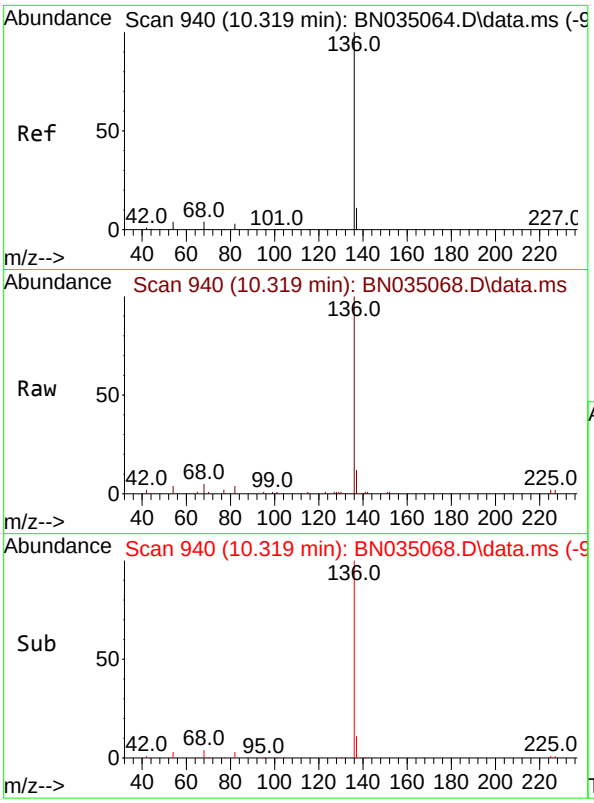


#6
bis(2-Chloroethyl)ether
Concen: 4.860 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 93 Resp: 36728

Ion	Ratio	Lower	Upper
93	100		
63	60.5	47.4	71.2
95	32.3	26.2	39.4



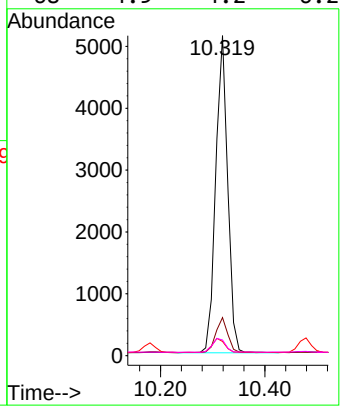


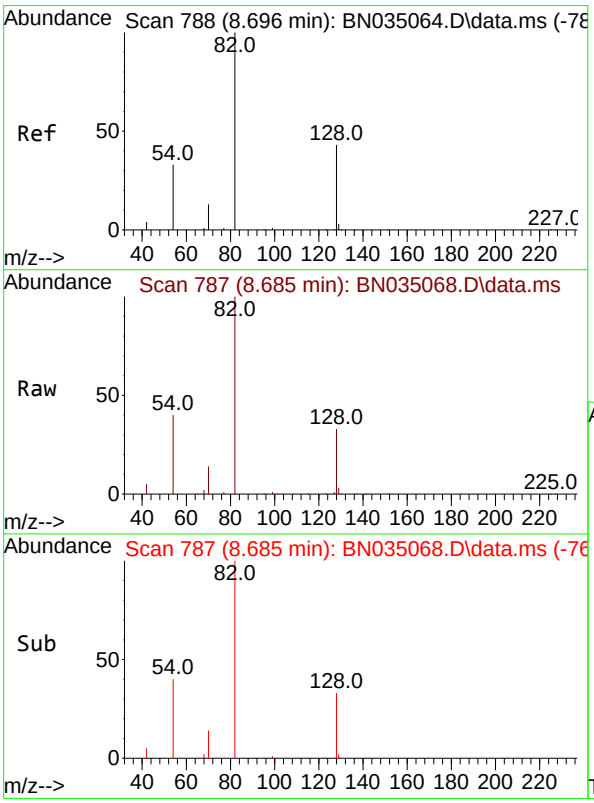
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 8134

Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	4.4	4.0	6.0
68	4.9	4.2	6.2

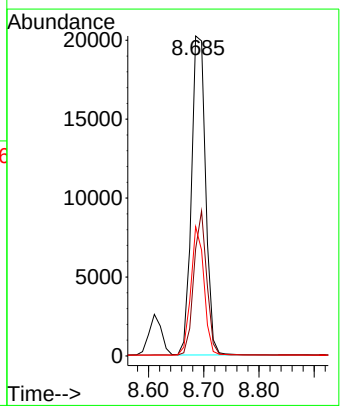


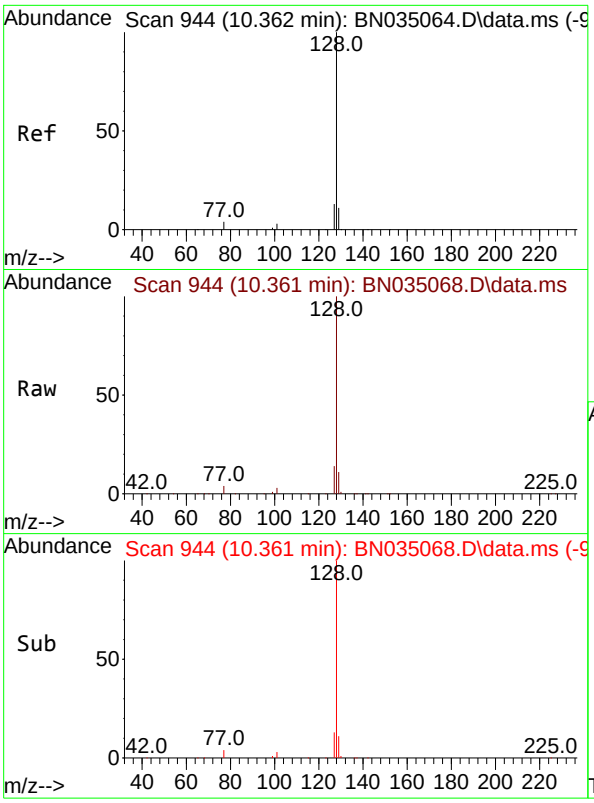


#8
Nitrobenzene-d5
Concen: 5.091 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 82 Resp: 35941

Ion	Ratio	Lower	Upper
82	100		
128	33.5	36.5	54.7#
54	40.4	28.7	43.1



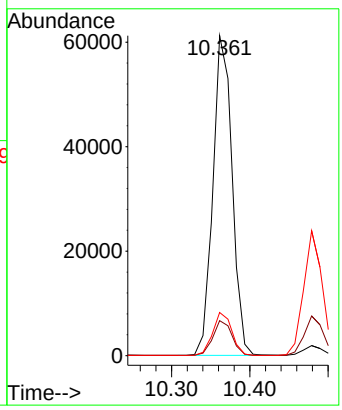


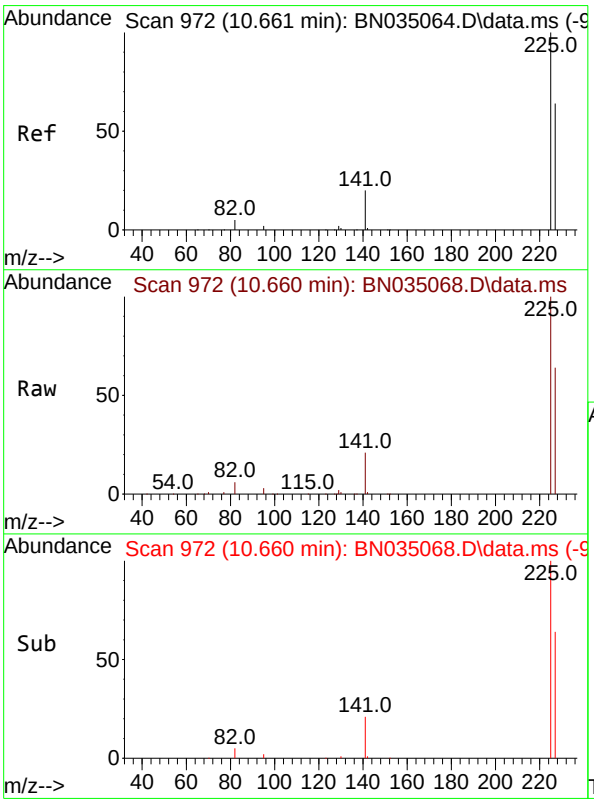
#9
Naphthalene
Concen: 4.914 ng
RT: 10.361 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 104370

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.6	14.4
127	13.5	11.6	17.4

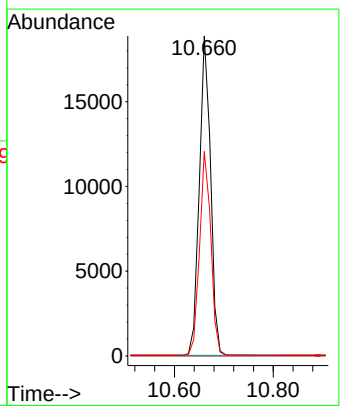


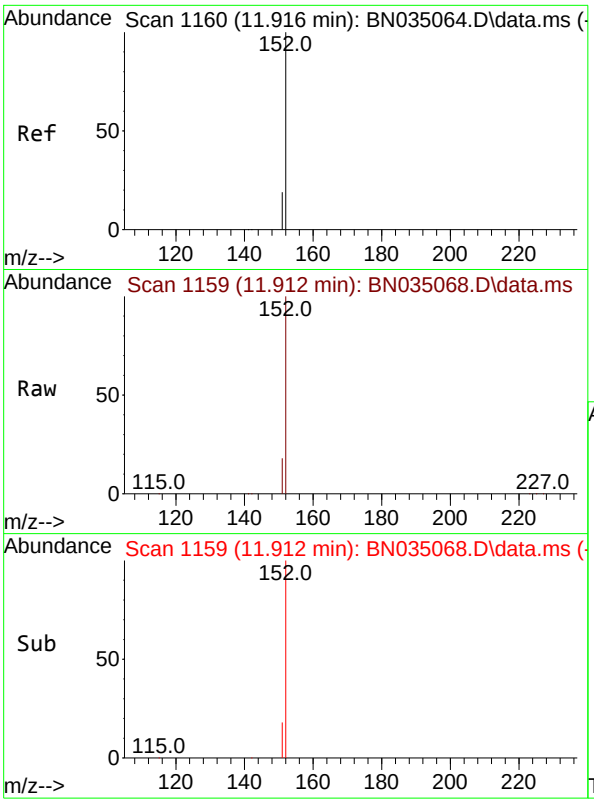


#10
Hexachlorobutadiene
Concen: 4.757 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:225 Resp: 29615

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.5	77.3



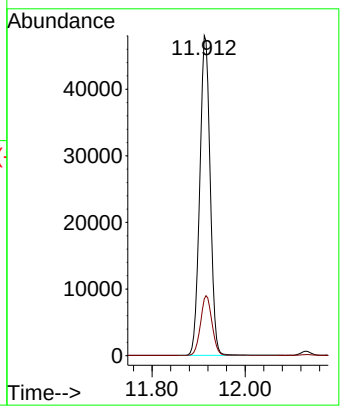


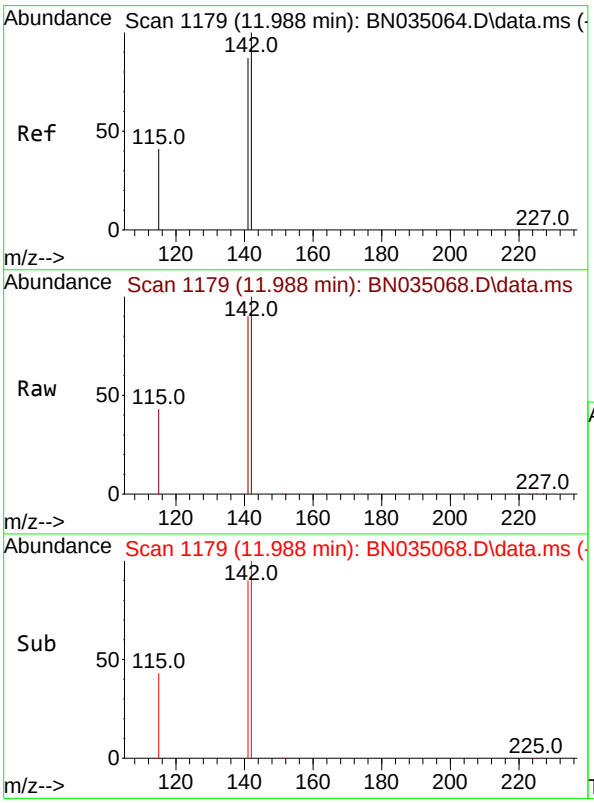
#11
2-Methylnaphthalene-d10
Concen: 5.128 ng
RT: 11.912 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 74330

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4

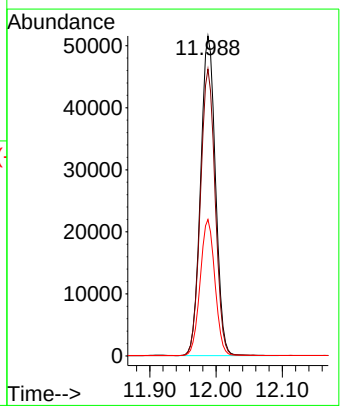


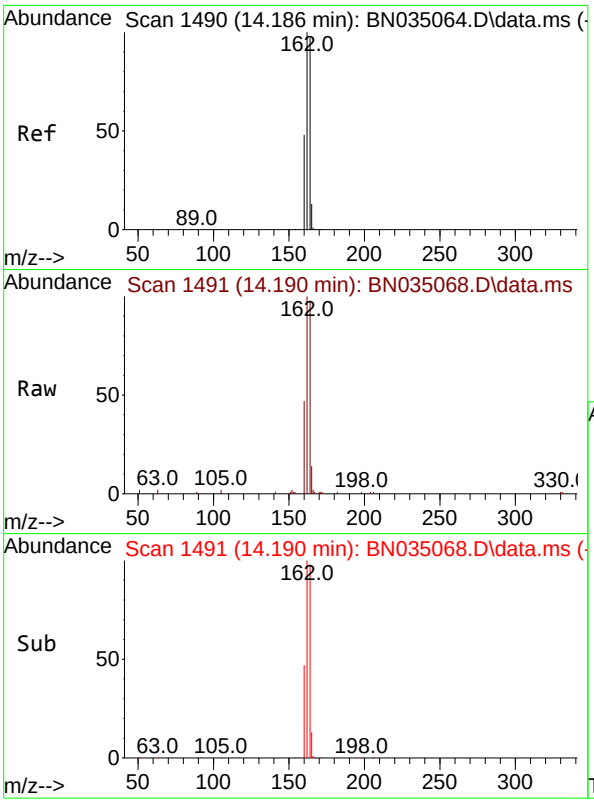


#12
2-Methylnaphthalene
Concen: 5.118 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:142 Resp: 80182

Ion	Ratio	Lower	Upper
142	100		
141	89.7	70.1	105.1
115	42.7	34.4	51.6



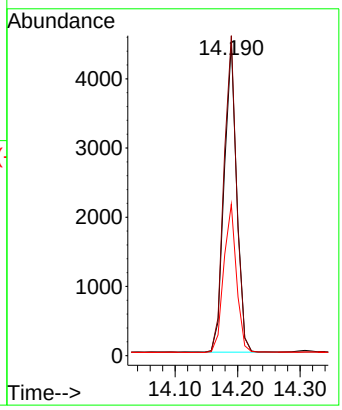


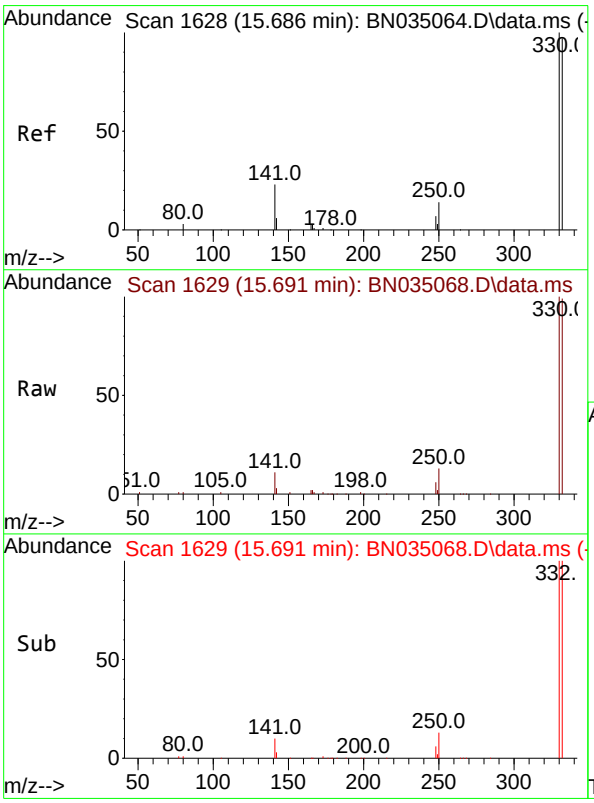
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 6225

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	48.4	40.2	60.4

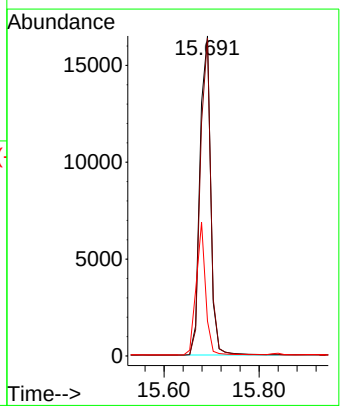


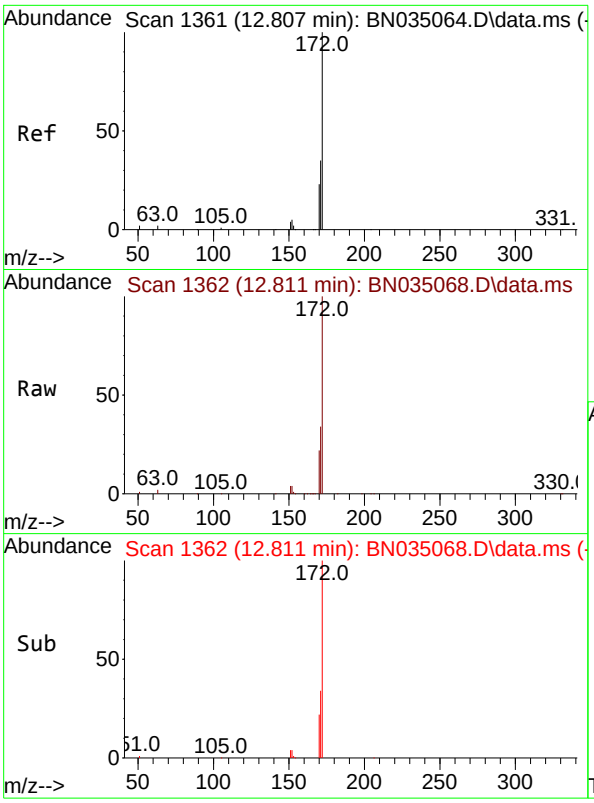


#14
2,4,6-Tribromophenol
Concen: 5.740 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:330 Resp: 25763

Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.9	115.3
141	36.4	29.6	44.4



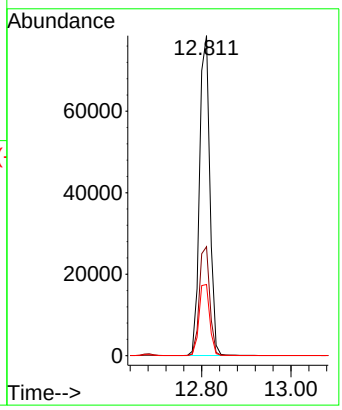


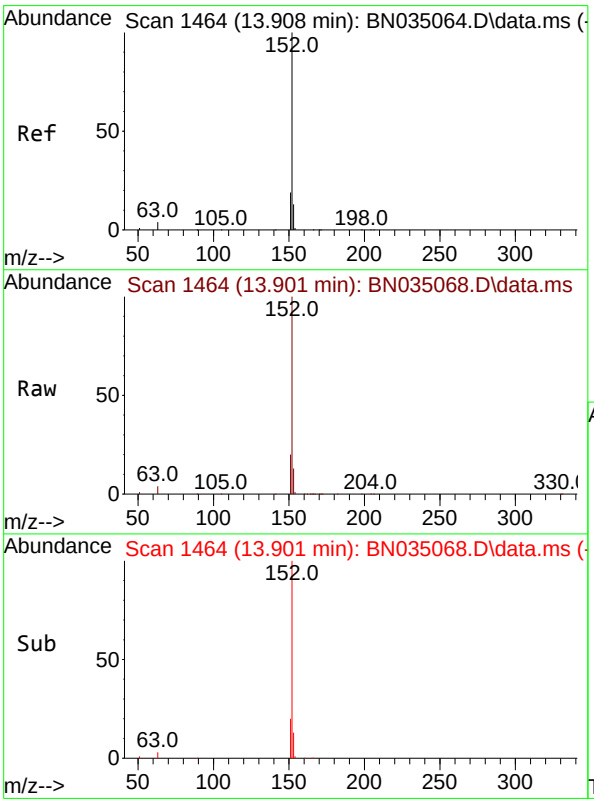
#15
2-Fluorobiphenyl
Concen: 4.967 ng
RT: 12.811 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 125581

Ion	Ratio	Lower	Upper
172	100		
171	34.1	28.2	42.4
170	22.3	19.0	28.6

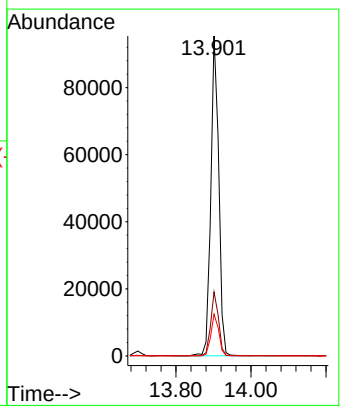


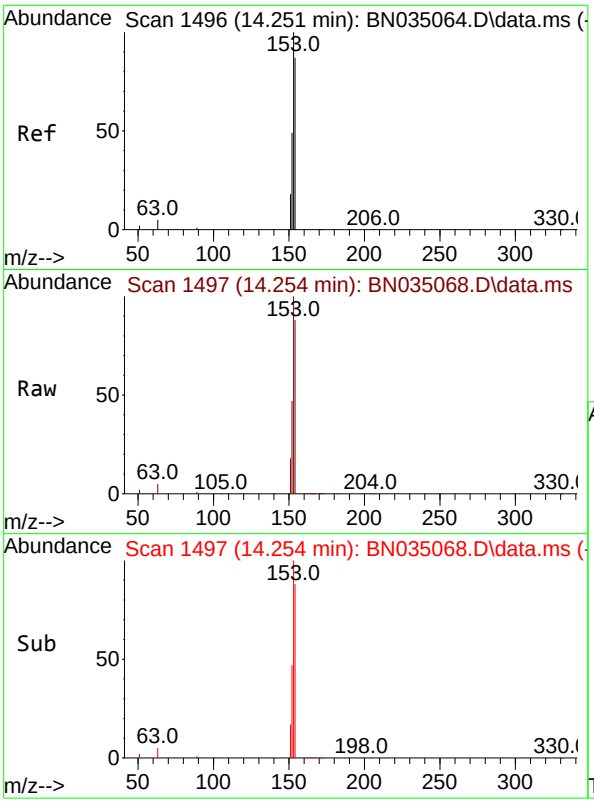


#16
Acenaphthylene
Concen: 5.250 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:152 Resp: 139668

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.0	10.2	15.4



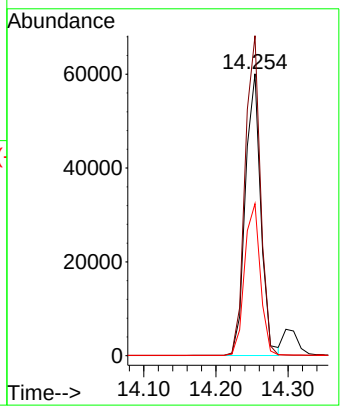


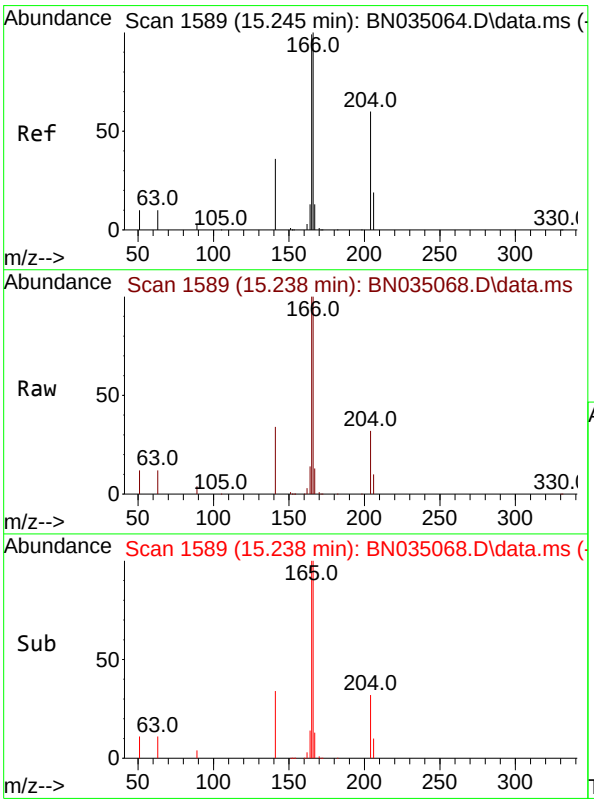
#17
Acenaphthene
Concen: 5.115 ng
RT: 14.254 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 89181

Ion	Ratio	Lower	Upper
154	100		
153	113.0	91.6	137.4
152	55.3	45.8	68.6

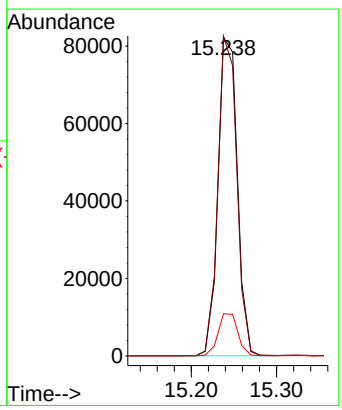


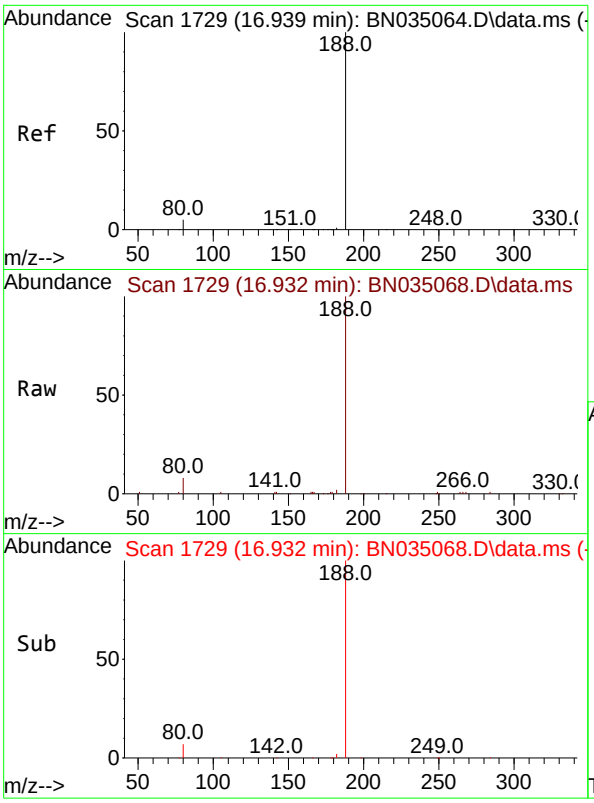


#18
Fluorene
Concen: 5.033 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:166 Resp: 129071

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.1	118.7
167	13.5	10.6	16.0



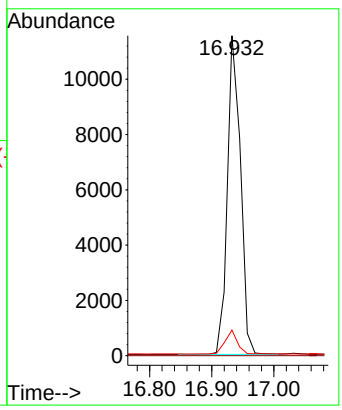


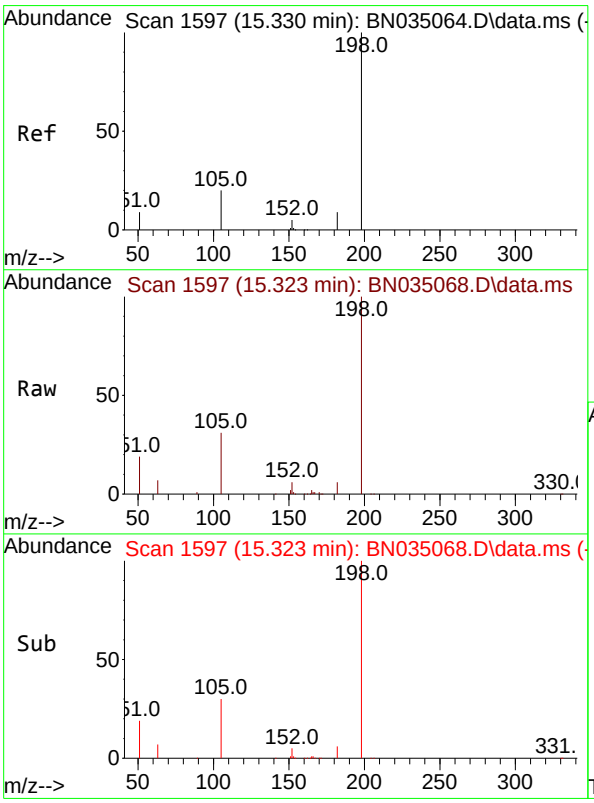
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 16809

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	4.3	6.5#

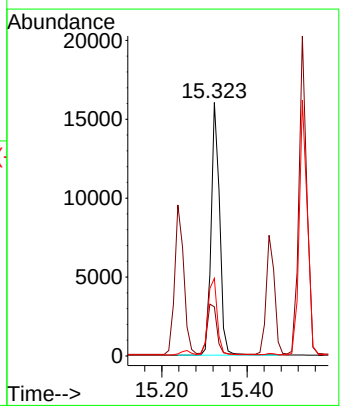


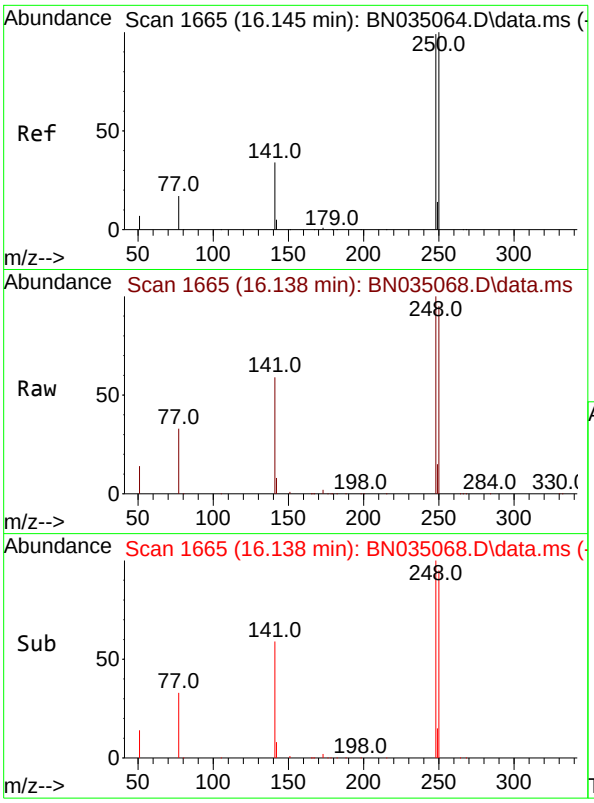


#20
4,6-Dinitro-2-methylphenol
Concen: 6.304 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:198 Resp: 22059

Ion	Ratio	Lower	Upper
198	100		
51	19.4	29.9	44.9#
105	30.6	23.7	35.5



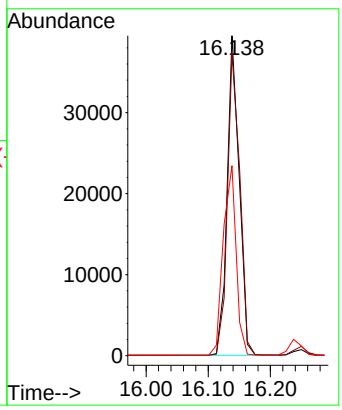


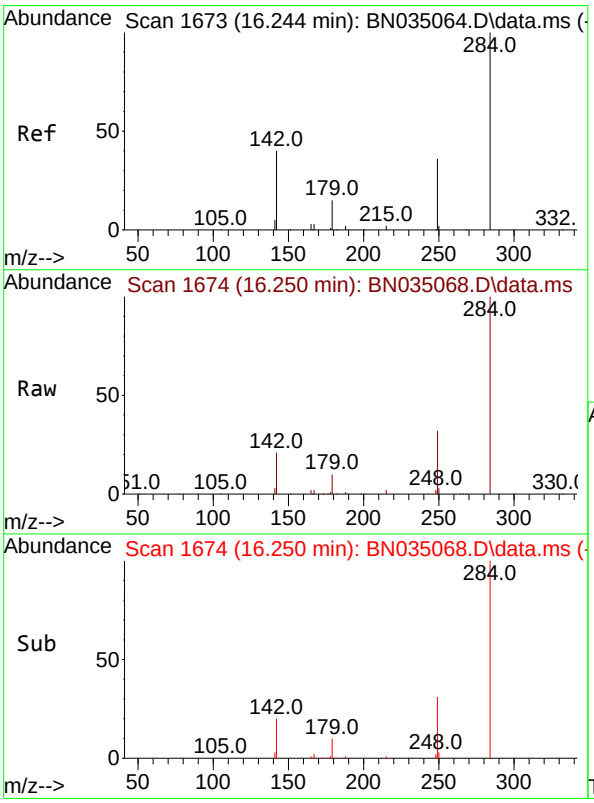
#21
4-Bromophenyl-phenylether
Concen: 4.935 ng
RT: 16.138 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 52850

Ion	Ratio	Lower	Upper
248	100		
250	94.6	81.2	121.8
141	59.4	29.1	43.7#

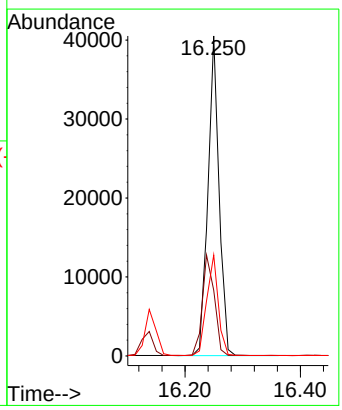


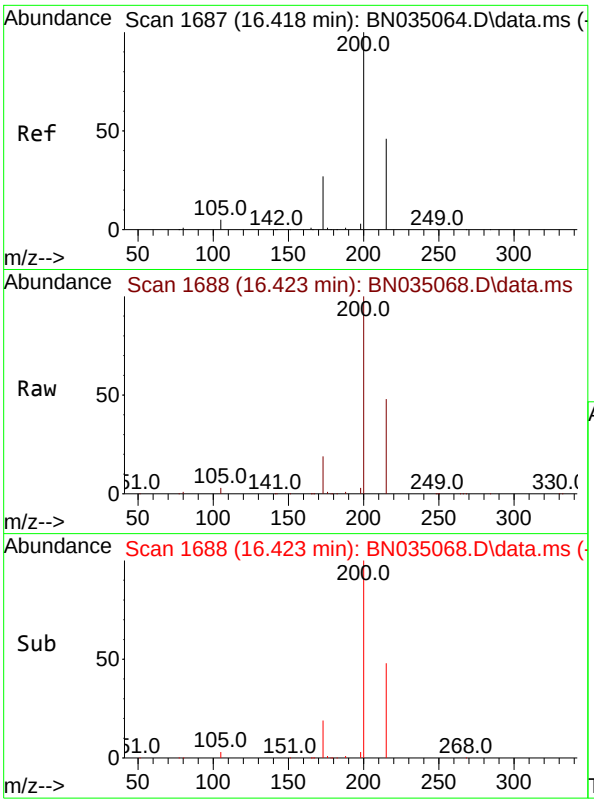


#22
Hexachlorobenzene
Concen: 4.870 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:284 Resp: 54126

Ion	Ratio	Lower	Upper
284	100		
142	34.0	28.2	42.4
249	32.4	26.2	39.2



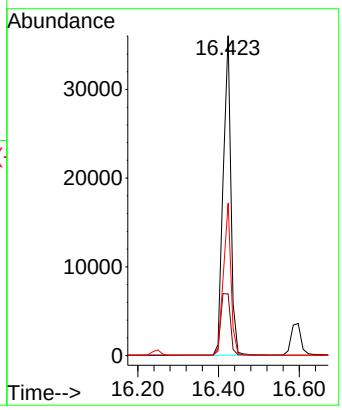


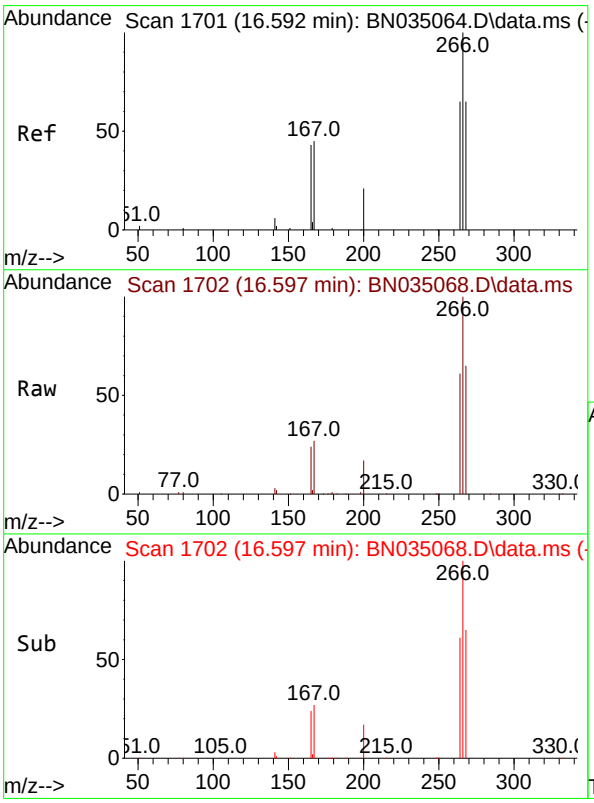
#23
Atrazine
Concen: 4.928 ng
RT: 16.423 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 47349

Ion	Ratio	Lower	Upper
200	100		
173	19.3	22.6	33.8#
215	47.7	37.8	56.6

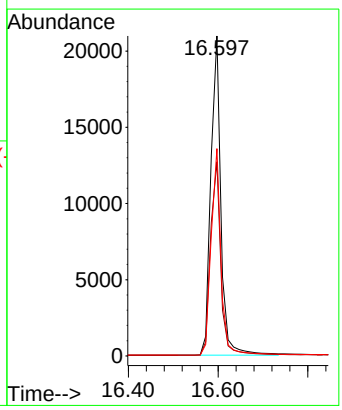


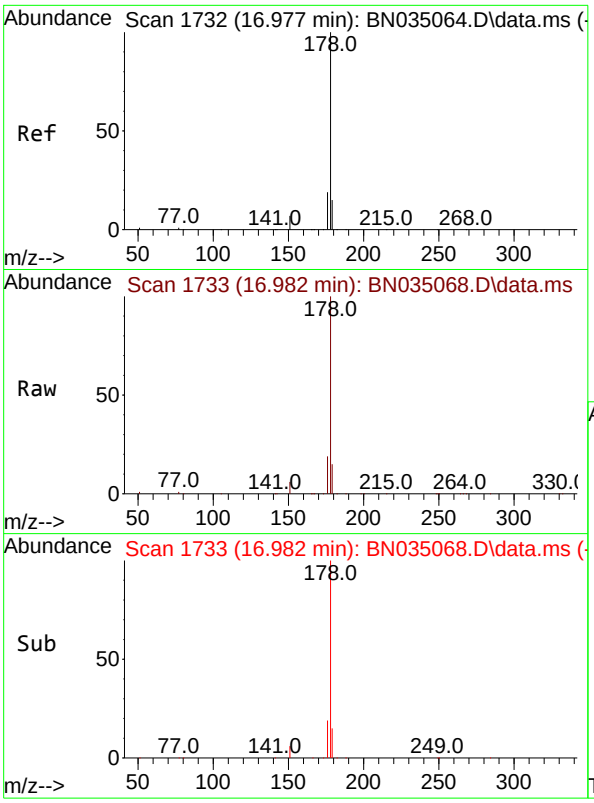


#24
Pentachlorophenol
Concen: 6.228 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:266 Resp: 32339

Ion	Ratio	Lower	Upper
266	100		
264	62.3	49.4	74.0
268	63.7	52.6	79.0



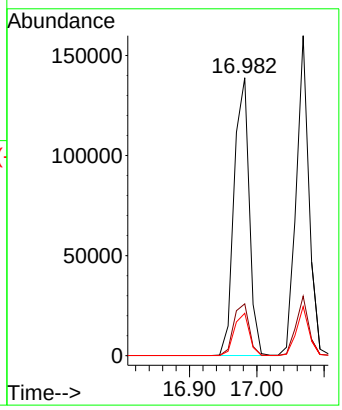


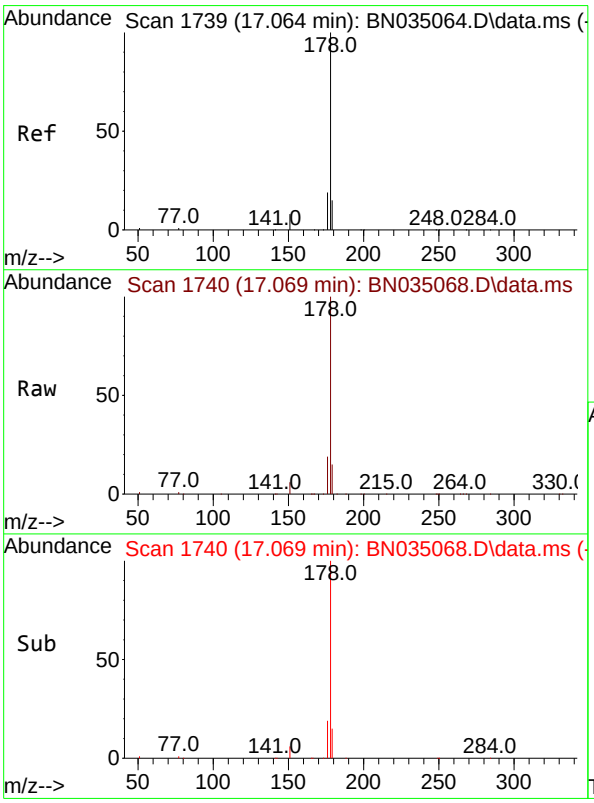
#25
Phenanthrene
Concen: 4.923 ng
RT: 16.982 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 217781

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.2	12.6	18.8

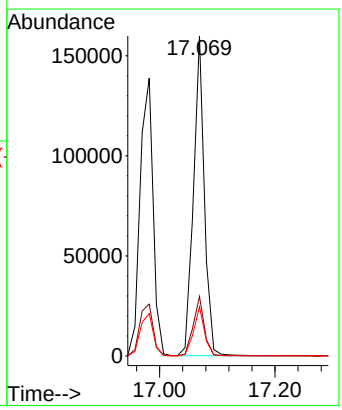


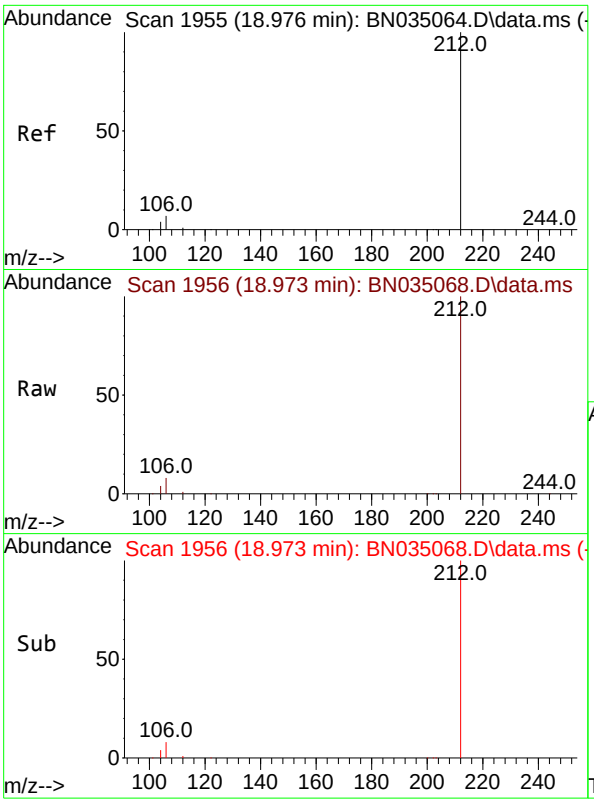


#26
Anthracene
Concen: 5.176 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:178 Resp: 210303

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.3	12.2	18.2



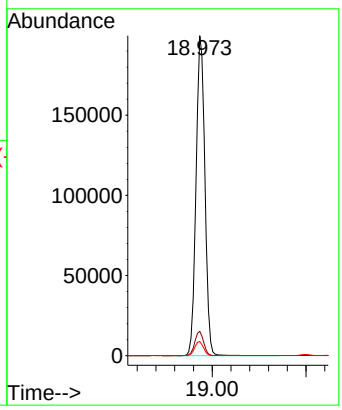


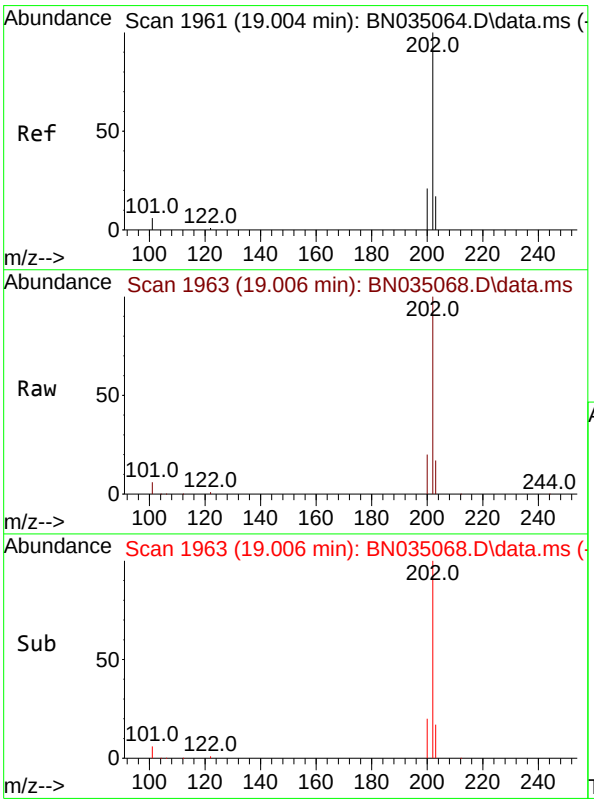
#27
Fluoranthene-d10
Concen: 5.059 ng
RT: 18.973 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 260540

Ion	Ratio	Lower	Upper
212	100		
106	7.6	6.0	9.0
104	4.4	3.5	5.3

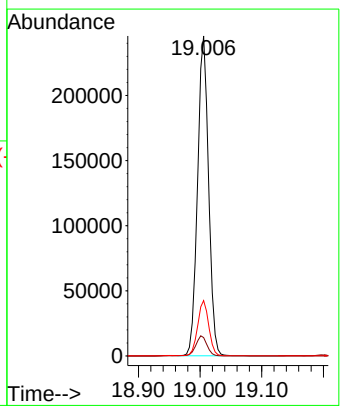


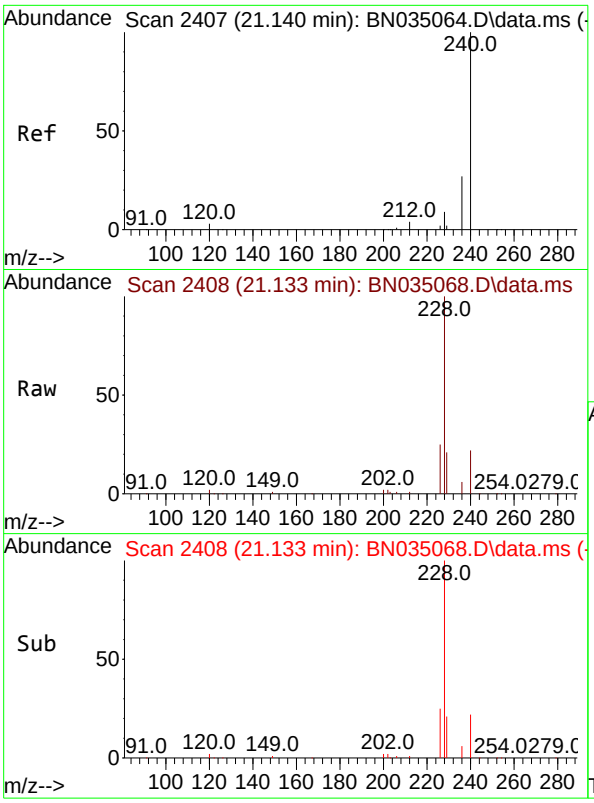


#28
Fluoranthene
Concen: 5.019 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:202 Resp: 305283

Ion	Ratio	Lower	Upper
202	100		
101	6.4	5.2	7.8
203	17.3	13.8	20.8



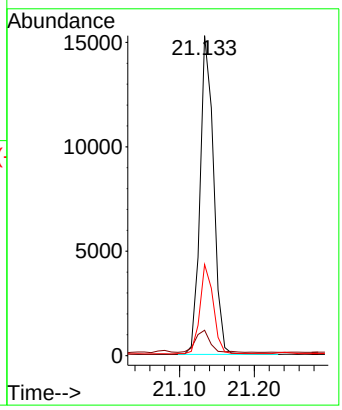


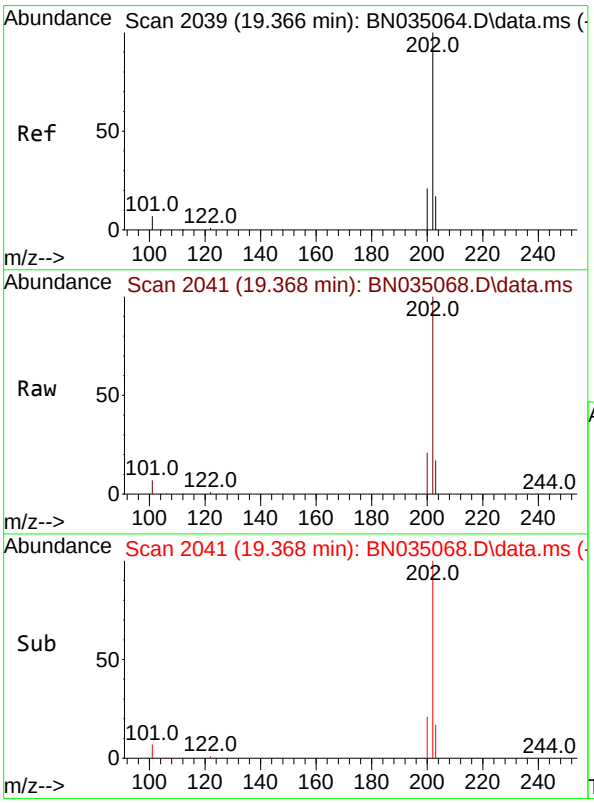
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 19216

Ion	Ratio	Lower	Upper
240	100		
120	8.0	3.8	5.6#
236	28.5	22.2	33.2

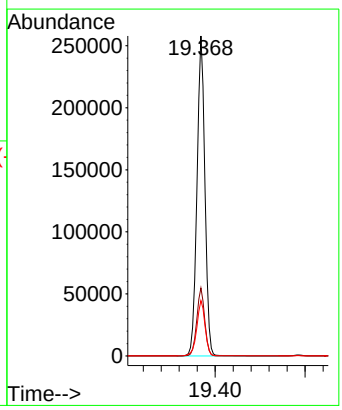


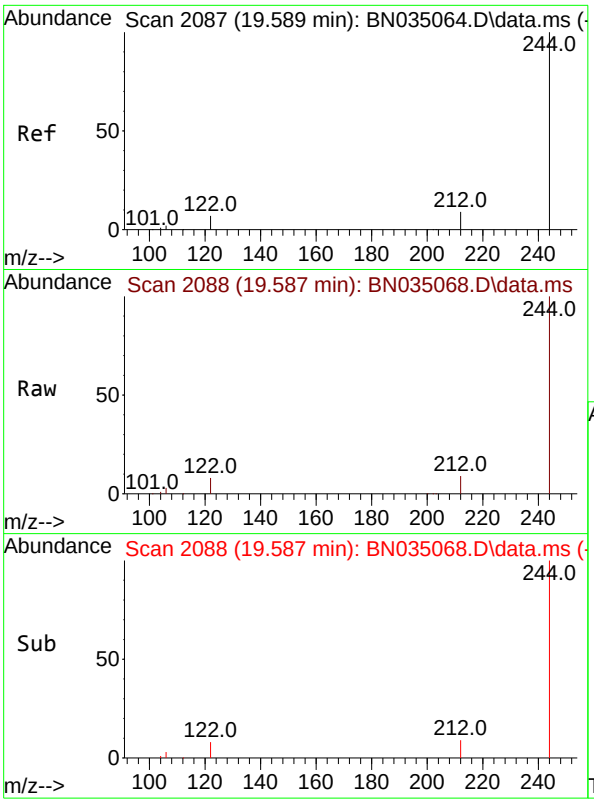


#30
Pyrene
Concen: 4.942 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:202 Resp: 316225

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.7	25.1
203	17.9	14.2	21.4



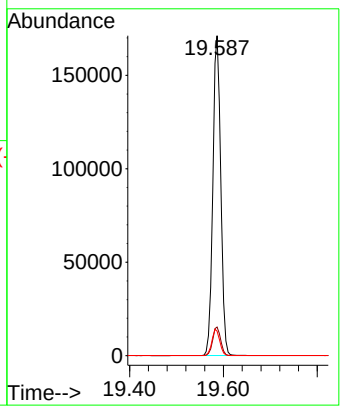


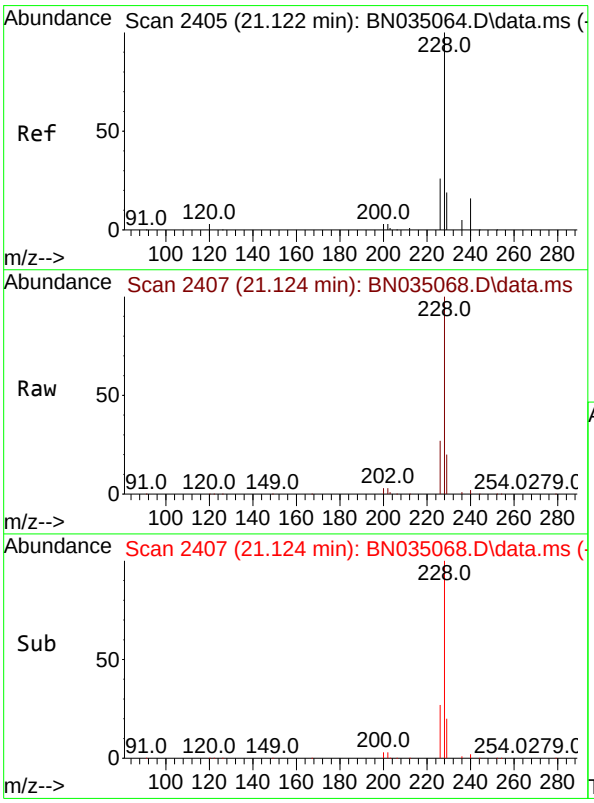
#31
Terphenyl-d14
Concen: 4.950 ng
RT: 19.587 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 199585

Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.6	11.4
122	7.7	6.1	9.1

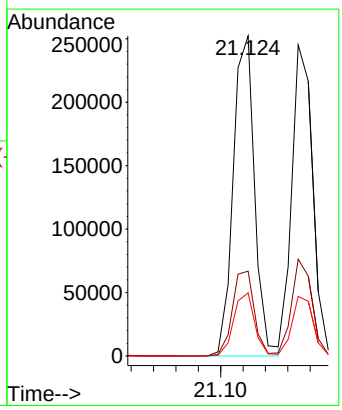


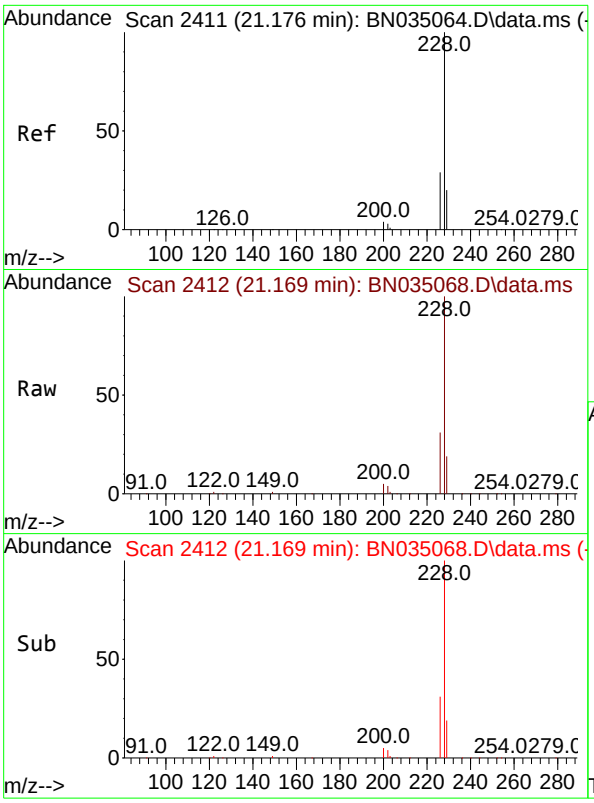


#32
Benzo(a)anthracene
Concen: 5.013 ng
RT: 21.124 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:228 Resp: 335437

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.4	32.0
229	19.7	15.7	23.5



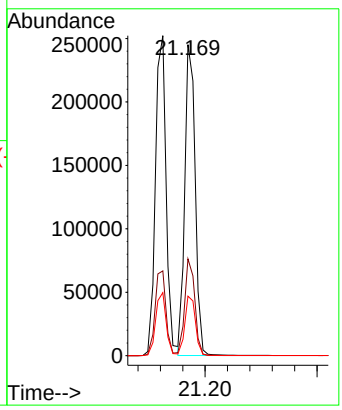


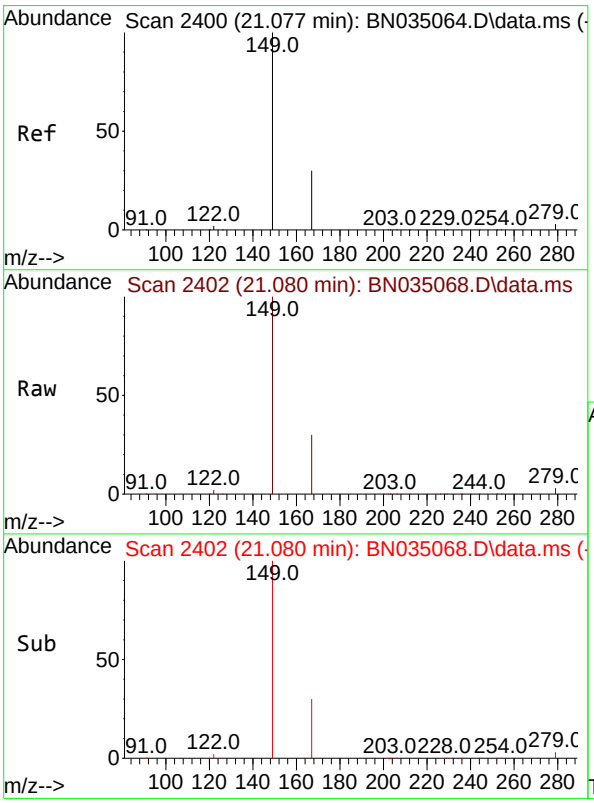
#33
Chrysene
Concen: 4.786 ng
RT: 21.169 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 317200

Ion	Ratio	Lower	Upper
228	100		
226	31.1	23.7	35.5
229	19.1	16.2	24.4

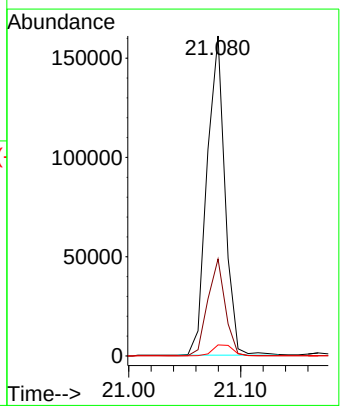


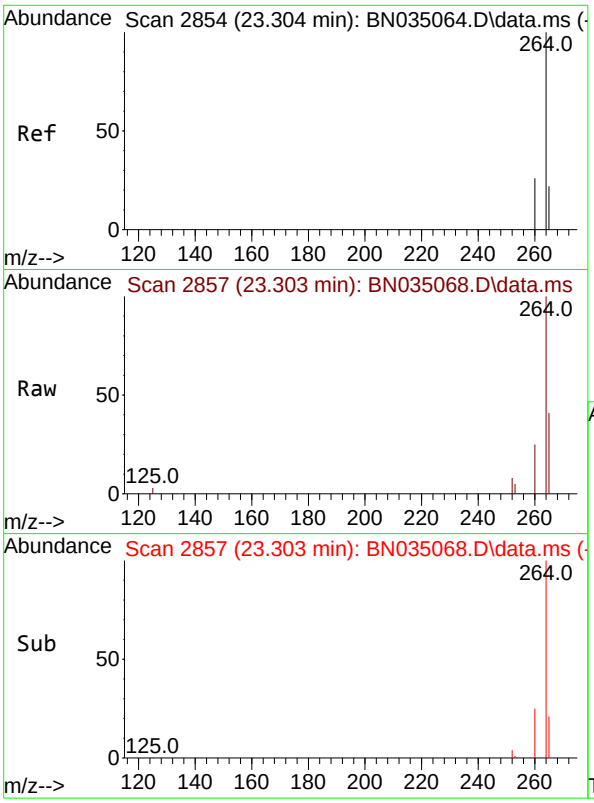


#34
Bis(2-ethylhexyl)phthalate
Concen: 5.121 ng
RT: 21.080 min Scan# 2402
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:149 Resp: 178320

Ion	Ratio	Lower	Upper
149	100		
167	29.5	23.2	34.8
279	3.9	3.2	4.8



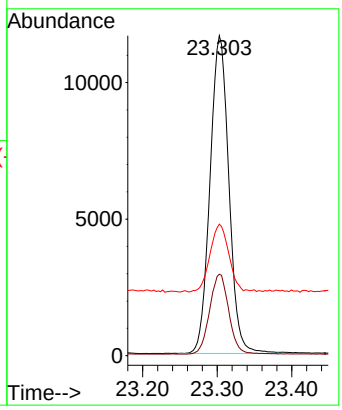


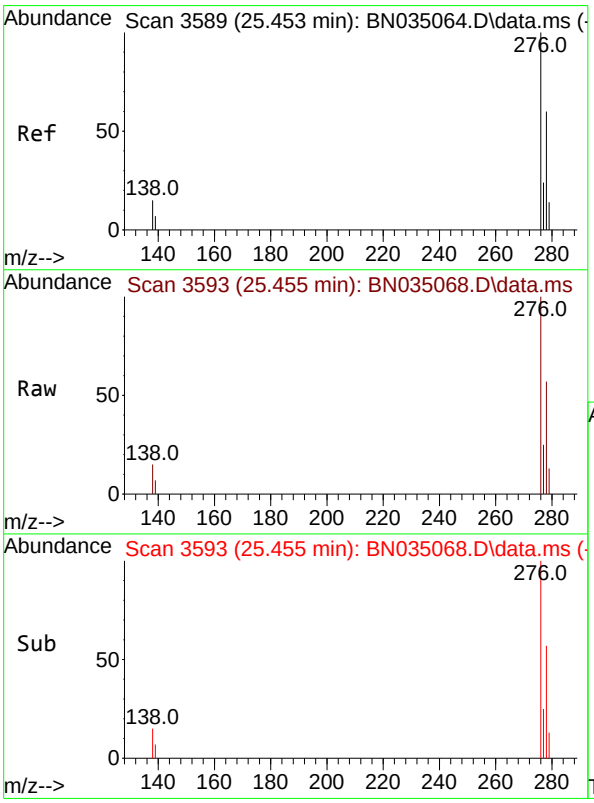
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 20465

Ion	Ratio	Lower	Upper
264	100		
260	25.4	20.9	31.3
265	41.1	35.4	53.2

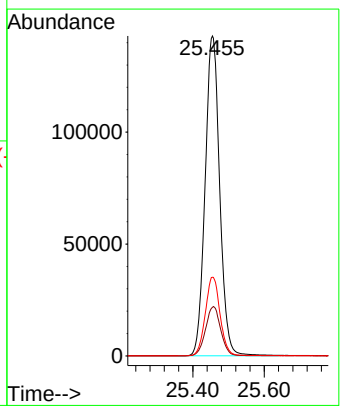


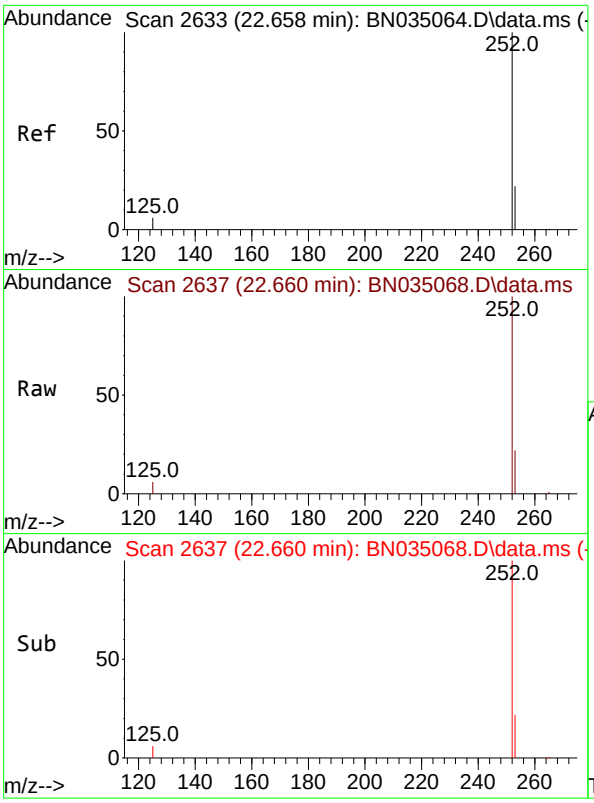


#36
Indeno(1,2,3-cd)pyrene
Concen: 4.966 ng
RT: 25.455 min Scan# 3593
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:276 Resp: 405401

Ion	Ratio	Lower	Upper
276	100		
138	16.0	13.0	19.4
277	24.9	19.8	29.6



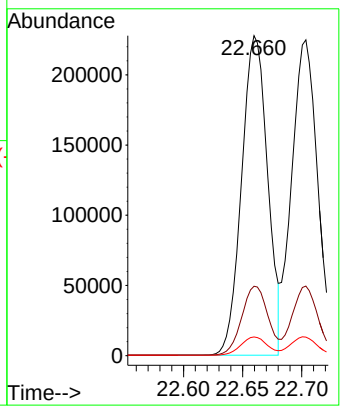


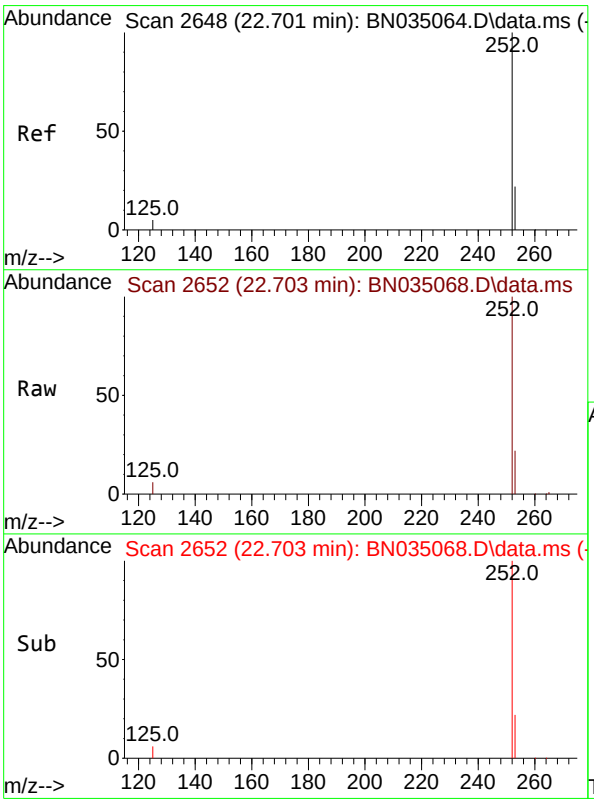
#37
Benzo(b)fluoranthene
Concen: 5.049 ng
RT: 22.660 min Scan# 2
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 347639

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.3	28.9
125	5.8	6.2	9.2#

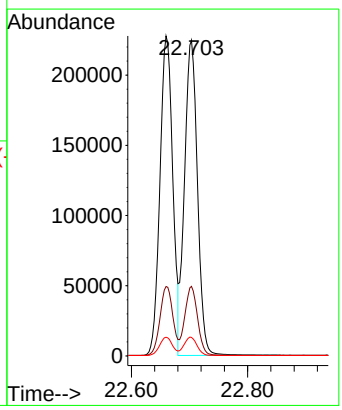


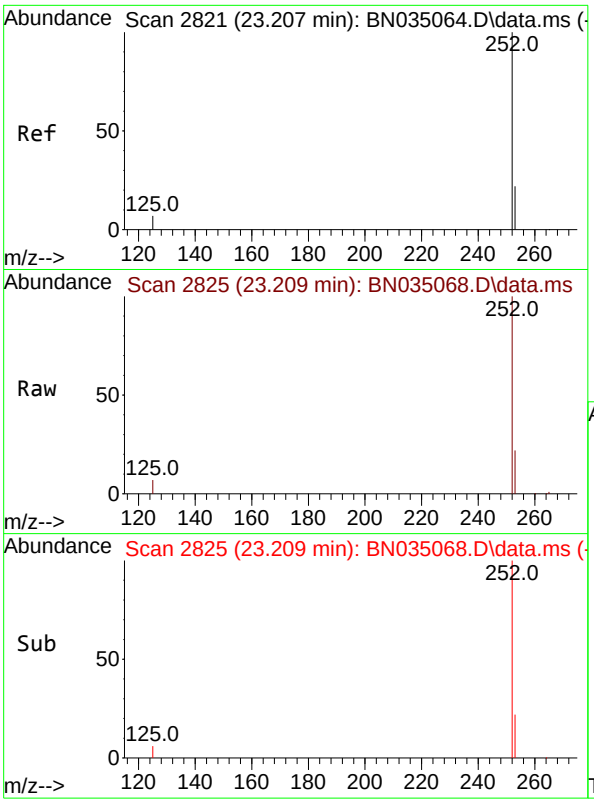


#38
Benzo(k)fluoranthene
Concen: 5.041 ng
RT: 22.703 min Scan# 2652
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:252 Resp: 347310

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.5	29.3
125	5.9	6.5	9.7#



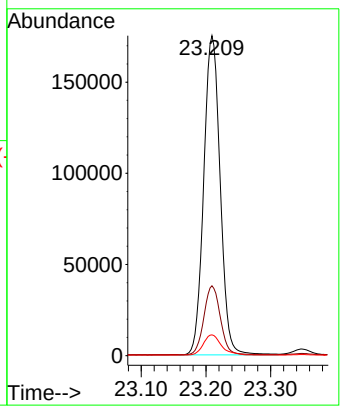


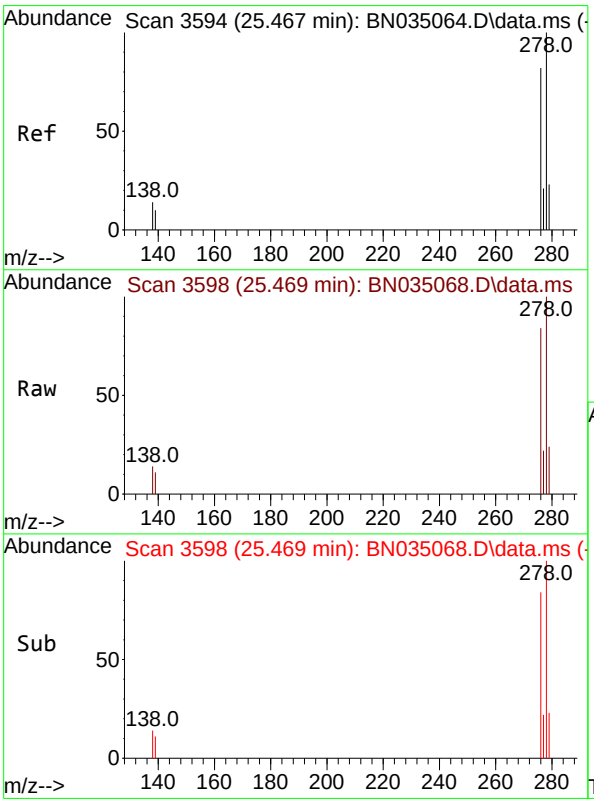
#39
Benzo(a)pyrene
Concen: 5.094 ng
RT: 23.209 min Scan# 2
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 308664

Ion	Ratio	Lower	Upper
252	100		
253	21.8	20.1	30.1
125	6.5	7.5	11.3#

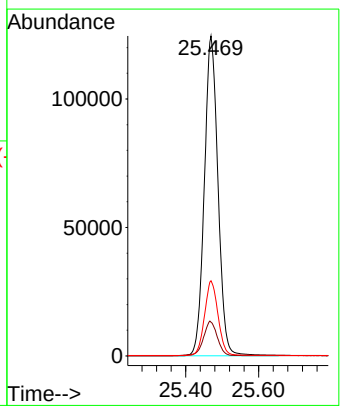


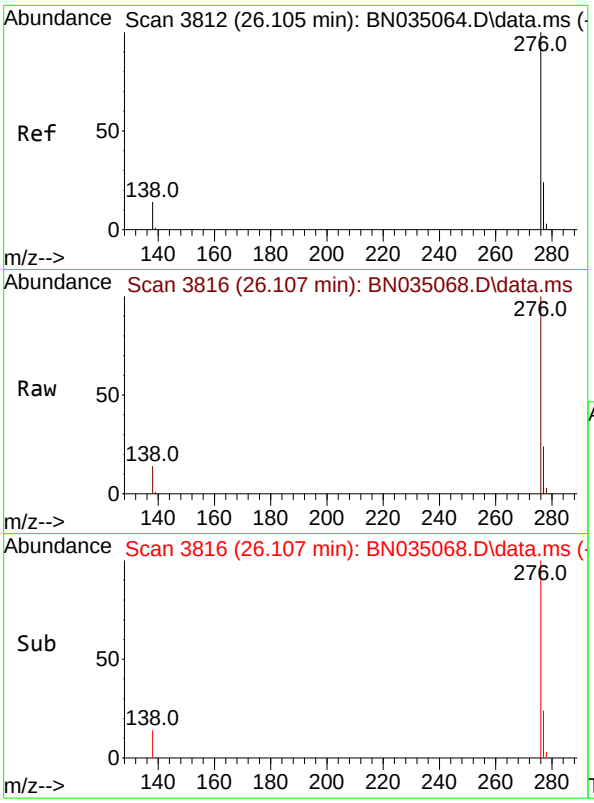


#40
Dibenzo(a,h)anthracene
Concen: 5.002 ng
RT: 25.469 min Scan# 3598
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:278 Resp: 323522

Ion	Ratio	Lower	Upper
278	100		
139	10.6	9.3	13.9
279	23.5	19.7	29.5



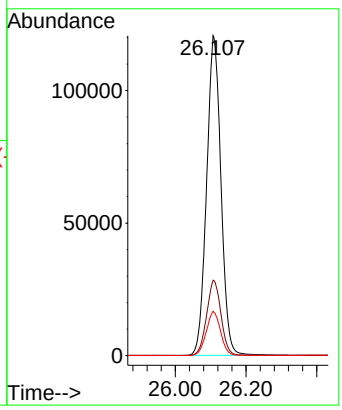


#41
Benzo(g,h,i)perylene
Concen: 4.937 ng
RT: 26.107 min Scan# 3
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 339655

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.9	29.9
138	13.9	11.6	17.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	2509	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	6367	0.400	ng		0.00
13) Acenaphthene-d10	14.186	164	4967	0.400	ng		0.00
19) Phenanthrene-d10	16.939	188	12682	0.400	ng		0.00
29) Chrysene-d12	21.140	240	14055	0.400	ng		0.00
35) Perylene-d12	23.304	264	15724	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	2342	0.368	ng		0.00
5) Phenol-d6	6.737	99	2867	0.359	ng		0.00
8) Nitrobenzene-d5	8.696	82	1983	0.358	ng		0.00
11) 2-Methylnaphthalene-d10	11.916	152	4166	0.367	ng		0.00
14) 2,4,6-Tribromophenol	15.686	330	1154	0.322	ng		0.00
15) 2-Fluorobiphenyl	12.807	172	7205	0.357	ng		0.00
27) Fluoranthene-d10	18.976	212	14530	0.374	ng		0.00
31) Terphenyl-d14	19.584	244	11240	0.381	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.177	88	845	0.371	ng		99
3) n-Nitrosodimethylamine	3.473	42	781	0.368	ng	#	94
6) bis(2-Chloroethyl)ether	6.990	93	2218	0.370	ng		98
9) Naphthalene	10.362	128	6092	0.366	ng		100
10) Hexachlorobutadiene	10.661	225	1817	0.373	ng	#	98
12) 2-Methylnaphthalene	11.988	142	4513	0.368	ng		99
16) Acenaphthylene	13.908	152	7387	0.348	ng		100
17) Acenaphthene	14.250	154	4995	0.359	ng		99
18) Fluorene	15.245	166	7206	0.352	ng		100
20) 4,6-Dinitro-2-methylph...	15.330	198	870m	0.330	ng		
21) 4-Bromophenyl-phenylether	16.145	248	3001	0.371	ng		98
22) Hexachlorobenzene	16.244	284	3175	0.379	ng		99
23) Atrazine	16.418	200	2682	0.370	ng		98
24) Pentachlorophenol	16.592	266	1269	0.324	ng		98
25) Phenanthrene	16.977	178	12517	0.375	ng		99
26) Anthracene	17.063	178	11219	0.366	ng		100
28) Fluoranthene	19.004	202	17084	0.372	ng		100
30) Pyrene	19.366	202	17580	0.376	ng		100
32) Benzo(a)anthracene	21.122	228	18406	0.376	ng		99
33) Chrysene	21.176	228	18693	0.386	ng		99
34) Bis(2-ethylhexyl)phtha...	21.077	149	8691	0.338	ng		100
36) Indeno(1,2,3-cd)pyrene	25.450	276	23546	0.375	ng		99
37) Benzo(b)fluoranthene	22.660	252	20039	0.379	ng		99
38) Benzo(k)fluoranthene	22.701	252	20114	0.380	ng		98
39) Benzo(a)pyrene	23.210	252	17596	0.378	ng		99
40) Dibenzo(a,h)anthracene	25.467	278	18547	0.373	ng		98
41) Benzo(g,h,i)perylene	26.104	276	19649	0.372	ng		99

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

ICAL Form

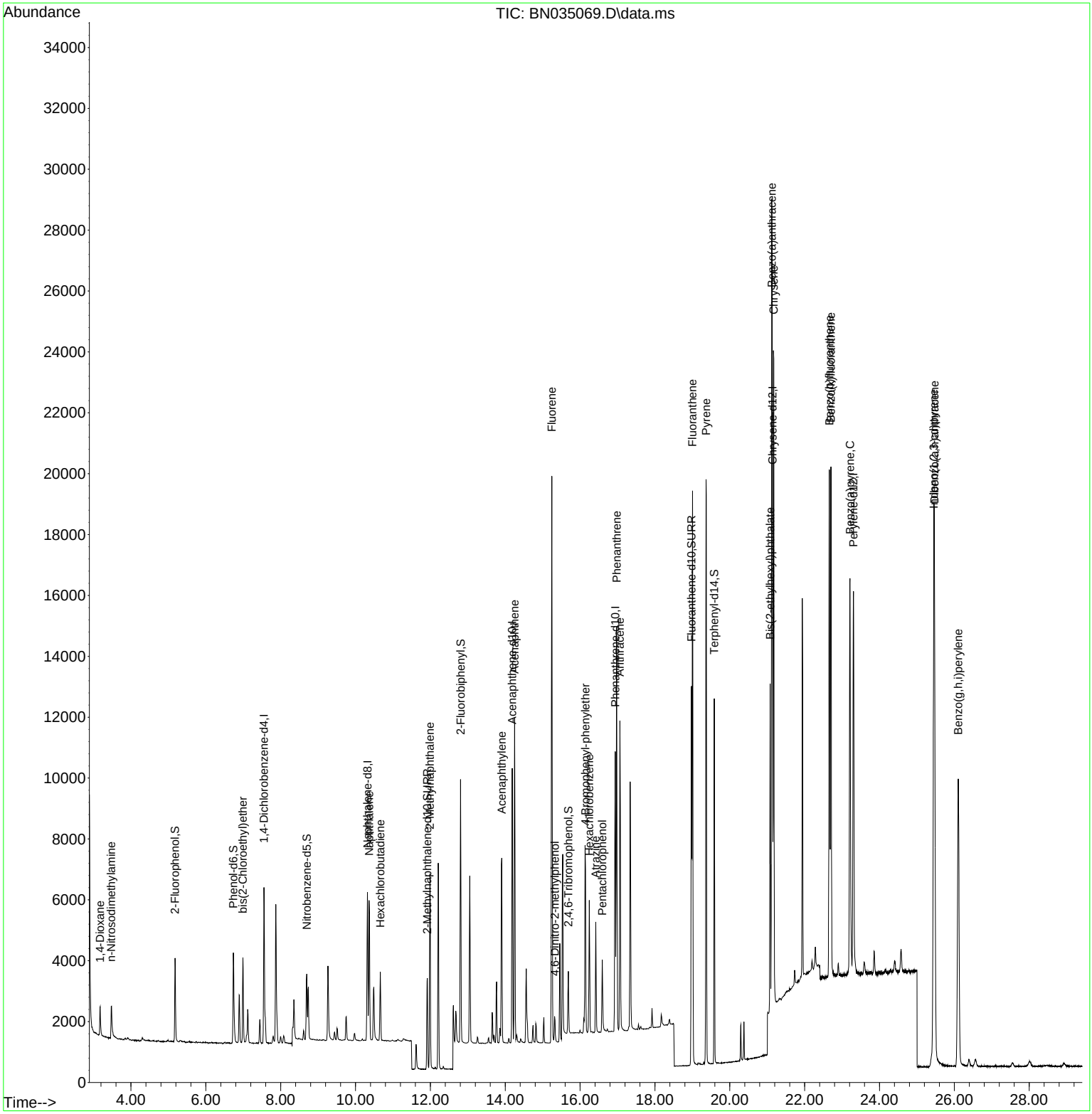
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

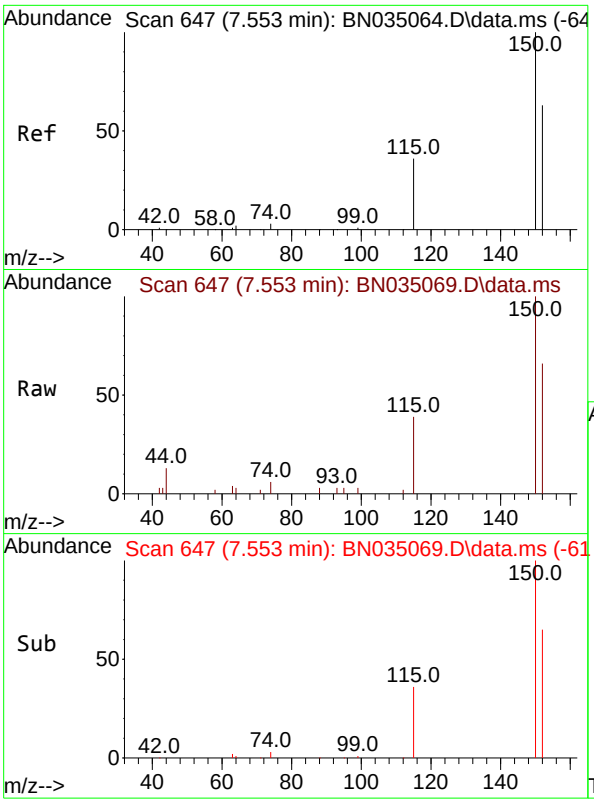
Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

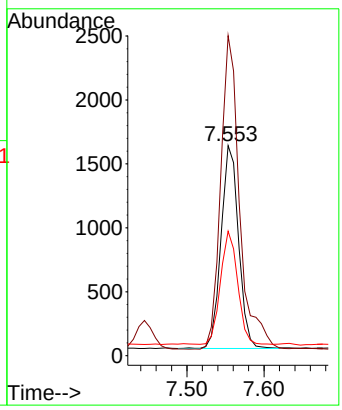




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:152 Resp: 250

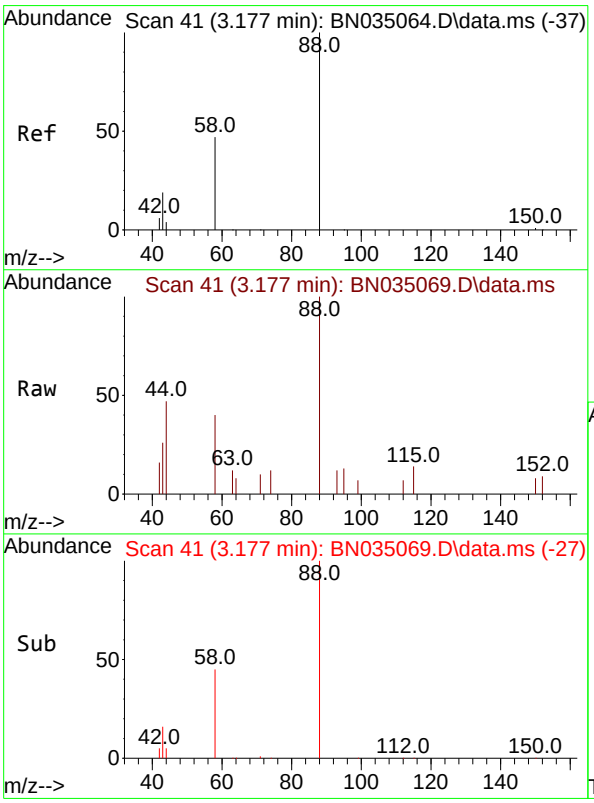
Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.5	186.7
115	59.3	47.8	71.6



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Manual Integrations
APPROVED

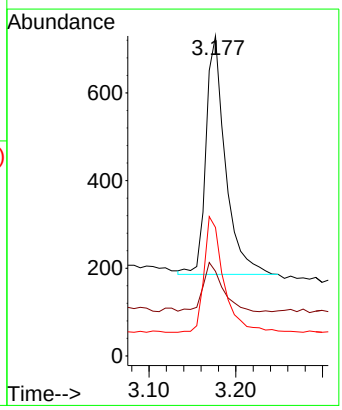
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

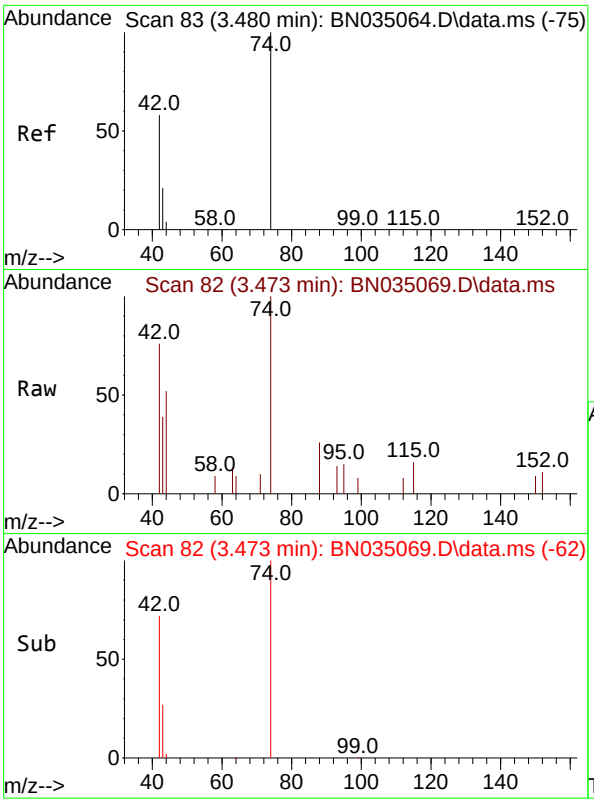


#2
1,4-Dioxane
Concen: 0.371 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 88 Resp: 845

Ion	Ratio	Lower	Upper
88	100		
43	20.8	16.9	25.3
58	49.1	39.0	58.4

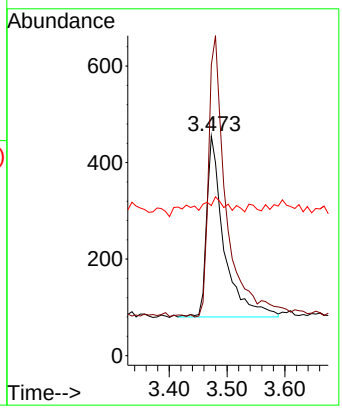




#3
n-Nitrosodimethylamine
Concen: 0.368 ng
RT: 3.473 min Scan# 8
Delta R.T. -0.007 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 42 Resp: 78

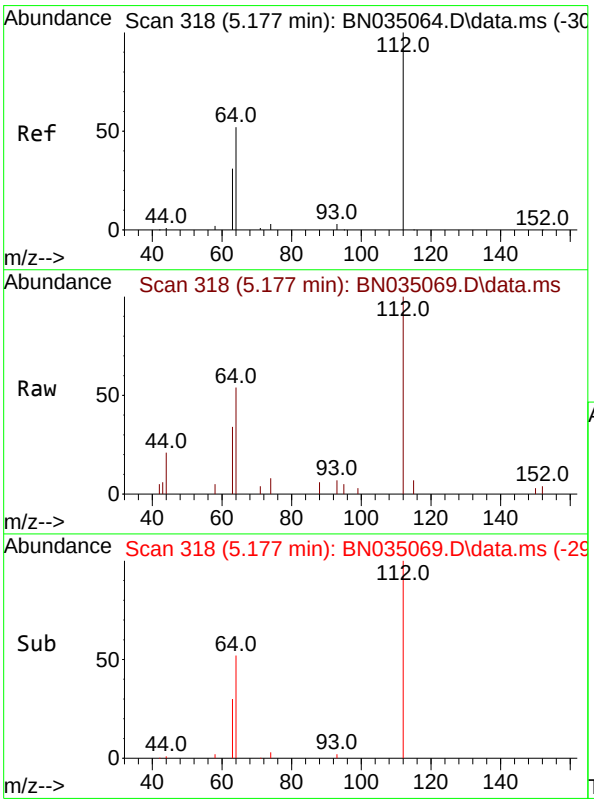
Ion	Ratio	Lower	Upper
42	100		
74	158.6	120.8	181.2
44	8.7	2.9	4.3#



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Manual Integrations
APPROVED

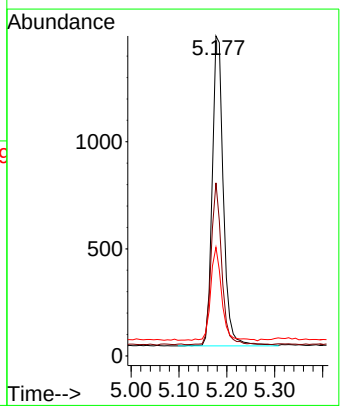
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

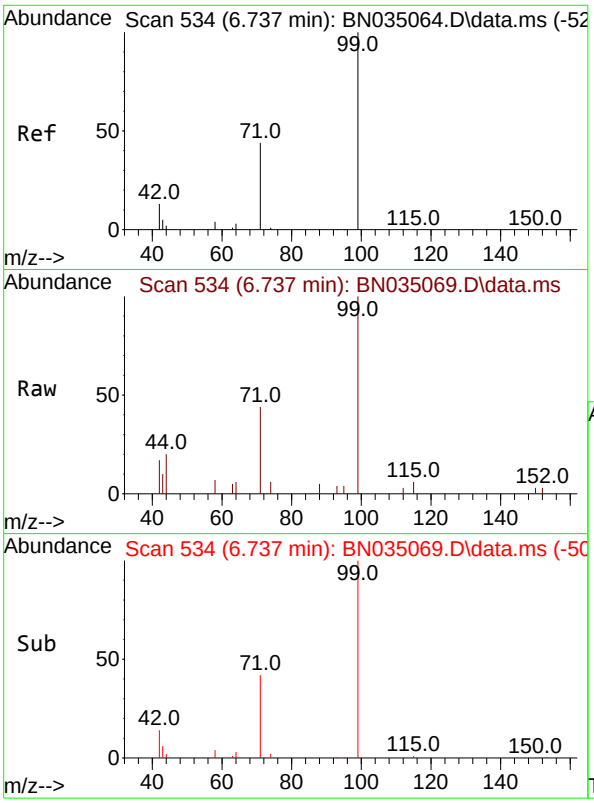


#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:112 Resp: 2342

Ion	Ratio	Lower	Upper
112	100		
64	48.8	39.7	59.5
63	30.1	23.0	34.4

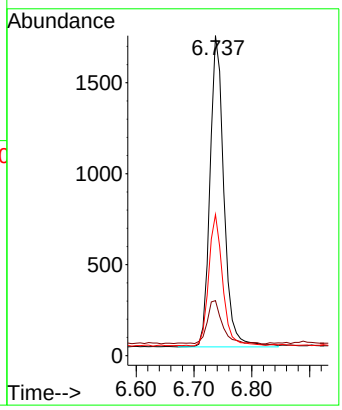




#5
Phenol-d6
Concen: 0.359 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 99 Resp: 286

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.0
71	42.1	34.6	51.8



Instrument :
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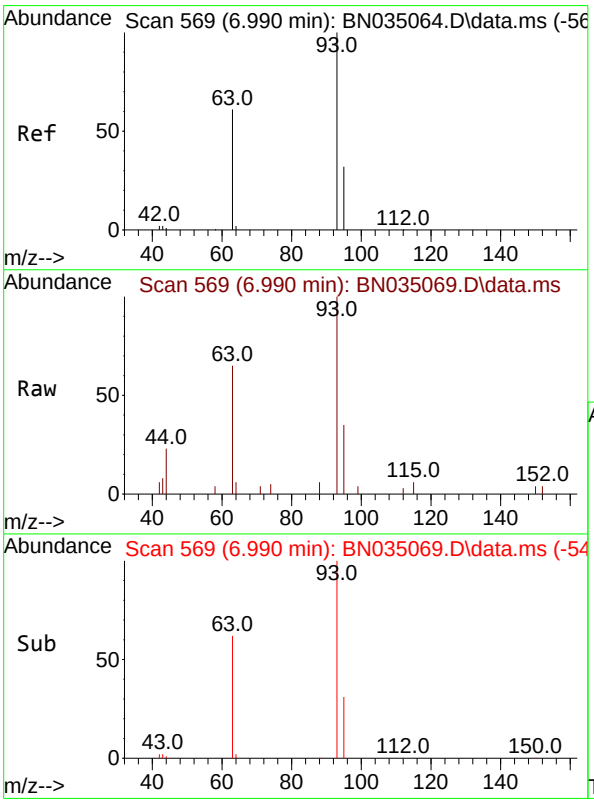
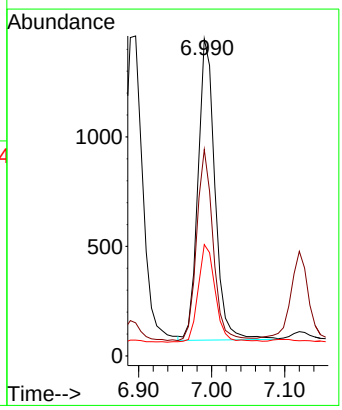
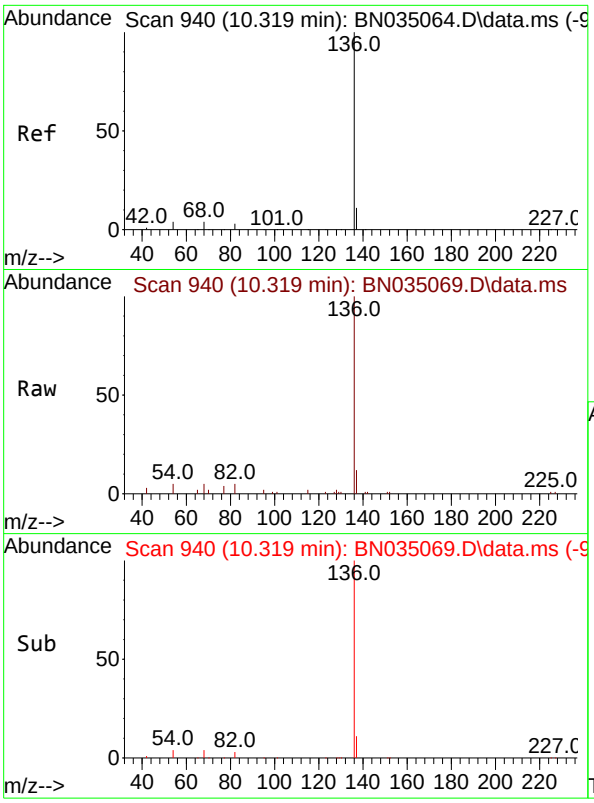


#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 93 Resp: 2218

Ion	Ratio	Lower	Upper
93	100		
63	61.3	47.4	71.2
95	33.0	26.2	39.4

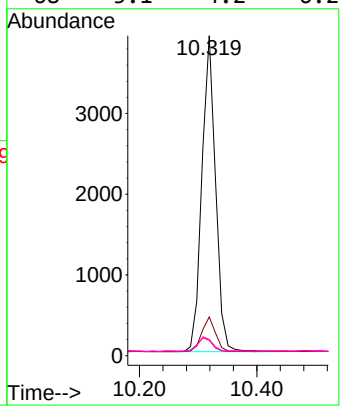




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:136 Resp: 636

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.8	4.0	6.0
68	5.1	4.2	6.2



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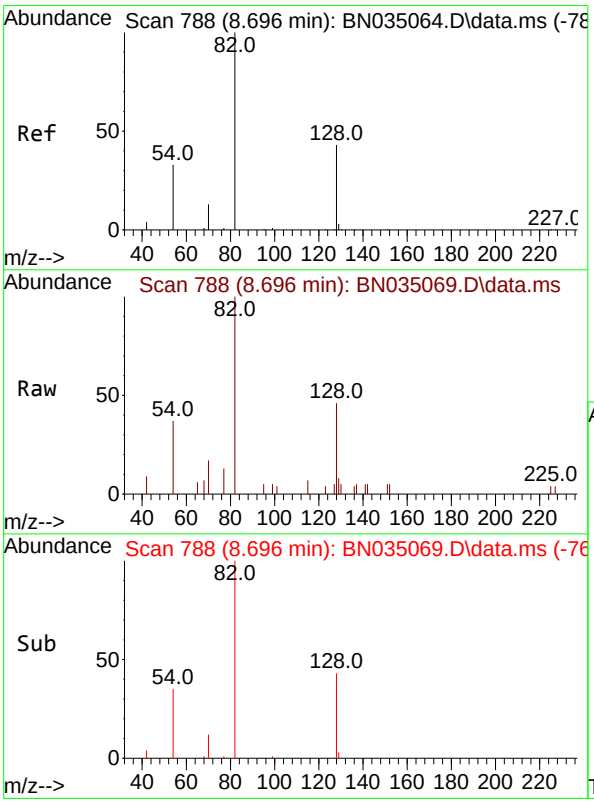
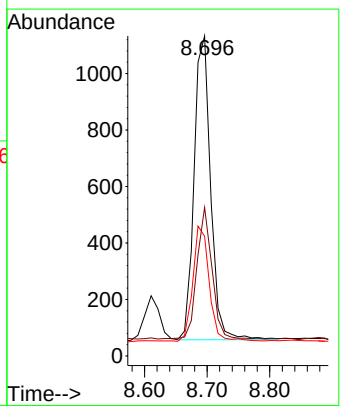
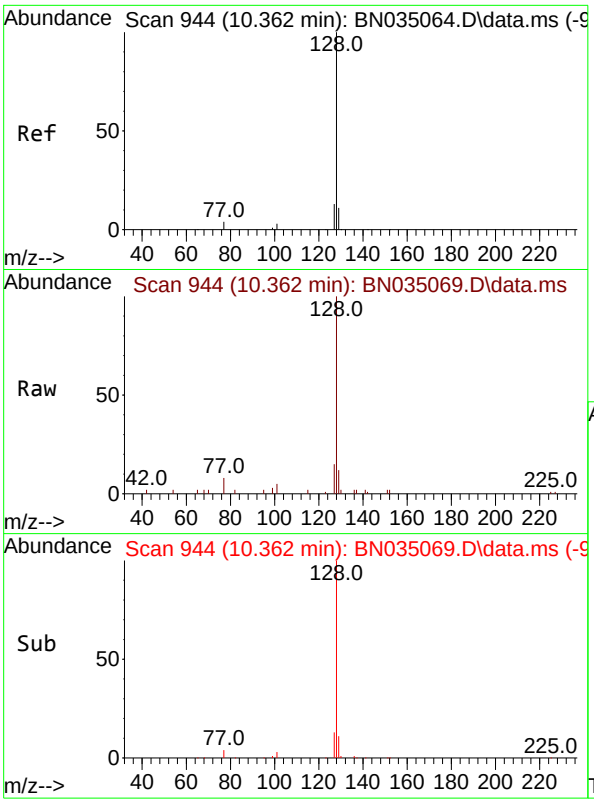


#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 82 Resp: 1983

Ion	Ratio	Lower	Upper
82	100		
128	46.4	36.5	54.7
54	37.4	28.7	43.1

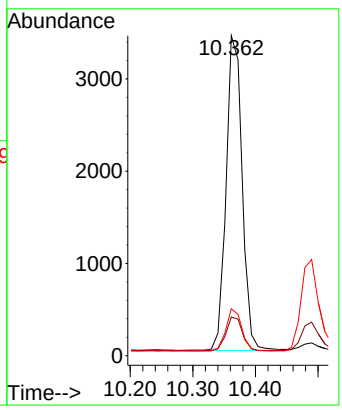




#9
Naphthalene
Concen: 0.366 ng
RT: 10.362 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:128 Resp: 609

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.6	14.4
127	14.7	11.6	17.4



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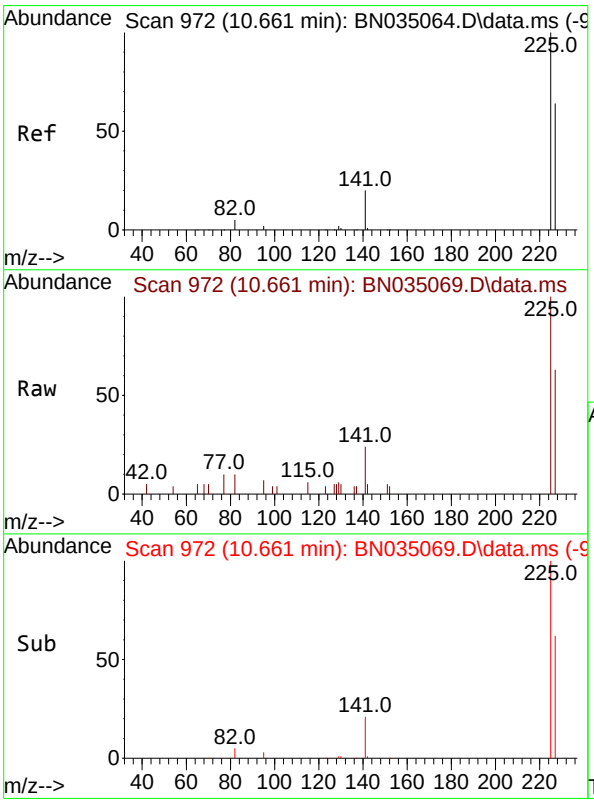
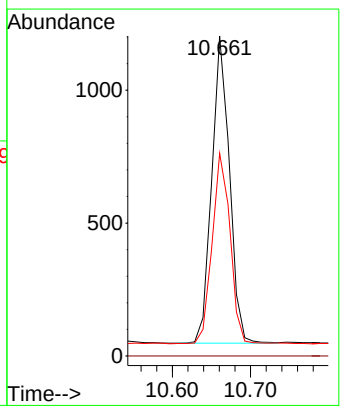
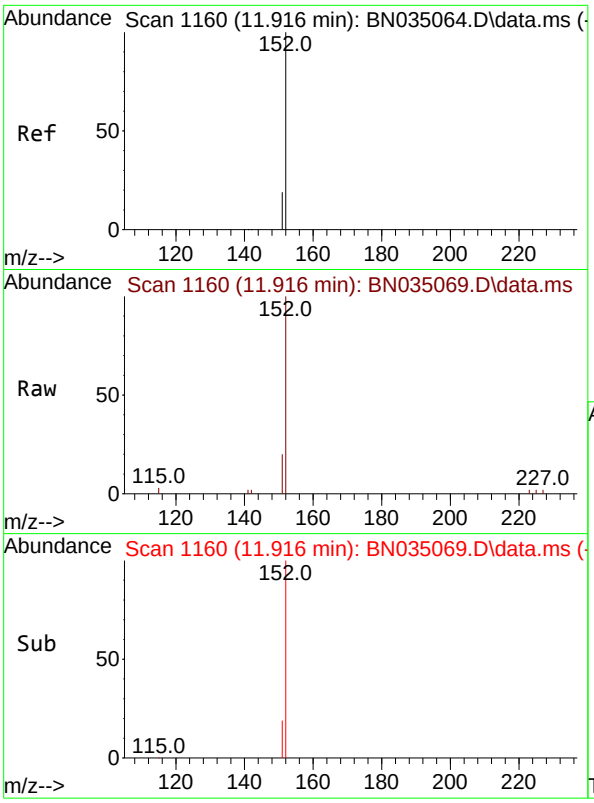


#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.661 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:225 Resp: 1817

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.5	77.3

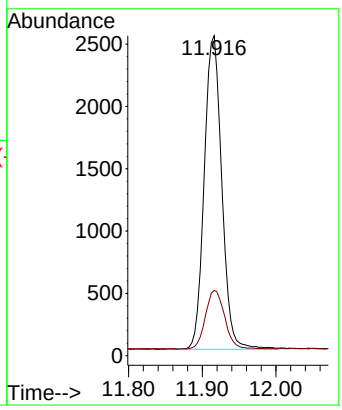




#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.916 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:152 Resp: 416

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.2	24.4



Instrument :
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ClientSampleId :
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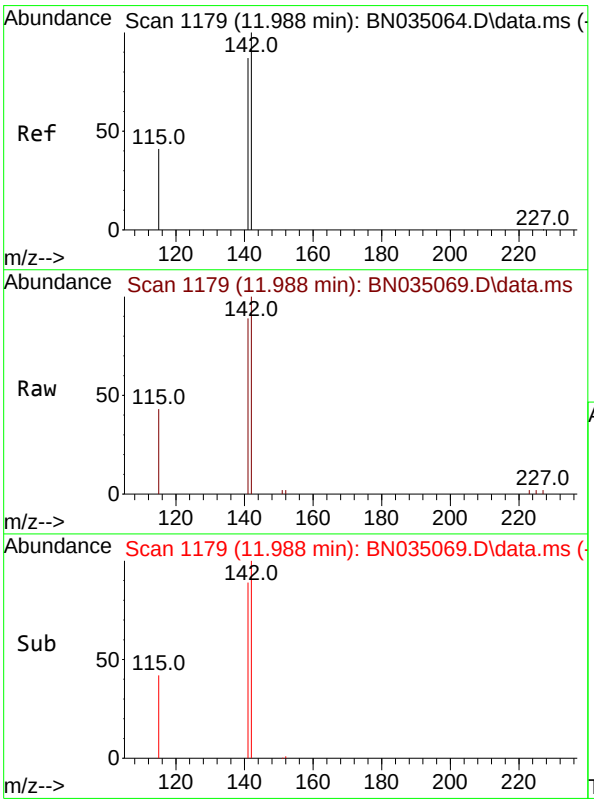
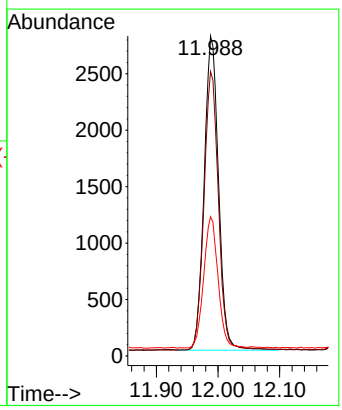
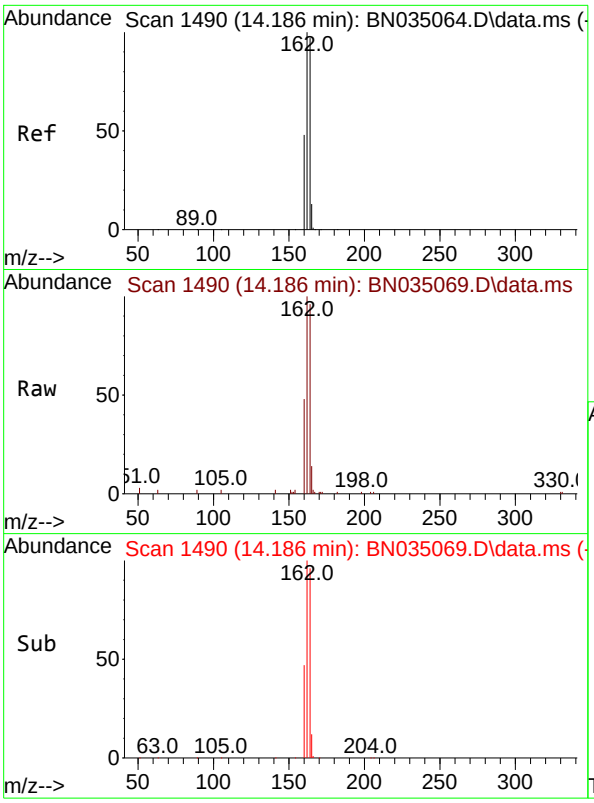


#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:142 Resp: 4513

Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.1	105.1
115	43.5	34.4	51.6

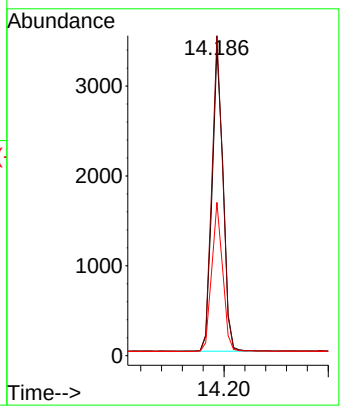




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:164 Resp: 496

Ion	Ratio	Lower	Upper
164	100		
162	104.1	82.2	123.2
160	49.8	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
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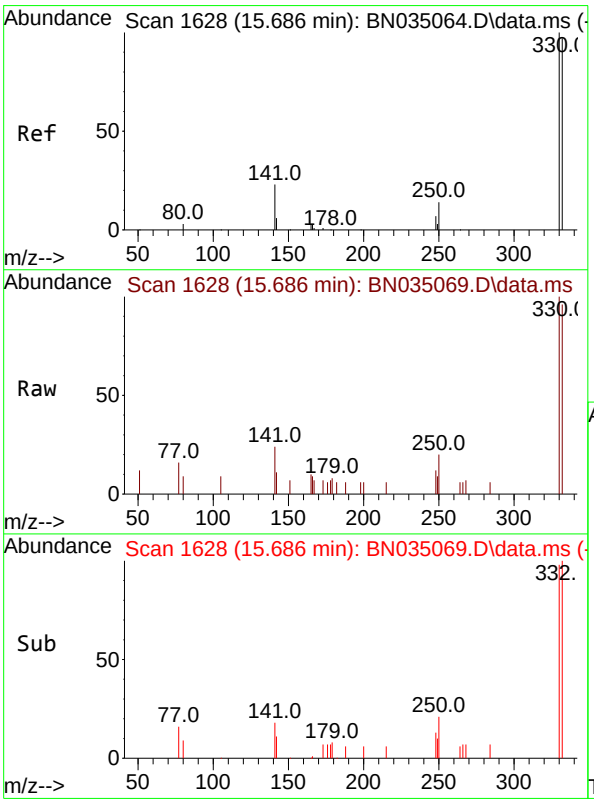
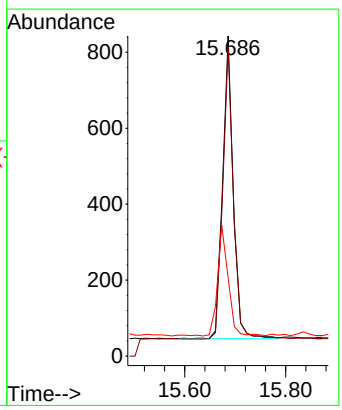
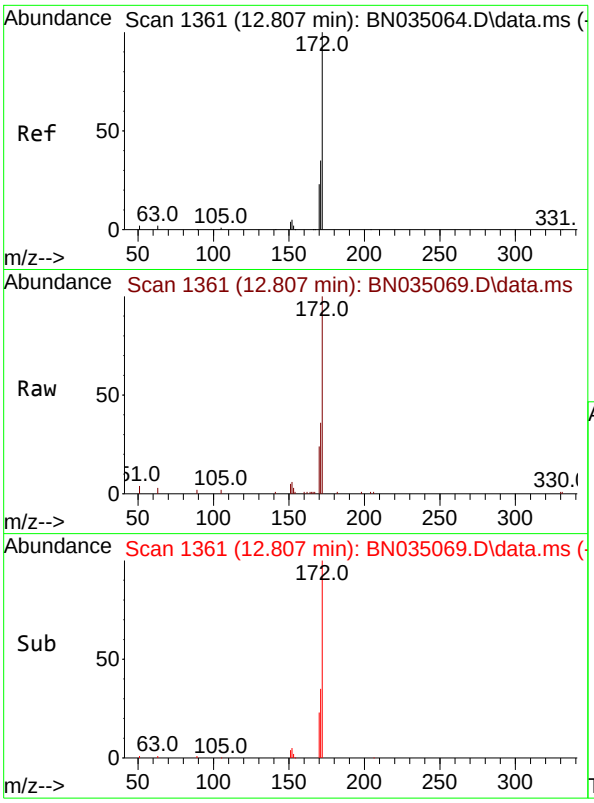


#14
2,4,6-Tribromophenol
Concen: 0.322 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:330 Resp: 1154

Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.9	115.3
141	36.7	29.6	44.4

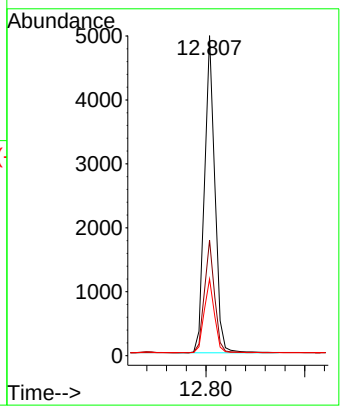




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.807 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:172 Resp: 720

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.2	42.4
170	23.9	19.0	28.6



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

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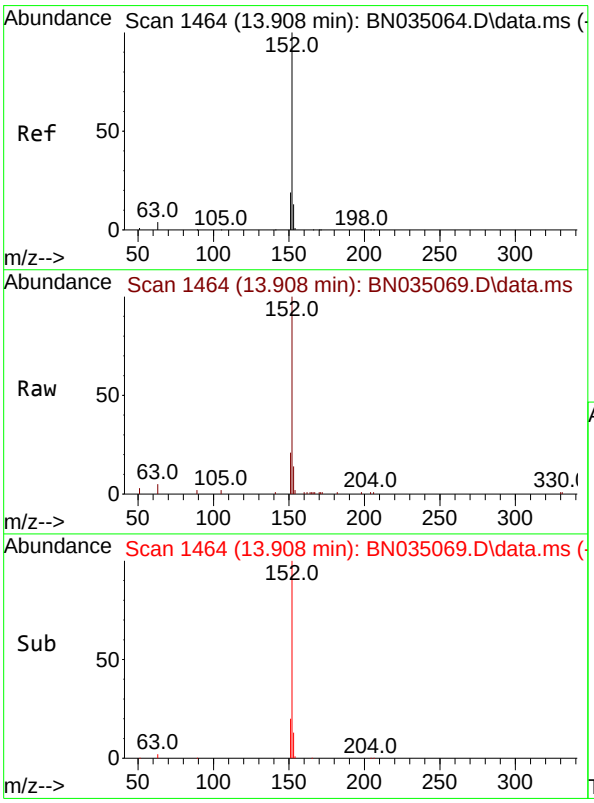
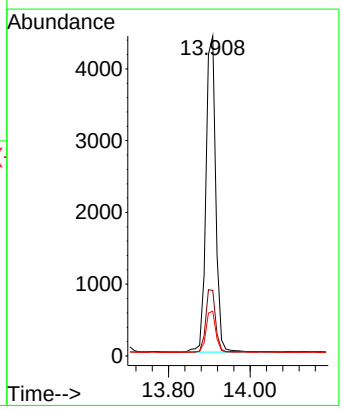
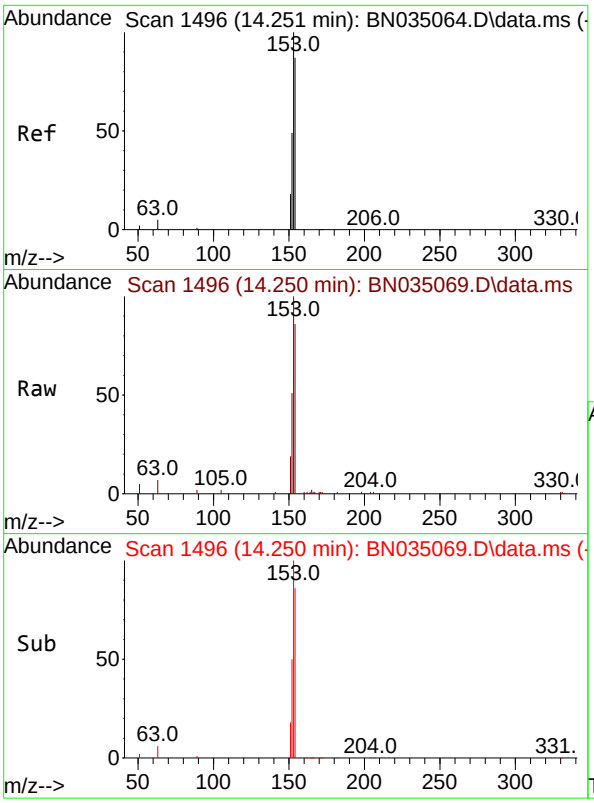


#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:152 Resp: 7387

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.0	10.2	15.4

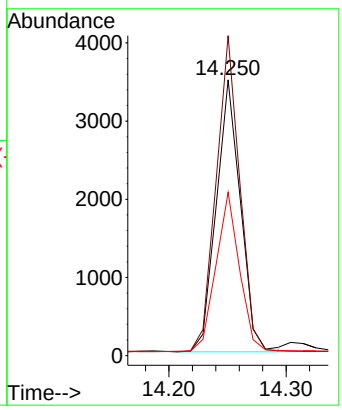




#17
Acenaphthene
Concen: 0.359 ng
RT: 14.250 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:154 Resp: 499

Ion	Ratio	Lower	Upper
154	100		
153	113.2	91.6	137.4
152	57.7	45.8	68.6



Instrument :
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ClientSampleId :
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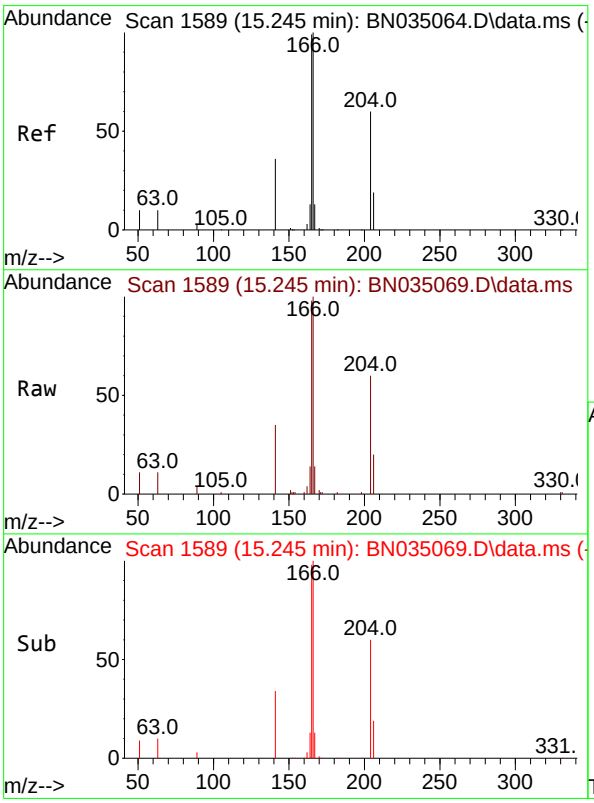
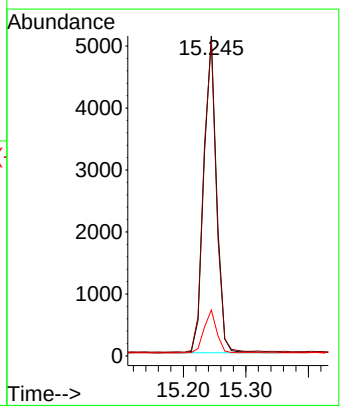
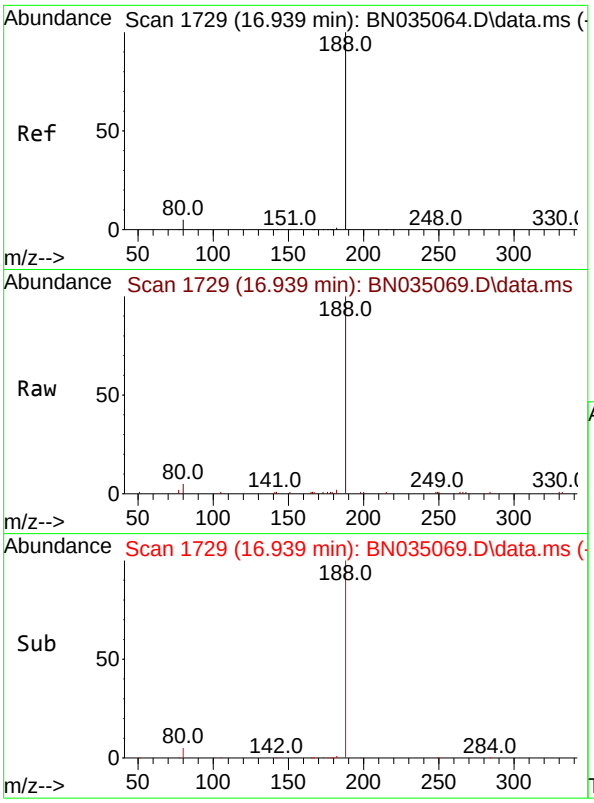


#18
Fluorene
Concen: 0.352 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:166 Resp: 7206

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.1	118.7
167	13.7	10.6	16.0

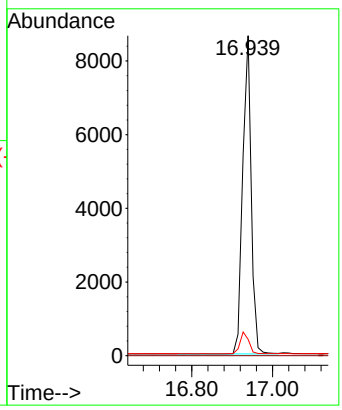




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:188 Resp: 1268

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.1	4.3	6.5



Instrument :
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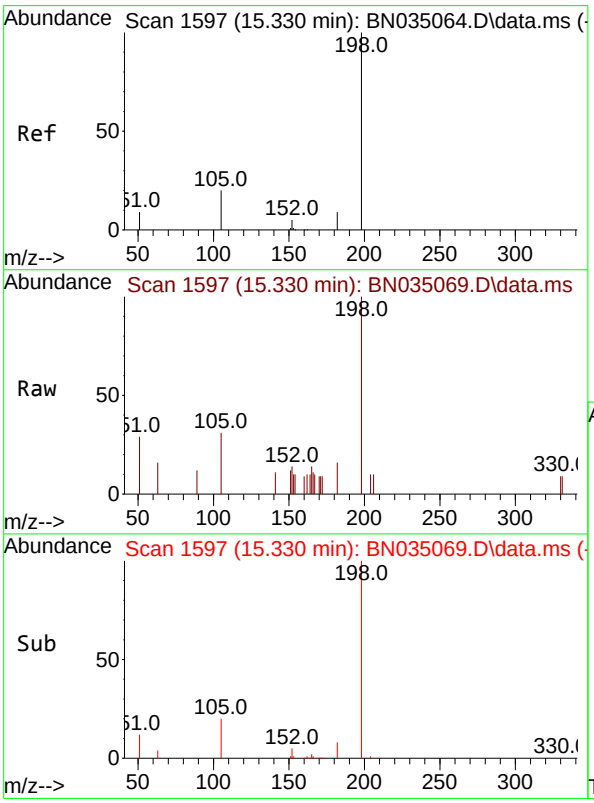
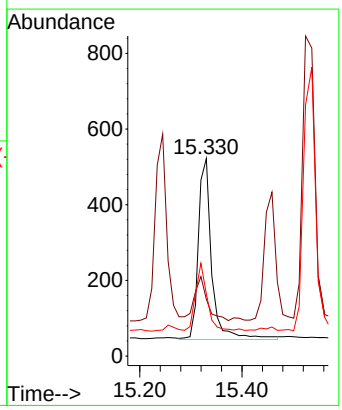
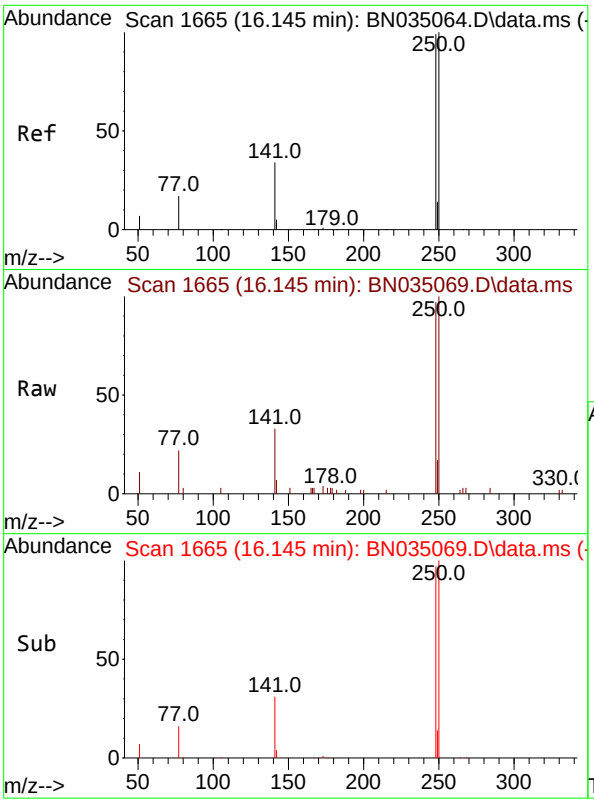


#20
4,6-Dinitro-2-methylphenol
Concen: 0.330 ng m
RT: 15.330 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:198 Resp: 870

Ion	Ratio	Lower	Upper
198	100		
51	28.7	29.9	44.9#
105	31.4	23.7	35.5





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.145 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:248 Resp: 300

Ion	Ratio	Lower	Upper
248	100		
250	103.6	81.2	121.8
141	34.5	29.1	43.7

Instrument :
BNA_N
ClientSampleId :
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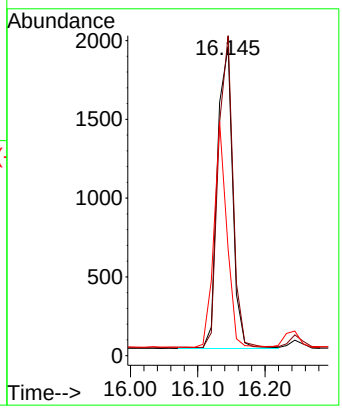
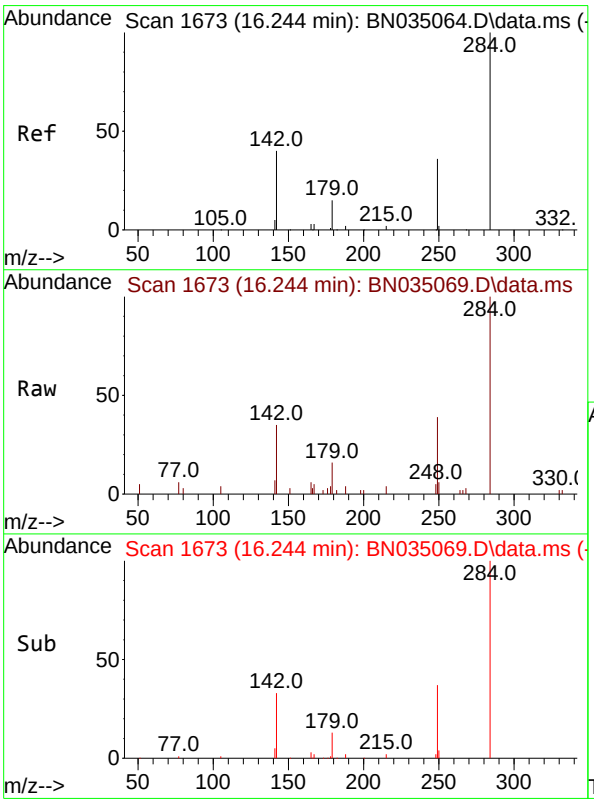
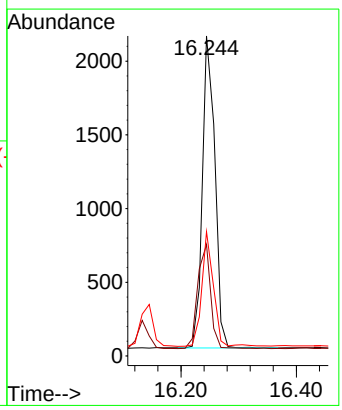


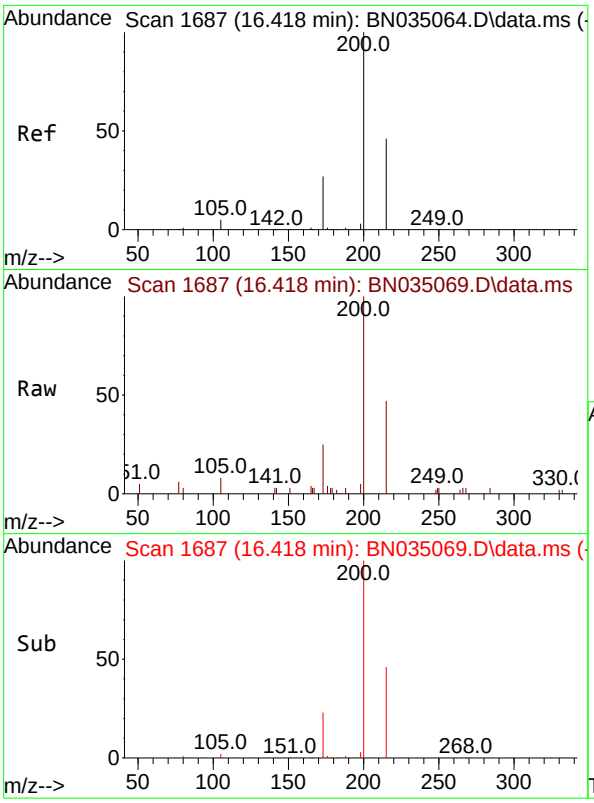


#22
Hexachlorobenzene
Concen: 0.379 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:284 Resp: 3175

Ion	Ratio	Lower	Upper
284	100		
142	34.7	28.2	42.4
249	33.7	26.2	39.2

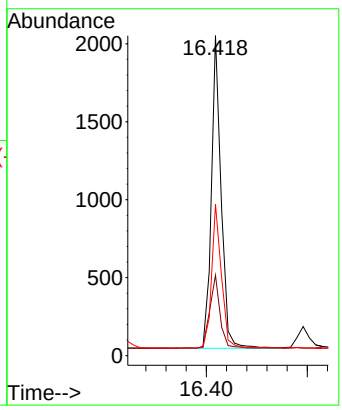




#23
Atrazine
Concen: 0.370 ng
RT: 16.418 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:200 Resp: 268

Ion	Ratio	Lower	Upper
200	100		
173	25.1	22.6	33.8
215	47.3	37.8	56.6



Instrument :
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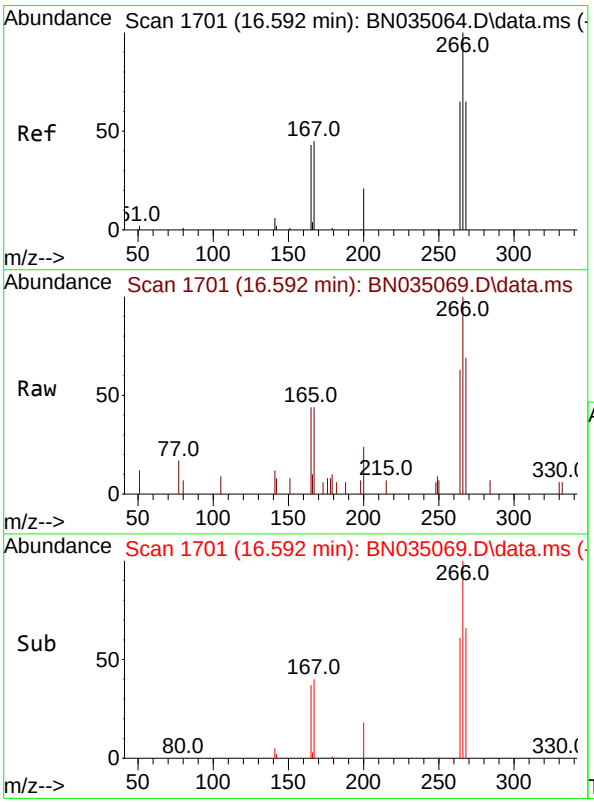
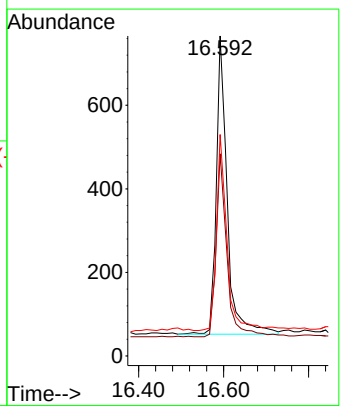
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

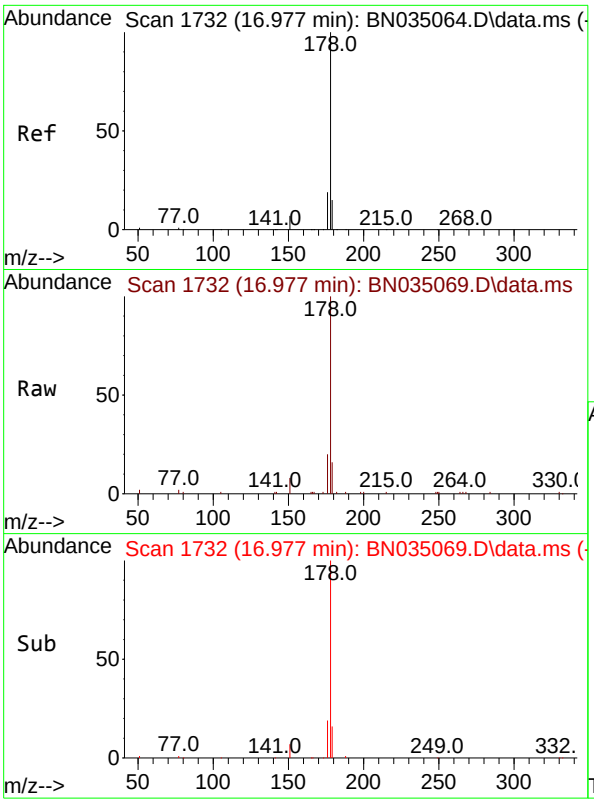


#24
Pentachlorophenol
Concen: 0.324 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:266 Resp: 1269

Ion	Ratio	Lower	Upper
266	100		
264	60.5	49.4	74.0
268	63.4	52.6	79.0

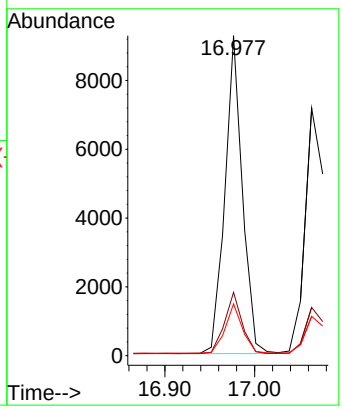




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.977 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:178 Resp: 1251

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.6	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

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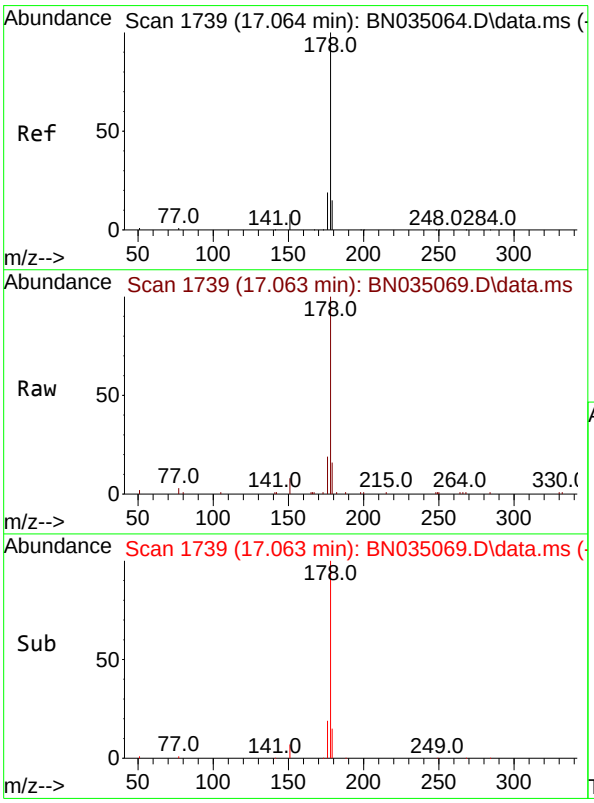
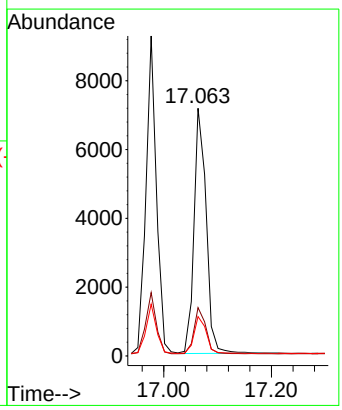
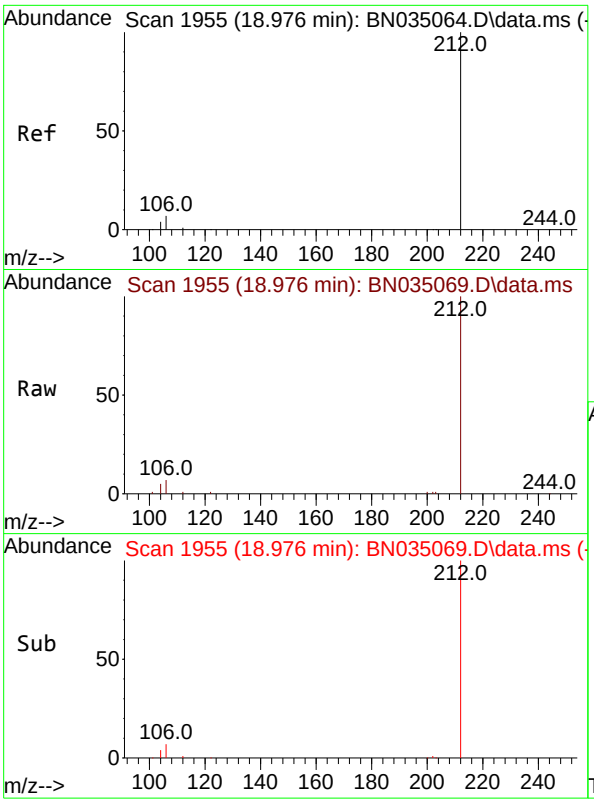


#26
Anthracene
Concen: 0.366 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:178 Resp: 11219

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.2	12.2	18.2

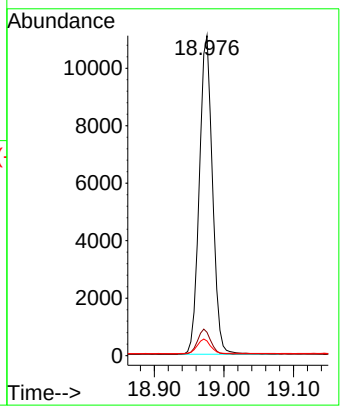




#27
Fluoranthene-d10
Concen: 0.374 ng
RT: 18.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:212 Resp: 1453

Ion	Ratio	Lower	Upper
212	100		
106	7.8	6.0	9.0
104	4.5	3.5	5.3



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

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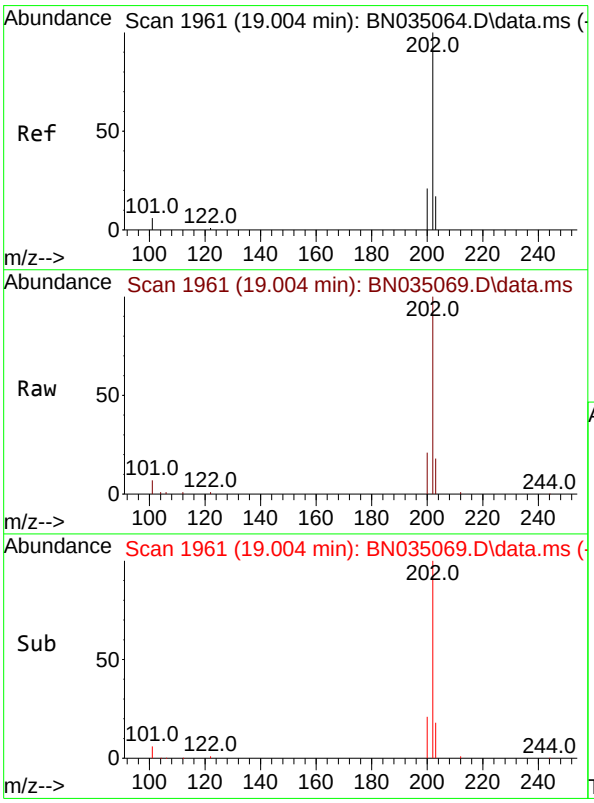
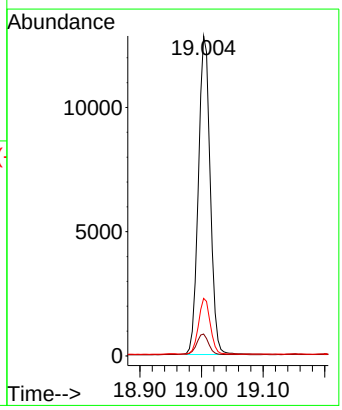
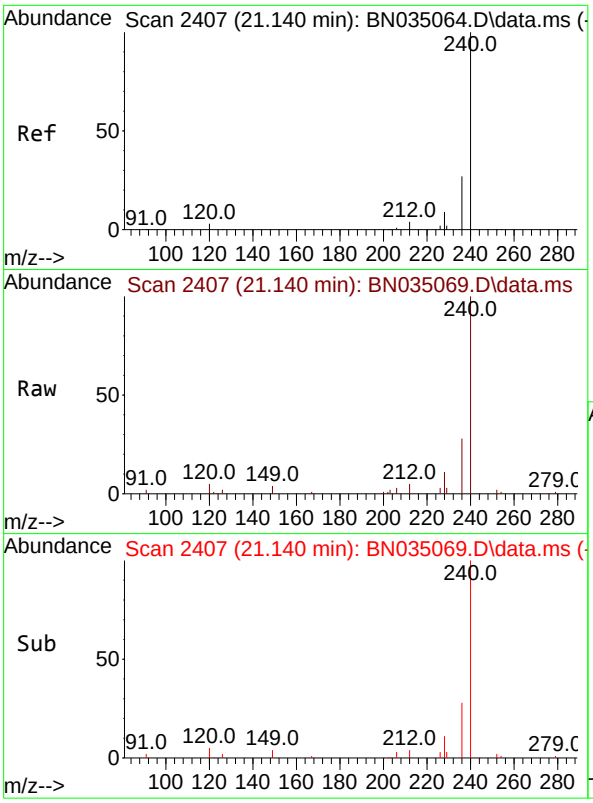


#28
Fluoranthene
Concen: 0.372 ng
RT: 19.004 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:202 Resp: 17084

Ion	Ratio	Lower	Upper
202	100		
101	6.6	5.2	7.8
203	17.3	13.8	20.8

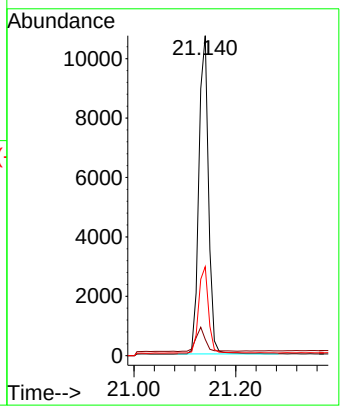




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.140 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:240 Resp: 1405

Ion	Ratio	Lower	Upper
240	100		
120	5.1	3.8	5.6
236	27.8	22.2	33.2



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

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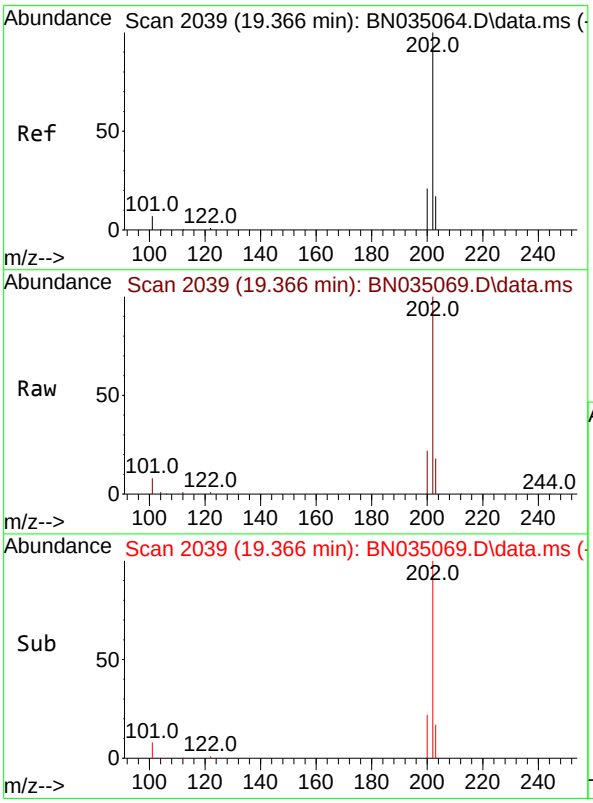
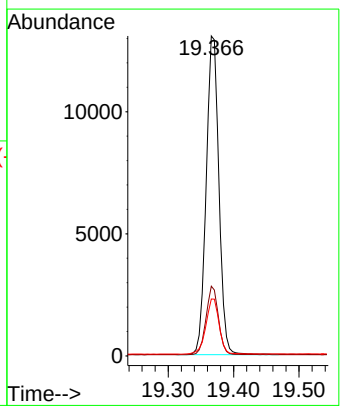
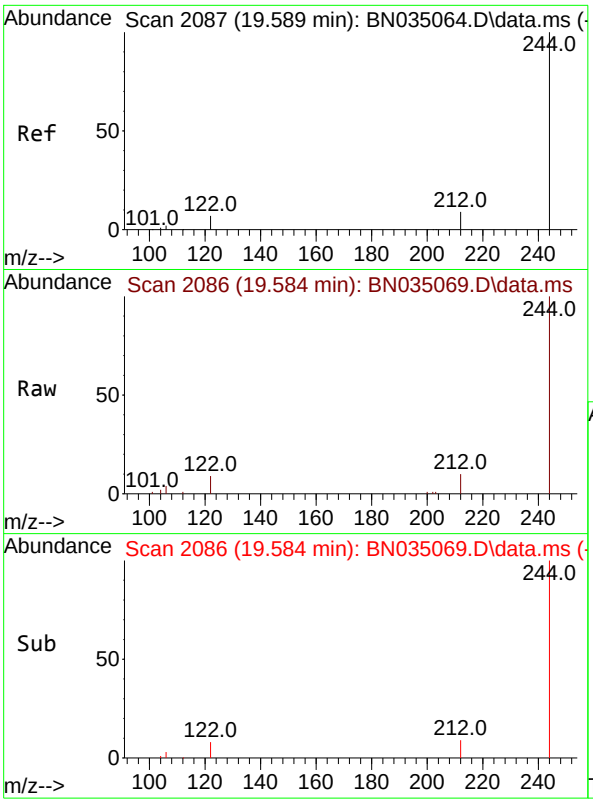


#30
Pyrene
Concen: 0.376 ng
RT: 19.366 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:202 Resp: 17580

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	18.1	14.2	21.4

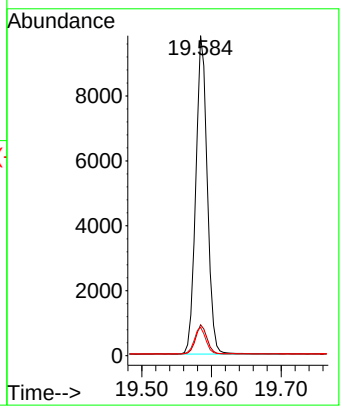




#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.584 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:244 Resp: 1124

Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.6	11.4
122	8.9	6.1	9.1



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

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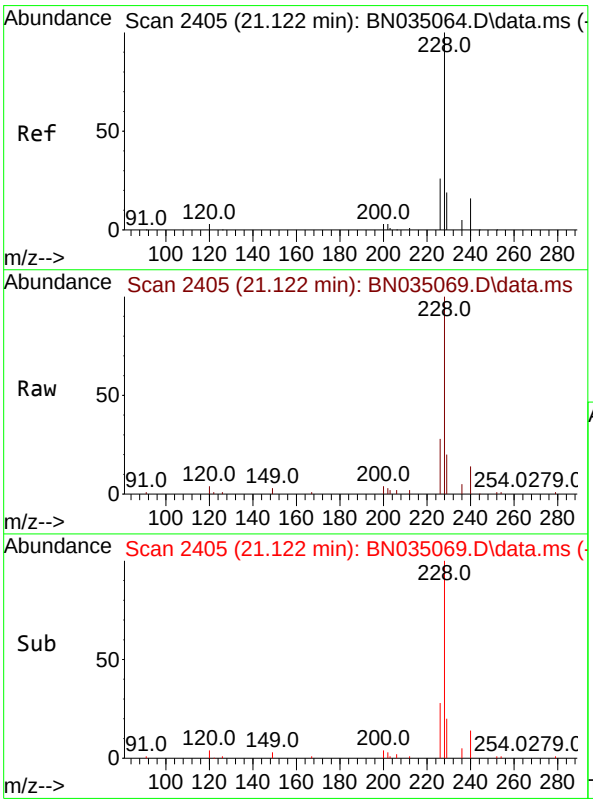
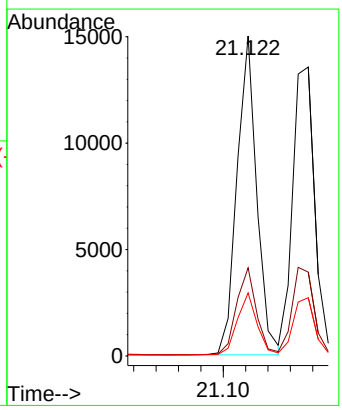
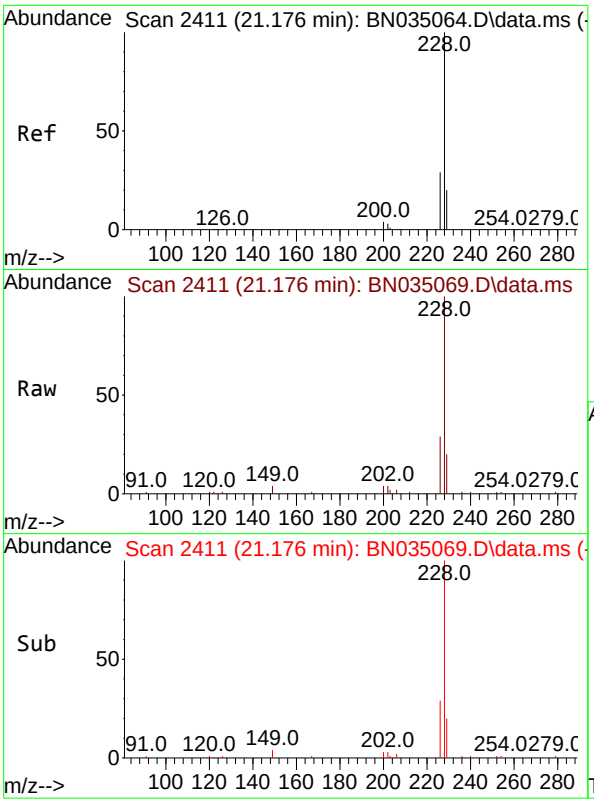


#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:228 Resp: 18406

Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.4	32.0
229	19.7	15.7	23.5

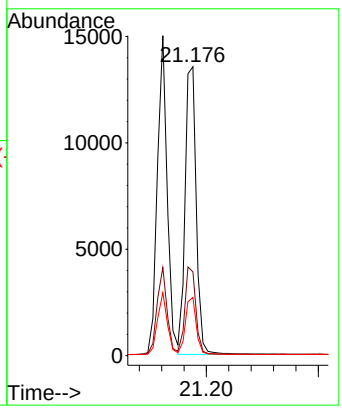




#33
Chrysene
Concen: 0.386 ng
RT: 21.176 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:228 Resp: 1869

Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.7	35.5
229	20.2	16.2	24.4



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

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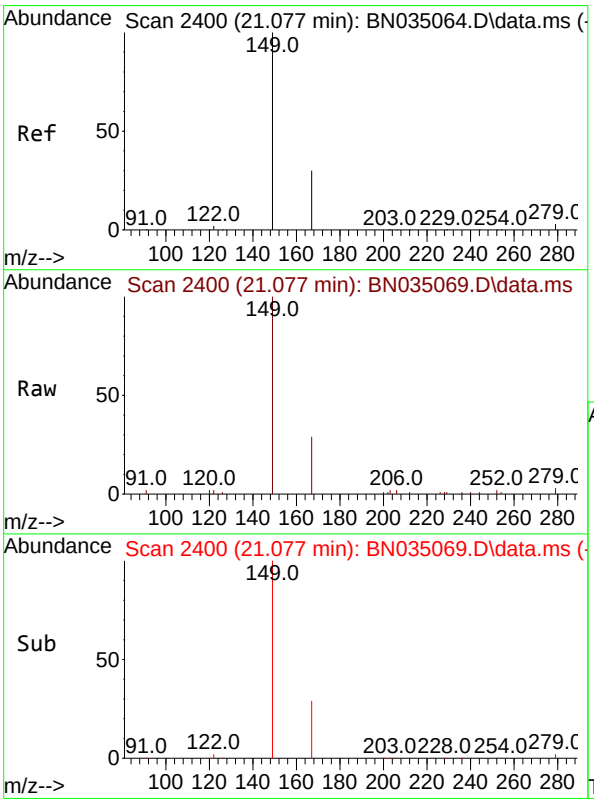
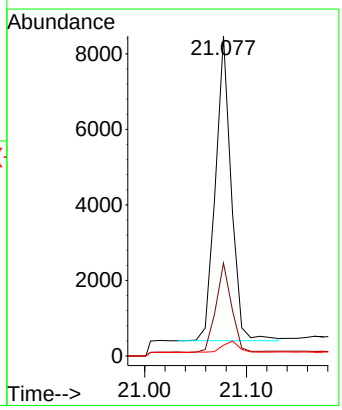
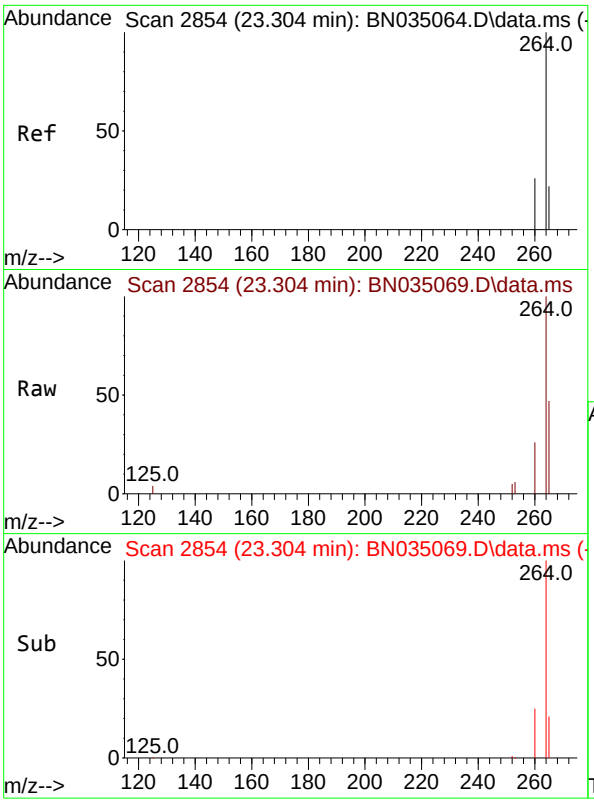


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.338 ng
RT: 21.077 min Scan# 2400
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:149 Resp: 8691

Ion	Ratio	Lower	Upper
149	100		
167	29.0	23.2	34.8
279	3.9	3.2	4.8

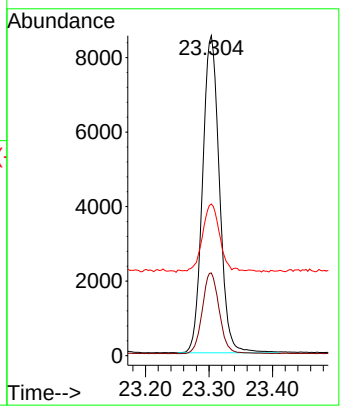




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.304 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:264 Resp: 1572

Ion	Ratio	Lower	Upper
264	100		
260	25.8	20.9	31.3
265	47.4	35.4	53.2



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

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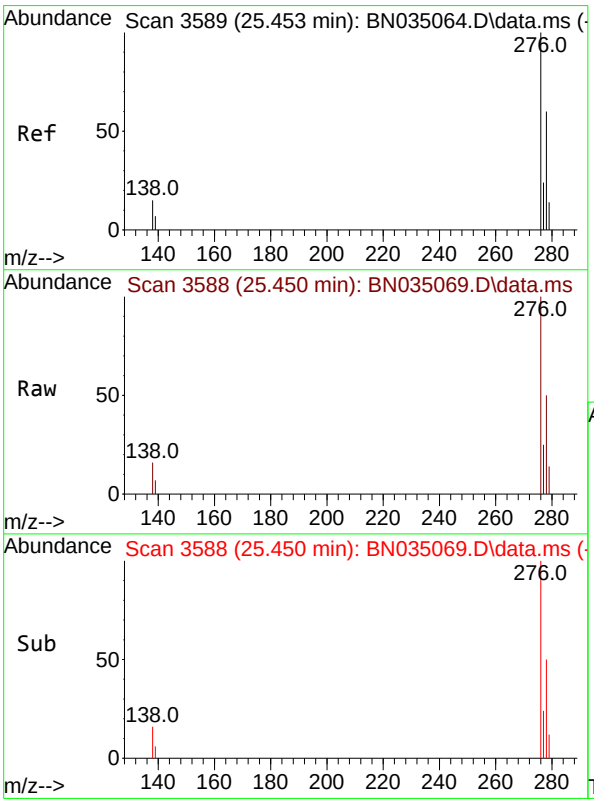
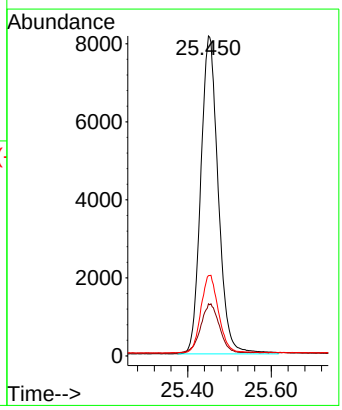
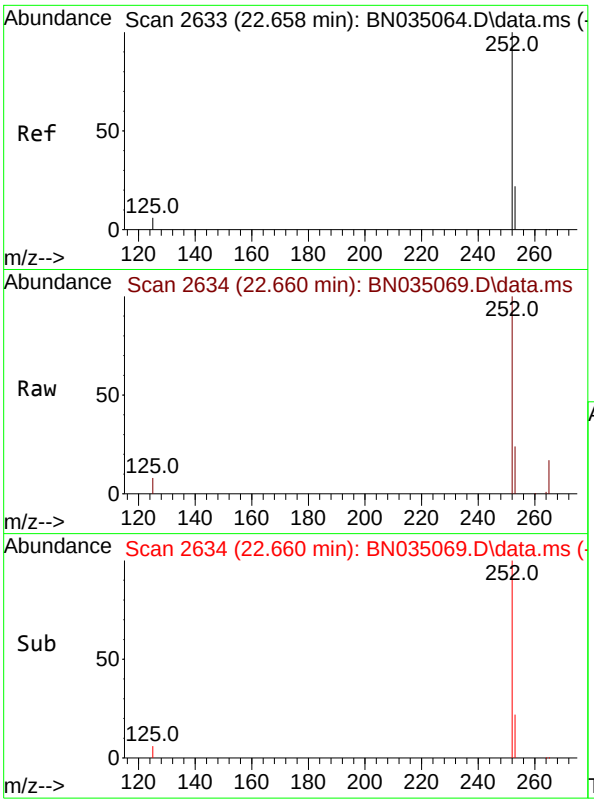


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.375 ng
RT: 25.450 min Scan# 3588
Delta R.T. -0.003 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:276 Resp: 23546

Ion	Ratio	Lower	Upper
276	100		
138	16.9	13.0	19.4
277	24.2	19.8	29.6

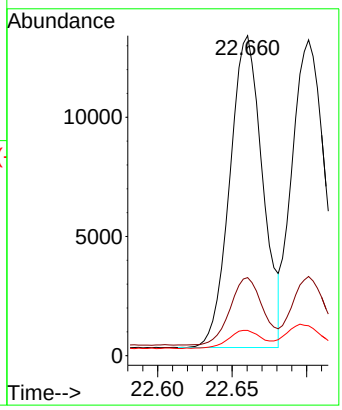




#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.660 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:252 Resp: 2003

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.3	28.9
125	7.9	6.2	9.2



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

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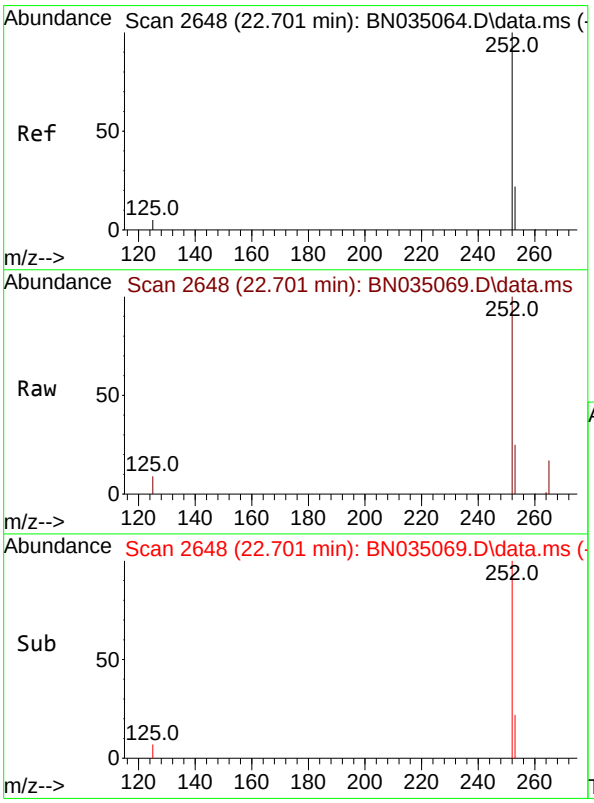
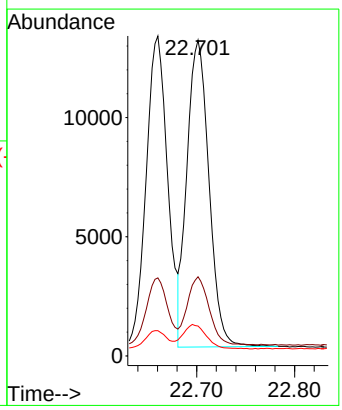
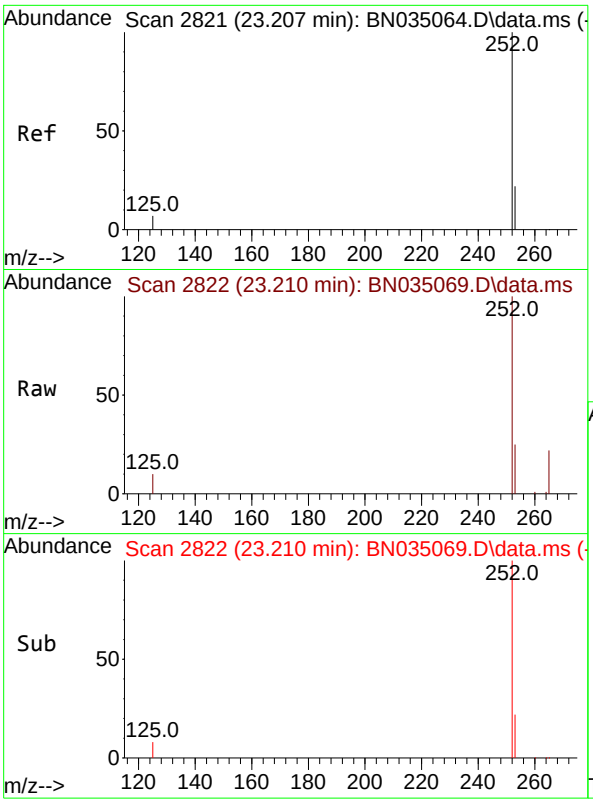


#38
Benzo(k)fluoranthene
Concen: 0.380 ng
RT: 22.701 min Scan# 2648
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:252 Resp: 20114

Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.5	29.3
125	9.5	6.5	9.7

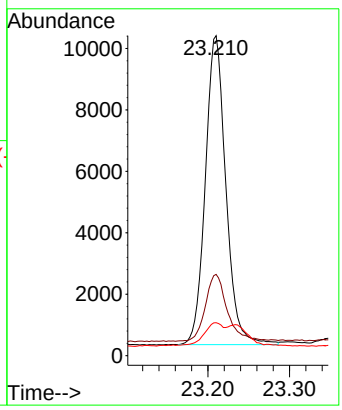




#39
Benzo(a)pyrene
Concen: 0.378 ng
RT: 23.210 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:252 Resp: 1759

Ion	Ratio	Lower	Upper
252	100		
253	25.4	20.1	30.1
125	10.3	7.5	11.3



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

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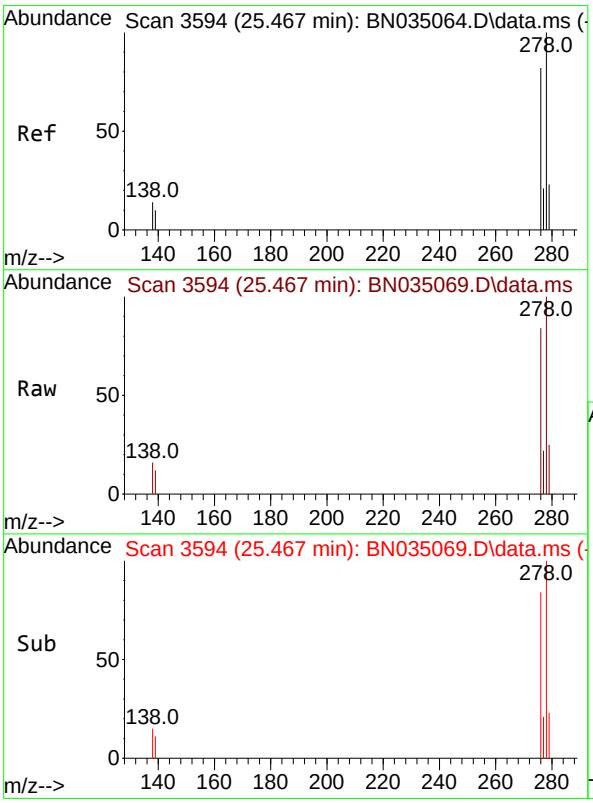
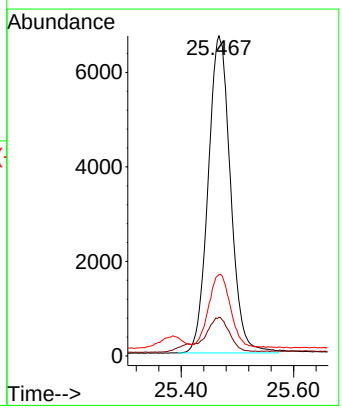
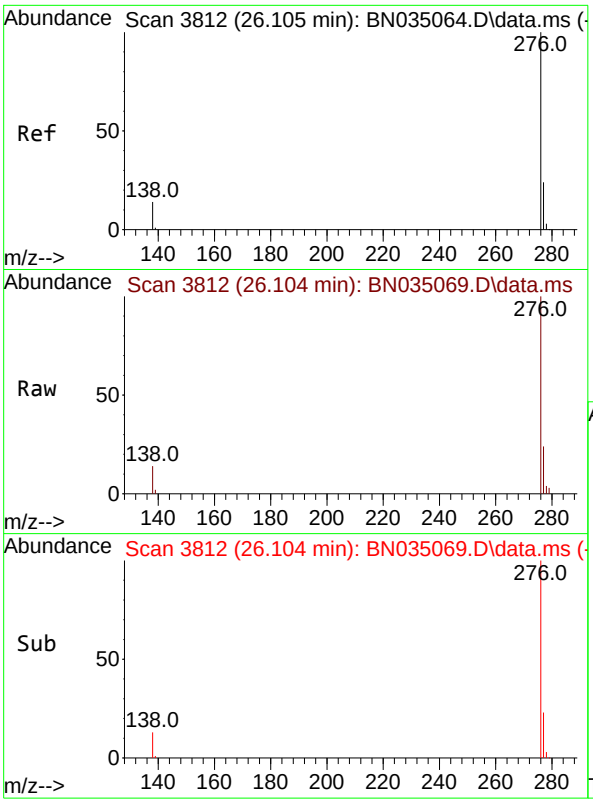


#40
Dibenzo(a,h)anthracene
Concen: 0.373 ng
RT: 25.467 min Scan# 3594
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:278 Resp: 18547

Ion	Ratio	Lower	Upper
278	100		
139	12.1	9.3	13.9
279	25.4	19.7	29.5

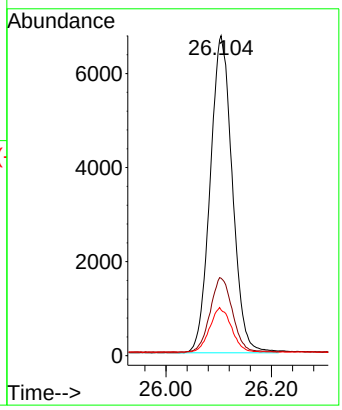




#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 26.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:276 Resp: 1964

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.9	29.9
138	14.3	11.6	17.4



Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Manual Integrations
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Supervised By :mohammad ahmed 11/14/2024

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
2		1,4-Dioxane	0.363	0.337	7.2	90	0.00
3		n-Nitrosodimethylamine	0.339	0.311	8.3	85	0.00
4	S	2-Fluorophenol	1.015	0.933	8.1	88	0.00
5	S	Phenol-d6	1.273	1.143	10.2	88	0.00
6		bis(2-Chloroethyl)ether	0.956	0.884	7.5	89	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
8	S	Nitrobenzene-d5	0.348	0.311	10.6	90	0.00
9		Naphthalene	1.044	0.957	8.3	91	0.00
10		Hexachlorobutadiene	0.306	0.285	6.9	90	0.00
11	SURR	2-Methylnaphthalene-d10	0.713	0.654	8.3	91	0.00
12		2-Methylnaphthalene	0.770	0.709	7.9	92	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
14	S	2,4,6-Tribromophenol	0.289	0.232	19.7	89	0.00
15	S	2-Fluorobiphenyl	1.624	1.451	10.7	91	0.00
16		Acenaphthylene	1.709	1.487	13.0	92	0.00
17		Acenaphthene	1.120	1.006	10.2	92	0.00
18		Fluorene	1.648	1.451	12.0	91	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00
20		4,6-Dinitro-2-methylphenol	0.083	0.069	16.9	89	0.00
21		4-Bromophenyl-phenylether	0.255	0.237	7.1	90	0.00
22		Hexachlorobenzene	0.264	0.250	5.3	93	0.00
23		Atrazine	0.229	0.211	7.9	92	0.00
24		Pentachlorophenol	0.124	0.100	19.4	91	0.00
25		Phenanthrene	1.053	0.987	6.3	92	0.00
26		Anthracene	0.967	0.885	8.5	90	0.00
27	SURR	Fluoranthene-d10	1.225	1.146	6.4	92	0.00
28		Fluoranthene	1.448	1.347	7.0	91	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	94	0.00
30		Pyrene	1.332	1.251	6.1	91	0.00
31	S	Terphenyl-d14	0.839	0.800	4.6	93	0.00
32		Benzo(a)anthracene	1.393	1.310	6.0	93	0.00
33		Chrysene	1.380	1.330	3.6	94	0.00
34		Bis(2-ethylhexyl)phthalate	0.731	0.618	15.5	90	0.00
35	I	Perylene-d12	1.000	1.000	0.0	92	0.00
36		Indeno(1,2,3-cd)pyrene	1.596	1.497	6.2	91	0.00
37		Benzo(b)fluoranthene	1.346	1.274	5.3	92	0.00
38		Benzo(k)fluoranthene	1.347	1.279	5.0	92	0.00
39	C	Benzo(a)pyrene	1.184	1.119	5.5	92	0.00
40		Dibenzo(a,h)anthracene	1.264	1.180	6.6	90	0.00
41		Benzo(g,h,i)perylene	1.345	1.250	7.1	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	89	0.00
2		1,4-Dioxane	0.400	0.371	7.3	90	0.00
3		n-Nitrosodimethylamine	0.400	0.368	8.0	85	0.00
4	S	2-Fluorophenol	0.400	0.368	8.0	88	0.00
5	S	Phenol-d6	0.400	0.359	10.3	88	0.00
6		bis(2-Chloroethyl)ether	0.400	0.370	7.5	89	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	93	0.00
8	S	Nitrobenzene-d5	0.400	0.358	10.5	90	0.00
9		Naphthalene	0.400	0.366	8.5	91	0.00
10		Hexachlorobutadiene	0.400	0.373	6.8	90	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.367	8.3	91	0.00
12		2-Methylnaphthalene	0.400	0.368	8.0	92	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	92	0.00
14	S	2,4,6-Tribromophenol	0.400	0.322	19.5	89	0.00
15	S	2-Fluorobiphenyl	0.400	0.357	10.8	91	0.00
16		Acenaphthylene	0.400	0.348	13.0	92	0.00
17		Acenaphthene	0.400	0.359	10.3	92	0.00
18		Fluorene	0.400	0.352	12.0	91	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	94	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.330	17.5	89	0.00
21		4-Bromophenyl-phenylether	0.400	0.371	7.3	90	0.00
22		Hexachlorobenzene	0.400	0.379	5.3	93	0.00
23		Atrazine	0.400	0.370	7.5	92	0.00
24		Pentachlorophenol	0.400	0.324	19.0	91	0.00
25		Phenanthrene	0.400	0.375	6.3	92	0.00
26		Anthracene	0.400	0.366	8.5	90	0.00
27	SURR	Fluoranthene-d10	0.400	0.374	6.5	92	0.00
28		Fluoranthene	0.400	0.372	7.0	91	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	94	0.00
30		Pyrene	0.400	0.376	6.0	91	0.00
31	S	Terphenyl-d14	0.400	0.381	4.8	93	0.00
32		Benzo(a)anthracene	0.400	0.376	6.0	93	0.00
33		Chrysene	0.400	0.386	3.5	94	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.338	15.5	90	0.00
35	I	Perylene-d12	0.400	0.400	0.0	92	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.375	6.3	91	0.00
37		Benzo(b)fluoranthene	0.400	0.379	5.3	92	0.00
38		Benzo(k)fluoranthene	0.400	0.380	5.0	92	0.00
39	C	Benzo(a)pyrene	0.400	0.378	5.5	92	0.00
40		Dibenzo(a,h)anthracene	0.400	0.373	6.8	90	0.00
41		Benzo(g,h,i)perylene	0.400	0.372	7.0	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_N Calibration Date/Time: 11/14/2024 10:12

Lab File ID: BN035082.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:40 16:15

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.713	0.656		-8.0	20.0
Fluoranthene-d10	1.225	1.132		-7.6	20.0
2-Fluorophenol	1.015	0.916		-9.8	20.0
Phenol-d6	1.273	1.184		-7.0	20.0
Nitrobenzene-d5	0.348	0.308		-11.5	20.0
Naphthalene	1.044	0.964		-7.7	20.0
2-Methylnaphthalene	0.770	0.709		-7.9	20.0
2-Fluorobiphenyl	1.624	1.452		-10.6	20.0
Acenaphthylene	1.709	1.480		-13.4	20.0
Acenaphthene	1.120	0.995		-11.2	20.0
Fluorene	1.648	1.459		-11.5	20.0
2,4,6-Tribromophenol	0.289	0.230		-20.4	20.0
Phenanthrene	1.053	1.000		-5.0	20.0
Anthracene	0.967	0.893		-7.7	20.0
Fluoranthene	1.448	1.348		-6.9	20.0
Pyrene	1.332	1.312		-1.5	20.0
Terphenyl-d14	0.839	0.812		-3.2	20.0
Benzo(a)anthracene	1.393	1.316		-5.5	20.0
Chrysene	1.380	1.342		-2.8	20.0
Benzo(b)fluoranthene	1.346	1.294		-3.9	20.0
Benzo(k)fluoranthene	1.347	1.354		0.5	20.0
Benzo(a)pyrene	1.184	1.122		-5.2	20.0
Indeno(1,2,3-cd)pyrene	1.596	1.484		-7.0	20.0
Dibenzo(a,h)anthracene	1.264	1.174		-7.1	20.0
Benzo(g,h,i)perylene	1.345	1.208		-10.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035082.D
Acq On : 14 Nov 2024 10:12
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 14 11:23:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

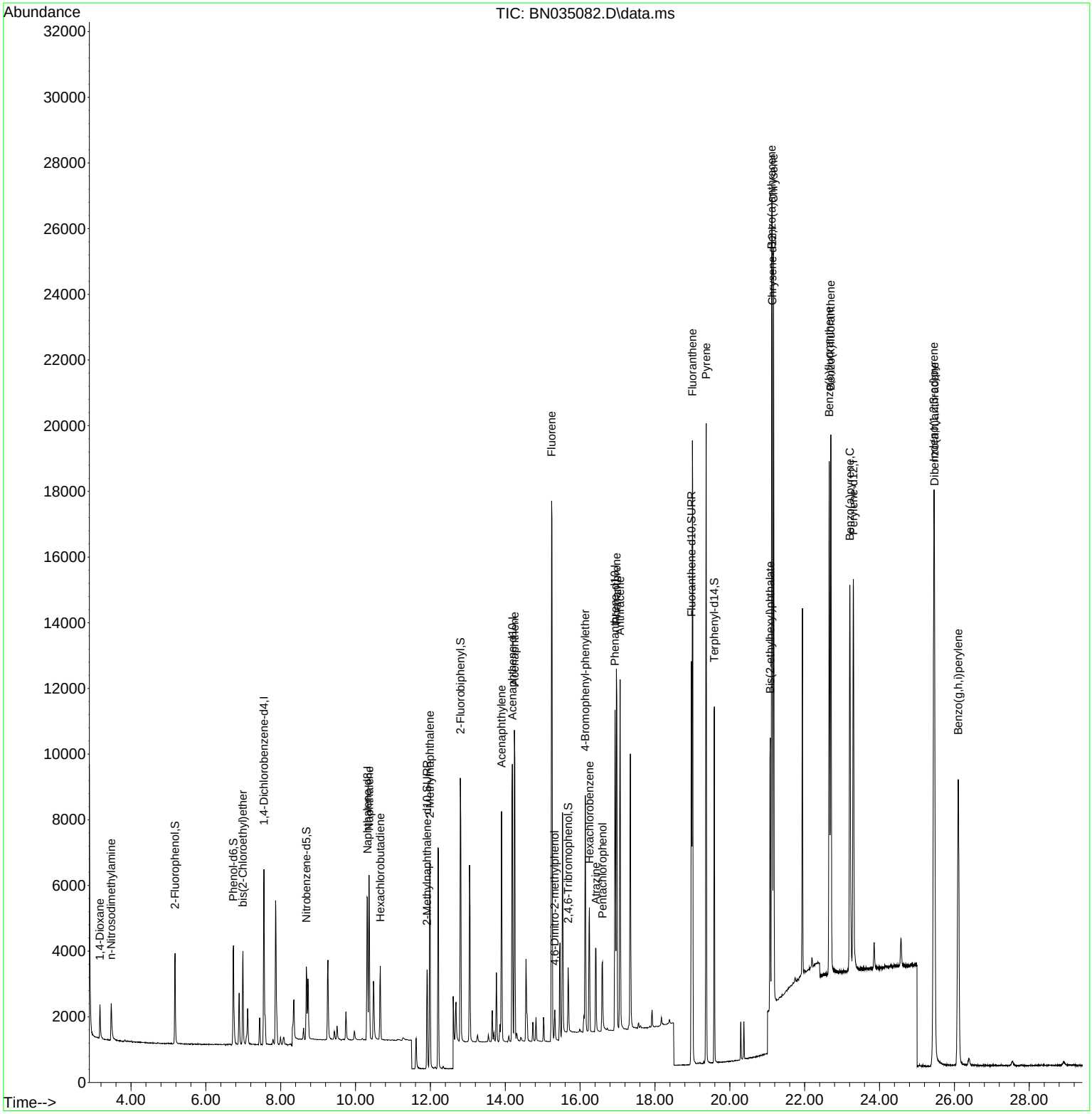
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	2551	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	6362	0.400	ng		0.00
13) Acenaphthene-d10	14.190	164	5037	0.400	ng		0.00
19) Phenanthrene-d10	16.933	188	12802	0.400	ng	#	0.00
29) Chrysene-d12	21.134	240	13485	0.400	ng	#	0.00
35) Perylene-d12	23.300	264	14730	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	2337	0.361	ng		0.00
5) Phenol-d6	6.737	99	3021	0.372	ng		0.00
8) Nitrobenzene-d5	8.685	82	1962	0.354	ng		-0.01
11) 2-Methylnaphthalene-d10	11.912	152	4174	0.368	ng		0.00
14) 2,4,6-Tribromophenol	15.679	330	1156	0.318	ng		0.00
15) 2-Fluorobiphenyl	12.800	172	7315	0.358	ng		0.00
27) Fluoranthene-d10	18.973	212	14490	0.369	ng		0.00
31) Terphenyl-d14	19.587	244	10949	0.387	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.169	88	904	0.390	ng		95
3) n-Nitrosodimethylamine	3.473	42	764	0.354	ng	#	91
6) bis(2-Chloroethyl)ether	6.990	93	2254	0.370	ng		100
9) Naphthalene	10.362	128	6136	0.369	ng		100
10) Hexachlorobutadiene	10.661	225	1828	0.375	ng	#	98
12) 2-Methylnaphthalene	11.988	142	4509	0.368	ng		100
16) Acenaphthylene	13.901	152	7457	0.346	ng		99
17) Acenaphthene	14.244	154	5010	0.355	ng		99
18) Fluorene	15.238	166	7349	0.354	ng		100
20) 4,6-Dinitro-2-methylph...	15.323	198	901	0.338	ng	#	87
21) 4-Bromophenyl-phenylether	16.138	248	3068	0.376	ng	#	87
22) Hexachlorobenzene	16.250	284	3196	0.378	ng		99
23) Atrazine	16.424	200	2496	0.341	ng	#	94
24) Pentachlorophenol	16.597	266	1334	0.337	ng		99
25) Phenanthrene	16.970	178	12799	0.380	ng		100
26) Anthracene	17.069	178	11435	0.370	ng		99
28) Fluoranthene	19.001	202	17255	0.372	ng		100
30) Pyrene	19.368	202	17691	0.394	ng		100
32) Benzo(a)anthracene	21.116	228	17743	0.378	ng		99
33) Chrysene	21.169	228	18097	0.389	ng		98
34) Bis(2-ethylhexyl)phtha...	21.080	149	7841	0.318	ng		100
36) Indeno(1,2,3-cd)pyrene	25.452	276	21866	0.372	ng		99
37) Benzo(b)fluoranthene	22.657	252	19067	0.385	ng		100
38) Benzo(k)fluoranthene	22.698	252	19945	0.402	ng		99
39) Benzo(a)pyrene	23.206	252	16523	0.379	ng		100
40) Dibenzo(a,h)anthracene	25.466	278	17299	0.372	ng		98
41) Benzo(g,h,i)perylene	26.101	276	17799	0.359	ng		99

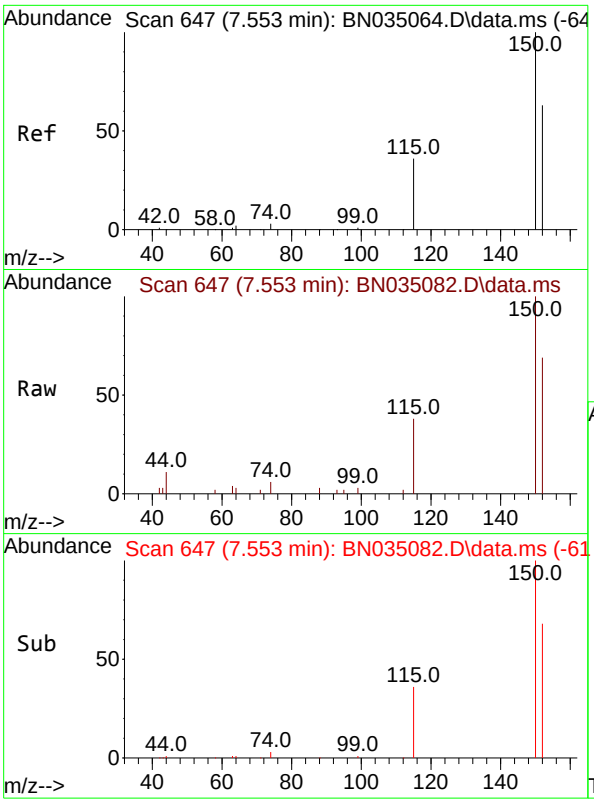
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035082.D
Acq On : 14 Nov 2024 10:12
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 14 11:23:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration



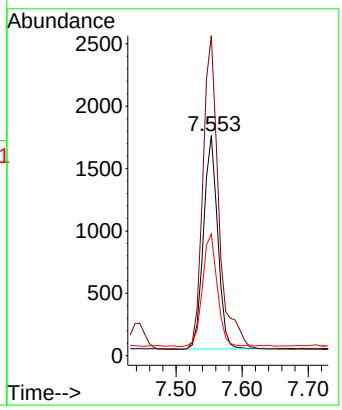


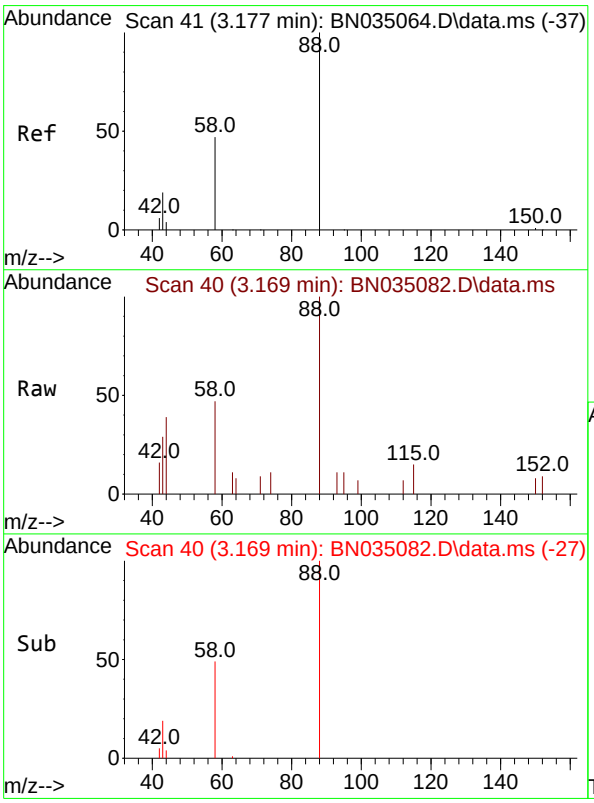
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2551

Ion	Ratio	Lower	Upper
152	100		
150	145.3	124.5	186.7
115	55.3	47.8	71.6

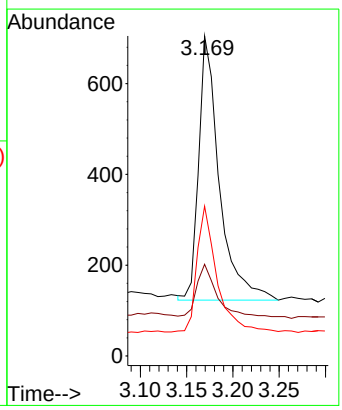


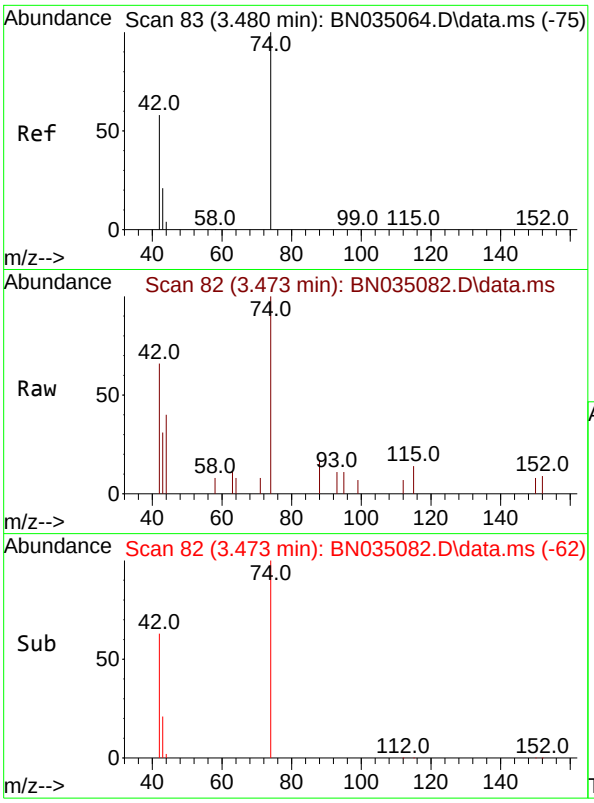


#2
1,4-Dioxane
Concen: 0.390 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion: 88 Resp: 904

Ion	Ratio	Lower	Upper
88	100		
43	18.6	16.9	25.3
58	45.7	39.0	58.4



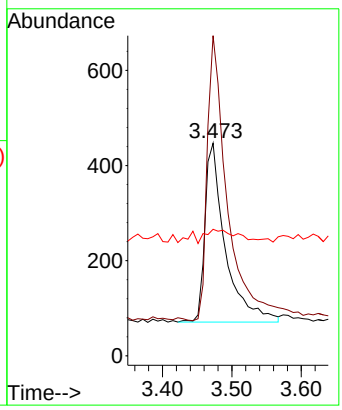


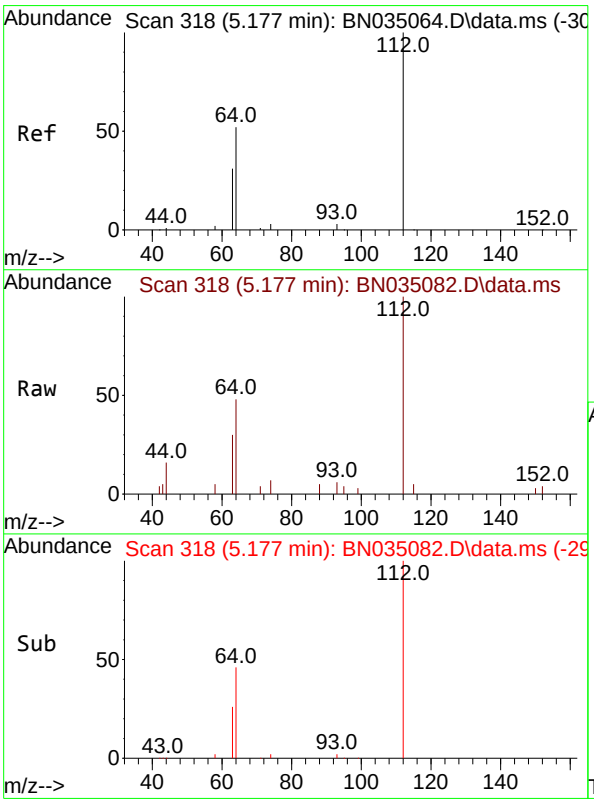
#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.473 min Scan# 8
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 764

Ion	Ratio	Lower	Upper
42	100		
74	162.4	120.8	181.2
44	12.7	2.9	4.3#

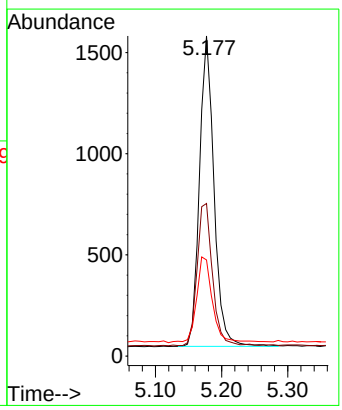


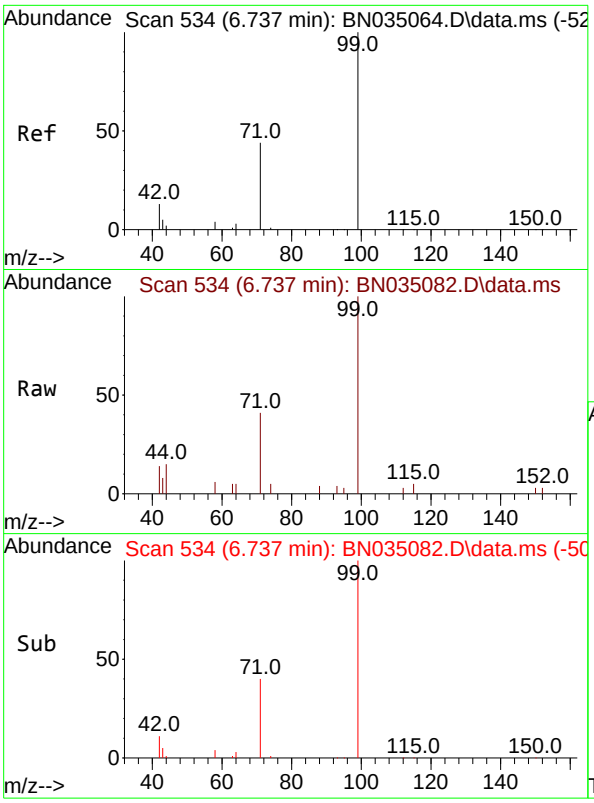


#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:112 Resp: 2337

Ion	Ratio	Lower	Upper
112	100		
64	48.7	39.7	59.5
63	30.6	23.0	34.4



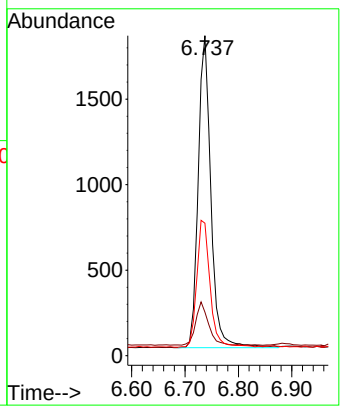


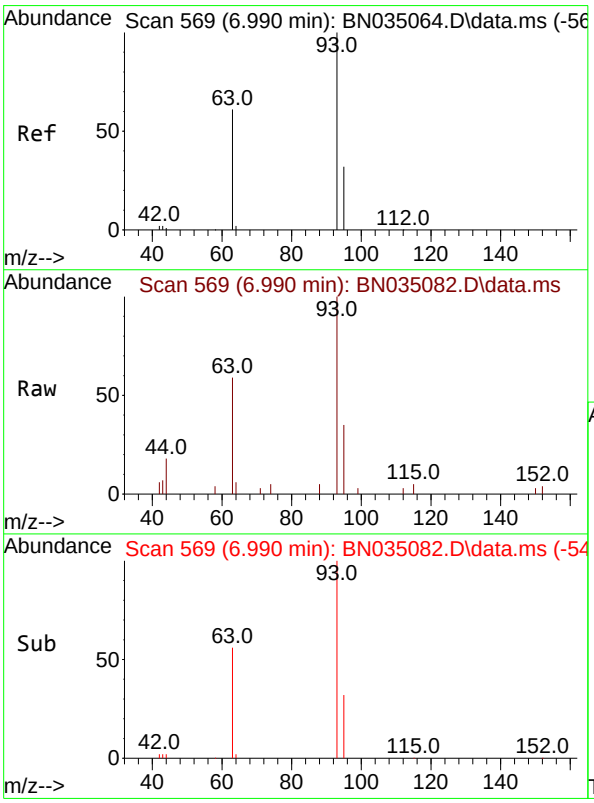
#5
Phenol-d6
Concen: 0.372 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 3021

Ion	Ratio	Lower	Upper
99	100		
42	13.5	11.4	17.0
71	42.6	34.6	51.8

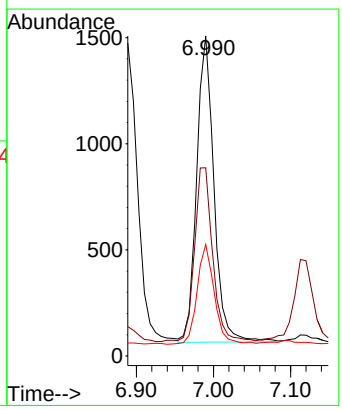


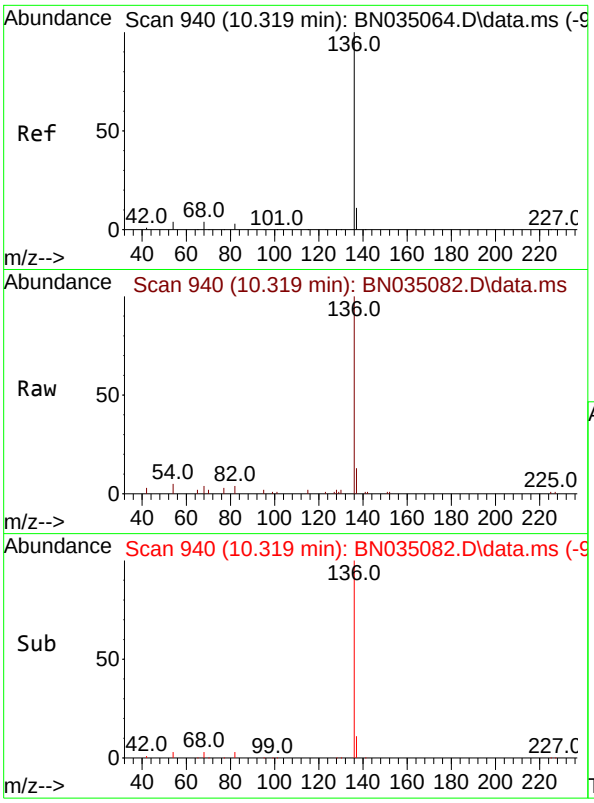


#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion: 93 Resp: 2254

Ion	Ratio	Lower	Upper
93	100		
63	59.5	47.4	71.2
95	32.5	26.2	39.4



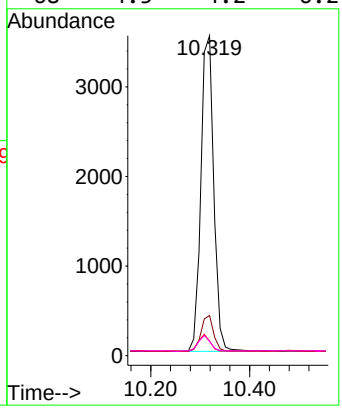


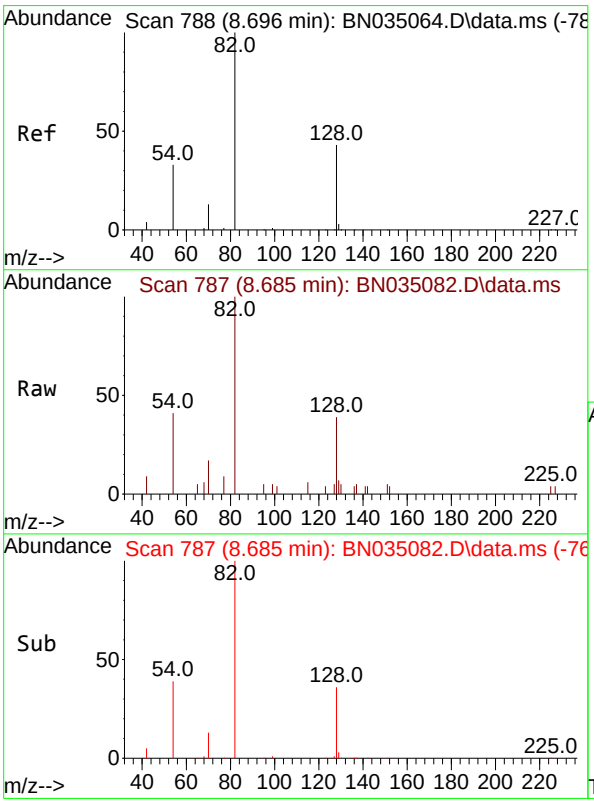
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 6362

Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.8	14.8
54	4.6	4.0	6.0
68	4.5	4.2	6.2

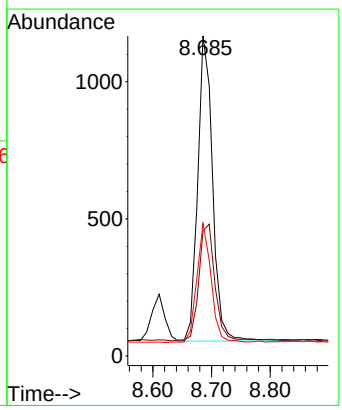


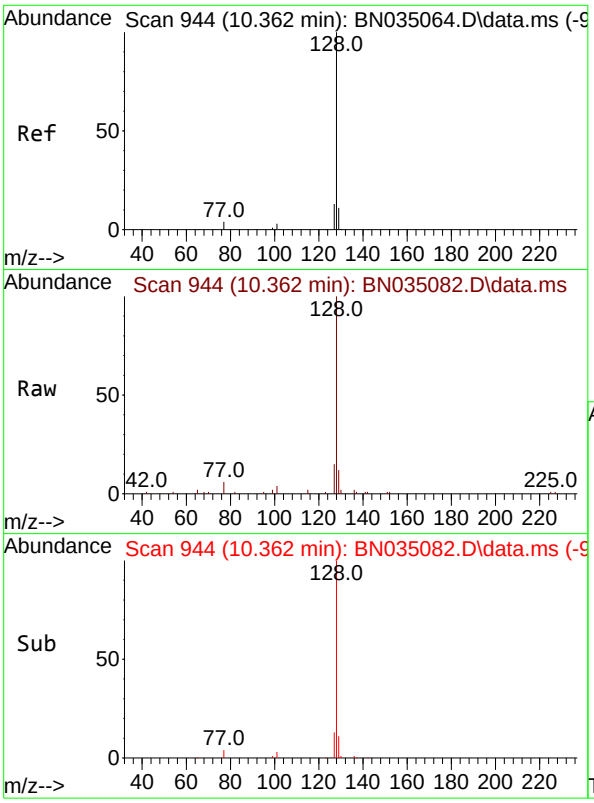


#8
Nitrobenzene-d5
Concen: 0.354 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion: 82 Resp: 1962

Ion	Ratio	Lower	Upper
82	100		
128	39.1	36.5	54.7
54	41.5	28.7	43.1



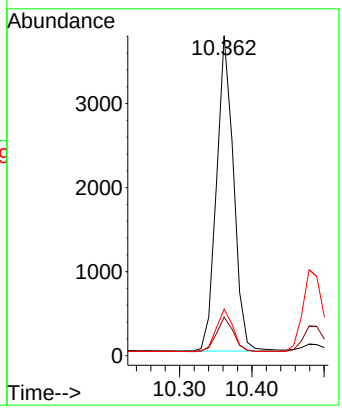


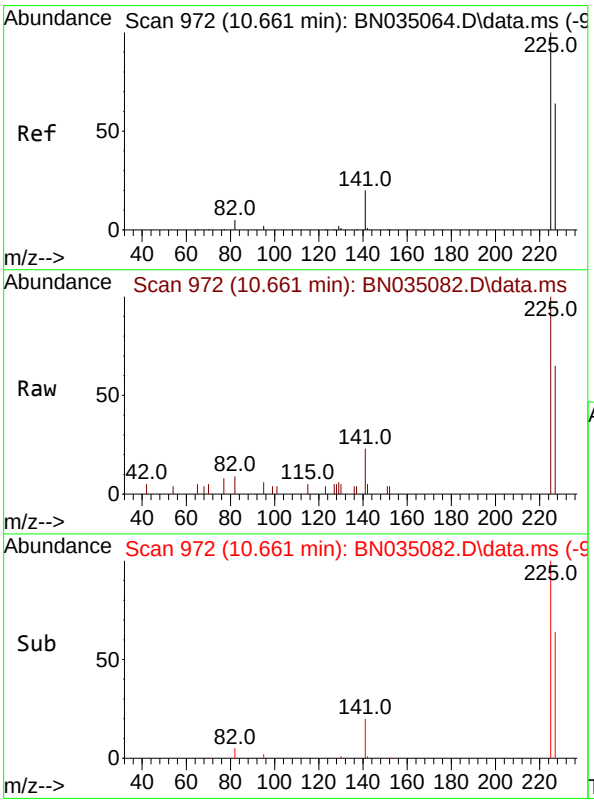
#9
Naphthalene
Concen: 0.369 ng
RT: 10.362 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 6136

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.6	14.4
127	14.6	11.6	17.4

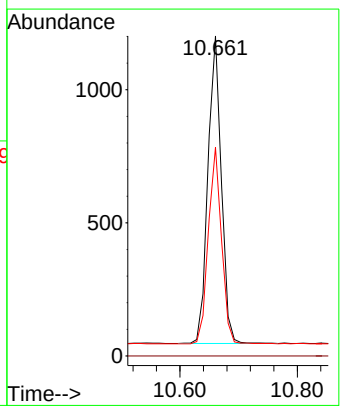


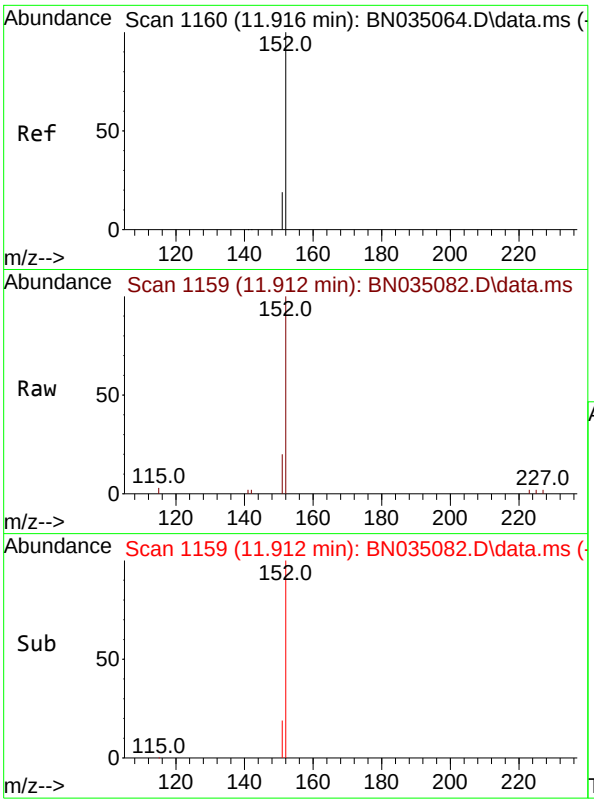


#10
Hexachlorobutadiene
Concen: 0.375 ng
RT: 10.661 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:225 Resp: 1828

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.0	51.5	77.3



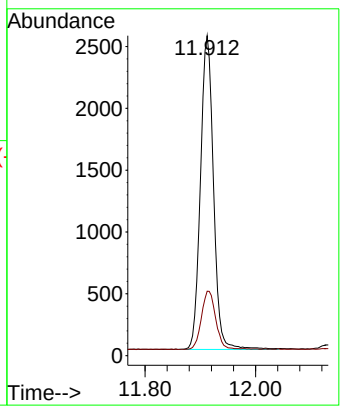


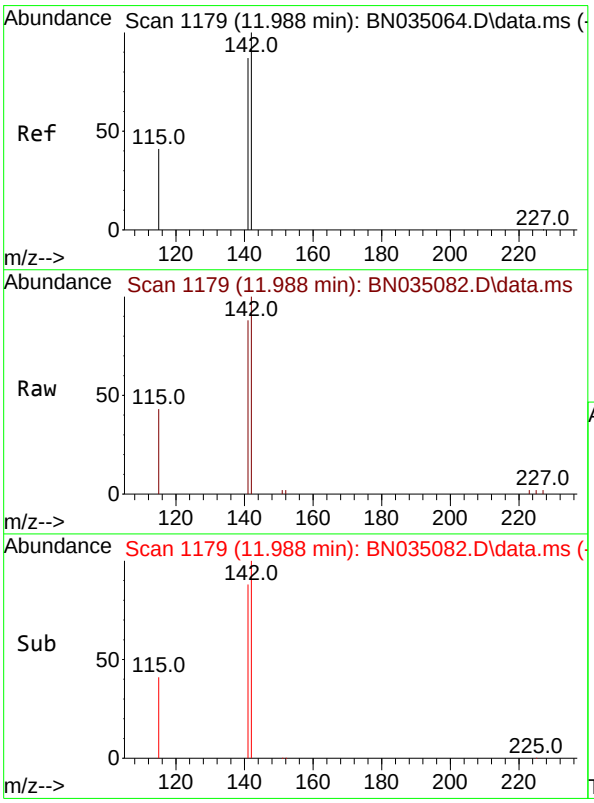
#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.912 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4174

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4

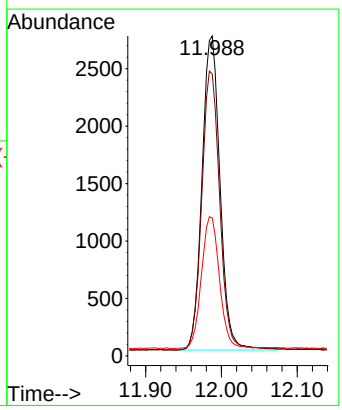


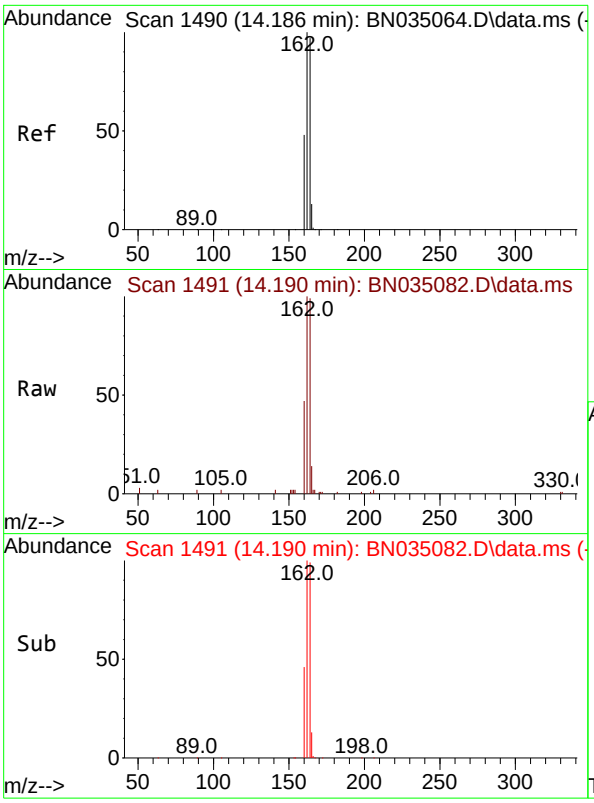


#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:142 Resp: 4509

Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.1	105.1
115	43.2	34.4	51.6



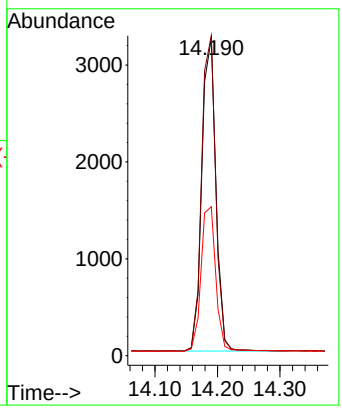


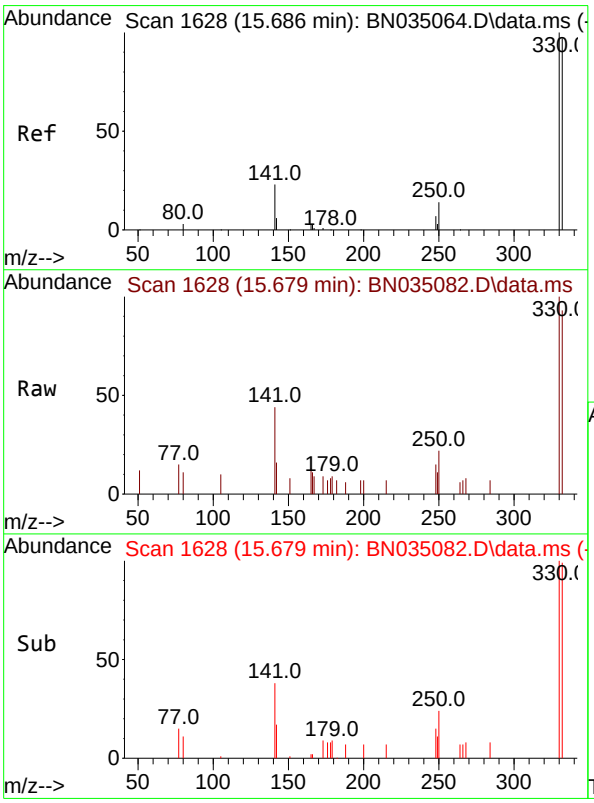
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5037

Ion	Ratio	Lower	Upper
164	100		
162	100.8	82.2	123.2
160	46.9	40.2	60.4

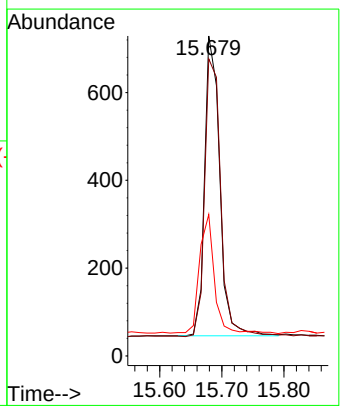


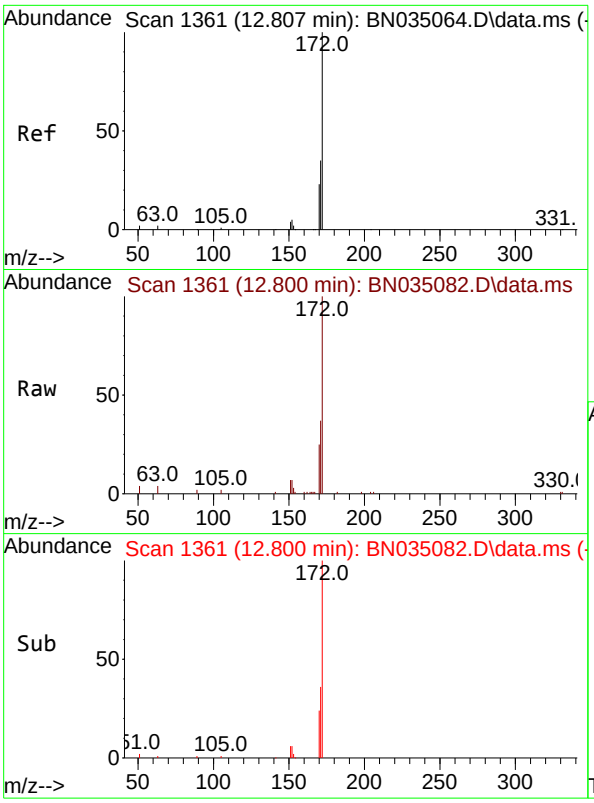


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:330 Resp: 1156

Ion	Ratio	Lower	Upper
330	100		
332	100.0	76.9	115.3
141	39.4	29.6	44.4



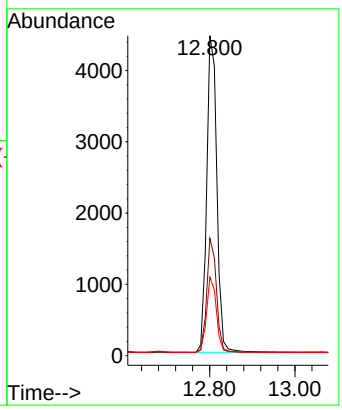


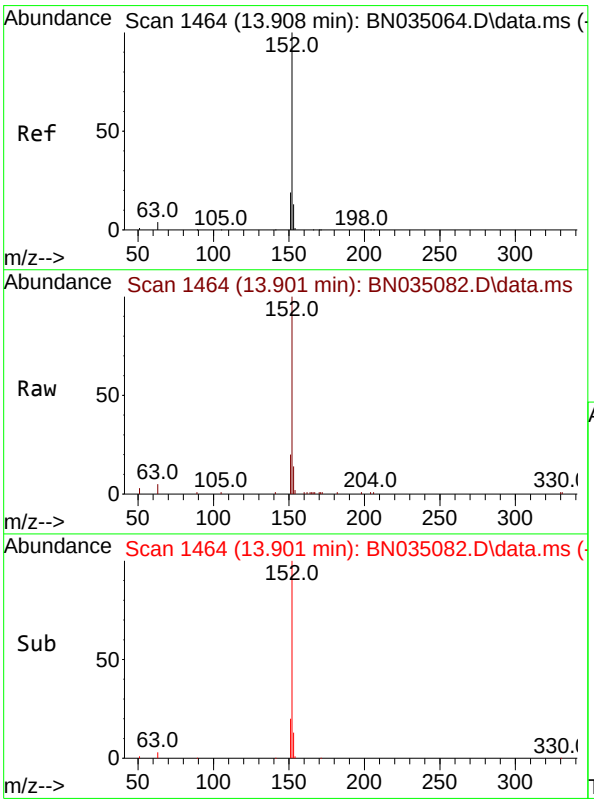
#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.800 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 7315

Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.2	42.4
170	24.5	19.0	28.6

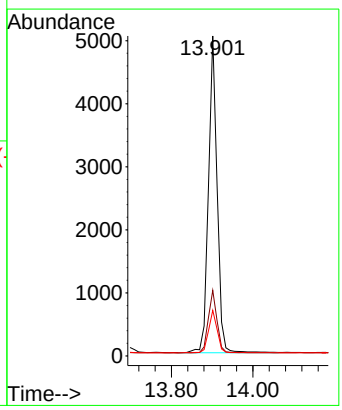


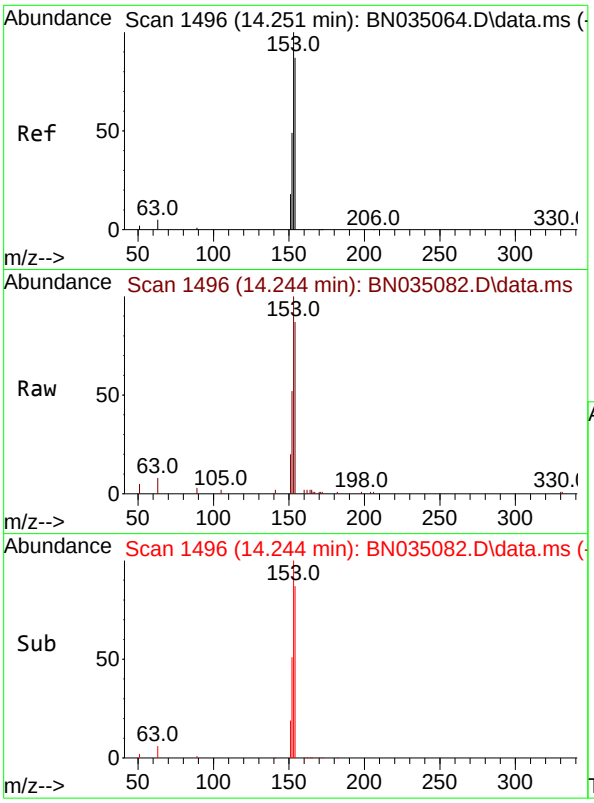


#16
Acenaphthylene
Concen: 0.346 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:152 Resp: 7457

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.6	10.2	15.4



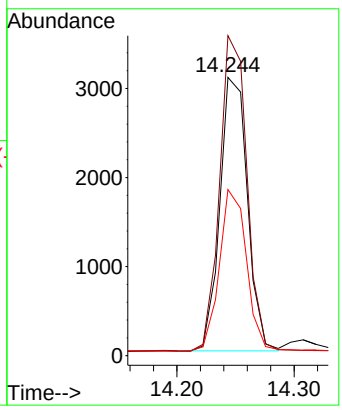


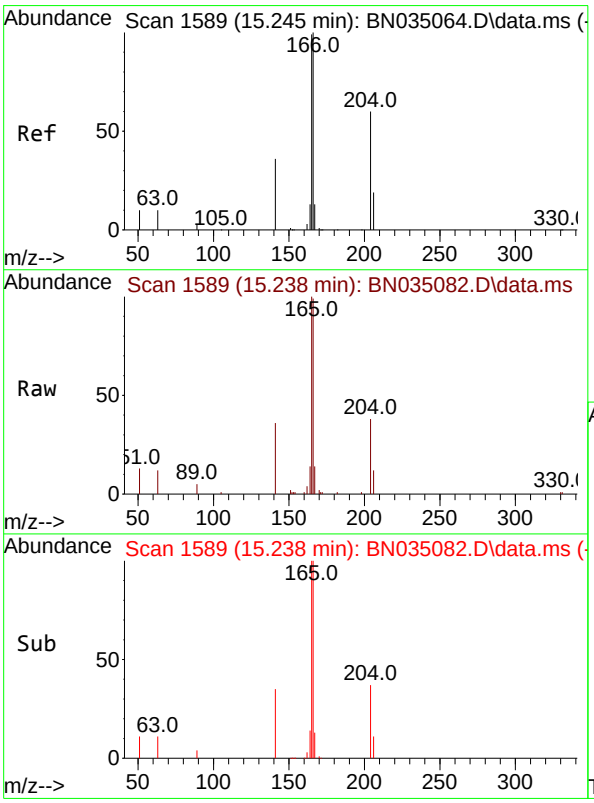
#17
Acenaphthene
Concen: 0.355 ng
RT: 14.244 min Scan# 14
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 5010

Ion	Ratio	Lower	Upper
154	100		
153	114.7	91.6	137.4
152	58.8	45.8	68.6

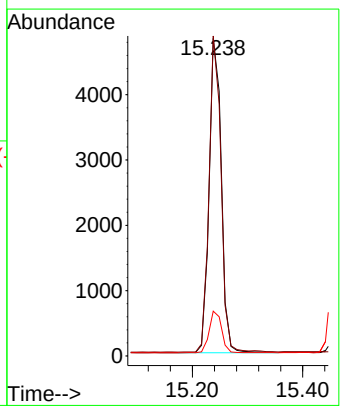


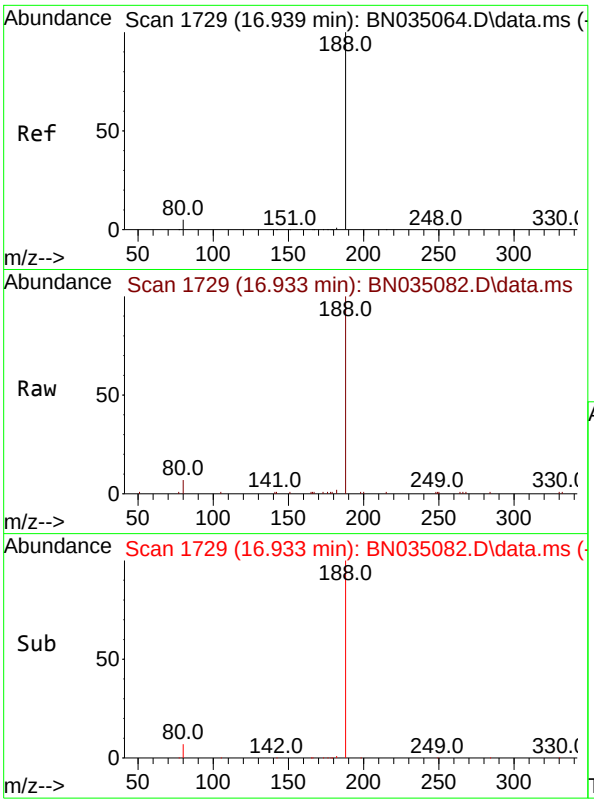


#18
Fluorene
Concen: 0.354 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:166 Resp: 7349

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.1	118.7
167	13.6	10.6	16.0



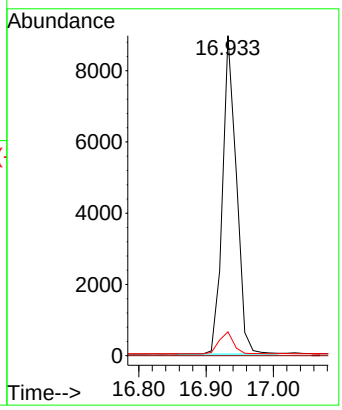


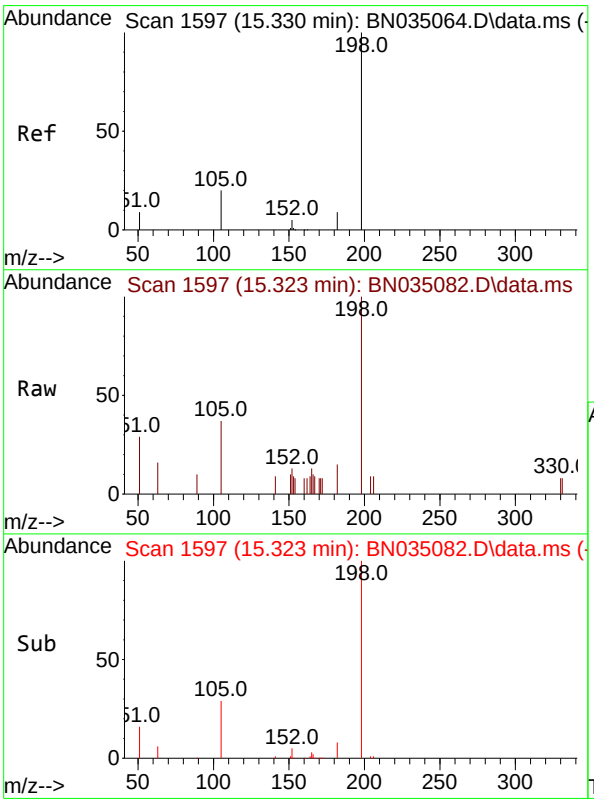
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.933 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 12802

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	4.3	6.5#

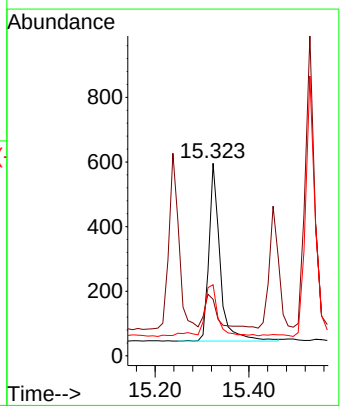


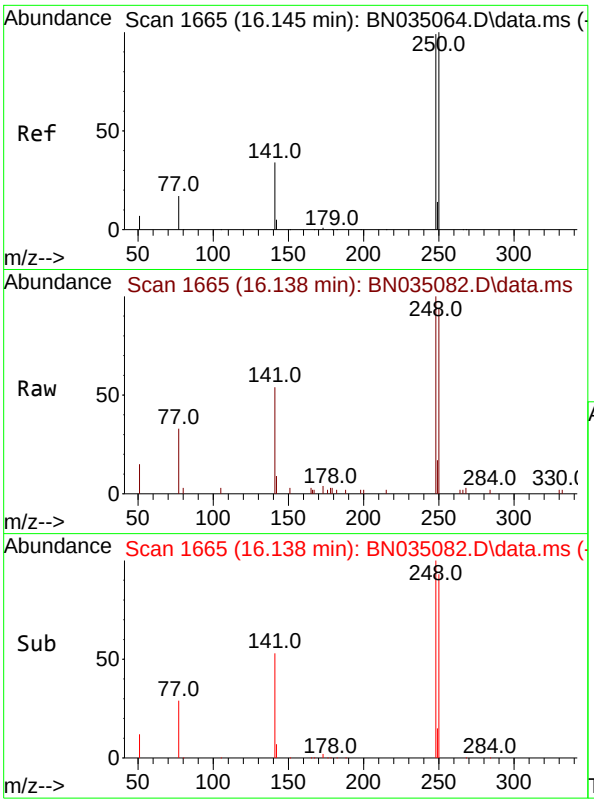


#20
4,6-Dinitro-2-methylphenol
Concen: 0.338 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:198 Resp: 901

Ion	Ratio	Lower	Upper
198	100		
51	29.4	29.9	44.9#
105	36.9	23.7	35.5#



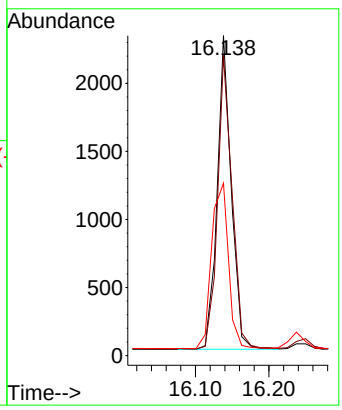


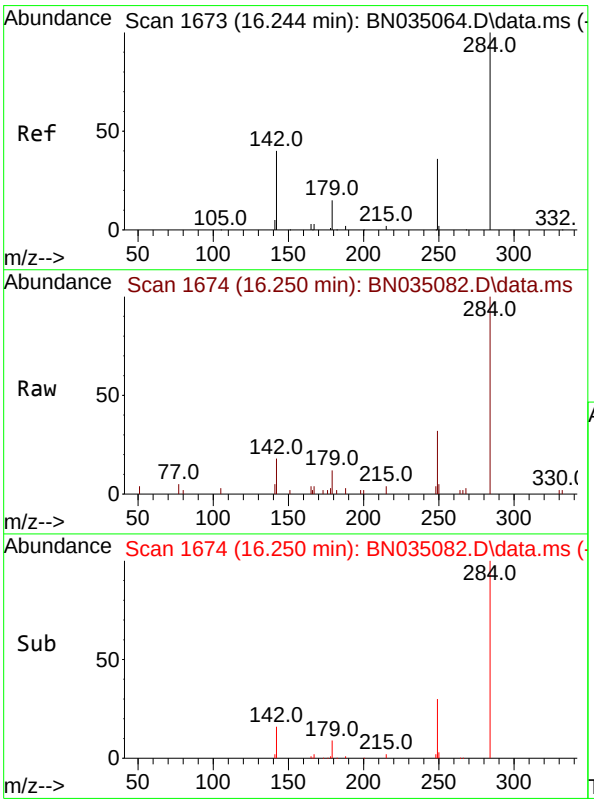
#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.138 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 3068

Ion	Ratio	Lower	Upper
248	100		
250	93.8	81.2	121.8
141	53.9	29.1	43.7#

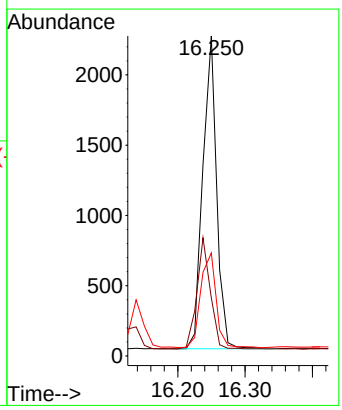


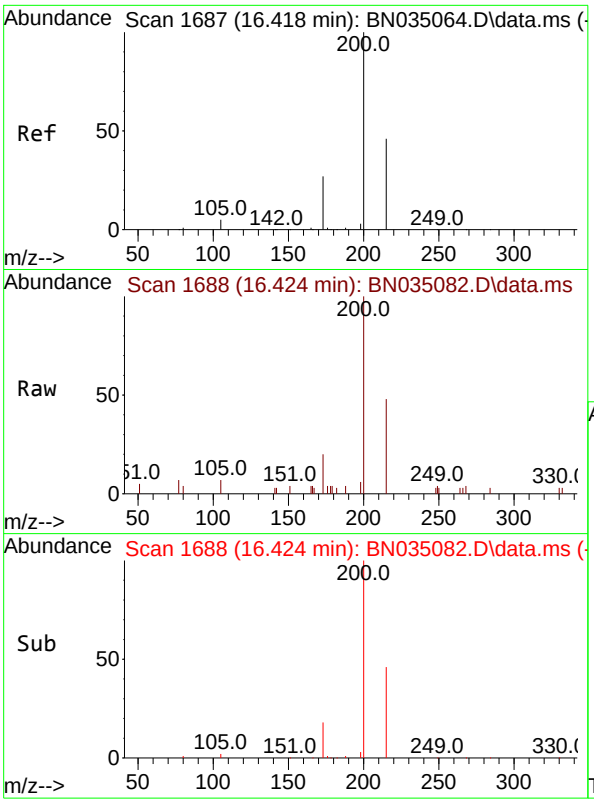


#22
Hexachlorobenzene
Concen: 0.378 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:284 Resp: 3196

Ion	Ratio	Lower	Upper
284	100		
142	34.6	28.2	42.4
249	33.6	26.2	39.2



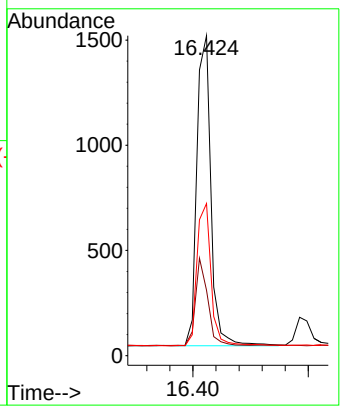


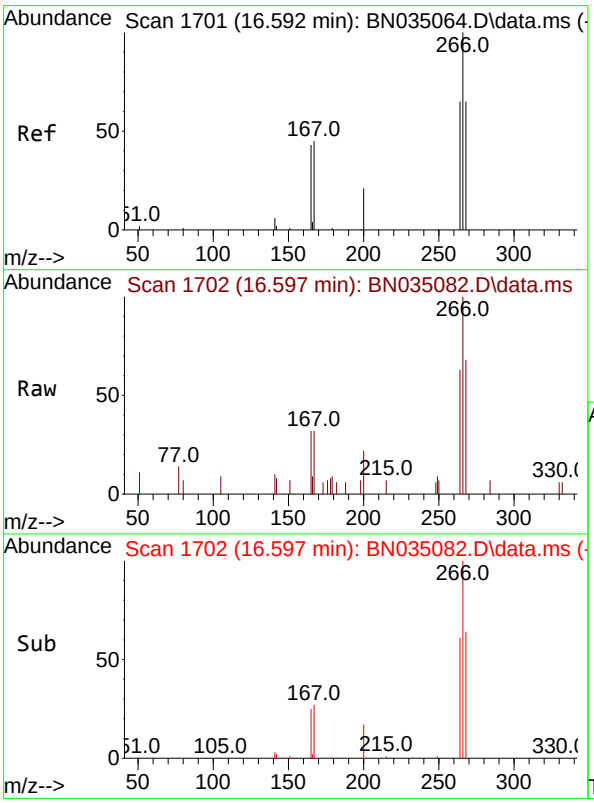
#23
Atrazine
Concen: 0.341 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 2496

Ion	Ratio	Lower	Upper
200	100		
173	20.4	22.6	33.8#
215	47.5	37.8	56.6

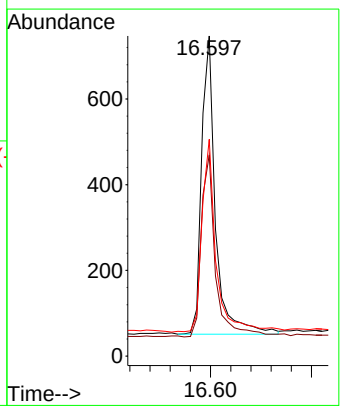


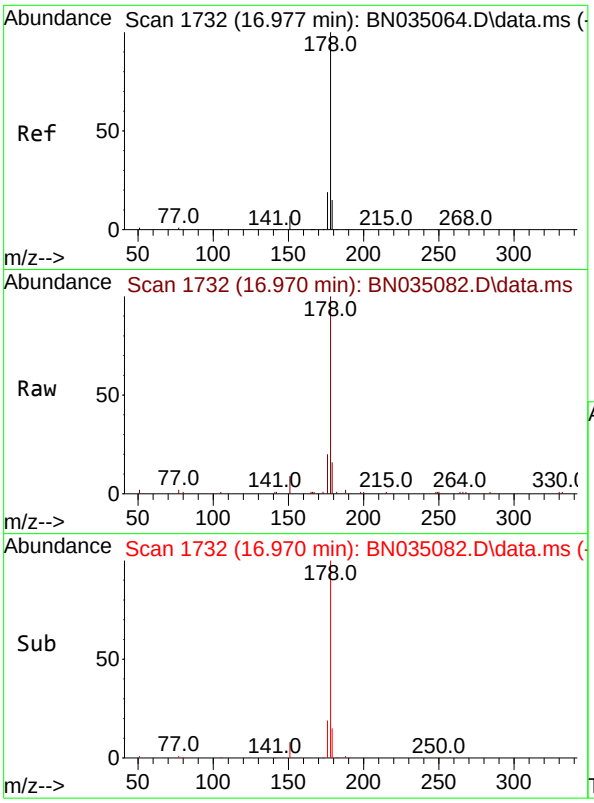


#24
Pentachlorophenol
Concen: 0.337 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:266 Resp: 1334

Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.4	74.0
268	66.0	52.6	79.0



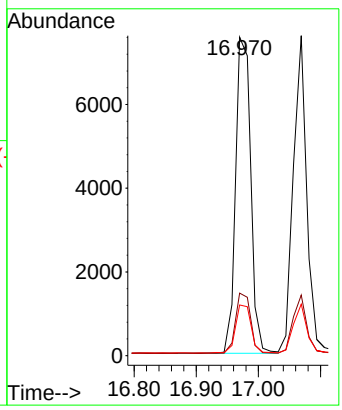


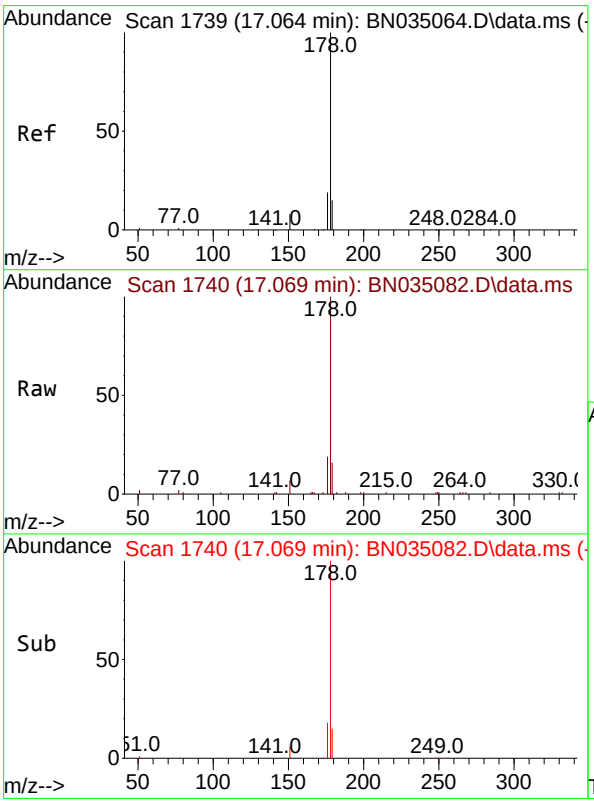
#25
Phenanthrene
Concen: 0.380 ng
RT: 16.970 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 12799

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.5	12.6	18.8

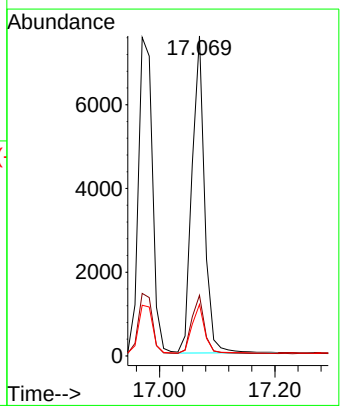


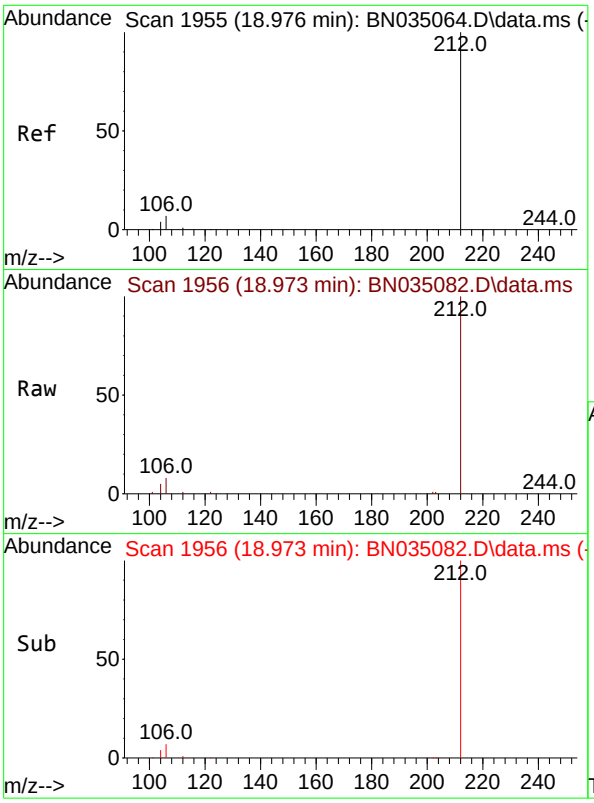


#26
Anthracene
Concen: 0.370 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:178 Resp: 11435

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.6	12.2	18.2



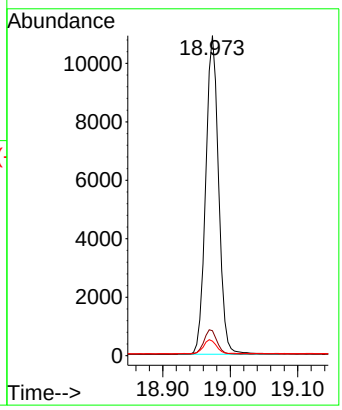


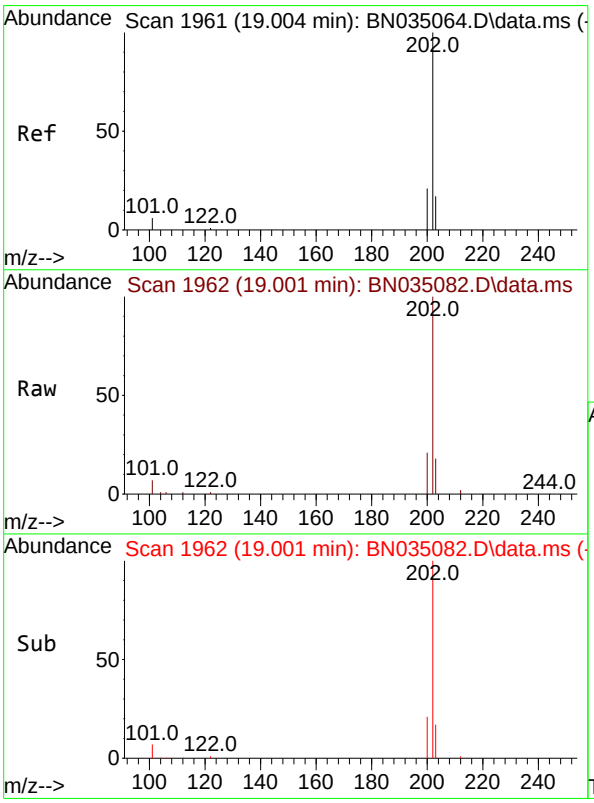
#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 18.973 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 14490

Ion	Ratio	Lower	Upper
212	100		
106	7.7	6.0	9.0
104	4.4	3.5	5.3

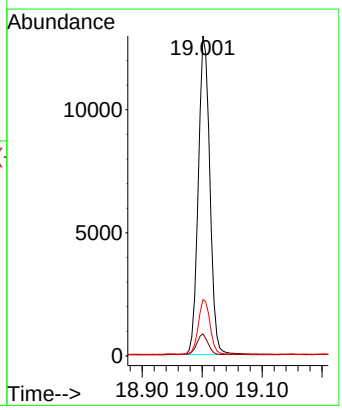


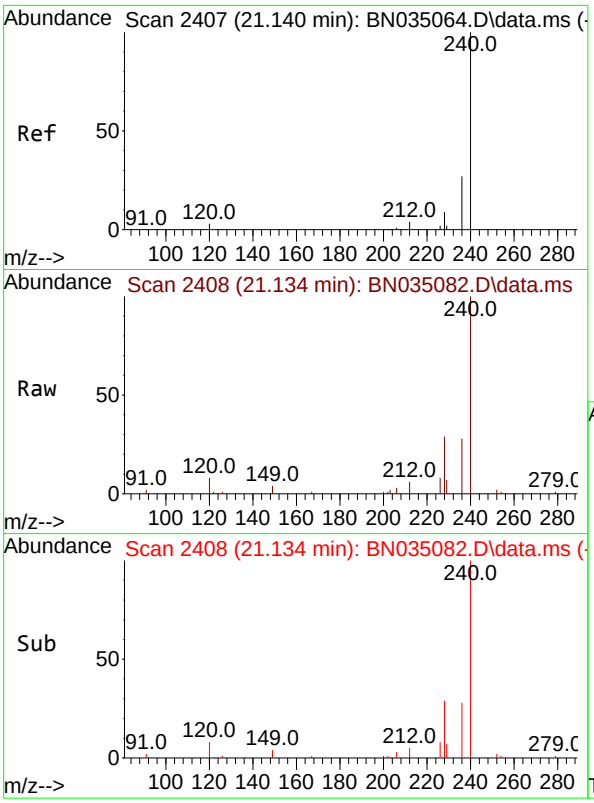


#28
Fluoranthene
Concen: 0.372 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:202 Resp: 17255

Ion	Ratio	Lower	Upper
202	100		
101	6.5	5.2	7.8
203	17.2	13.8	20.8



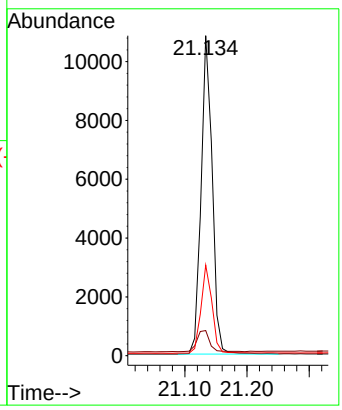


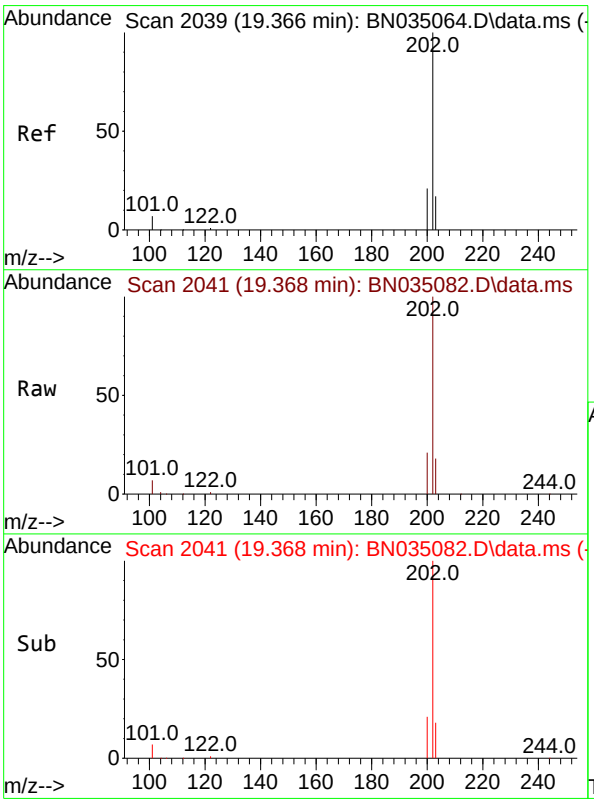
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.134 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 13485

Ion	Ratio	Lower	Upper
240	100		
120	7.9	3.8	5.6#
236	28.3	22.2	33.2

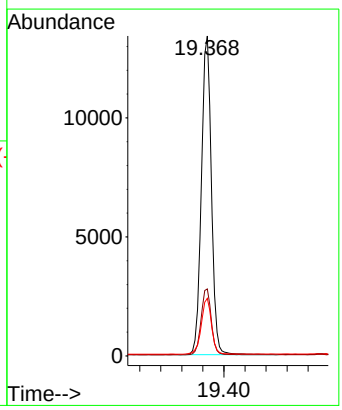


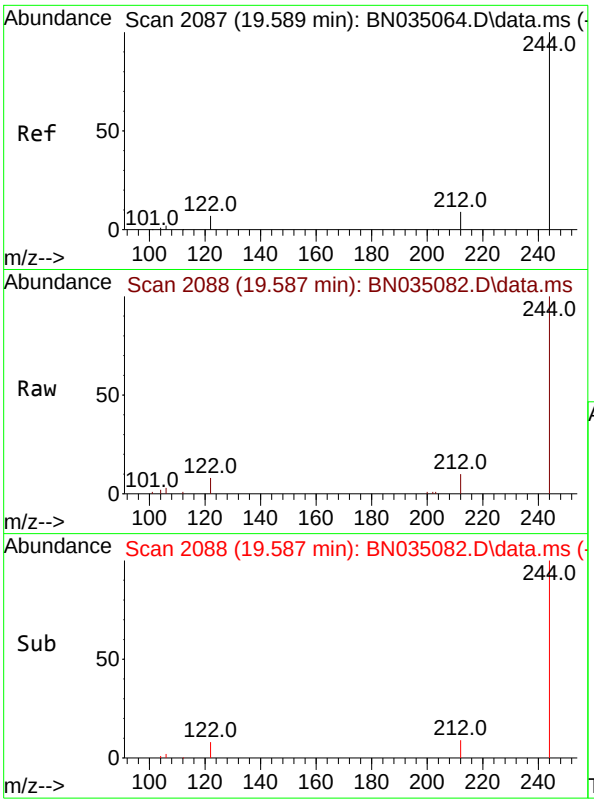


#30
Pyrene
Concen: 0.394 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:202 Resp: 17691

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4



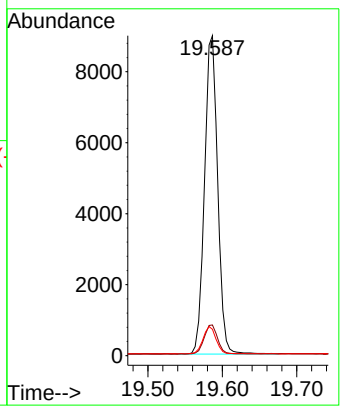


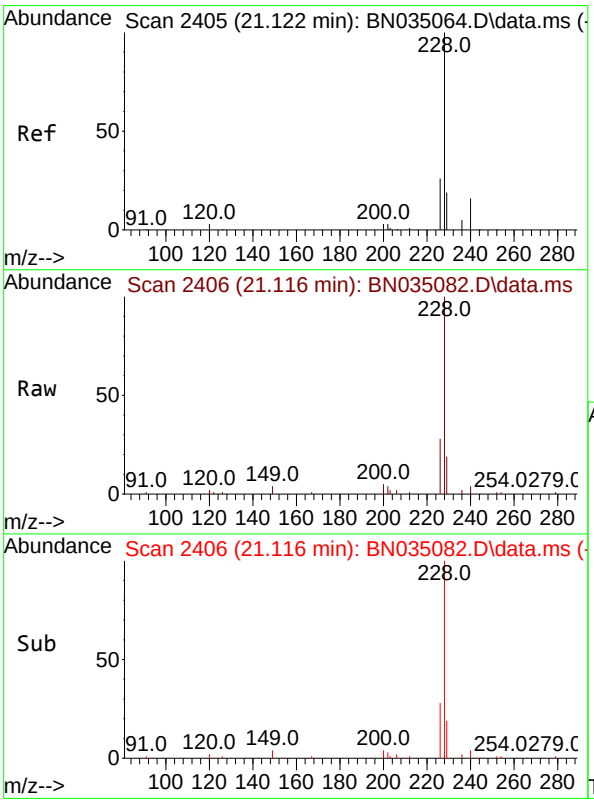
#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.587 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 10949

Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.6	11.4
122	8.3	6.1	9.1

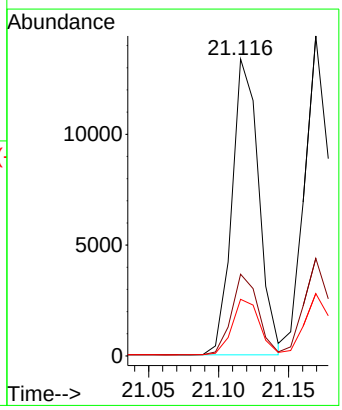


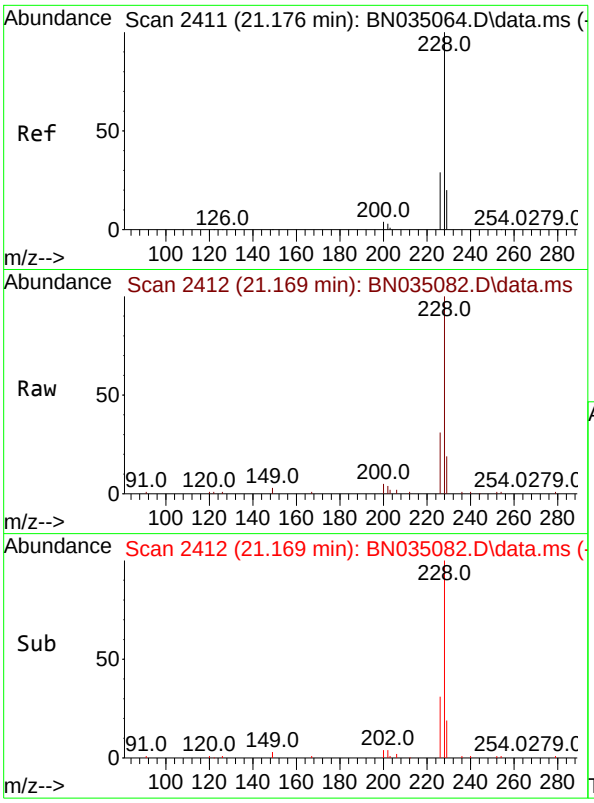


#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.116 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:228 Resp: 17743

Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.4	32.0
229	19.1	15.7	23.5



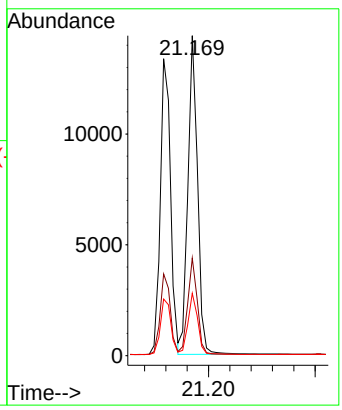


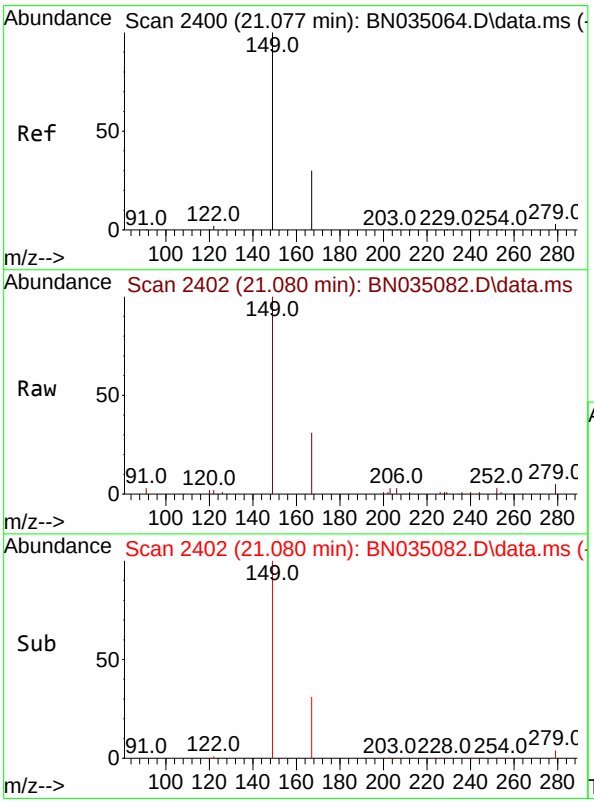
#33
Chrysene
Concen: 0.389 ng
RT: 21.169 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 18097

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.7	35.5
229	19.5	16.2	24.4

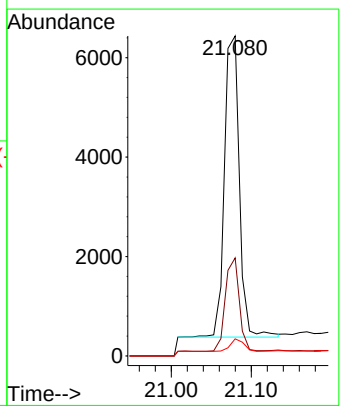


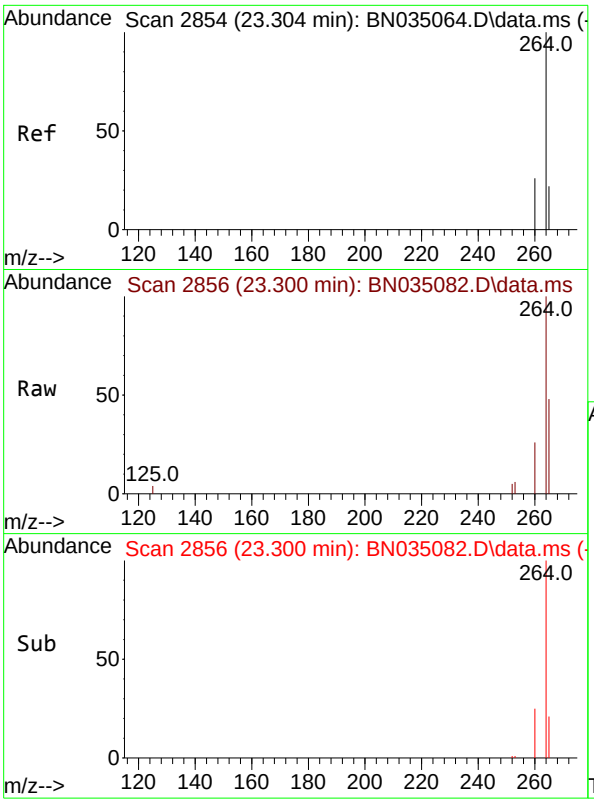


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.318 ng
RT: 21.080 min Scan# 2402
Delta R.T. 0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:149 Resp: 7841

Ion	Ratio	Lower	Upper
149	100		
167	29.2	23.2	34.8
279	4.0	3.2	4.8



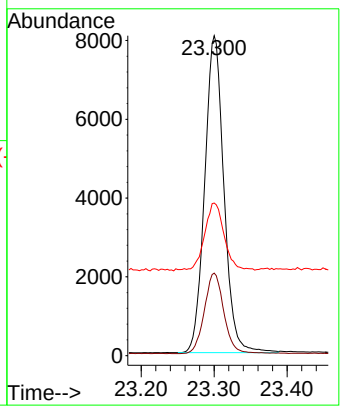


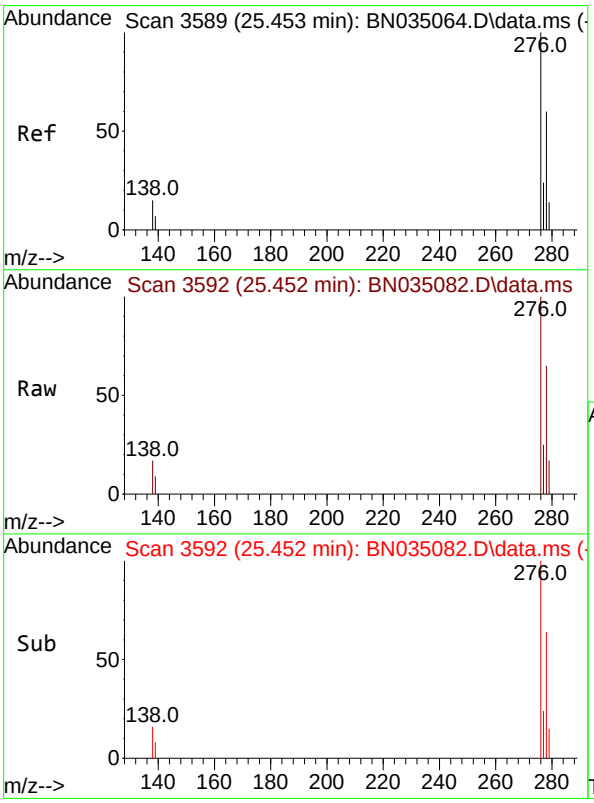
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 14730

Ion	Ratio	Lower	Upper
264	100		
260	25.8	20.9	31.3
265	47.7	35.4	53.2

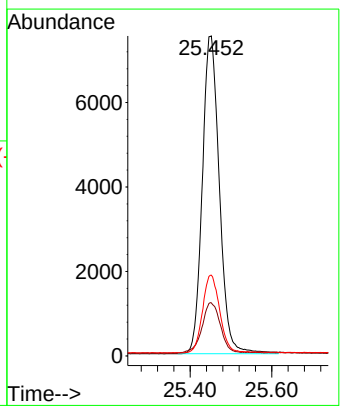


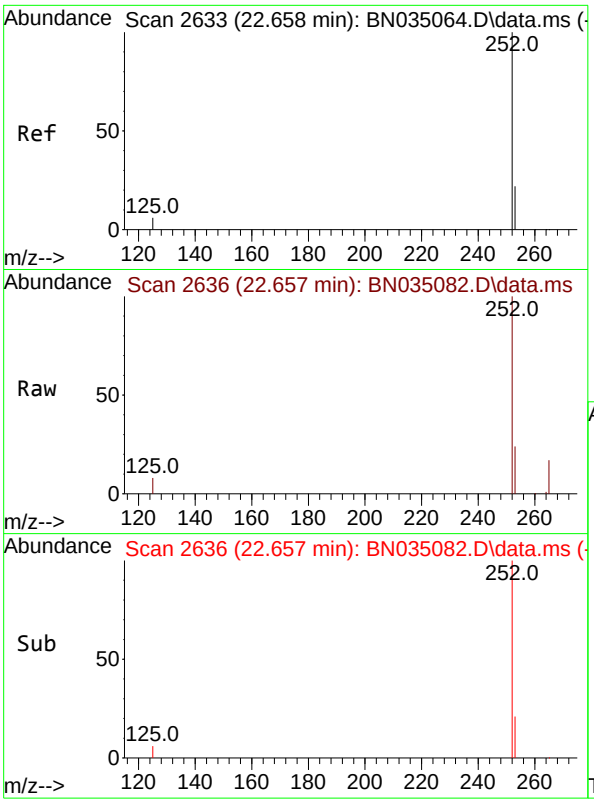


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.452 min Scan# 3592
Delta R.T. -0.001 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:276 Resp: 21866

Ion	Ratio	Lower	Upper
276	100		
138	17.1	13.0	19.4
277	24.6	19.8	29.6



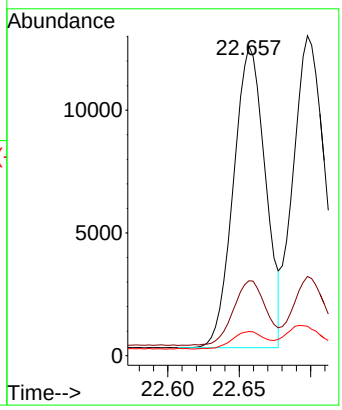


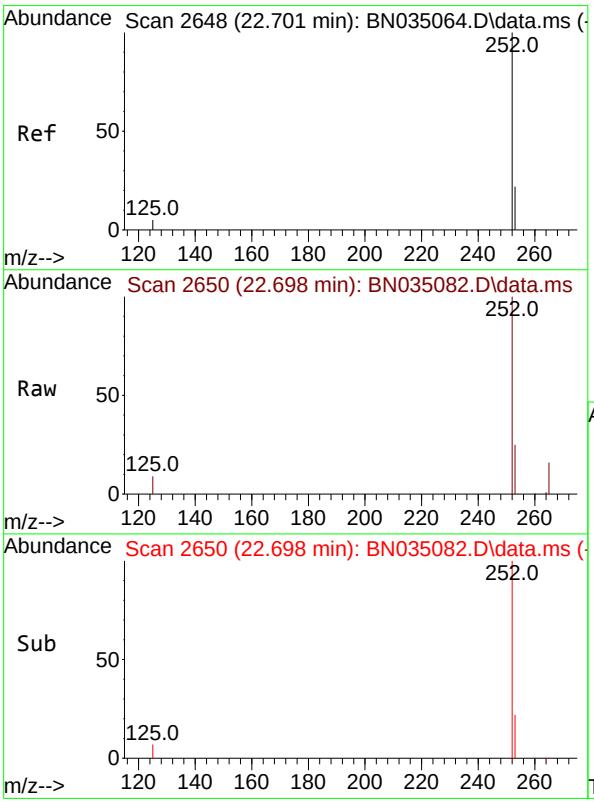
#37
Benzo(b)fluoranthene
Concen: 0.385 ng
RT: 22.657 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 19067

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.3	28.9
125	7.8	6.2	9.2

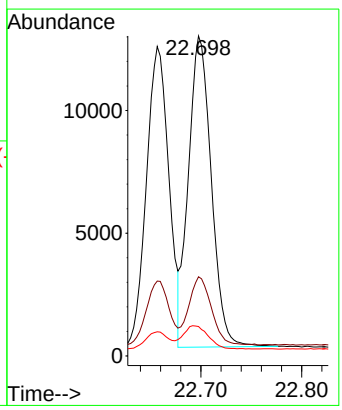


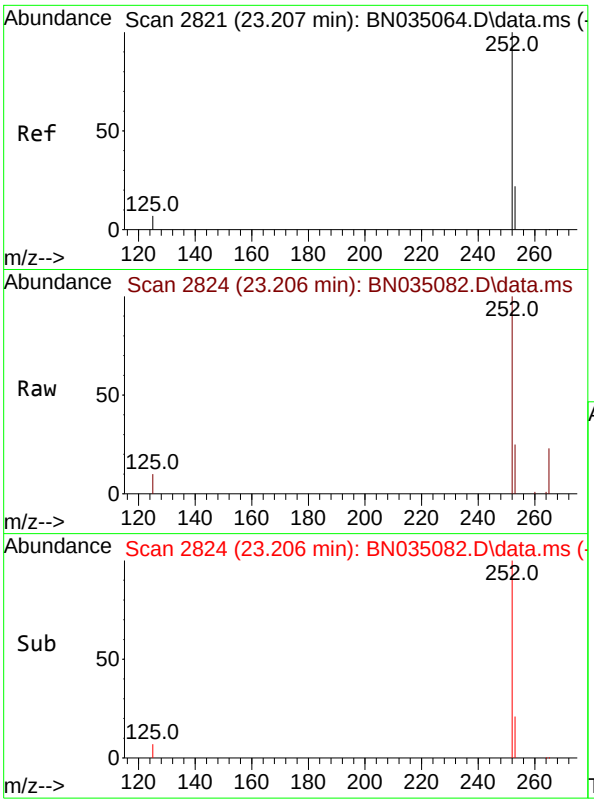


#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 22.698 min Scan# 2650
Delta R.T. -0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:252 Resp: 19945

Ion	Ratio	Lower	Upper
252	100		
253	24.7	19.5	29.3
125	9.2	6.5	9.7



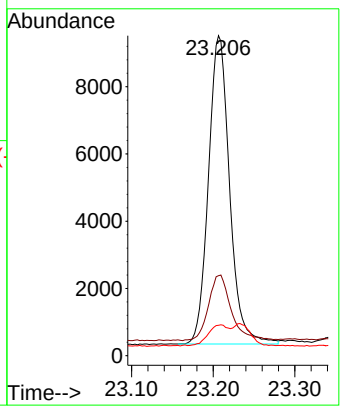


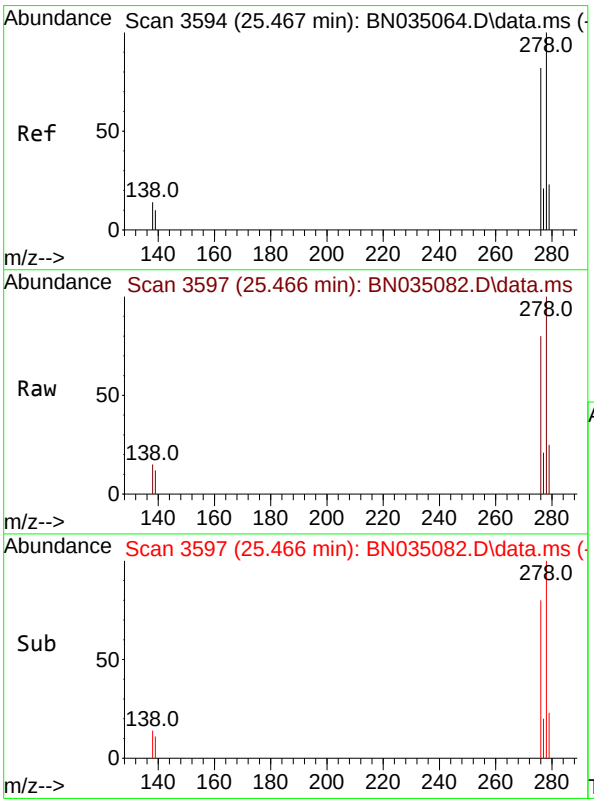
#39
Benzo(a)pyrene
Concen: 0.379 ng
RT: 23.206 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 16523

Ion	Ratio	Lower	Upper
252	100		
253	25.0	20.1	30.1
125	9.5	7.5	11.3

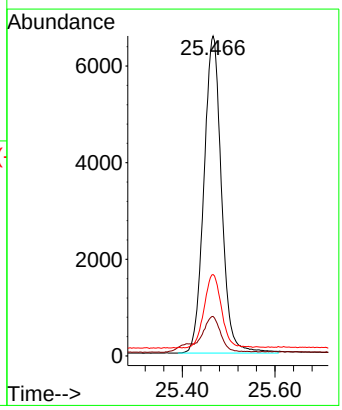


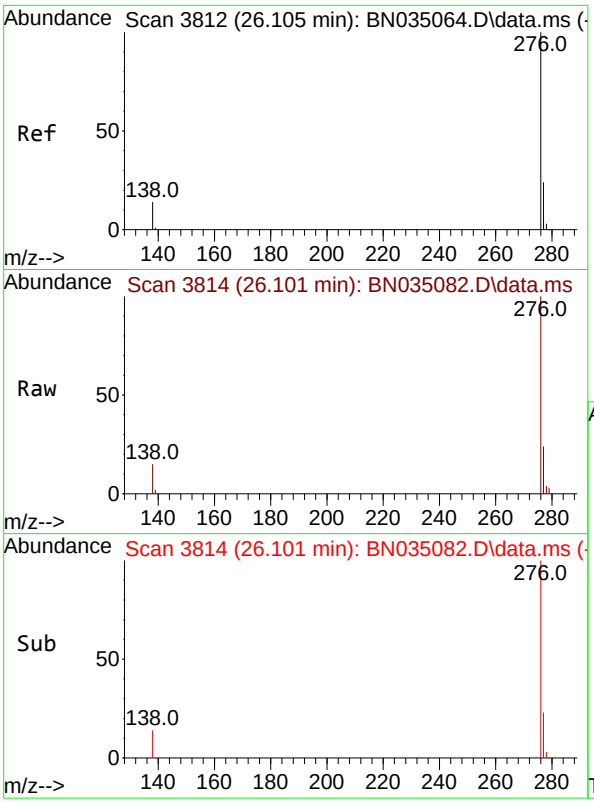


#40
Dibenzo(a,h)anthracene
Concen: 0.372 ng
RT: 25.466 min Scan# 3597
Delta R.T. -0.001 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:278 Resp: 17299

Ion	Ratio	Lower	Upper
278	100		
139	12.4	9.3	13.9
279	25.5	19.7	29.5



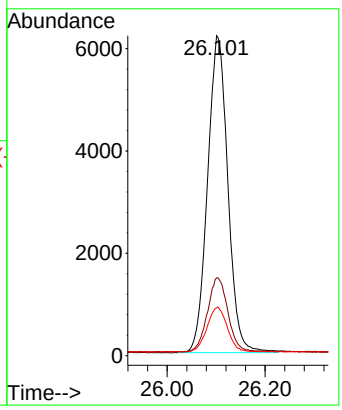


#41
Benzo(g,h,i)perylene
Concen: 0.359 ng
RT: 26.101 min Scan# 3
Delta R.T. -0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 17799

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.9	29.9
138	14.9	11.6	17.4



Sample Results: **BN035082.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035082.D
Acq On : 14 Nov 2024 10:12
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 14 11:23:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
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	91	0.00
2		1,4-Dioxane	0.363	0.354	2.5	96	0.00
3		n-Nitrosodimethylamine	0.339	0.299	11.8	84	0.00
4	S	2-Fluorophenol	1.015	0.916	9.8	88	0.00
5	S	Phenol-d6	1.273	1.184	7.0	93	0.00
6		bis(2-Chloroethyl)ether	0.956	0.884	7.5	90	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
8	S	Nitrobenzene-d5	0.348	0.308	11.5	89	-0.01
9		Naphthalene	1.044	0.964	7.7	92	0.00
10		Hexachlorobutadiene	0.306	0.287	6.2	91	0.00
11	SURR	2-Methylnaphthalene-d10	0.713	0.656	8.0	92	0.00
12		2-Methylnaphthalene	0.770	0.709	7.9	92	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00
14	S	2,4,6-Tribromophenol	0.289	0.230	20.4	89	0.00
15	S	2-Fluorobiphenyl	1.624	1.452	10.6	93	0.00
16		Acenaphthylene	1.709	1.480	13.4	93	0.00
17		Acenaphthene	1.120	0.995	11.2	93	0.00
18		Fluorene	1.648	1.459	11.5	93	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
20		4,6-Dinitro-2-methylphenol	0.083	0.070	15.7	92	0.00
21		4-Bromophenyl-phenylether	0.255	0.240	5.9	92	0.00
22		Hexachlorobenzene	0.264	0.250	5.3	94	0.00
23		Atrazine	0.229	0.195	14.8	85	0.00
24		Pentachlorophenol	0.124	0.104	16.1	95	0.00
25		Phenanthrene	1.053	1.000	5.0	94	0.00
26		Anthracene	0.967	0.893	7.7	92	0.00
27	SURR	Fluoranthene-d10	1.225	1.132	7.6	92	0.00
28		Fluoranthene	1.448	1.348	6.9	92	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30		Pyrene	1.332	1.312	1.5	92	0.00
31	S	Terphenyl-d14	0.839	0.812	3.2	90	0.00
32		Benzo(a)anthracene	1.393	1.316	5.5	89	0.00
33		Chrysene	1.380	1.342	2.8	91	0.00
34		Bis(2-ethylhexyl)phthalate	0.731	0.581	20.5	81	0.00
35	I	Perylene-d12	1.000	1.000	0.0	86	0.00
36		Indeno(1,2,3-cd)pyrene	1.596	1.484	7.0	84	0.00
37		Benzo(b)fluoranthene	1.346	1.294	3.9	87	0.00
38		Benzo(k)fluoranthene	1.347	1.354	-0.5	91	0.00
39	C	Benzo(a)pyrene	1.184	1.122	5.2	86	0.00
40		Dibenzo(a,h)anthracene	1.264	1.174	7.1	84	0.00
41		Benzo(g,h,i)perylene	1.345	1.208	10.2	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN035082.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035082.D
Acq On : 14 Nov 2024 10:12
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 14 11:23:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
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	91	0.00
2		1,4-Dioxane	0.400	0.390	2.5	96	0.00
3		n-Nitrosodimethylamine	0.400	0.354	11.5	84	0.00
4	S	2-Fluorophenol	0.400	0.361	9.8	88	0.00
5	S	Phenol-d6	0.400	0.372	7.0	93	0.00
6		bis(2-Chloroethyl)ether	0.400	0.370	7.5	90	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	93	0.00
8	S	Nitrobenzene-d5	0.400	0.354	11.5	89	-0.01
9		Naphthalene	0.400	0.369	7.8	92	0.00
10		Hexachlorobutadiene	0.400	0.375	6.3	91	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.368	8.0	92	0.00
12		2-Methylnaphthalene	0.400	0.368	8.0	92	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	93	0.00
14	S	2,4,6-Tribromophenol	0.400	0.318	20.5	89	0.00
15	S	2-Fluorobiphenyl	0.400	0.358	10.5	93	0.00
16		Acenaphthylene	0.400	0.346	13.5	93	0.00
17		Acenaphthene	0.400	0.355	11.3	93	0.00
18		Fluorene	0.400	0.354	11.5	93	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	95	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.338	15.5	92	0.00
21		4-Bromophenyl-phenylether	0.400	0.376	6.0	92	0.00
22		Hexachlorobenzene	0.400	0.378	5.5	94	0.00
23		Atrazine	0.400	0.341	14.8	85	0.00
24		Pentachlorophenol	0.400	0.337	15.8	95	0.00
25		Phenanthrene	0.400	0.380	5.0	94	0.00
26		Anthracene	0.400	0.370	7.5	92	0.00
27	SURR	Fluoranthene-d10	0.400	0.369	7.8	92	0.00
28		Fluoranthene	0.400	0.372	7.0	92	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30		Pyrene	0.400	0.394	1.5	92	0.00
31	S	Terphenyl-d14	0.400	0.387	3.3	90	0.00
32		Benzo(a)anthracene	0.400	0.378	5.5	89	0.00
33		Chrysene	0.400	0.389	2.8	91	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.318	20.5	81	0.00
35	I	Perylene-d12	0.400	0.400	0.0	86	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.372	7.0	84	0.00
37		Benzo(b)fluoranthene	0.400	0.385	3.8	87	0.00
38		Benzo(k)fluoranthene	0.400	0.402	-0.5	91	0.00
39	C	Benzo(a)pyrene	0.400	0.379	5.3	86	0.00
40		Dibenzo(a,h)anthracene	0.400	0.372	7.0	84	0.00
41		Benzo(g,h,i)perylene	0.400	0.359	10.3	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

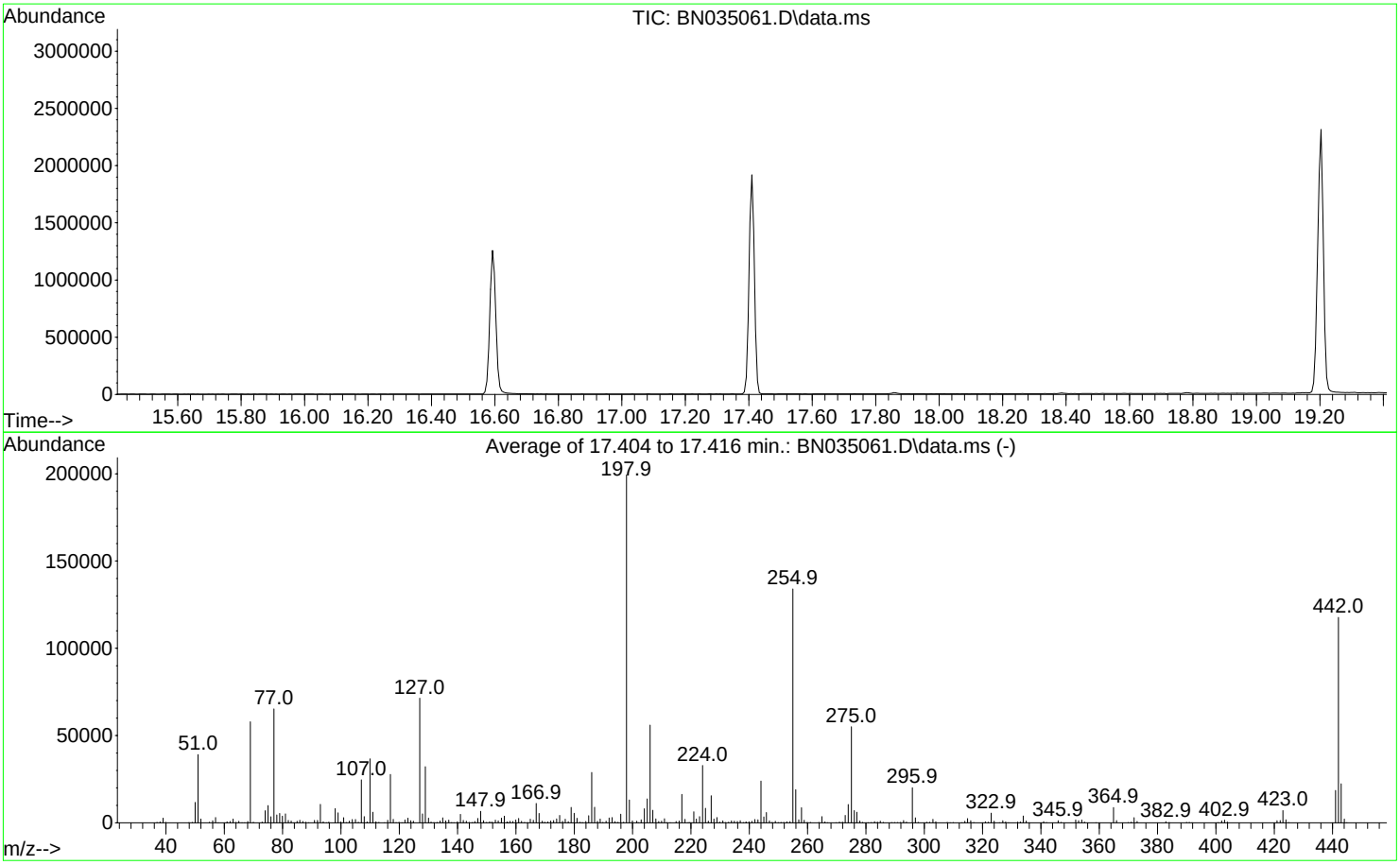
Sample Results: **BN035061.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
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-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024



AutoFind: Scans 2468, 2469, 2470; Background Corrected with Scan 2461

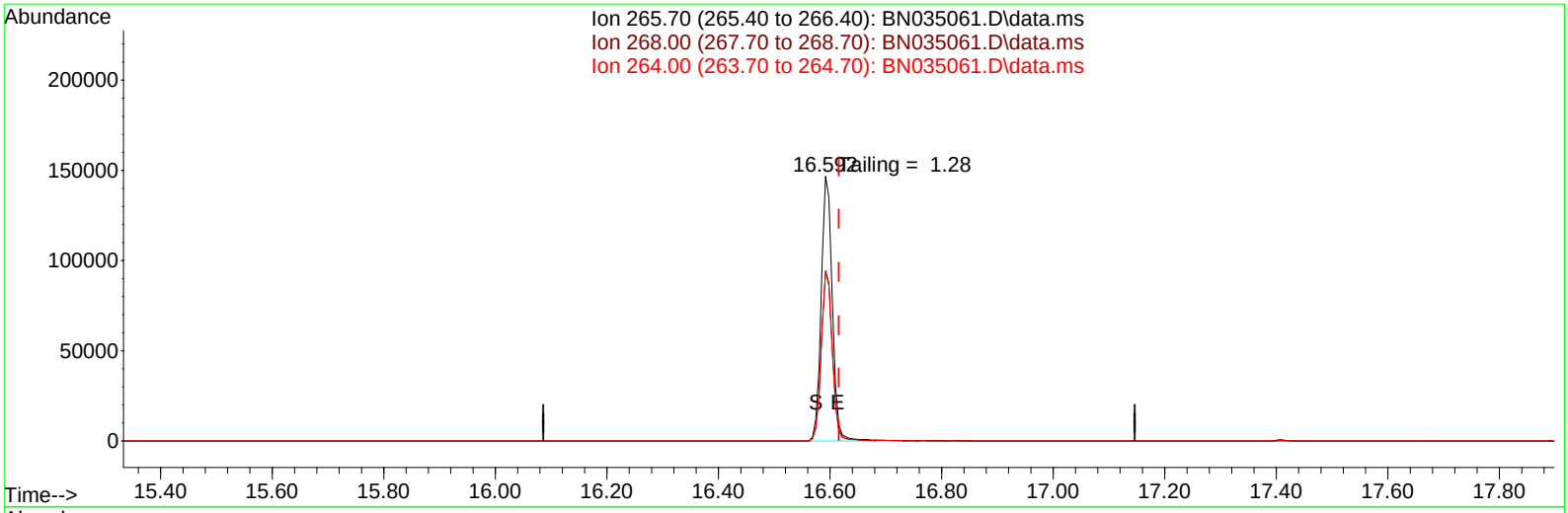
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	19.6	39078	PASS
68	69	0.00	2	1.4	807	PASS
69	198	0.00	100	29.1	57928	PASS
70	69	0.00	2	0.7	382	PASS
127	198	10	80	35.9	71451	PASS
197	198	0.00	2	0.2	365	PASS
198	198	100	100	100.0	199275	PASS
199	198	5	9	6.6	13094	PASS
275	198	10	60	27.6	55048	PASS
365	198	1	100	4.4	8801	PASS
441	198	0.01	100	9.3	18540	PASS
442	442	50	100	100.0	117725	PASS
443	442	15	24	19.0	22395	PASS

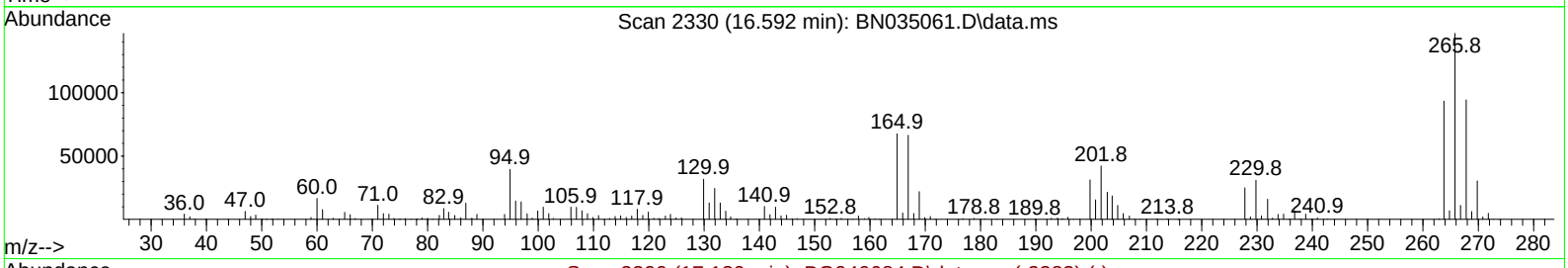
Sample Results: **BN035061.D**

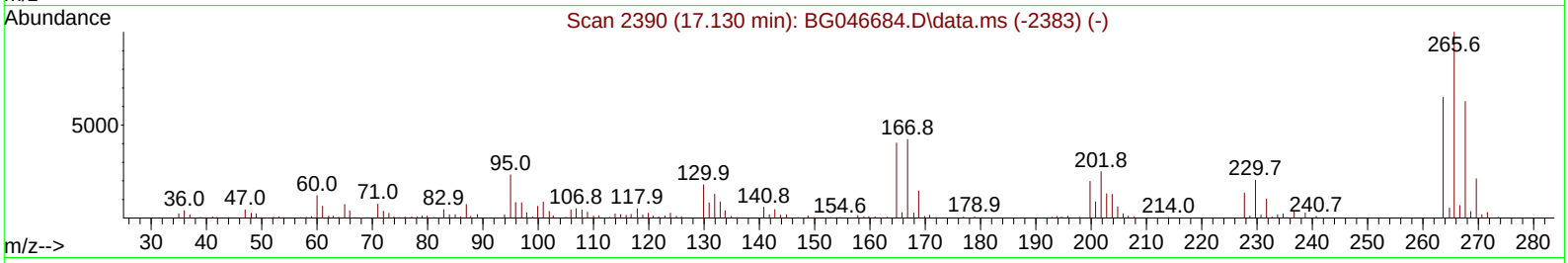
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 14 15:14:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 09 04:05:27 2024
Response via : Initial Calibration







TIC: BN035061.D\data.ms

(70) Pentachlorophenol (C)

16.592min (-0.024) 20966.65 ng

response 202879

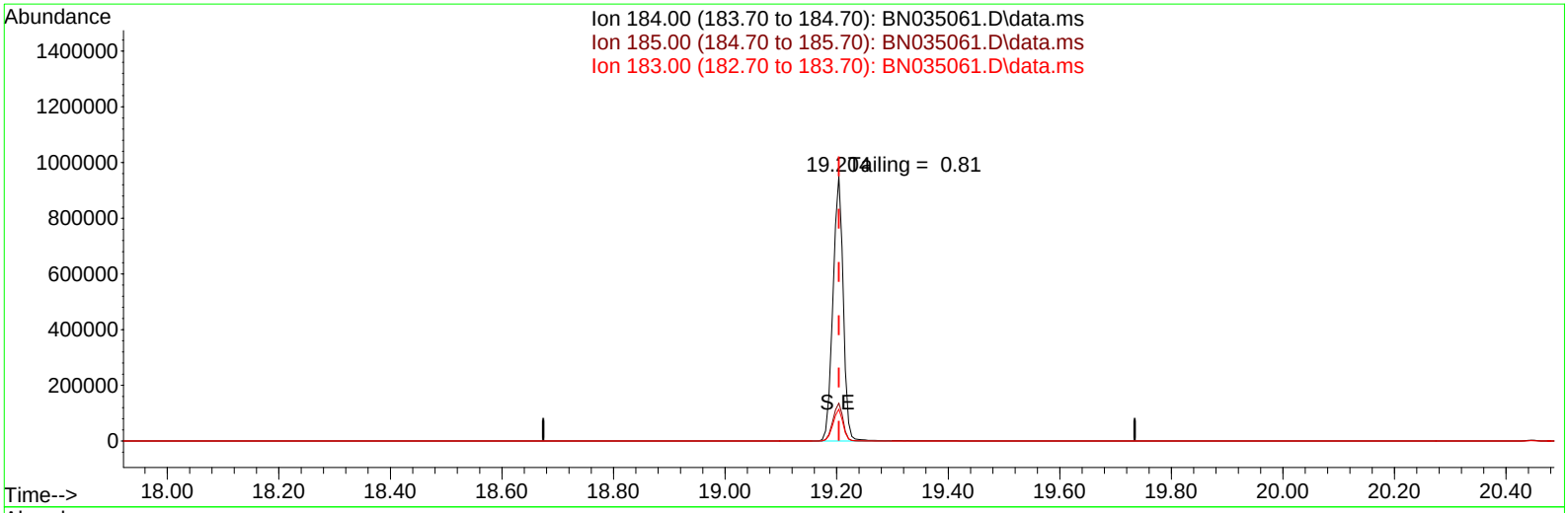
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.29
264.00	61.60	63.61
0.00	0.00	0.00

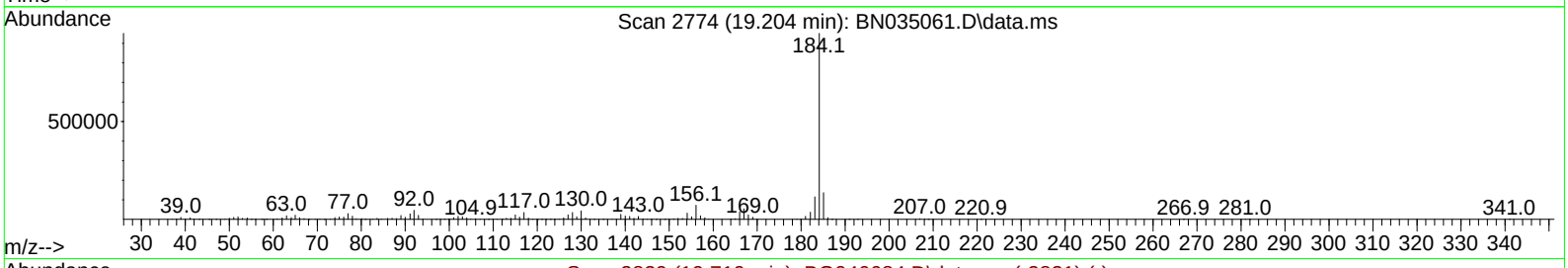
Sample Results: **BN035061.D**

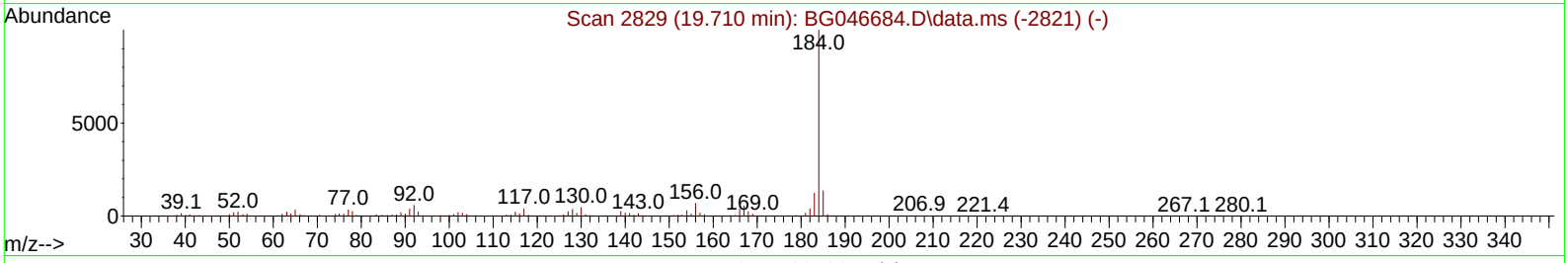
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 14 15:14:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 09 04:05:27 2024
Response via : Initial Calibration







TIC: BN035061.D\data.ms

(77) Benzidine

19.204min (-0.000) 0.00 ng

response 1216684

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.30
183.00	13.20	12.08
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/13/2024	BNA_N	BN035561.D
Compound Name	**Response**	**Retention Time**
DDT	699321	20.445
DDD	6440	20.057
DDE	0	19.527
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6440	705761	0.91

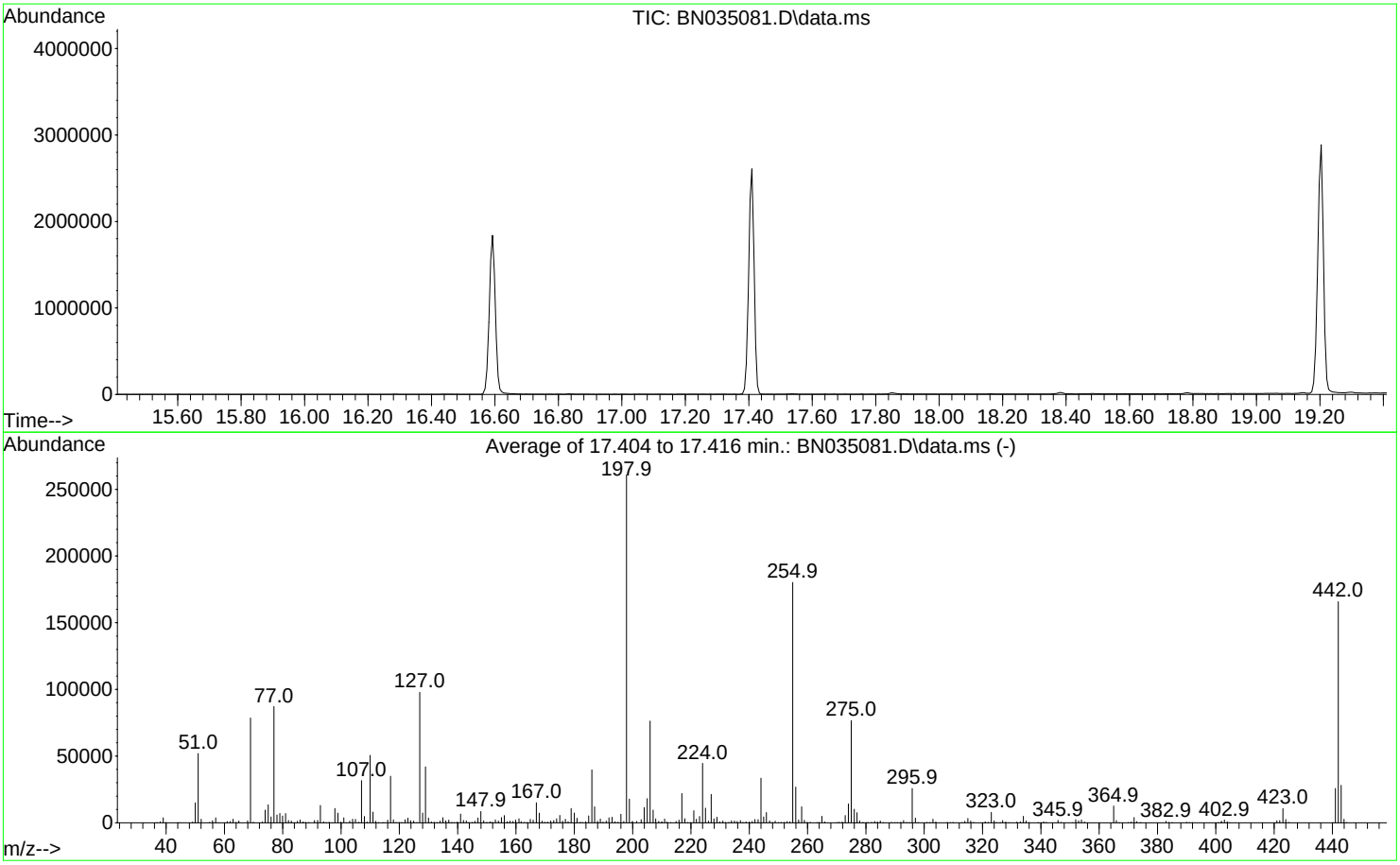
Sample Results: **BN035081.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035081.D
Acq On : 14 Nov 2024 08:53
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-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024



AutoFind: Scans 2468, 2469, 2470; Background Corrected with Scan 2461

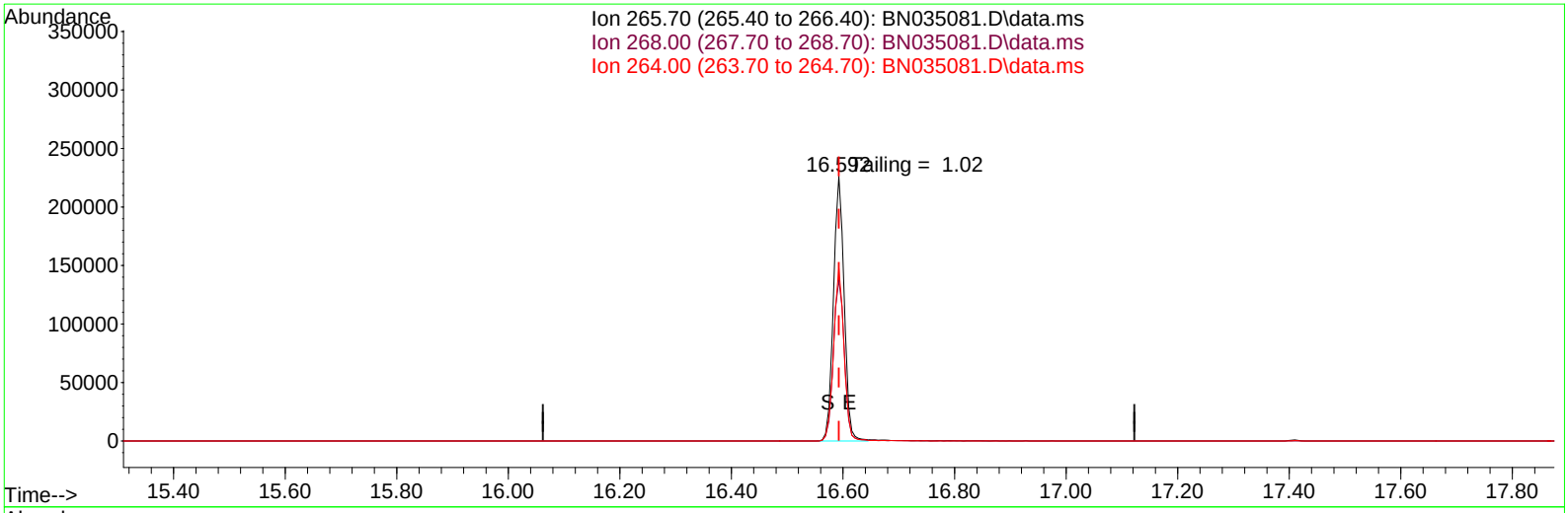
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	19.9	51893	PASS
68	69	0.00	2	1.9	1465	PASS
69	198	0.00	100	30.1	78547	PASS
70	69	0.00	2	0.6	499	PASS
127	198	10	80	37.5	97883	PASS
197	198	0.00	2	0.4	1067	PASS
198	198	100	100	100.0	260736	PASS
199	198	5	9	6.8	17819	PASS
275	198	10	60	29.4	76672	PASS
365	198	1	100	4.8	12586	PASS
441	198	0.01	100	9.9	25771	PASS
442	442	50	100	100.0	165845	PASS
443	442	15	24	16.9	28101	PASS

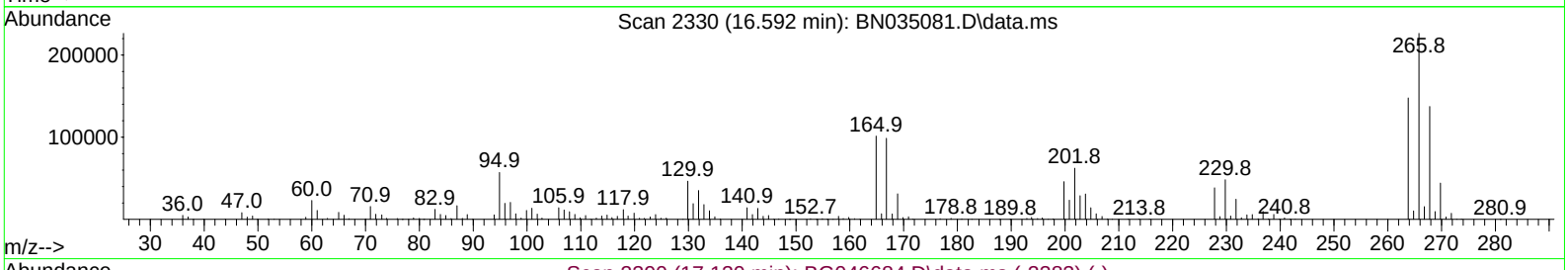
Sample Results: **BN035081.D**

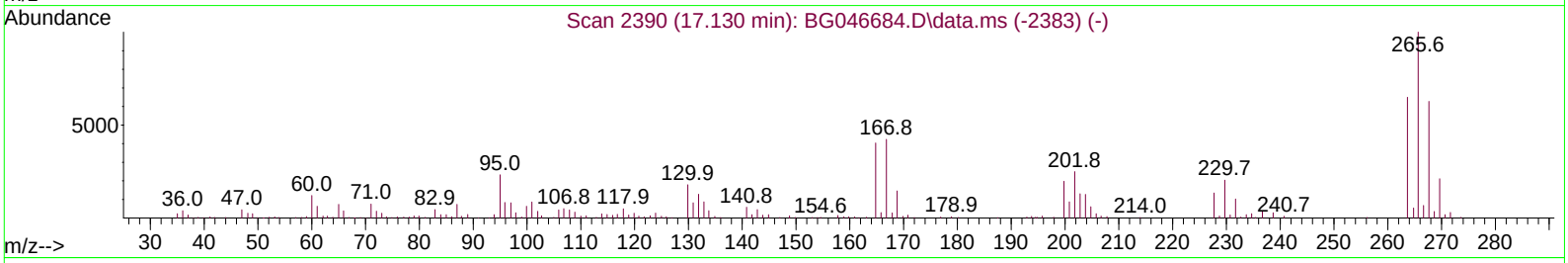
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035081.D
Acq On : 14 Nov 2024 08:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 15 01:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 15 01:14:43 2024
Response via : Initial Calibration







TIC: BN035081.D\data.ms

(70) Pentachlorophenol (C)

16.592min (0.000) 22635.68 ng

response 303230

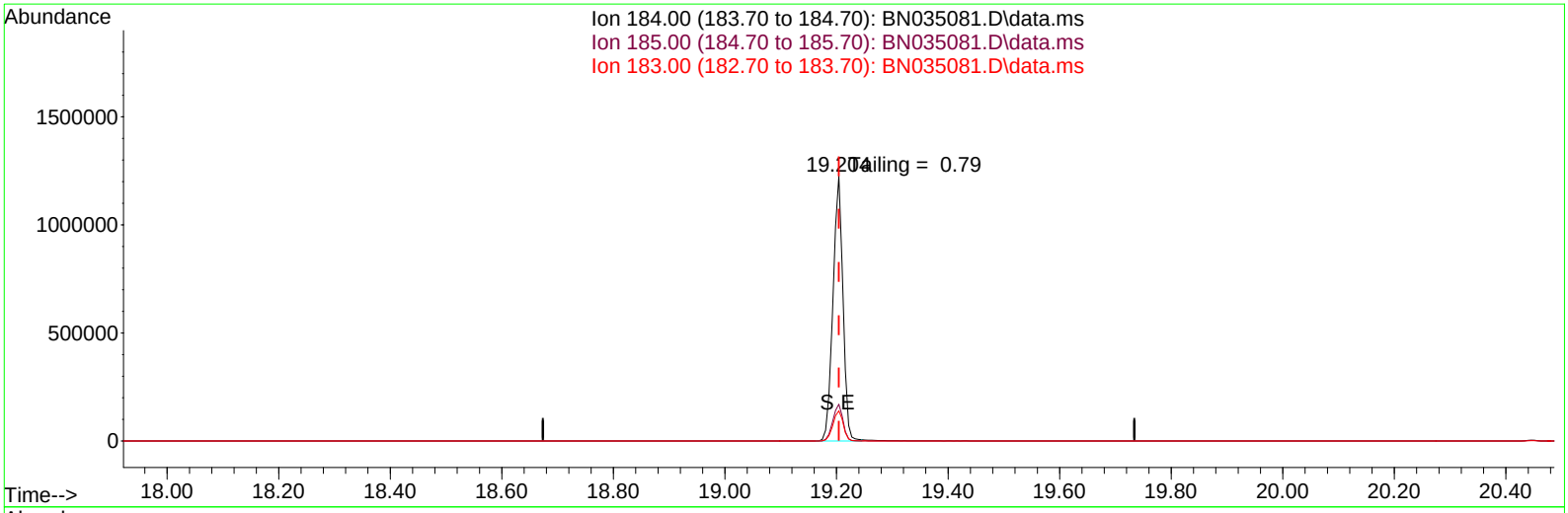
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.69
264.00	61.60	65.30
0.00	0.00	0.00

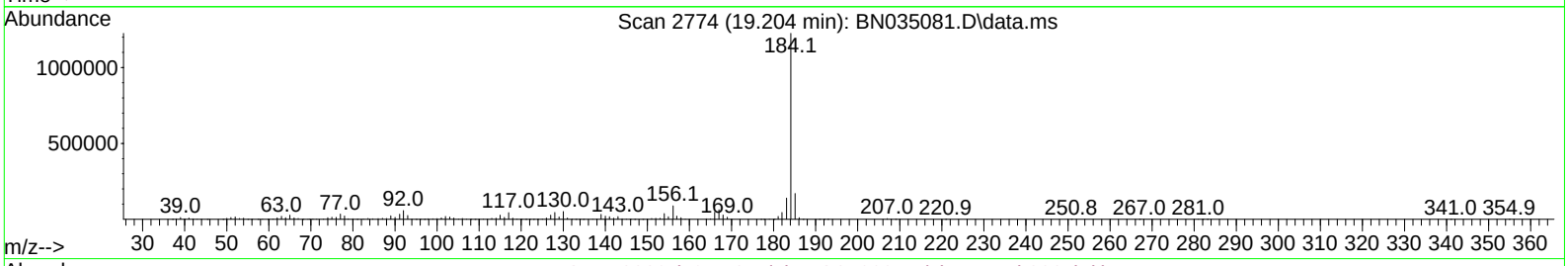
Sample Results: **BN035081.D**

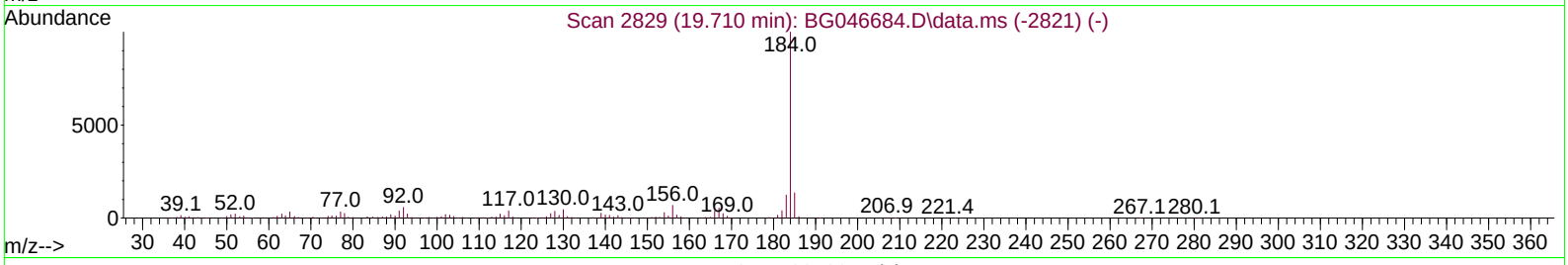
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035081.D
Acq On : 14 Nov 2024 08:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 15 01:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 15 01:14:43 2024
Response via : Initial Calibration







TIC: BN035081.D\data.ms

(77) Benzidine

19.204min (0.000) 0.00 ng

response 1534532

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.91
183.00	13.20	11.39
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/14/2024	BNA_N	BN035081.D
Compound Name	**Response**	**Retention Time**
DDT	954250	20.445
DDD	16295	20.004
DDE	363	19.458
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
16658	970908	1.72

Raw Data: **BN035083.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164402BL	SDG No.:	P4495
Lab Sample ID:	PB164402BL	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035083.D	1	10/25/24 09:50	11/14/24 10:48	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	0.69	U	0.69	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	0.80	U	0.80	3.30	ug/Kg
208-96-8	Acenaphthylene	0.63	U	0.63	3.30	ug/Kg
83-32-9	Acenaphthene	0.55	U	0.55	3.30	ug/Kg
86-73-7	Fluorene	0.60	U	0.60	3.30	ug/Kg
85-01-8	Phenanthrene	0.63	U	0.63	3.30	ug/Kg
120-12-7	Anthracene	0.79	U	0.79	3.30	ug/Kg
206-44-0	Fluoranthene	0.67	U	0.67	3.30	ug/Kg
129-00-0	Pyrene	0.95	U	0.95	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	0.76	U	0.76	3.30	ug/Kg
218-01-9	Chrysene	0.86	U	0.86	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.98	U	0.98	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	1.70	U	1.70	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.30	U	1.30	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1.10	U	1.10	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		17 - 161	88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		23 - 138	93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		33 - 121	93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		32 - 121	90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		21 - 130	104%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2710	7.553			
1146-65-2	Naphthalene-d8	6300	10.319			
15067-26-2	Acenaphthene-d10	4580	14.19			
1517-22-2	Phenanthrene-d10	12200	16.932			
1719-03-5	Chrysene-d12	12500	21.133			

Raw Data: **BN035083.D**

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

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164402BL			SDG No.:	P4495
Lab Sample ID:	PB164402BL			Matrix:	SOIL
Analytical Method:	SW8270SIM			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	sw3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035083.D	1	10/25/24 09:50	11/14/24 10:48	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	14000	23.3			

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\BN111424\
Data File : BN035083.D
Acq On : 14 Nov 2024 10:48
Operator : RC/JU
Sample : PB164402BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Quant Time: Nov 14 11:23:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

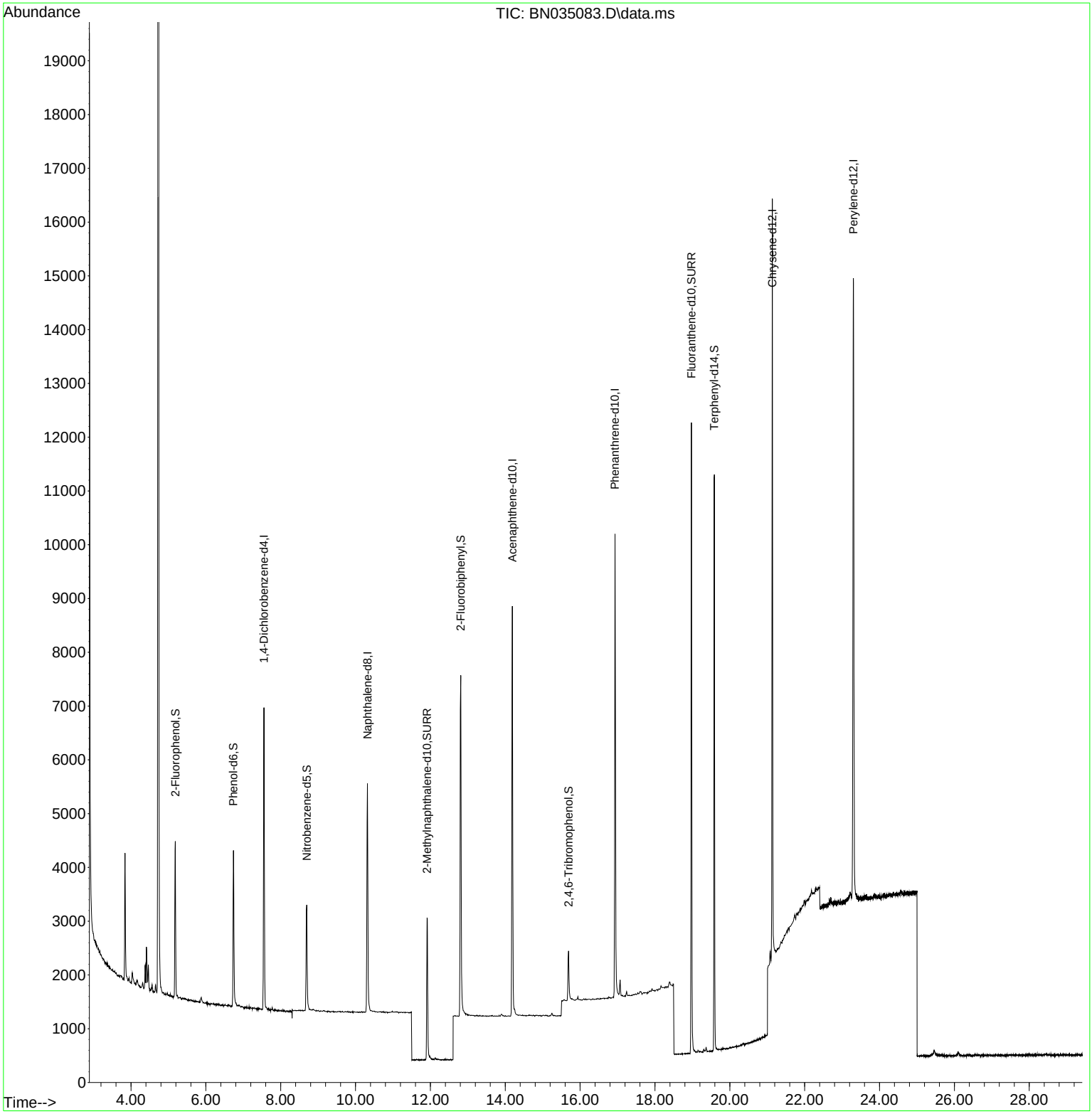
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2707	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6301	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4578	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12175	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	12501	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	13990	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	2415	0.351	ng	0.00
5) Phenol-d6	6.737	99	2950	0.342	ng	0.00
8) Nitrobenzene-d5	8.696	82	2047	0.373	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	3938	0.351	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	718	0.217	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	6730	0.362	ng	0.00
27) Fluoranthene-d10	18.973	212	13930	0.373	ng	0.00
31) Terphenyl-d14	19.586	244	10975	0.418	ng	0.00
Target Compounds						Qvalue

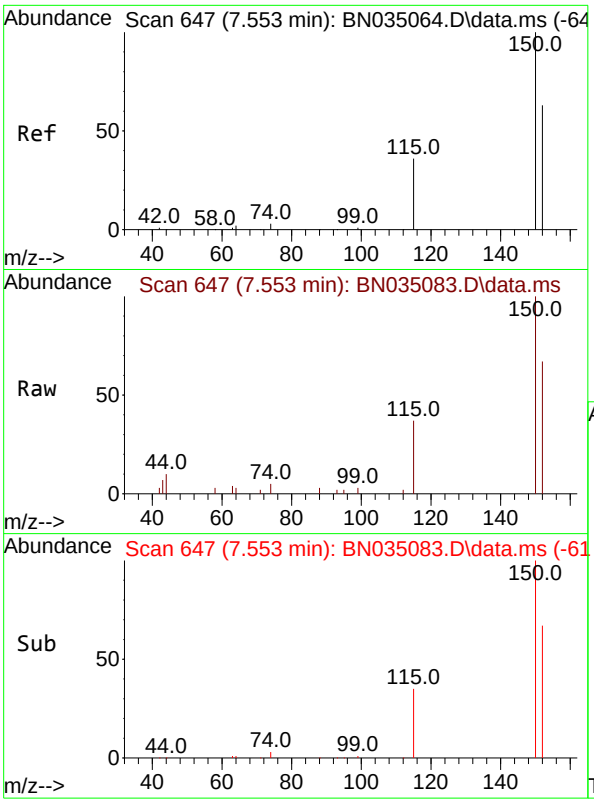
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035083.D
Acq On : 14 Nov 2024 10:48
Operator : RC/JU
Sample : PB164402BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Quant Time: Nov 14 11:23:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration



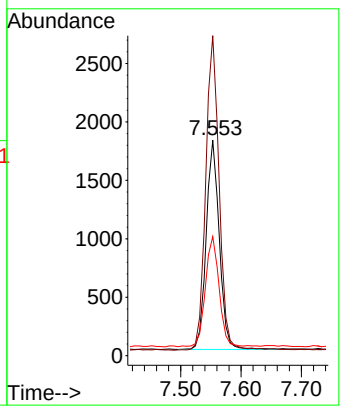


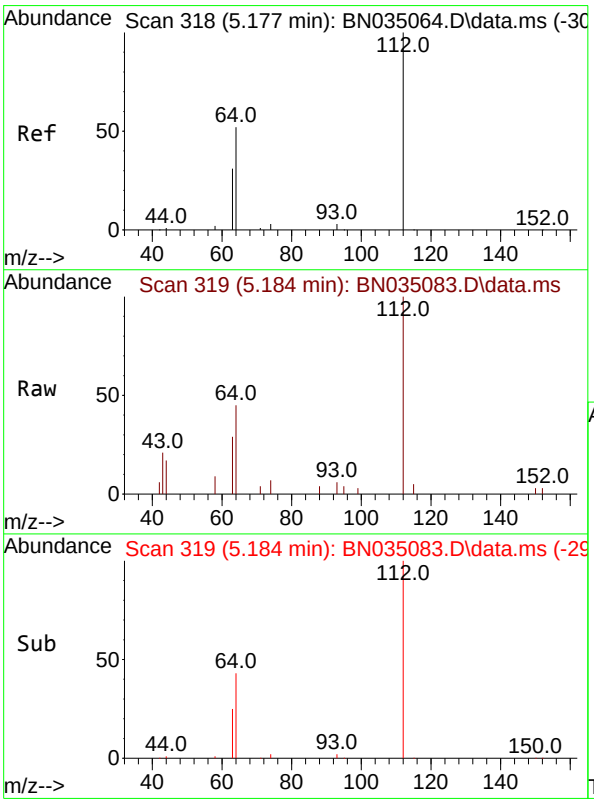
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Tgt Ion:152 Resp: 2707

Ion	Ratio	Lower	Upper
152	100		
150	148.5	124.5	186.7
115	55.3	47.8	71.6

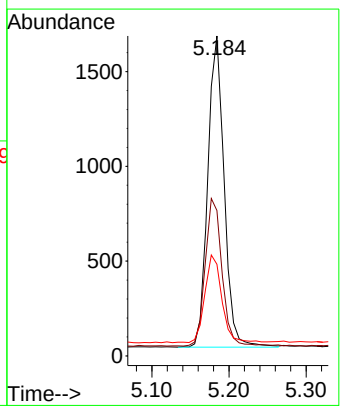


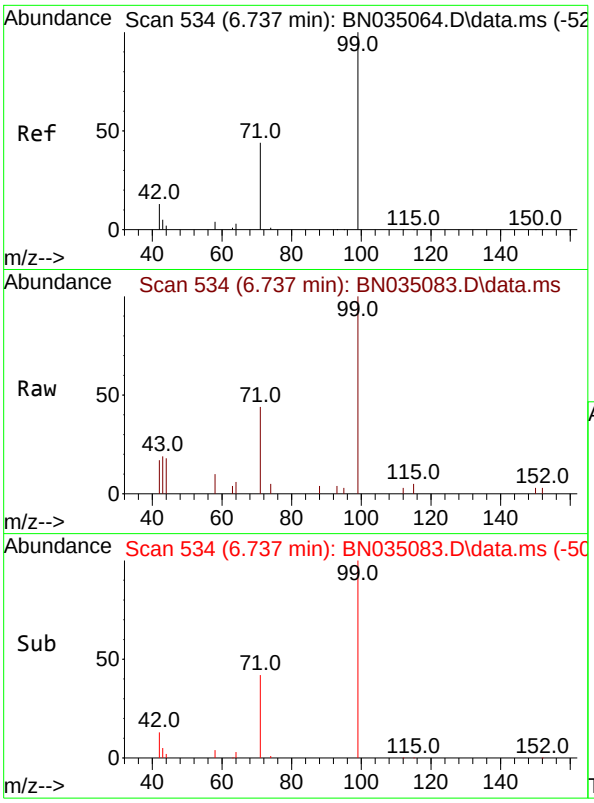


#4
2-Fluorophenol
Concen: 0.351 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.007 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:112 Resp: 2415

Ion	Ratio	Lower	Upper
112	100		
64	48.8	39.7	59.5
63	28.7	23.0	34.4



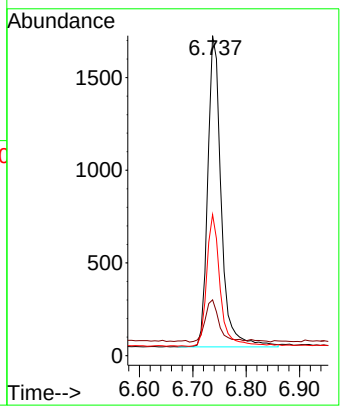


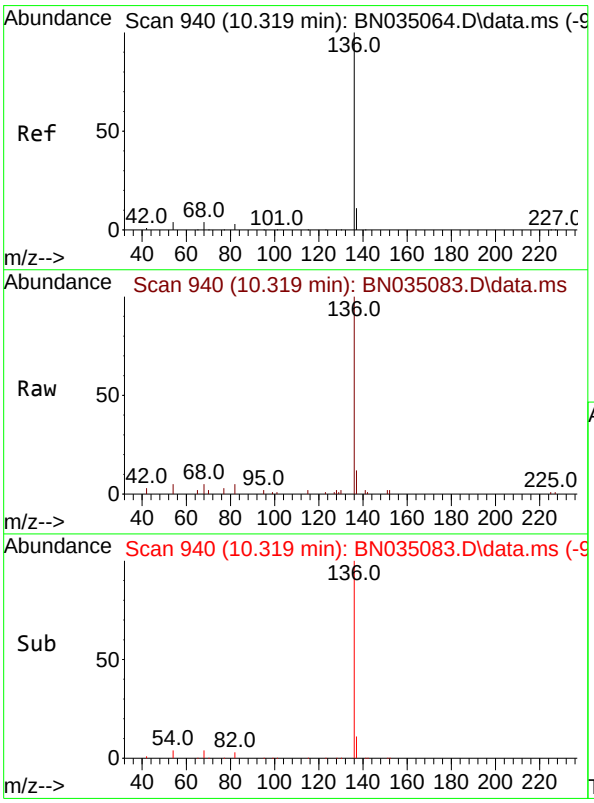
#5
Phenol-d6
Concen: 0.342 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Tgt Ion: 99 Resp: 2950

Ion	Ratio	Lower	Upper
99	100		
42	14.2	11.4	17.0
71	42.2	34.6	51.8

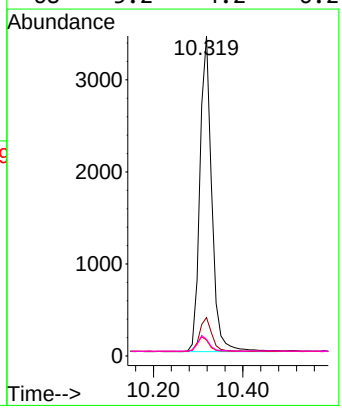


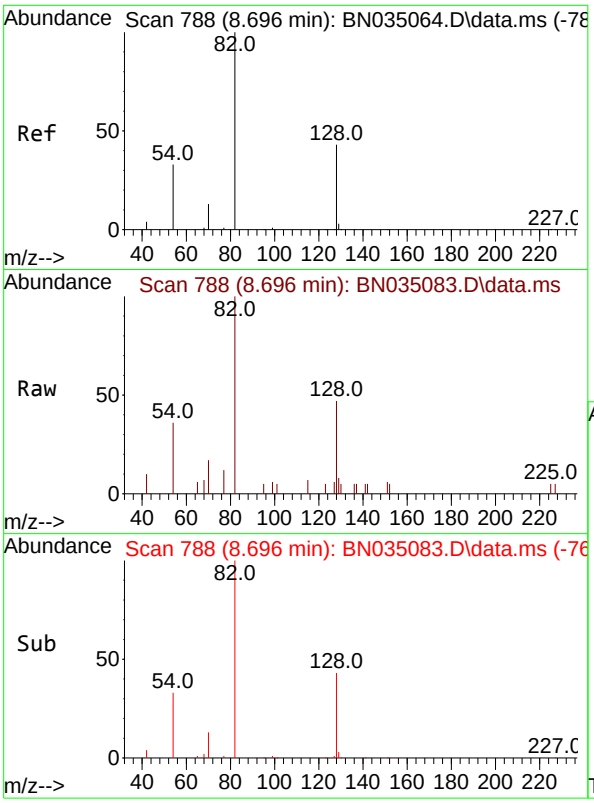


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:136 Resp: 6301

Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2



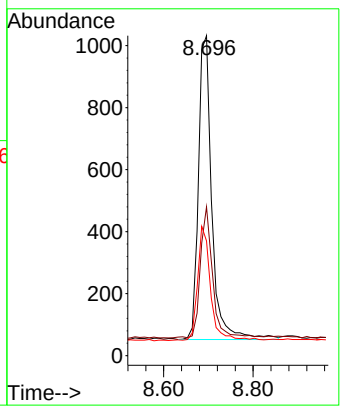


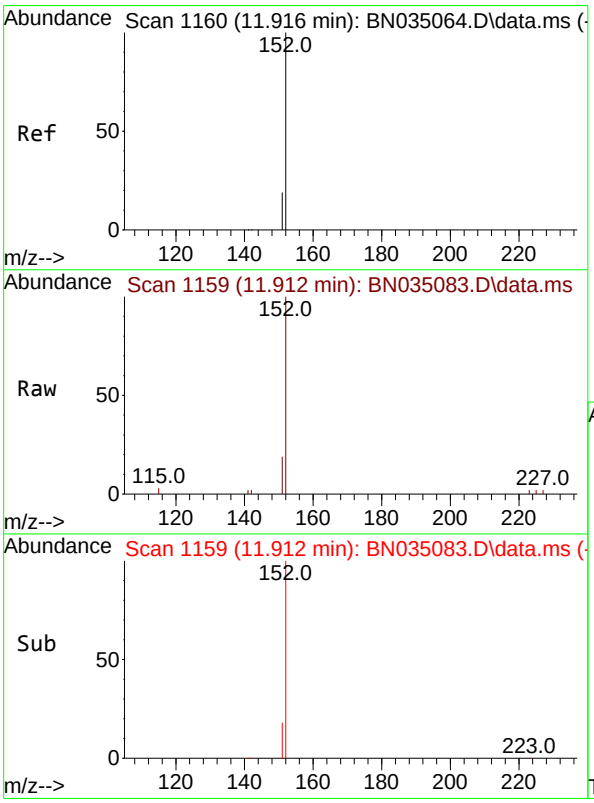
#8
Nitrobenzene-d5
Concen: 0.373 ng
RT: 8.696 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Tgt Ion: 82 Resp: 2047

Ion	Ratio	Lower	Upper
82	100		
128	46.5	36.5	54.7
54	35.9	28.7	43.1

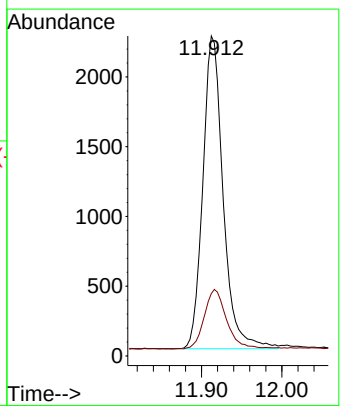


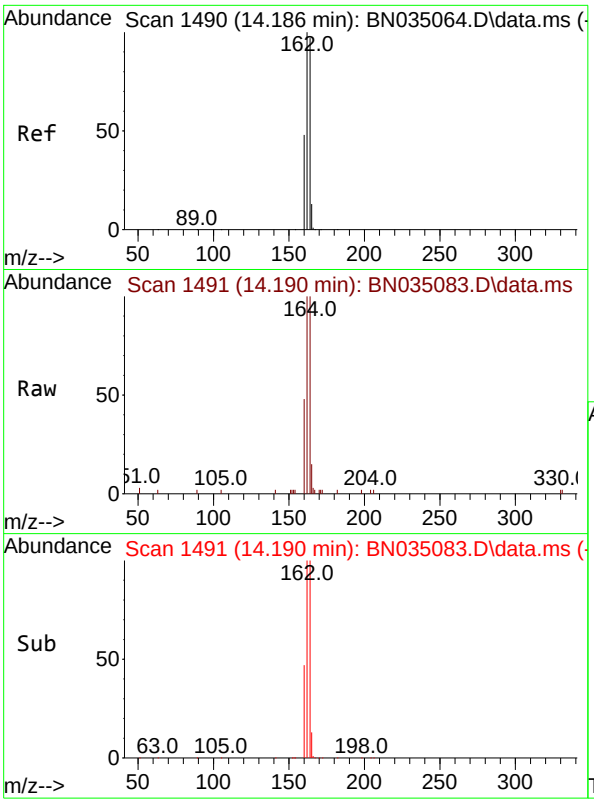


#11
2-Methylnaphthalene-d10
Concen: 0.351 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:152 Resp: 3938

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.2	24.4



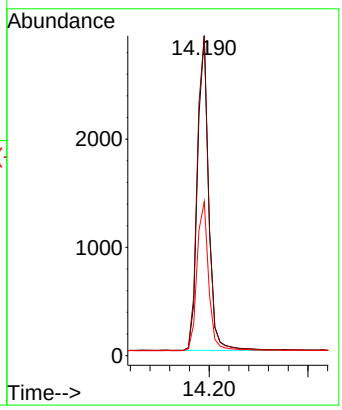


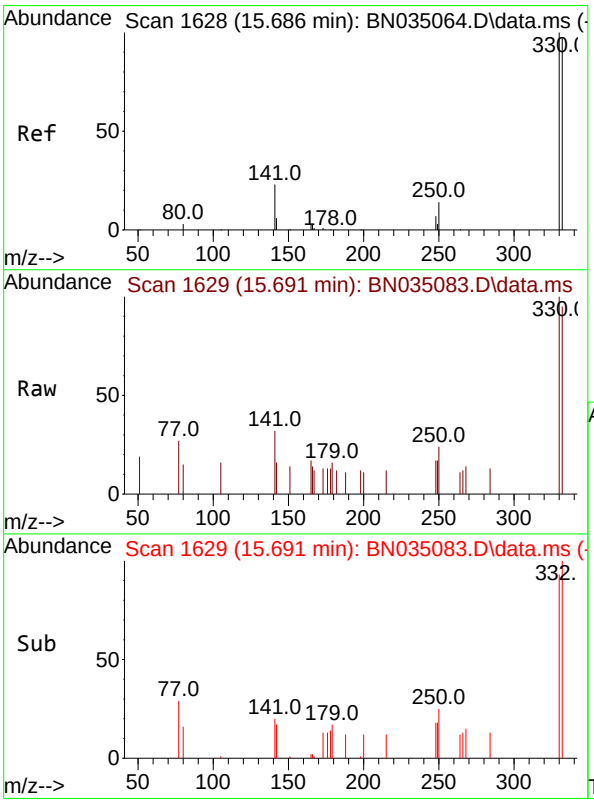
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Tgt Ion:164 Resp: 4578

Ion	Ratio	Lower	Upper
164	100		
162	99.9	82.2	123.2
160	48.1	40.2	60.4

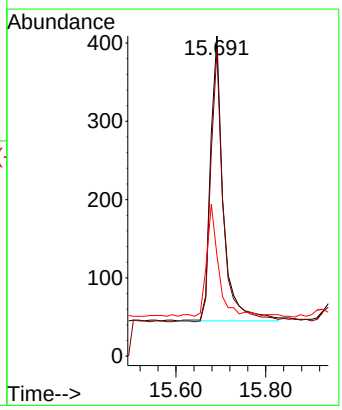


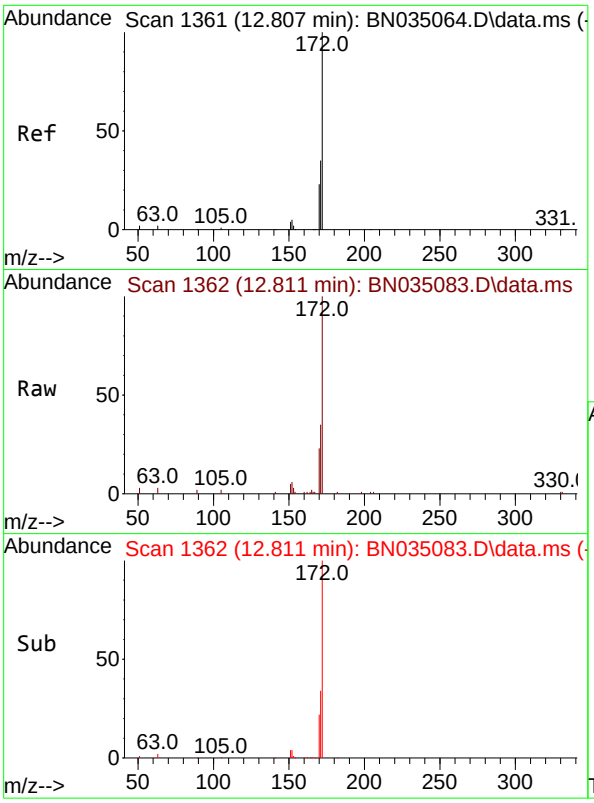


#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:330 Resp: 718

Ion	Ratio	Lower	Upper
330	100		
332	93.9	76.9	115.3
141	36.8	29.6	44.4





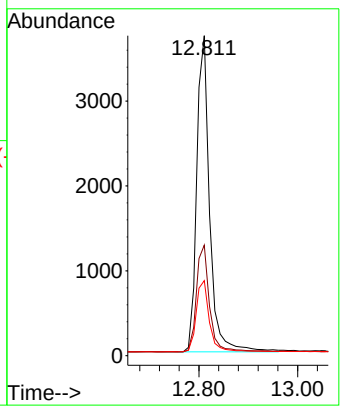
#15
2-Fluorobiphenyl
Concen: 0.362 ng
RT: 12.811 min Scan# 1

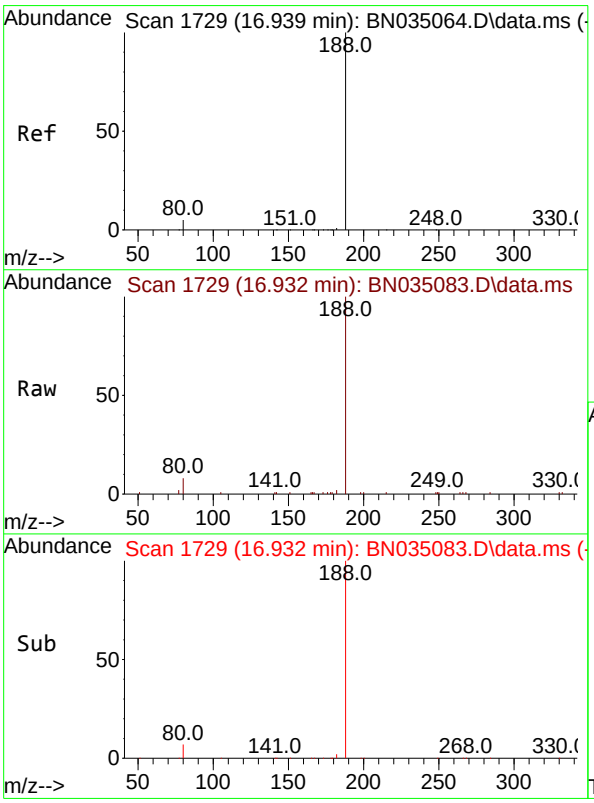
Instrument :
BNA_N
ClientSampleId :
PB164402BL

Delta R.T. 0.004 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:172 Resp: 6730

Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.2	42.4
170	23.4	19.0	28.6

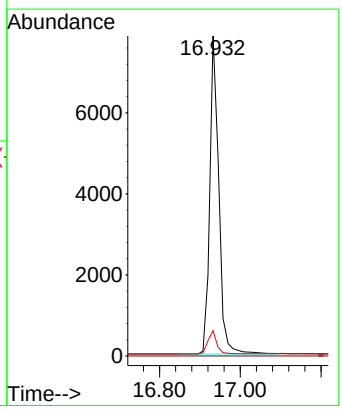


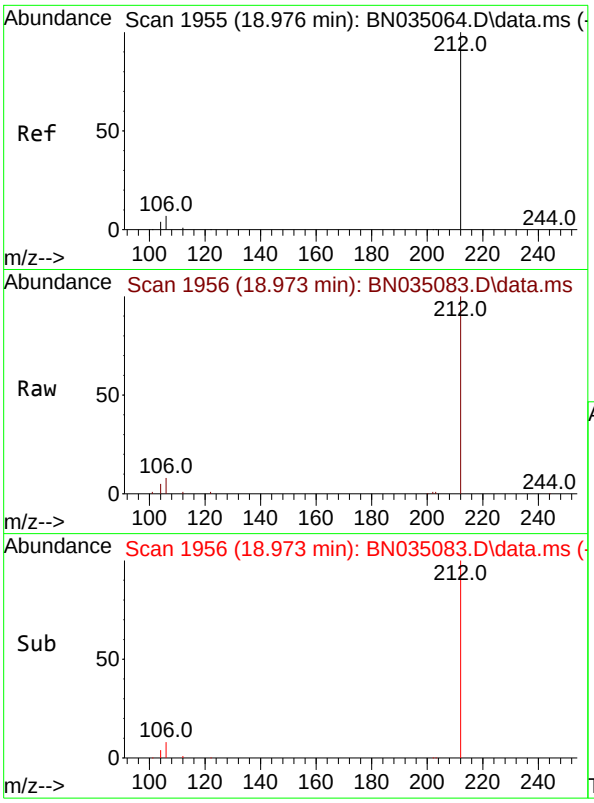


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1729
Delta R.T. -0.007 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:188 Resp: 12175

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.9	4.3	6.5#



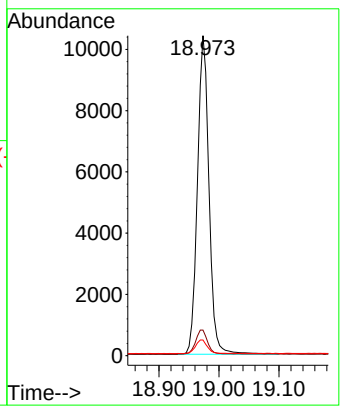


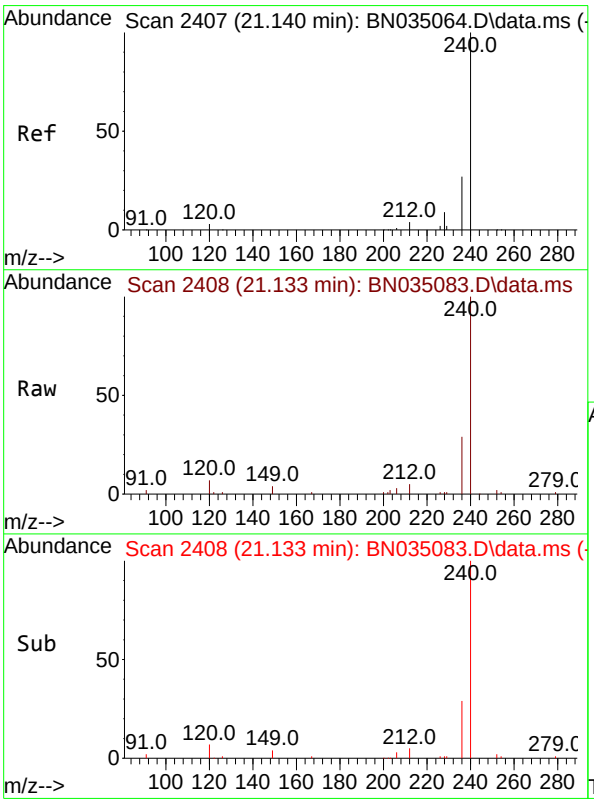
#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 18.973 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Tgt Ion:212 Resp: 13930

Ion	Ratio	Lower	Upper
212	100		
106	7.7	6.0	9.0
104	4.4	3.5	5.3

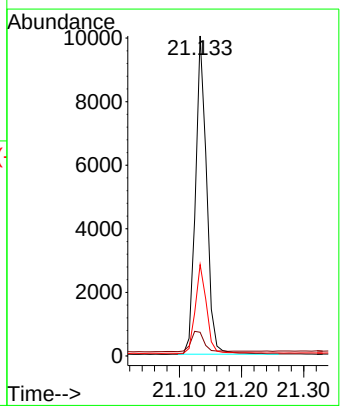


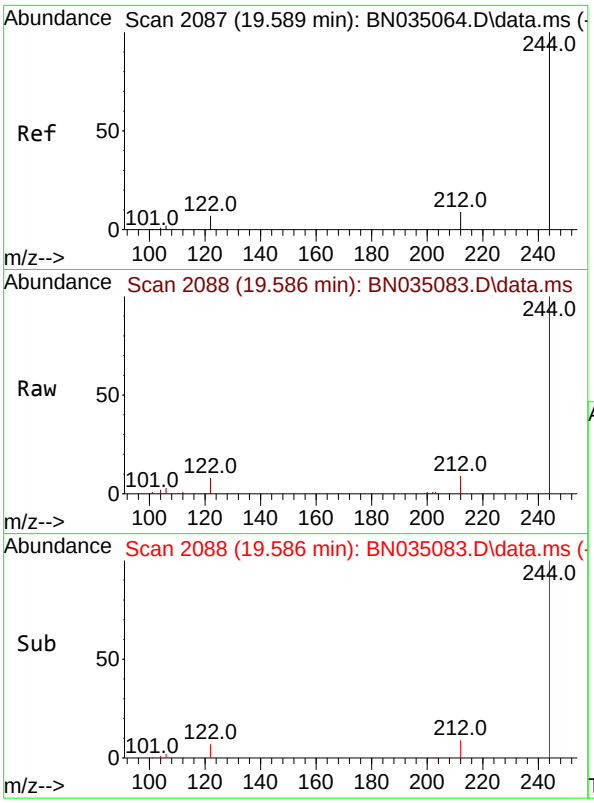


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:240 Resp: 12501

Ion	Ratio	Lower	Upper
240	100		
120	7.4	3.8	5.6#
236	28.5	22.2	33.2



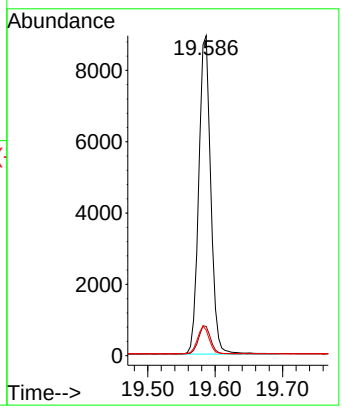


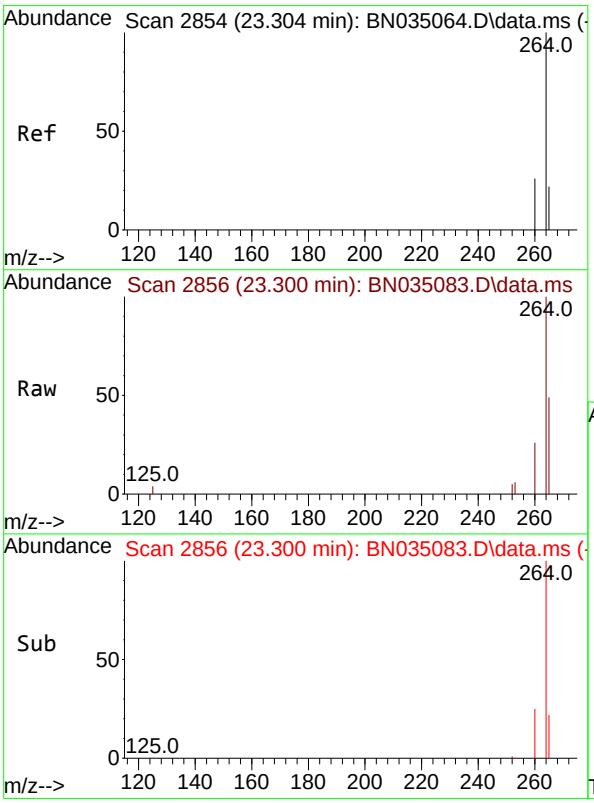
#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.586 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
PB164402BL

Tgt Ion:244 Resp: 10975

Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.6	11.4
122	8.0	6.1	9.1

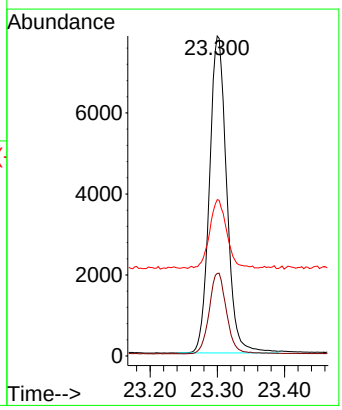




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 2856
Delta R.T. -0.004 min
Lab File: BN035083.D
Acq: 14 Nov 2024 10:48

Tgt Ion:264 Resp: 13990

Ion	Ratio	Lower	Upper
264	100		
260	25.8	20.9	31.3
265	48.9	35.4	53.2



Raw Data: **BN035094.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164402BS	SDG No.:	P4495
Lab Sample ID:	PB164402BS	Matrix:	SOIL
Analytical Method:	SW8270SIM	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035094.D	1	10/25/24 09:50	11/14/24 18:59	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	12.0		0.69	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	12.0		0.80	3.30	ug/Kg
208-96-8	Acenaphthylene	12.1		0.63	3.30	ug/Kg
83-32-9	Acenaphthene	11.6		0.55	3.30	ug/Kg
86-73-7	Fluorene	11.2		0.60	3.30	ug/Kg
85-01-8	Phenanthrene	12.3		0.63	3.30	ug/Kg
120-12-7	Anthracene	12.5		0.79	3.30	ug/Kg
206-44-0	Fluoranthene	10.7		0.67	3.30	ug/Kg
129-00-0	Pyrene	13.6		0.95	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	12.0		0.76	3.30	ug/Kg
218-01-9	Chrysene	12.6		0.86	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	13.0		1.20	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	12.8		0.98	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	13.0		1.70	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	11.2		1.30	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	11.2		1.20	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	10.0		1.10	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.46		17 - 161	114%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		23 - 138	81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		33 - 121	86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		32 - 121	89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		21 - 130	105%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2570	7.553			
1146-65-2	Naphthalene-d8	6460	10.319			
15067-26-2	Acenaphthene-d10	4850	14.19			
1517-22-2	Phenanthrene-d10	11500	16.932			
1719-03-5	Chrysene-d12	9990	21.133			

Raw Data: **BN035094.D**

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

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164402BS			SDG No.:	P4495
Lab Sample ID:	PB164402BS			Matrix:	SOIL
Analytical Method:	SW8270SIM			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	sw3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035094.D	1	10/25/24 09:50	11/14/24 18:59	PB164402

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	9580	23.303			

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\BN111424\
Data File : BN035094.D
Acq On : 14 Nov 2024 18:59
Operator : RC/JU
Sample : PB164402BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Quant Time: Nov 15 01:07:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

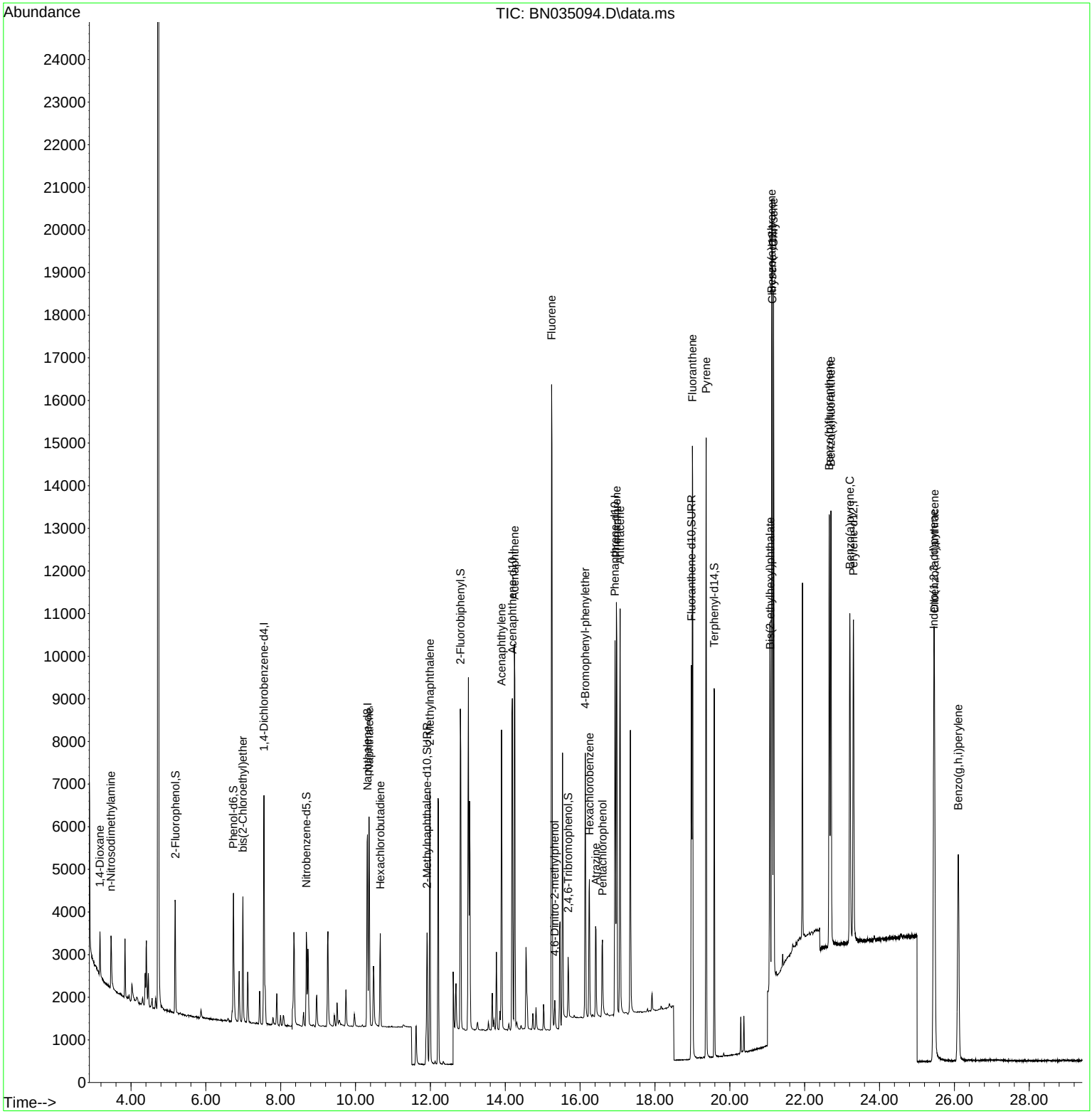
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.553	152	2568	0.400	ng		0.00
7) Naphthalene-d8	10.319	136	6459	0.400	ng		0.00
13) Acenaphthene-d10	14.190	164	4848	0.400	ng		0.00
19) Phenanthrene-d10	16.932	188	11535	0.400	ng	#	0.00
29) Chrysene-d12	21.133	240	9992	0.400	ng	#	0.00
35) Perylene-d12	23.303	264	9578	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.184	112	2217	0.340	ng		0.00
5) Phenol-d6	6.737	99	2828	0.346	ng		0.00
8) Nitrobenzene-d5	8.685	82	1938	0.345	ng		-0.01
11) 2-Methylnaphthalene-d10	11.912	152	5263	0.457	ng		0.00
14) 2,4,6-Tribromophenol	15.679	330	847	0.242	ng		0.00
15) 2-Fluorobiphenyl	12.800	172	6986	0.355	ng		0.00
27) Fluoranthene-d10	18.973	212	11385	0.322	ng		0.00
31) Terphenyl-d14	19.586	244	8824	0.421	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.169	88	699	0.300	ng	#	80
3) n-Nitrosodimethylamine	3.465	42	797	0.367	ng	#	96
6) bis(2-Chloroethyl)ether	6.990	93	2242	0.365	ng		98
9) Naphthalene	10.361	128	6050	0.359	ng		99
10) Hexachlorobutadiene	10.660	225	1756	0.355	ng	#	100
12) 2-Methylnaphthalene	11.988	142	4477	0.360	ng		99
16) Acenaphthylene	13.901	152	7516	0.363	ng		99
17) Acenaphthene	14.243	154	4745	0.349	ng		100
18) Fluorene	15.238	166	6723	0.337	ng		98
20) 4,6-Dinitro-2-methylph...	15.323	198	659	0.274	ng	#	87
21) 4-Bromophenyl-phenylether	16.138	248	2703	0.368	ng	#	86
22) Hexachlorobenzene	16.250	284	2802	0.367	ng		99
23) Atrazine	16.423	200	2076	0.315	ng	#	91
24) Pentachlorophenol	16.597	266	1142	0.320	ng		98
25) Phenanthrene	16.970	178	11178	0.368	ng		99
26) Anthracene	17.069	178	10479	0.376	ng		100
28) Fluoranthene	19.001	202	13343	0.320	ng		100
30) Pyrene	19.368	202	13626	0.409	ng		100
32) Benzo(a)anthracene	21.115	228	12572	0.361	ng		98
33) Chrysene	21.169	228	12991	0.377	ng		98
34) Bis(2-ethylhexyl)phtha...	21.080	149	5566	0.305	ng		100
36) Indeno(1,2,3-cd)pyrene	25.449	276	12815	0.335	ng		100
37) Benzo(b)fluoranthene	22.657	252	12608	0.391	ng		96
38) Benzo(k)fluoranthene	22.700	252	12410	0.385	ng		98
39) Benzo(a)pyrene	23.206	252	11017	0.389	ng		96
40) Dibenzo(a,h)anthracene	25.466	278	10170	0.336	ng		96
41) Benzo(g,h,i)perylene	26.104	276	9675	0.300	ng		98

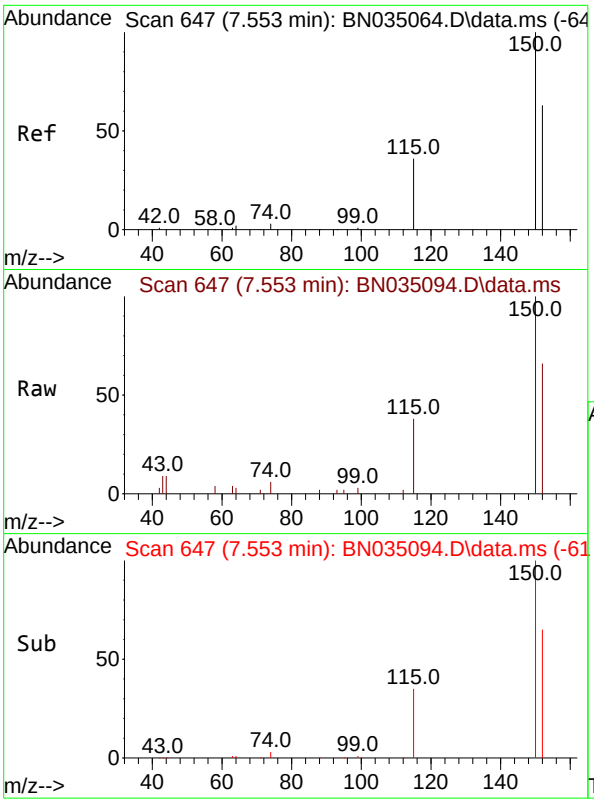
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035094.D
Acq On : 14 Nov 2024 18:59
Operator : RC/JU
Sample : PB164402BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Quant Time: Nov 15 01:07:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration



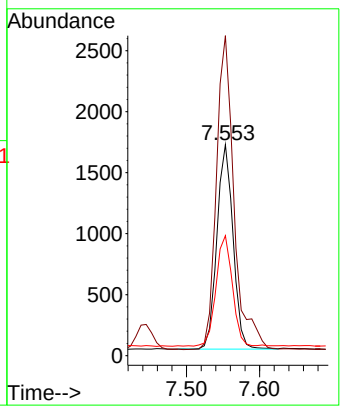


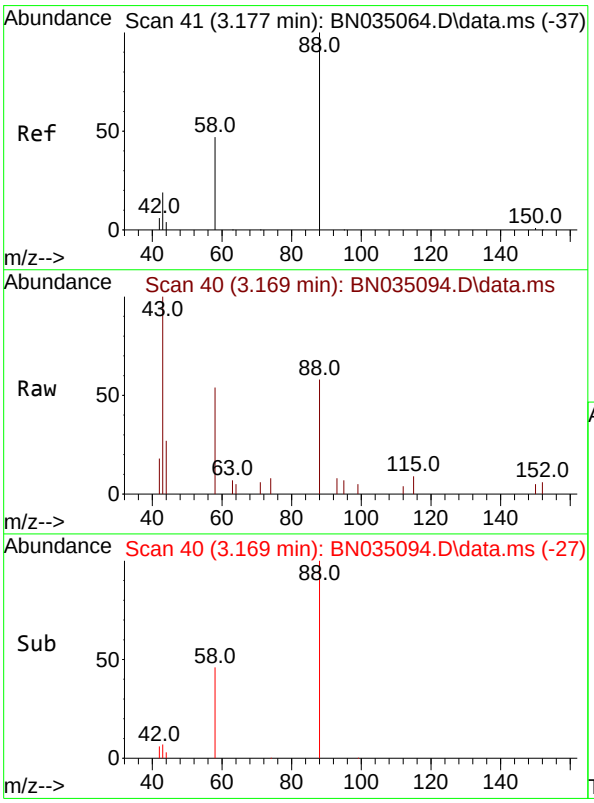
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:152 Resp: 2568

Ion	Ratio	Lower	Upper
152	100		
150	151.6	124.5	186.7
115	56.9	47.8	71.6

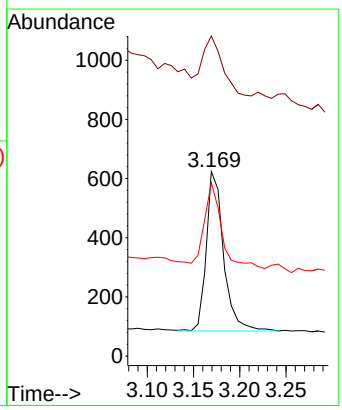


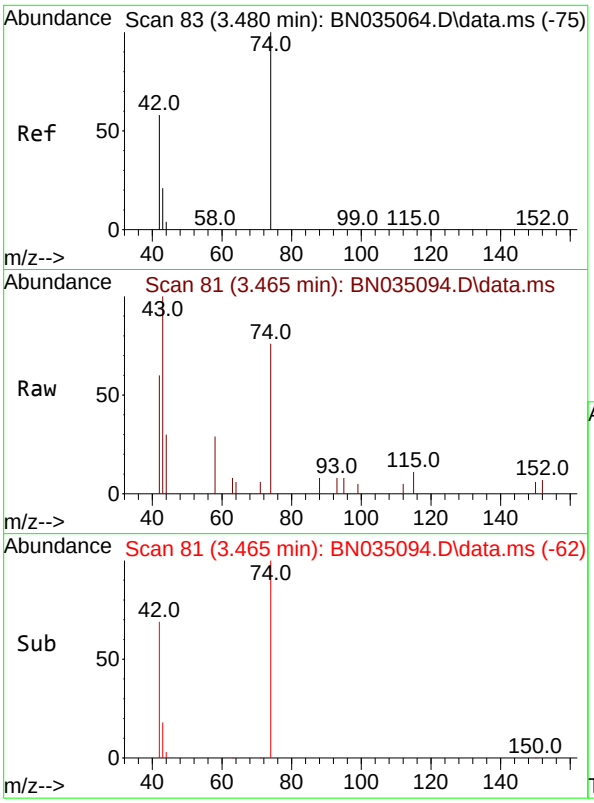


#2
1,4-Dioxane
Concen: 0.300 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion: 88 Resp: 699

Ion	Ratio	Lower	Upper
88	100		
43	44.6	16.9	25.3#
58	53.6	39.0	58.4



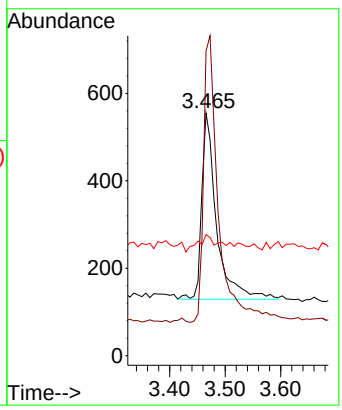


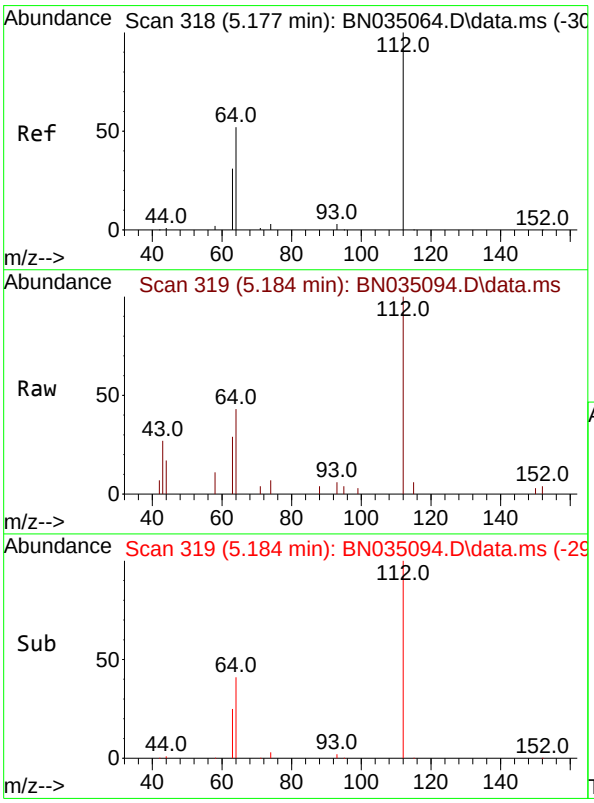
#3
n-Nitrosodimethylamine
Concen: 0.367 ng
RT: 3.465 min Scan# 8
Delta R.T. -0.015 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion: 42 Resp: 797

Ion	Ratio	Lower	Upper
42	100		
74	156.1	120.8	181.2
44	9.8	2.9	4.3#

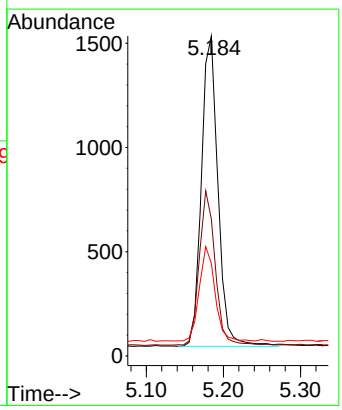


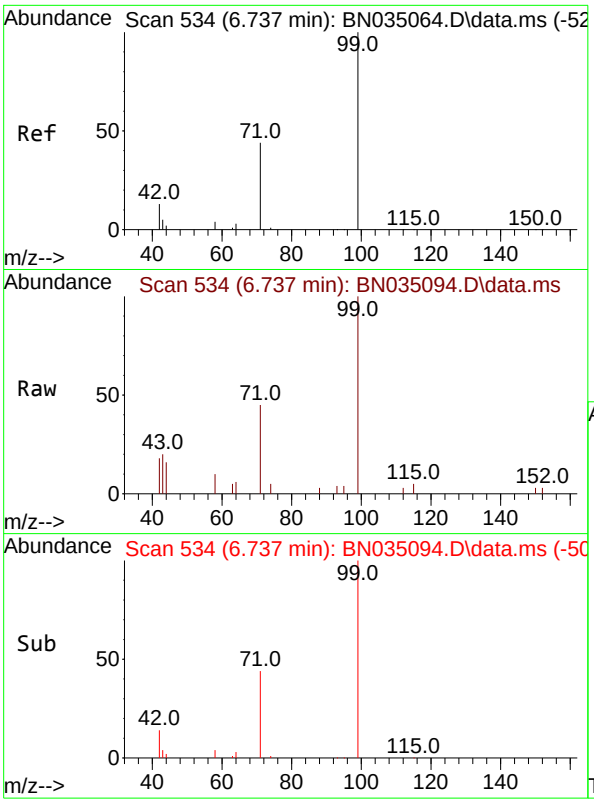


#4
2-Fluorophenol
Concen: 0.340 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:112 Resp: 2217

Ion	Ratio	Lower	Upper
112	100		
64	47.5	39.7	59.5
63	28.6	23.0	34.4



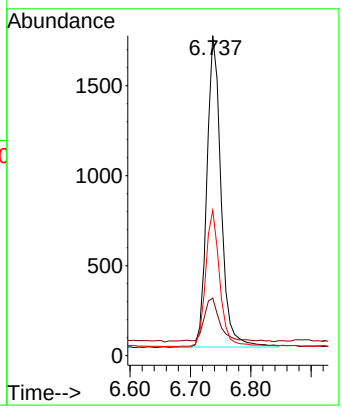


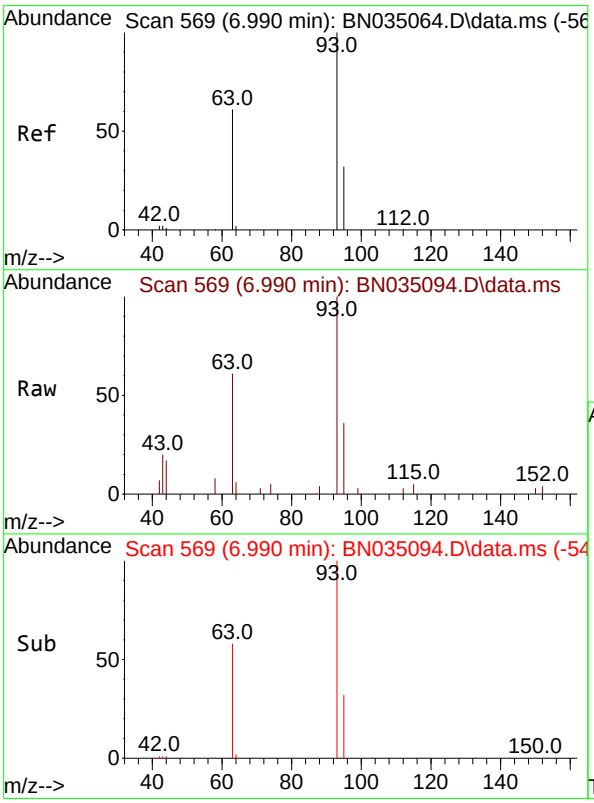
#5
Phenol-d6
Concen: 0.346 ng
RT: 6.737 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion: 99 Resp: 2828

Ion	Ratio	Lower	Upper
99	100		
42	16.3	11.4	17.0
71	43.7	34.6	51.8

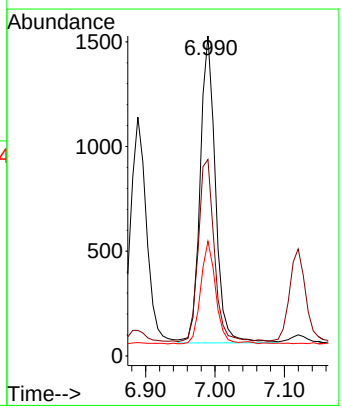


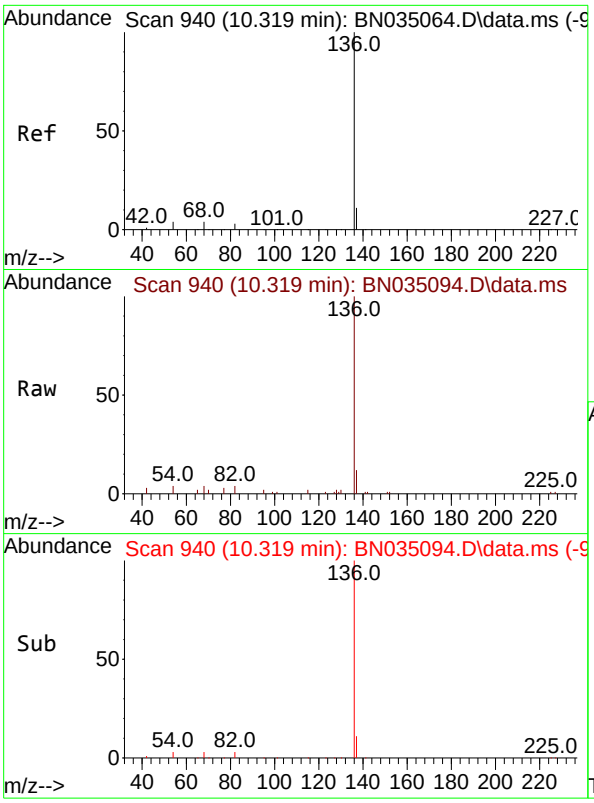


#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion: 93 Resp: 2242

Ion	Ratio	Lower	Upper
93	100		
63	61.4	47.4	71.2
95	33.3	26.2	39.4



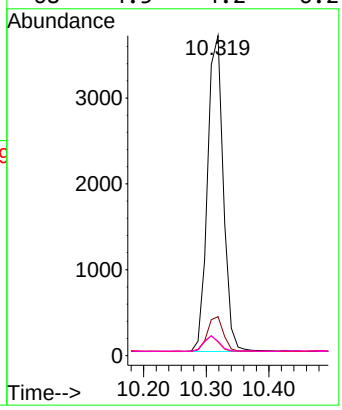


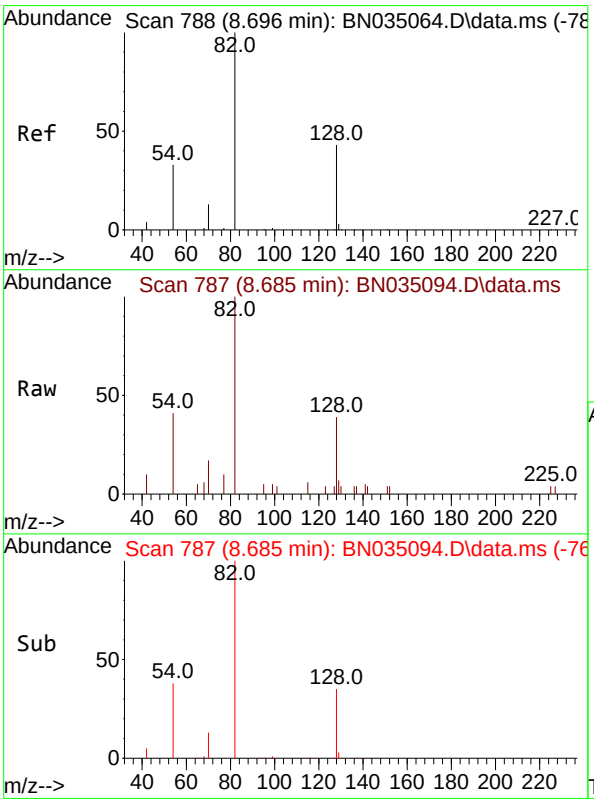
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:136 Resp: 6459

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	4.3	4.0	6.0
68	4.5	4.2	6.2

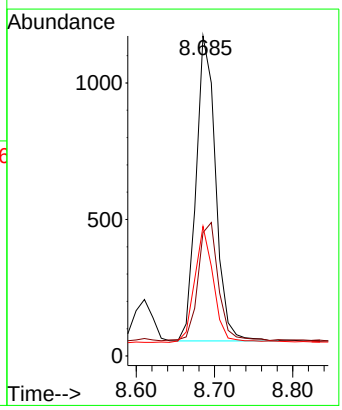


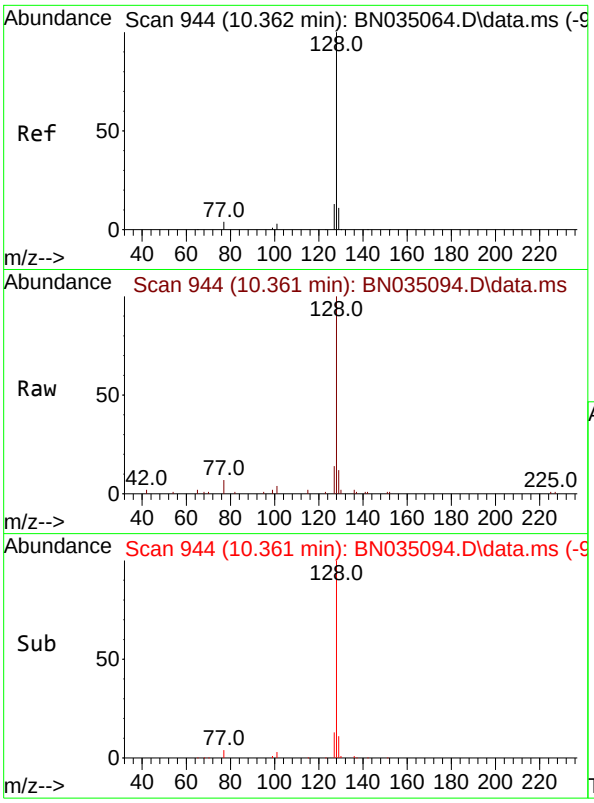


#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion: 82 Resp: 1938

Ion	Ratio	Lower	Upper
82	100		
128	38.6	36.5	54.7
54	40.5	28.7	43.1



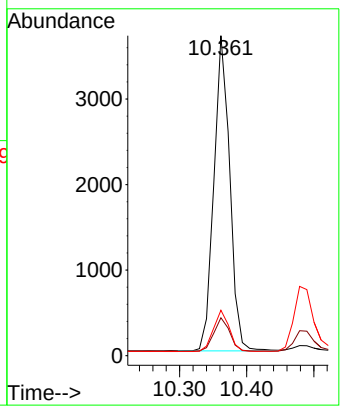


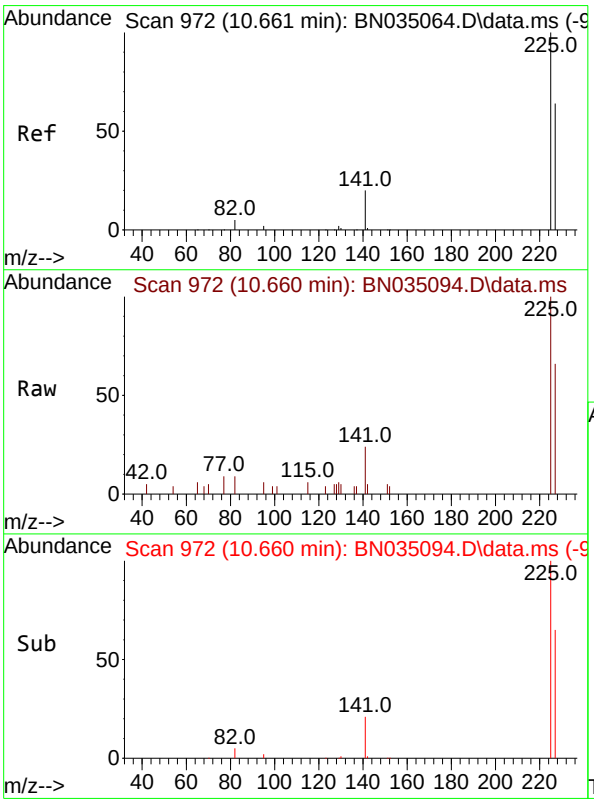
#9
Naphthalene
Concen: 0.359 ng
RT: 10.361 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:128 Resp: 6050

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.6	14.4
127	14.2	11.6	17.4

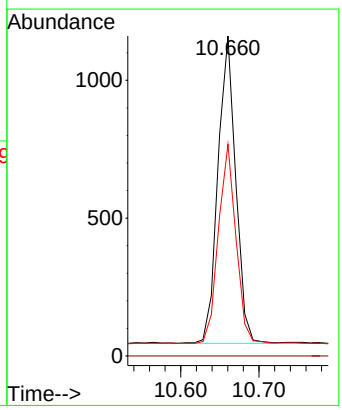


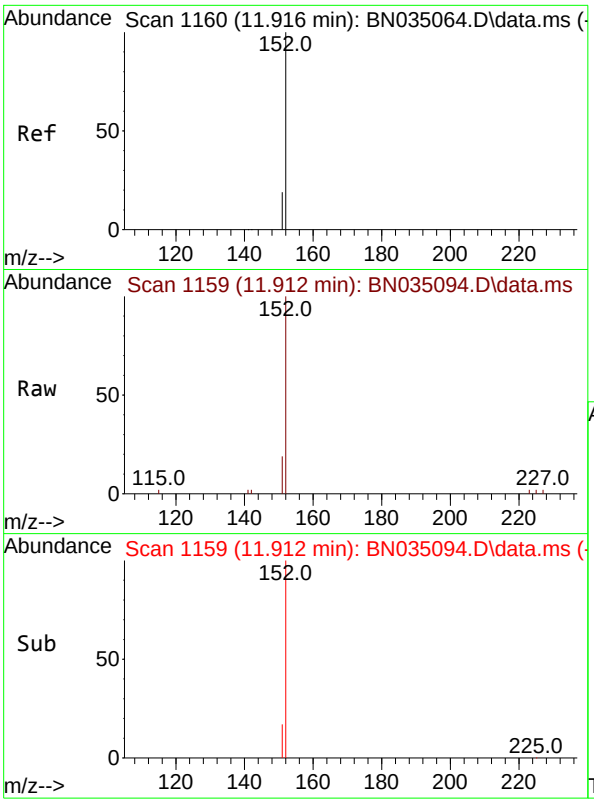


#10
Hexachlorobutadiene
Concen: 0.355 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:225 Resp: 1756

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.5	77.3



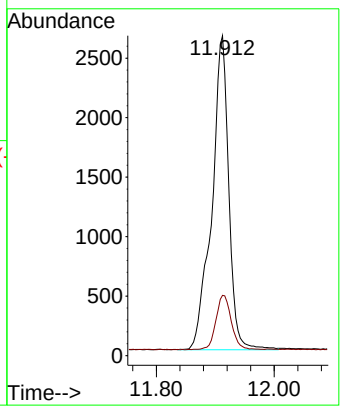


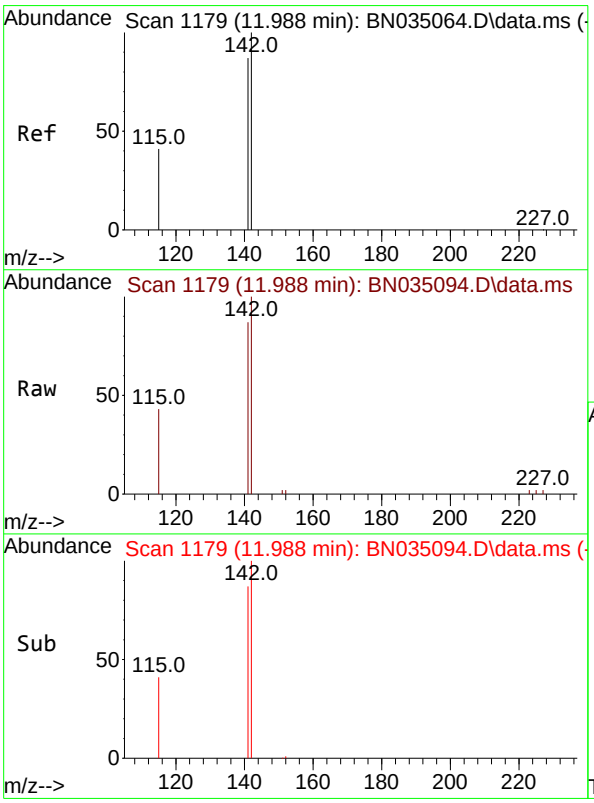
#11
2-Methylnaphthalene-d10
Concen: 0.457 ng
RT: 11.912 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:152 Resp: 5263

Ion	Ratio	Lower	Upper
152	100		
151	16.0	16.2	24.4#

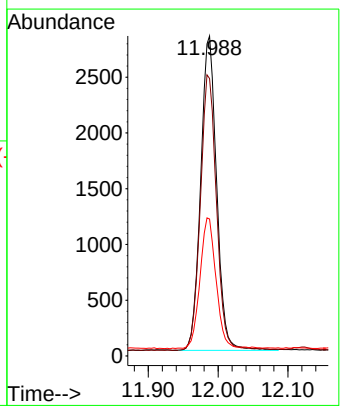


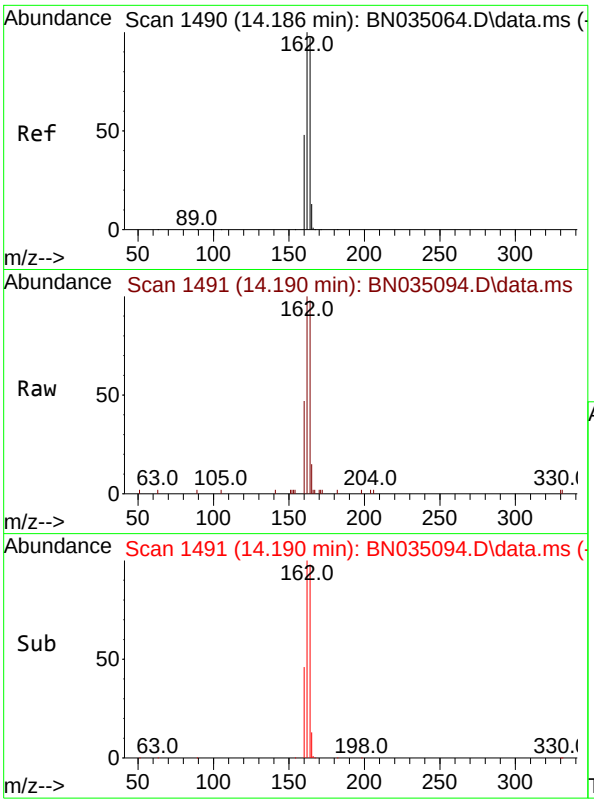


#12
2-Methylnaphthalene
Concen: 0.360 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:142 Resp: 4477

Ion	Ratio	Lower	Upper
142	100		
141	86.7	70.1	105.1
115	42.8	34.4	51.6



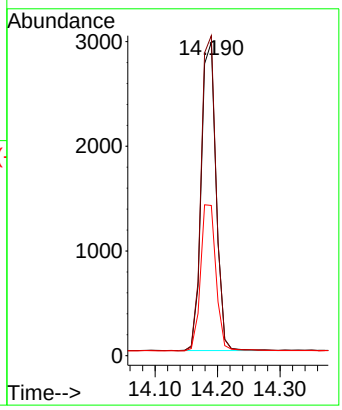


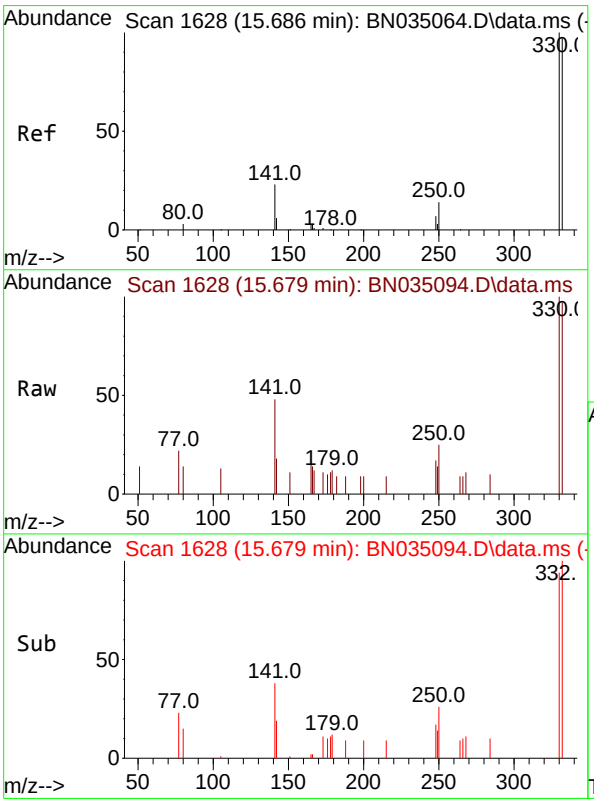
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 14
Delta R.T. 0.004 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:164 Resp: 4848

Ion	Ratio	Lower	Upper
164	100		
162	102.1	82.2	123.2
160	47.9	40.2	60.4

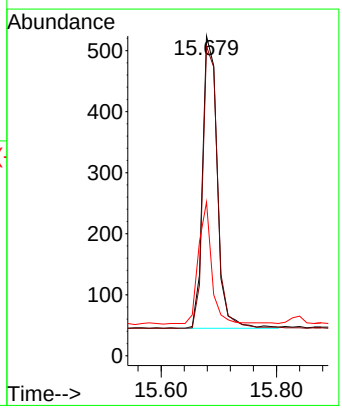


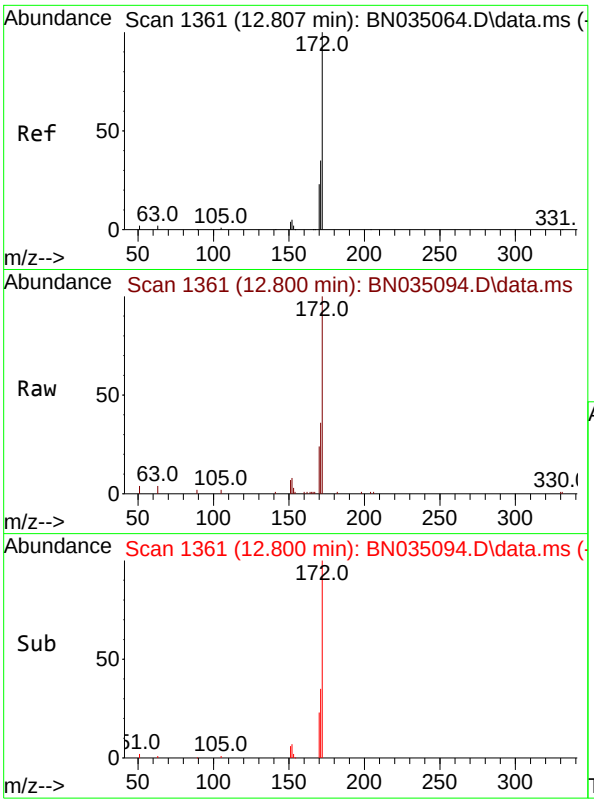


#14
2,4,6-Tribromophenol
Concen: 0.242 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:330 Resp: 847

Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.9	115.3
141	37.8	29.6	44.4



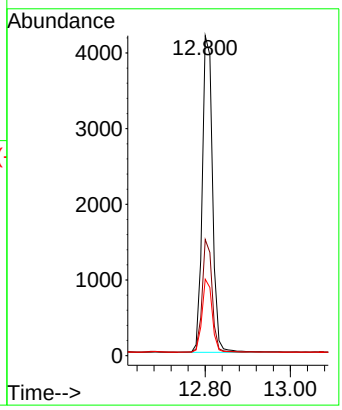


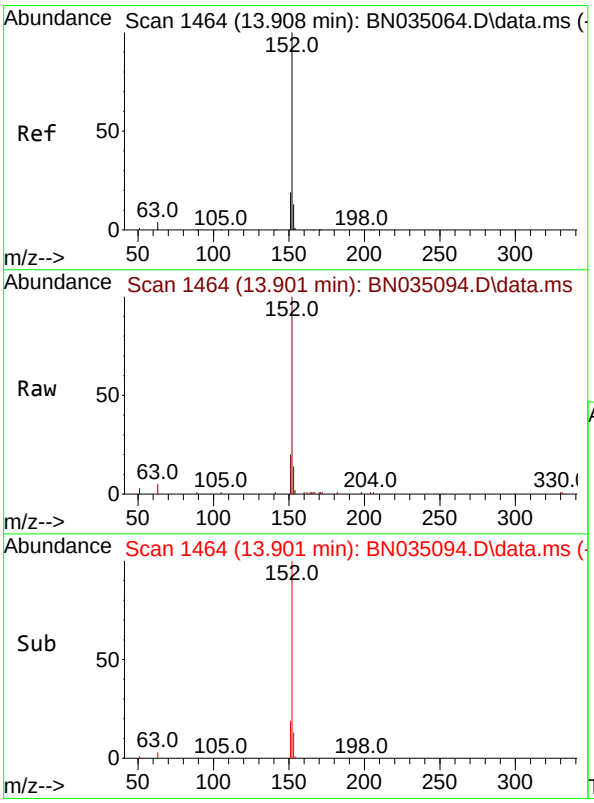
#15
2-Fluorobiphenyl
Concen: 0.355 ng
RT: 12.800 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:172 Resp: 6986

Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.2	42.4
170	23.9	19.0	28.6

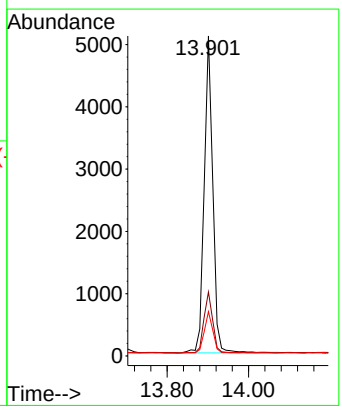


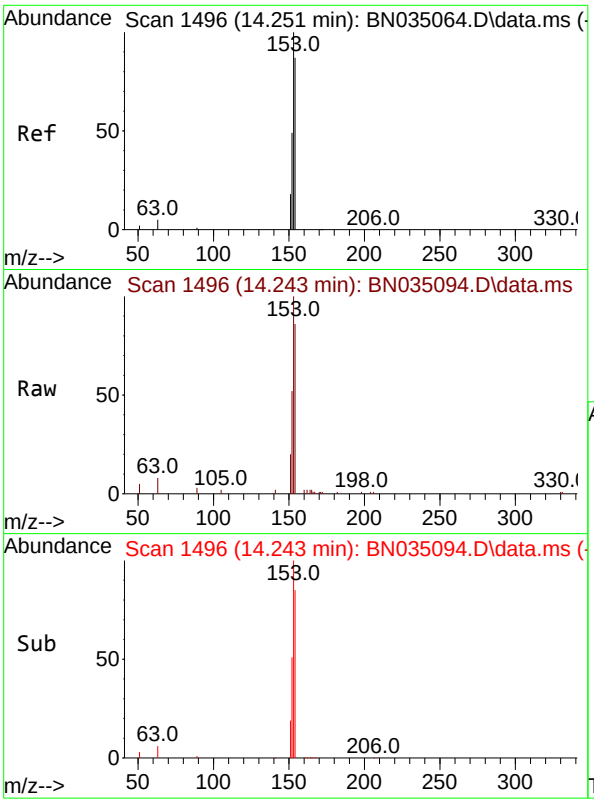


#16
Acenaphthylene
Concen: 0.363 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:152 Resp: 7516

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.8	23.8
153	13.1	10.2	15.4



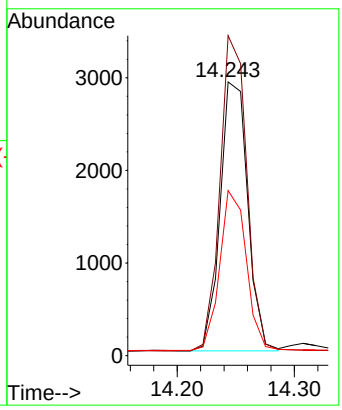


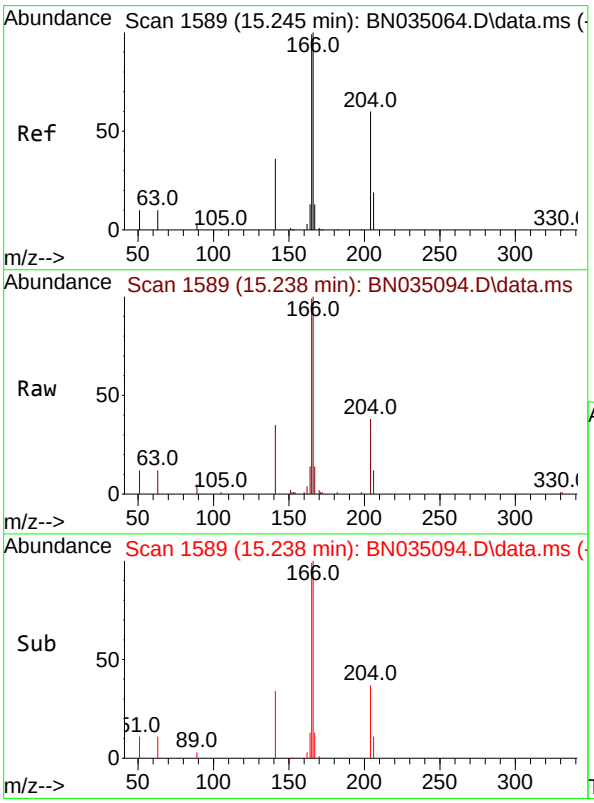
#17
Acenaphthene
Concen: 0.349 ng
RT: 14.243 min Scan# 14
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:154 Resp: 4745

Ion	Ratio	Lower	Upper
154	100		
153	114.6	91.6	137.4
152	58.0	45.8	68.6

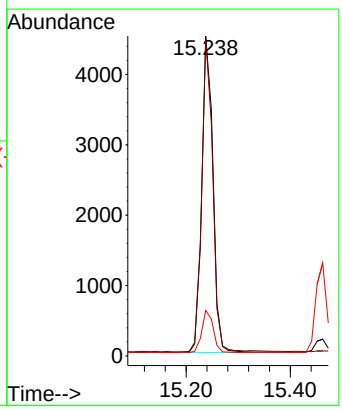


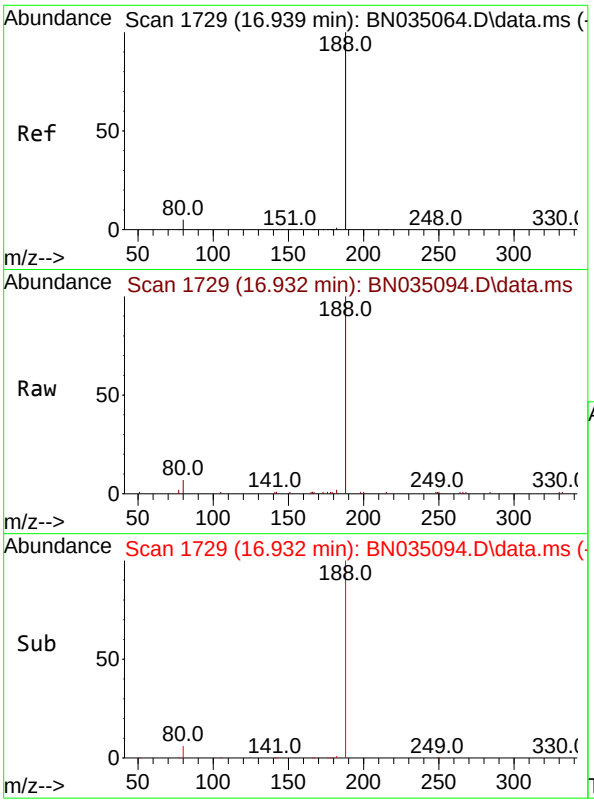


#18
Fluorene
Concen: 0.337 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:166 Resp: 6723

Ion	Ratio	Lower	Upper
166	100		
165	97.0	79.1	118.7
167	13.6	10.6	16.0



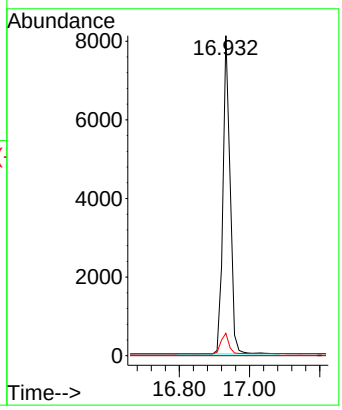


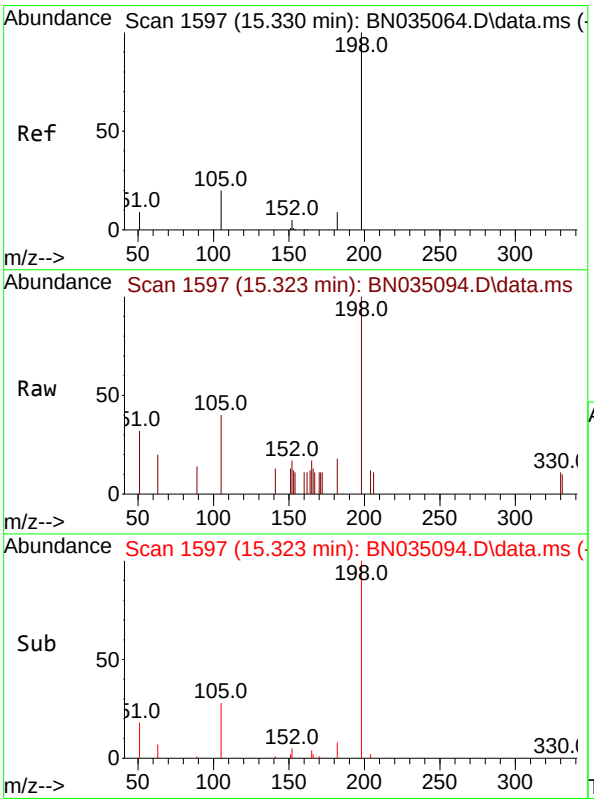
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:188 Resp: 11535

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.0	4.3	6.5#

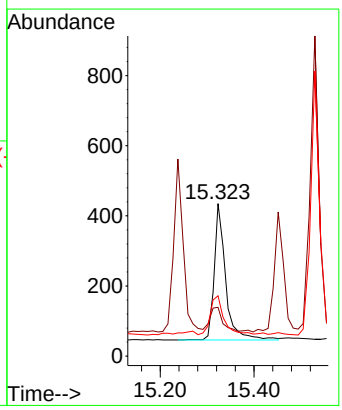


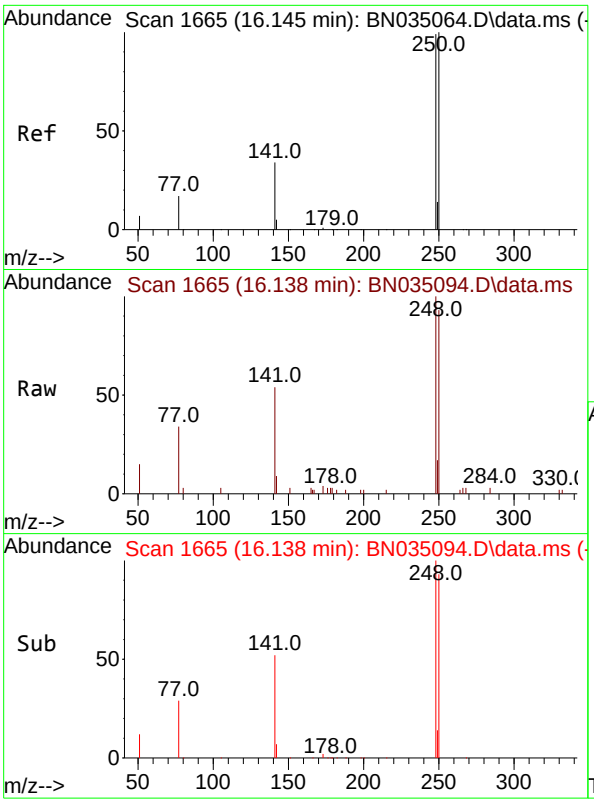


#20
4,6-Dinitro-2-methylphenol
Concen: 0.274 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:198 Resp: 659

Ion	Ratio	Lower	Upper
198	100		
51	32.0	29.9	44.9
105	39.5	23.7	35.5#



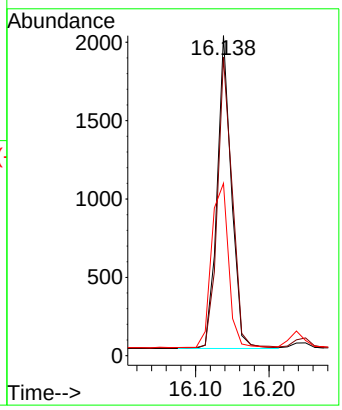


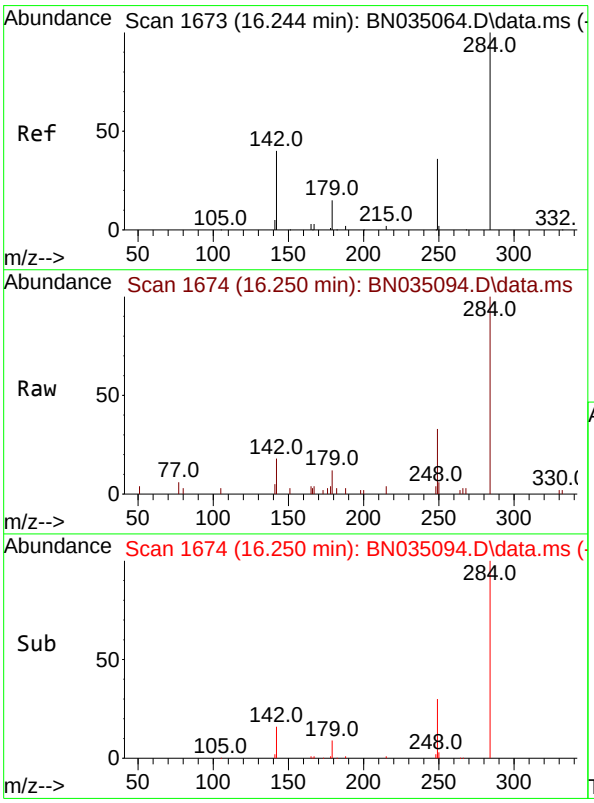
#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.138 min Scan# 1(
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:248 Resp: 2703

Ion	Ratio	Lower	Upper
248	100		
250	93.2	81.2	121.8
141	53.9	29.1	43.7#

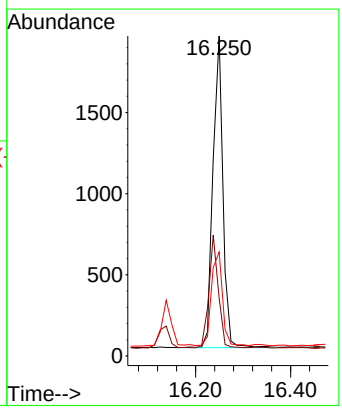


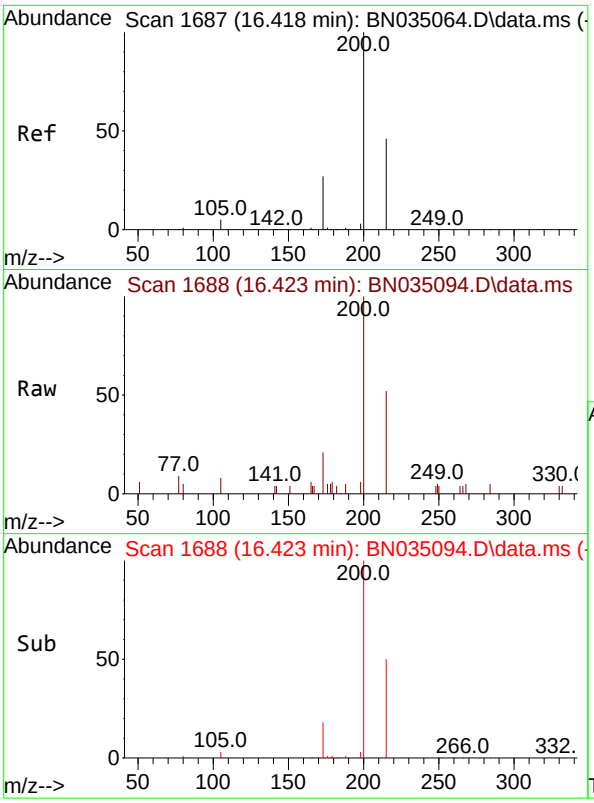


#22
Hexachlorobenzene
Concen: 0.367 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:284 Resp: 2802

Ion	Ratio	Lower	Upper
284	100		
142	34.3	28.2	42.4
249	33.1	26.2	39.2



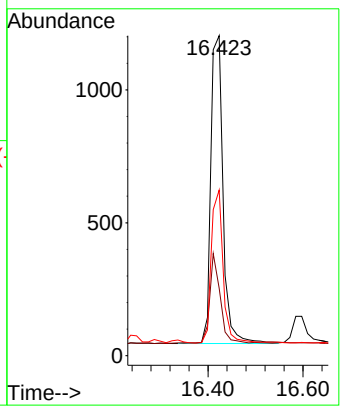


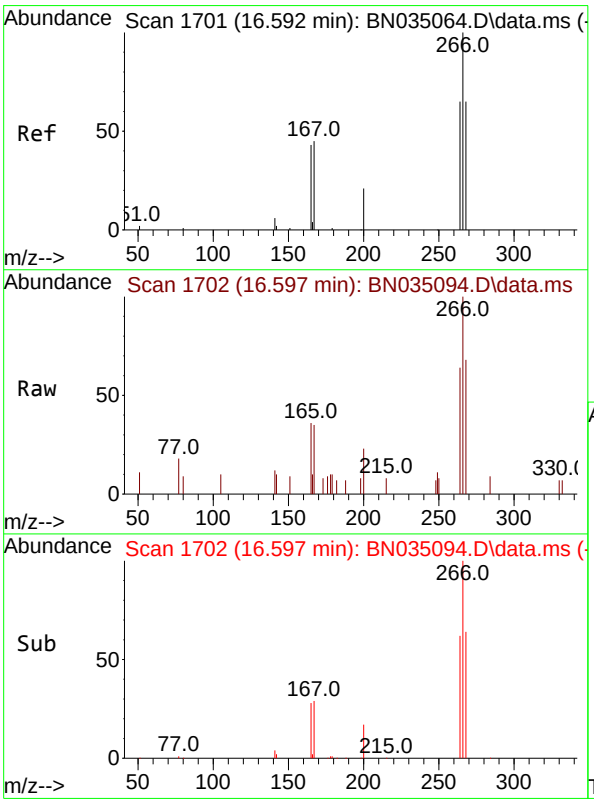
#23
Atrazine
Concen: 0.315 ng
RT: 16.423 min Scan# 1(
Delta R.T. 0.005 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:200 Resp: 2076

Ion	Ratio	Lower	Upper
200	100		
173	21.1	22.6	33.8#
215	51.7	37.8	56.6

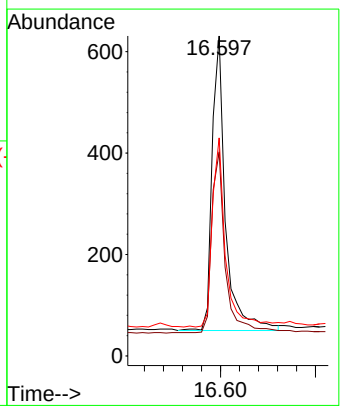


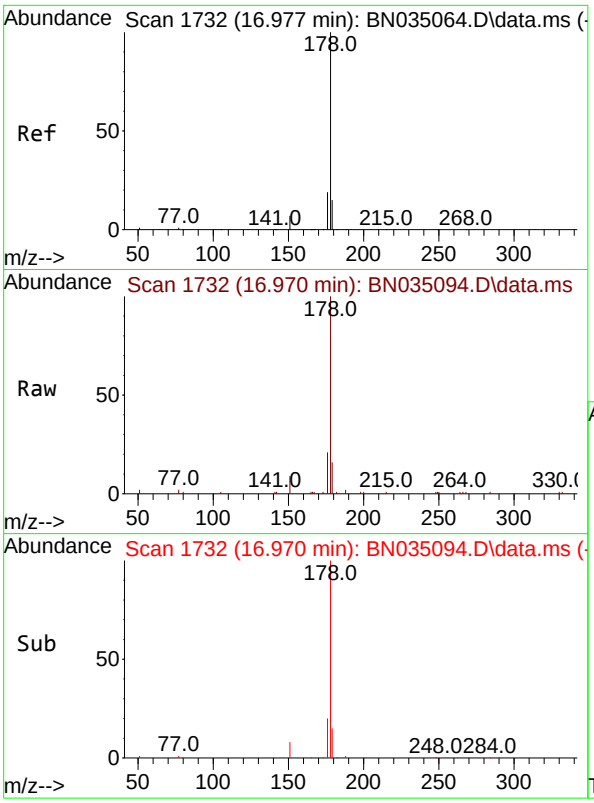


#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:266 Resp: 1142

Ion	Ratio	Lower	Upper
266	100		
264	61.5	49.4	74.0
268	63.2	52.6	79.0



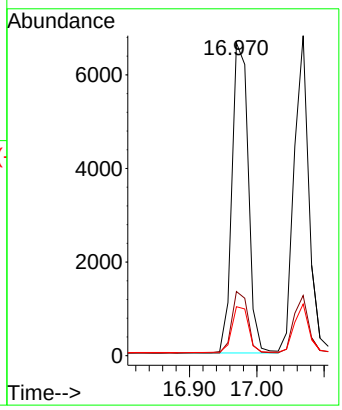


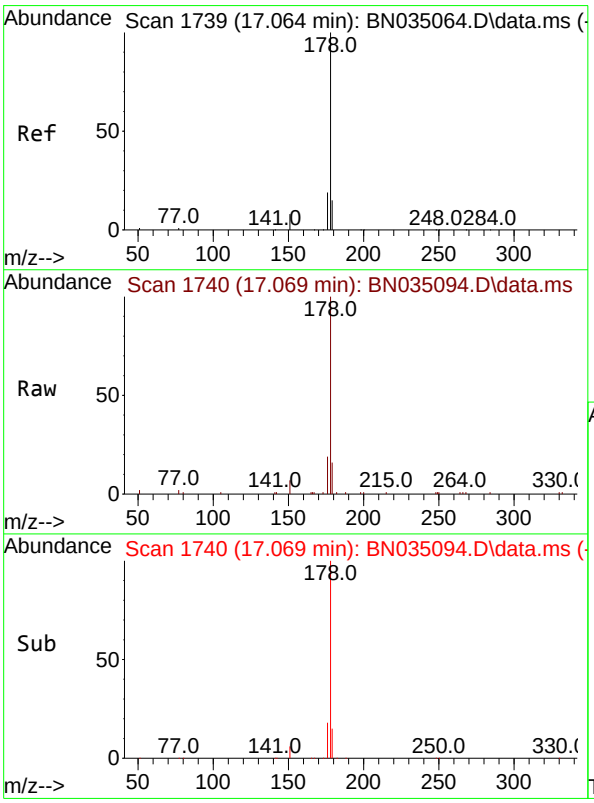
#25
Phenanthrene
Concen: 0.368 ng
RT: 16.970 min Scan# 1
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:178 Resp: 11178

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.2	22.8
179	15.2	12.6	18.8

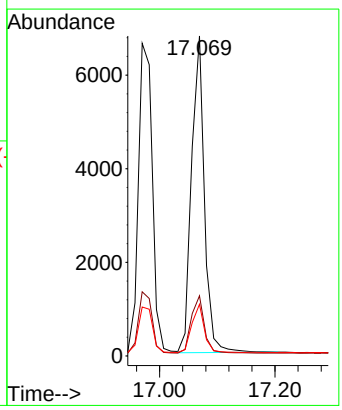


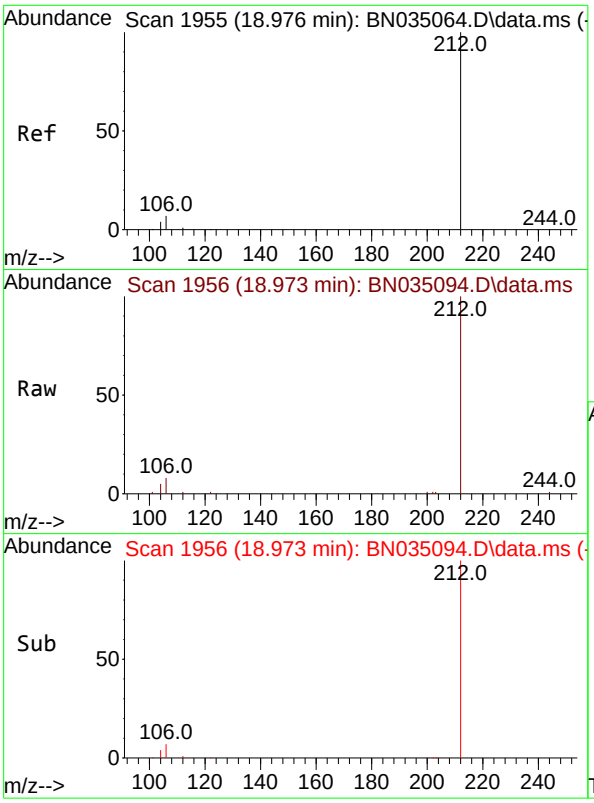


#26
Anthracene
Concen: 0.376 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:178 Resp: 10479

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	22.0
179	14.8	12.2	18.2



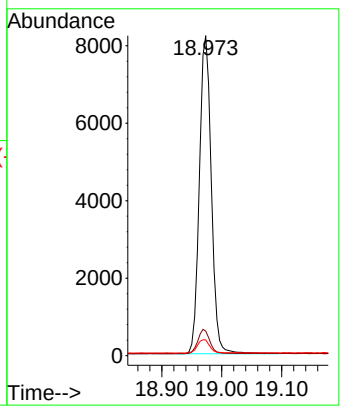


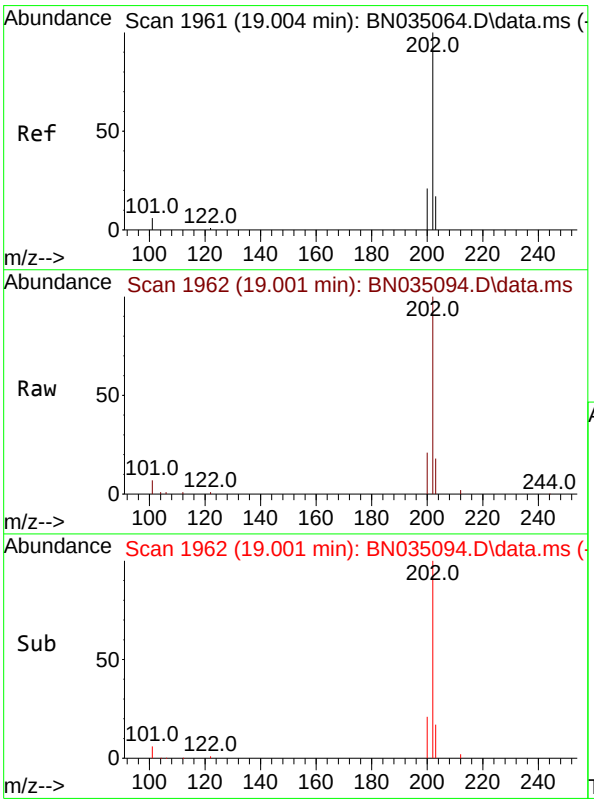
#27
Fluoranthene-d10
Concen: 0.322 ng
RT: 18.973 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:212 Resp: 11385

Ion	Ratio	Lower	Upper
212	100		
106	7.5	6.0	9.0
104	4.3	3.5	5.3

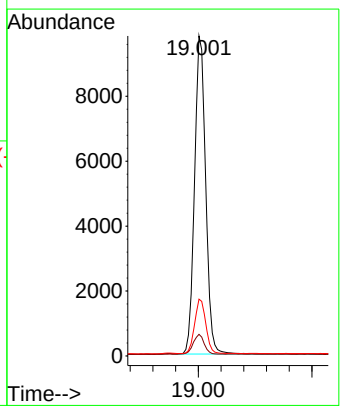


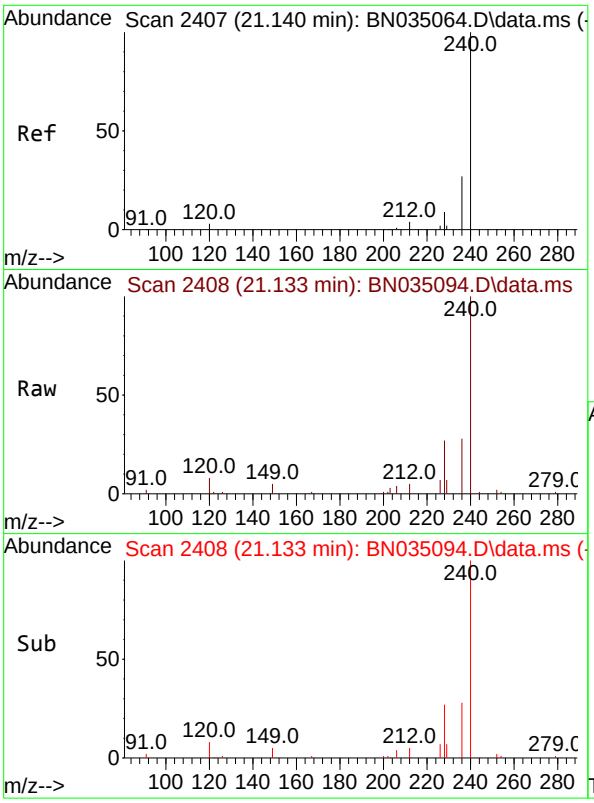


#28
Fluoranthene
Concen: 0.320 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.002 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:202 Resp: 13343

Ion	Ratio	Lower	Upper
202	100		
101	6.4	5.2	7.8
203	17.1	13.8	20.8



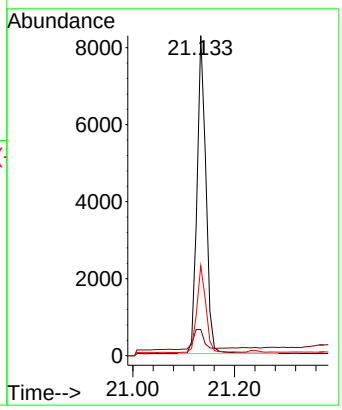


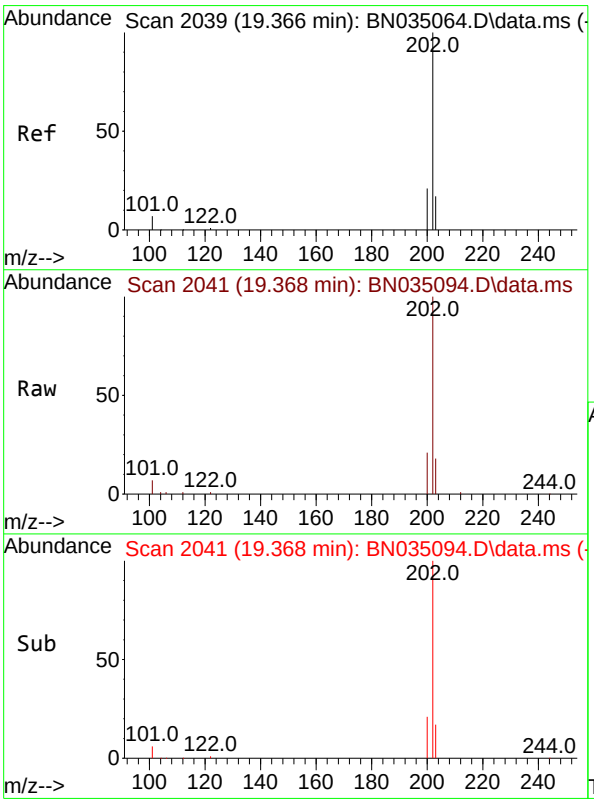
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:240 Resp: 9992

Ion	Ratio	Lower	Upper
240	100		
120	8.2	3.8	5.6#
236	28.1	22.2	33.2

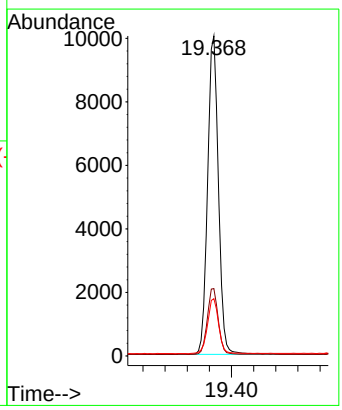


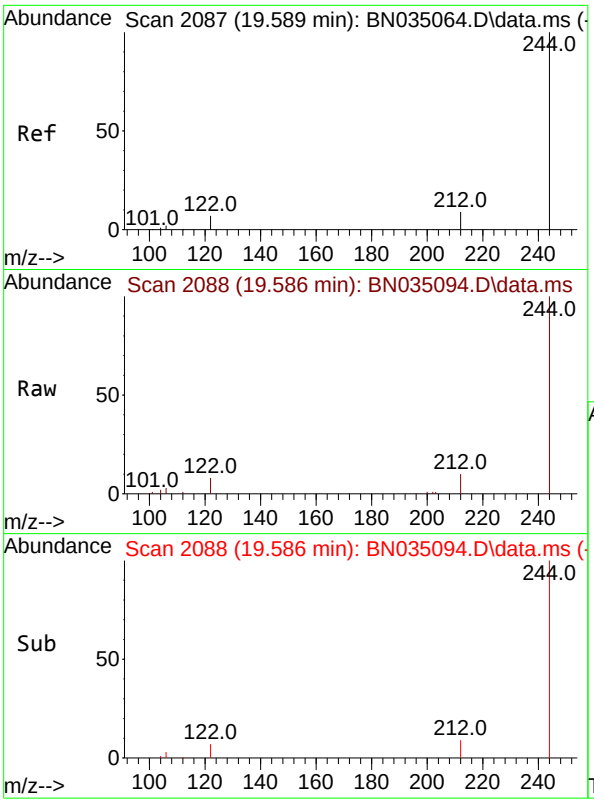


#30
Pyrene
Concen: 0.409 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:202 Resp: 13626

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.9	14.2	21.4



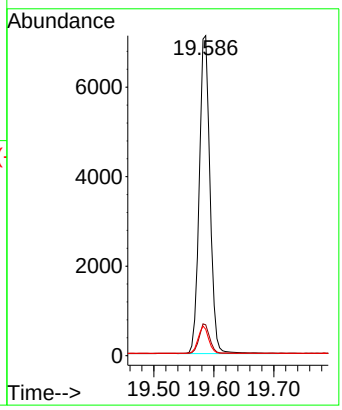


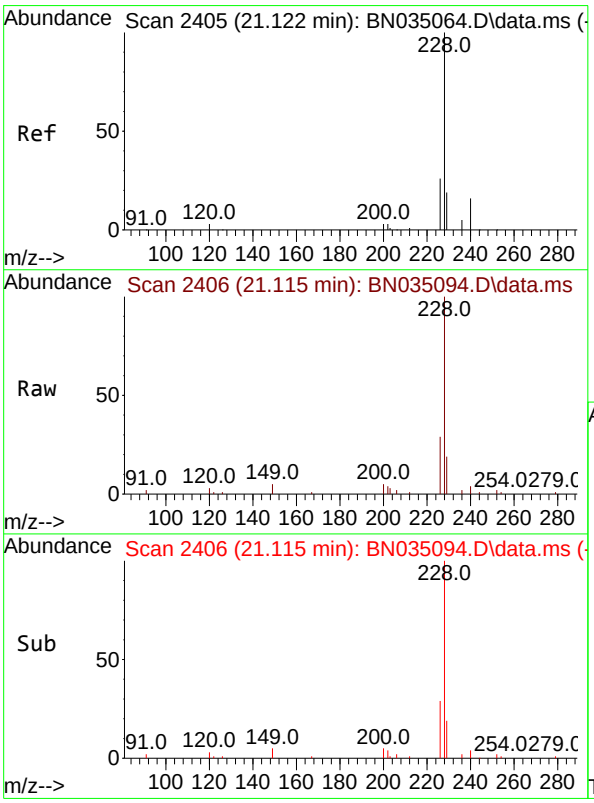
#31
Terphenyl-d14
Concen: 0.421 ng
RT: 19.586 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:244 Resp: 8824

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.6	11.4
122	8.3	6.1	9.1

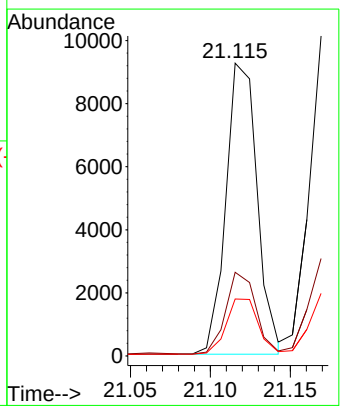


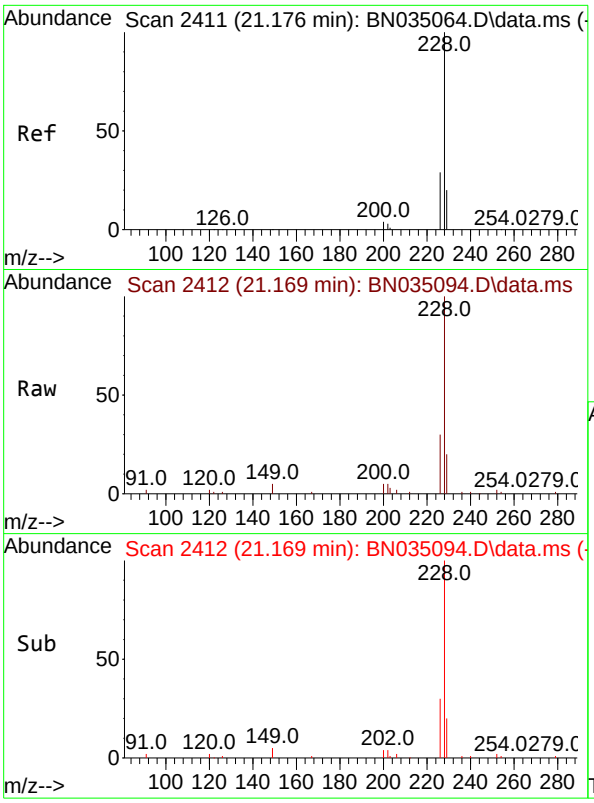


#32
Benzo(a)anthracene
Concen: 0.361 ng
RT: 21.115 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:228 Resp: 12572

Ion	Ratio	Lower	Upper
228	100		
226	28.6	21.4	32.0
229	19.4	15.7	23.5



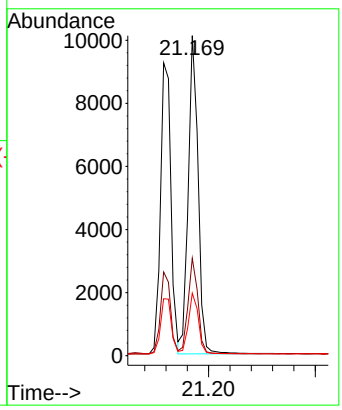


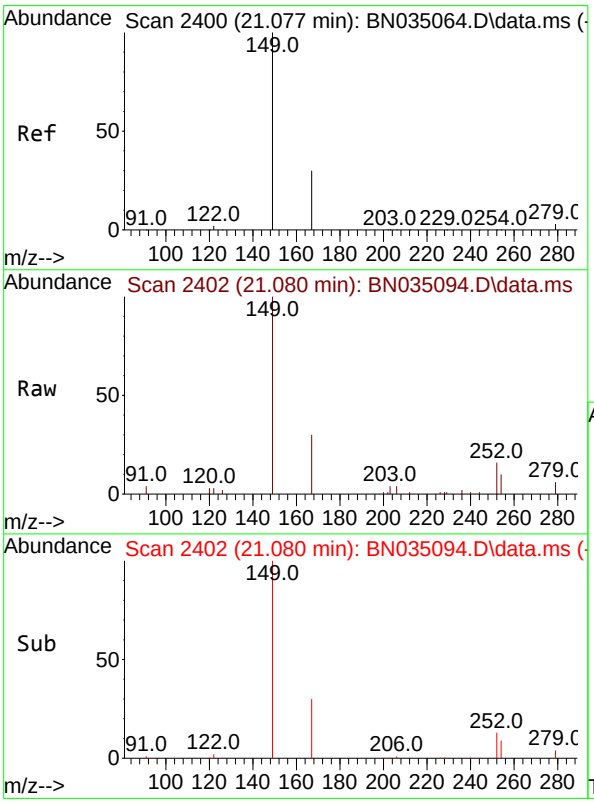
#33
Chrysene
Concen: 0.377 ng
RT: 21.169 min Scan# 24
Delta R.T. -0.007 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:228 Resp: 12991

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.7	35.5
229	19.6	16.2	24.4

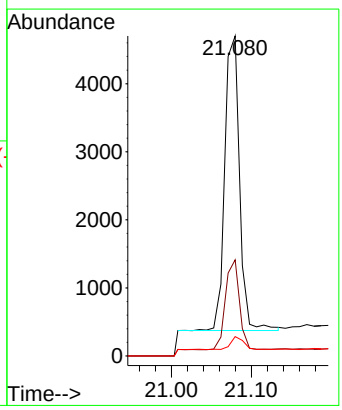


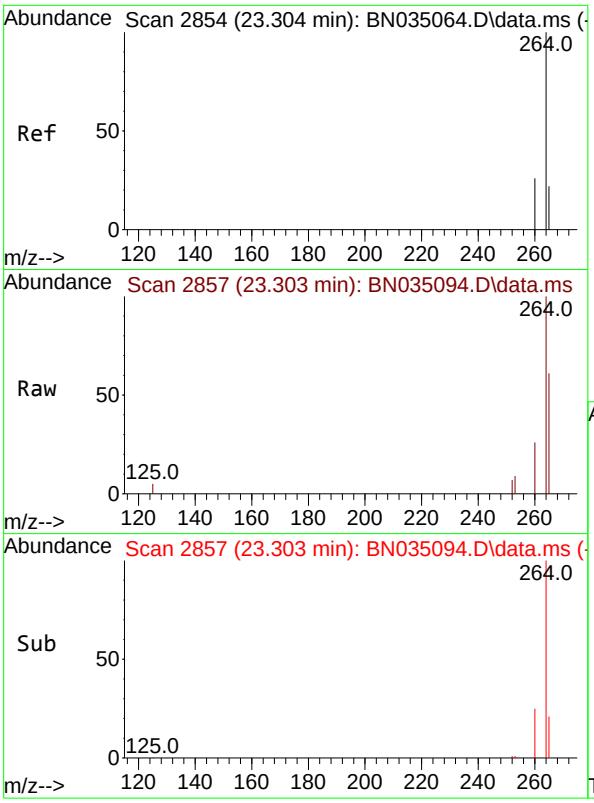


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.305 ng
RT: 21.080 min Scan# 2402
Delta R.T. 0.002 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:149 Resp: 5566

Ion	Ratio	Lower	Upper
149	100		
167	28.9	23.2	34.8
279	3.6	3.2	4.8



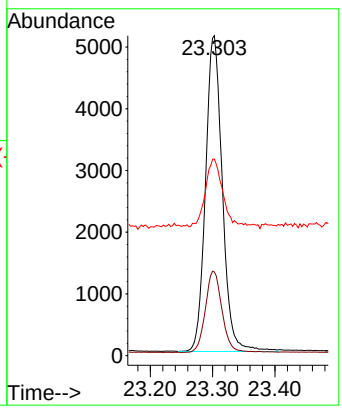


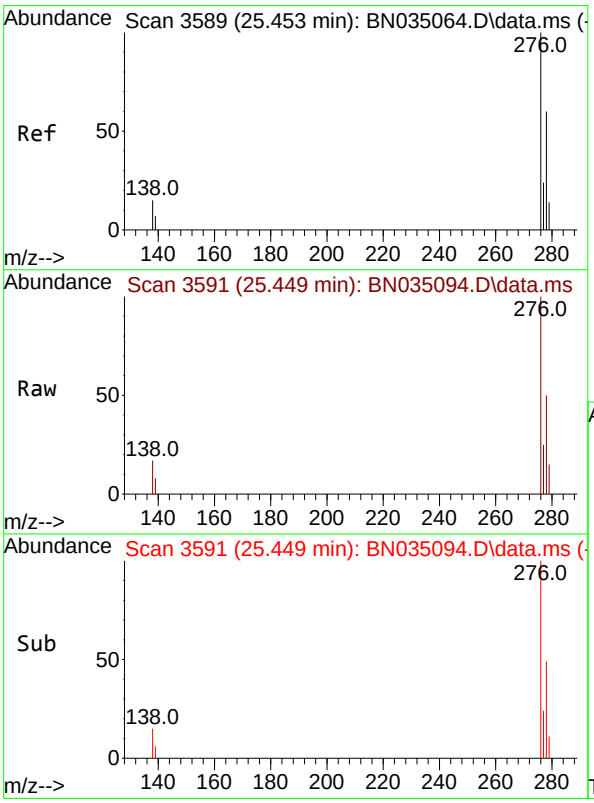
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:264 Resp: 9578

Ion	Ratio	Lower	Upper
264	100		
260	26.1	20.9	31.3
265	61.4	35.4	53.2#

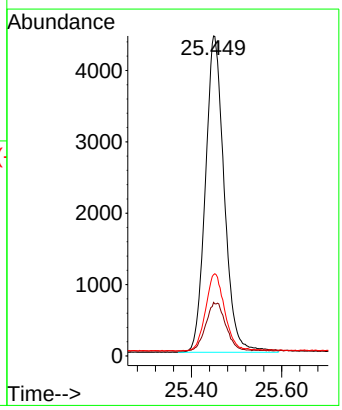


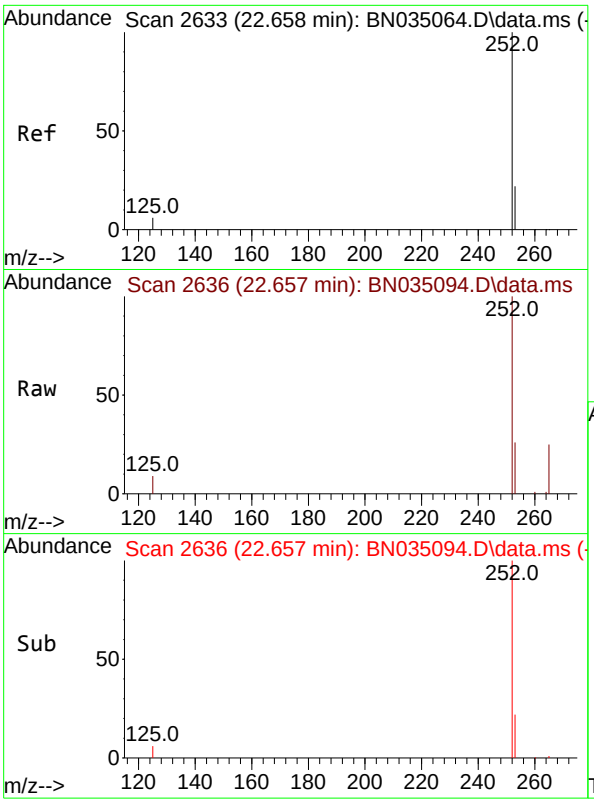


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.335 ng
RT: 25.449 min Scan# 3591
Delta R.T. -0.004 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:276 Resp: 12815

Ion	Ratio	Lower	Upper
276	100		
138	16.5	13.0	19.4
277	24.6	19.8	29.6



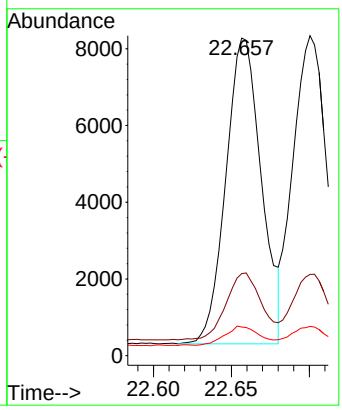


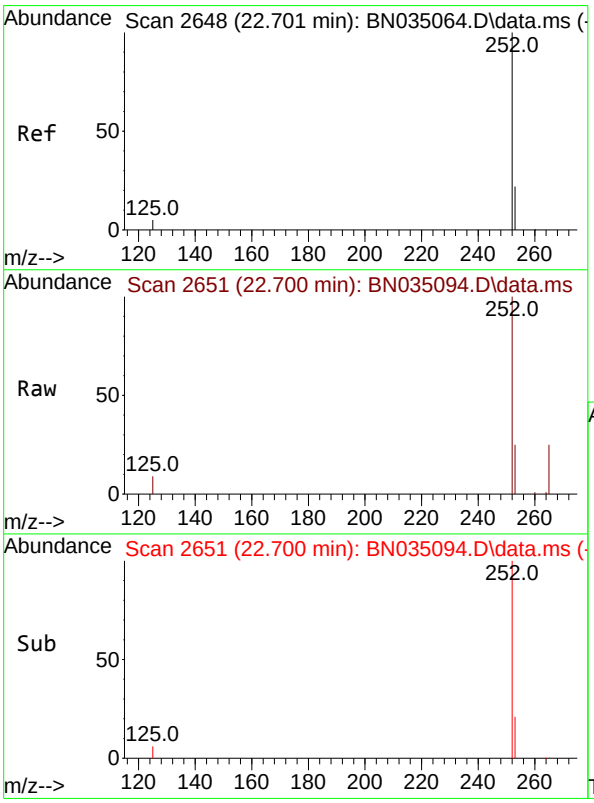
#37
Benzo(b)fluoranthene
Concen: 0.391 ng
RT: 22.657 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:252 Resp: 12608

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.3	28.9
125	9.0	6.2	9.2

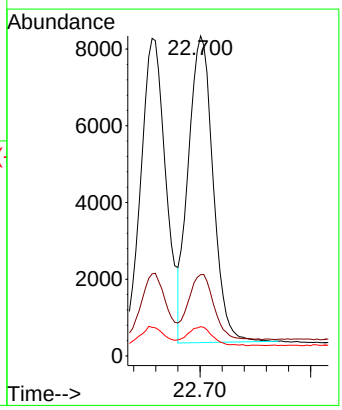


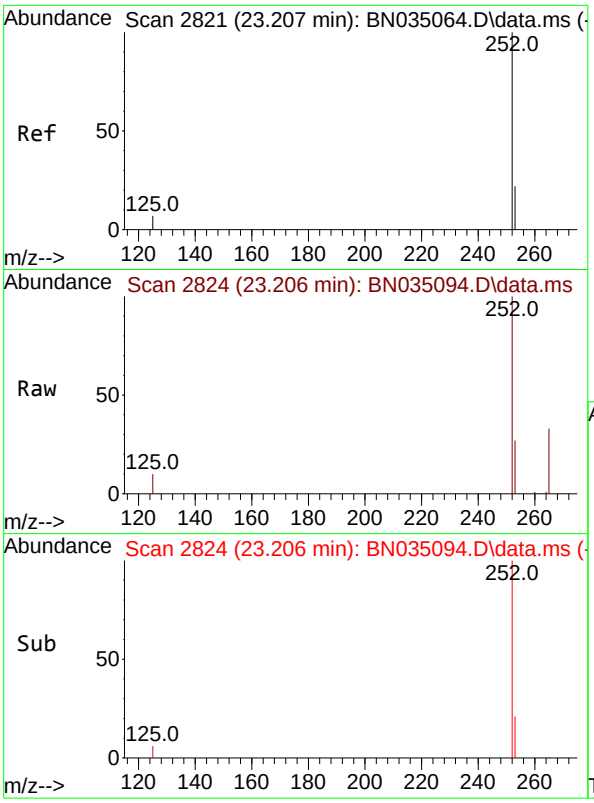


#38
Benzo(k)fluoranthene
Concen: 0.385 ng
RT: 22.700 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:252 Resp: 12410

Ion	Ratio	Lower	Upper
252	100		
253	25.4	19.5	29.3
125	9.2	6.5	9.7



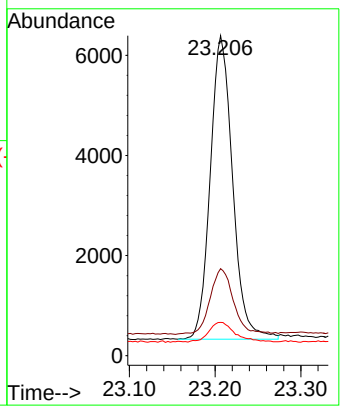


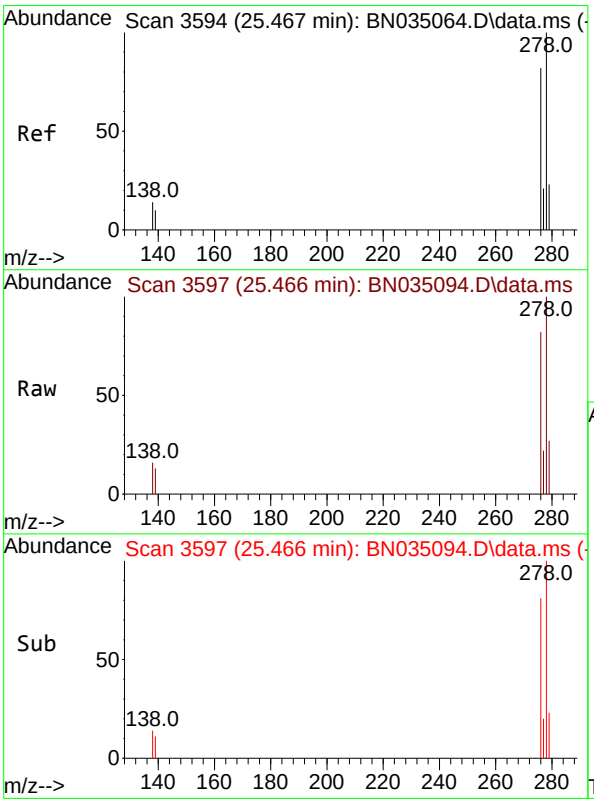
#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 23.206 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:252 Resp: 11017

Ion	Ratio	Lower	Upper
252	100		
253	27.2	20.1	30.1
125	10.4	7.5	11.3

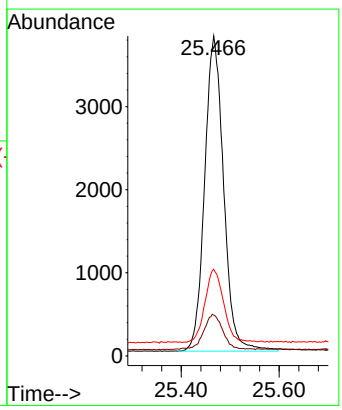


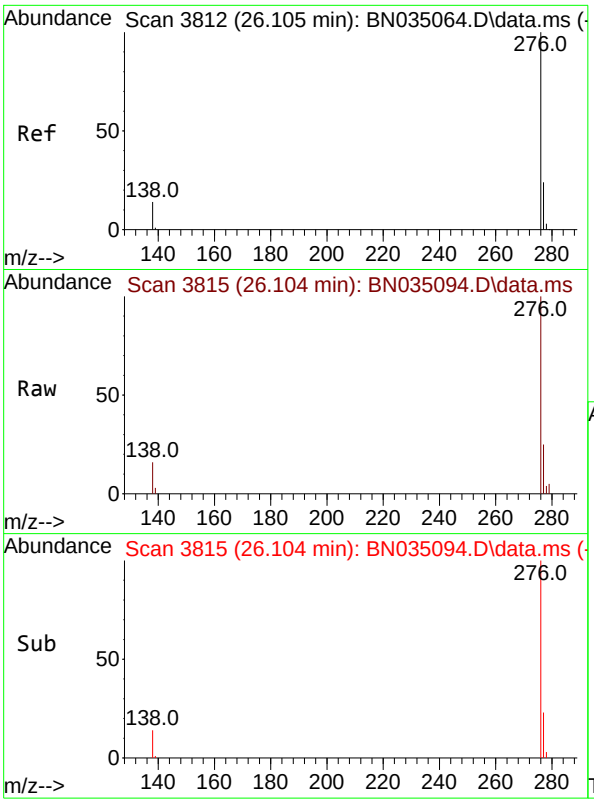


#40
Dibenzo(a,h)anthracene
Concen: 0.336 ng
RT: 25.466 min Scan# 3597
Delta R.T. -0.001 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Tgt Ion:278 Resp: 10170

Ion	Ratio	Lower	Upper
278	100		
139	12.8	9.3	13.9
279	27.1	19.7	29.5



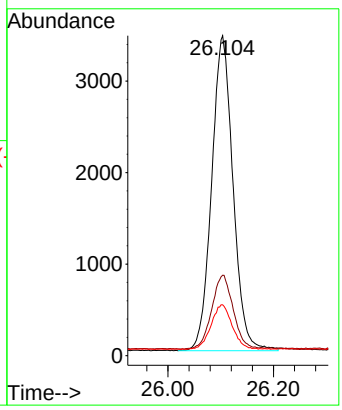


#41
Benzo(g,h,i)perylene
Concen: 0.300 ng
RT: 26.104 min Scan# 3
Delta R.T. -0.001 min
Lab File: BN035094.D
Acq: 14 Nov 2024 18:59

Instrument :
BNA_N
ClientSampleId :
PB164402BS

Tgt Ion:276 Resp: 9675

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	15.9	11.6	17.4



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

Manual Integration Report

Sequence:	BN111324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC1.6	BN035066.D	Benzo(b)fluoranthene	yogesh	11/14/2024 3:07:07 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software
SSTDICC3.2	BN035067.D	Benzo(b)fluoranthene	yogesh	11/14/2024 3:07:16 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software
SSTDICV0.4	BN035069.D	4,6-Dinitro-2-methylphenol	yogesh	11/14/2024 3:07:24 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN111424	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 # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM		
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM		
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035061.D	13 Nov 2024 12:01	RC/JU	Ok
2	SSTDICC0.1	BN035062.D	13 Nov 2024 12:40	RC/JU	Ok
3	SSTDICC0.2	BN035063.D	13 Nov 2024 13:16	RC/JU	Ok
4	SSTDICCC0.4	BN035064.D	13 Nov 2024 13:52	RC/JU	Ok
5	SSTDICC0.8	BN035065.D	13 Nov 2024 14:28	RC/JU	Ok
6	SSTDICC1.6	BN035066.D	13 Nov 2024 15:04	RC/JU	Ok,M
7	SSTDICC3.2	BN035067.D	13 Nov 2024 15:39	RC/JU	Ok,M
8	SSTDICC5.0	BN035068.D	13 Nov 2024 16:15	RC/JU	Ok
9	SSTDICV0.4	BN035069.D	13 Nov 2024 16:51	RC/JU	Ok,M
10	PB164785BL	BN035070.D	13 Nov 2024 17:27	RC/JU	Ok
11	PB164785BS	BN035071.D	13 Nov 2024 18:03	RC/JU	Ok
12	PB164785BSD	BN035072.D	13 Nov 2024 18:38	RC/JU	Ok
13	P4765-02	BN035073.D	13 Nov 2024 19:14	RC/JU	Ok
14	P4765-06	BN035074.D	13 Nov 2024 19:50	RC/JU	Ok
15	P4767-02	BN035075.D	13 Nov 2024 20:26	RC/JU	Ok,M
16	P4773-01	BN035076.D	13 Nov 2024 21:01	RC/JU	Dilution
17	P4773-02	BN035077.D	13 Nov 2024 21:37	RC/JU	Ok
18	P4774-06	BN035078.D	13 Nov 2024 22:13	RC/JU	Ok
19	P4774-02	BN035079.D	13 Nov 2024 22:49	RC/JU	ReRun
20	SSTDCCC0.4	BN035080.D	13 Nov 2024 23:24	RC/JU	Ok

M : Manual Integration

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 # BN111424

Review By	yogesh	Review On	11/15/2024 5:16:11 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:46 AM		
SubDirectory	BN111424	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035081.D	14 Nov 2024 08:53	RC/JU	Ok
2	SSTDCCC0.4	BN035082.D	14 Nov 2024 10:12	RC/JU	Ok
3	PB164402BL	BN035083.D	14 Nov 2024 10:48	RC/JU	Ok
4	P4495-11	BN035084.D	14 Nov 2024 11:24	RC/JU	Dilution
5	P4495-11DL	BN035085.D	14 Nov 2024 12:31	RC/JU	Ok
6	P4495-13	BN035086.D	14 Nov 2024 13:22	RC/JU	Dilution
7	P4495-13DL	BN035087.D	14 Nov 2024 14:10	RC/JU	Ok
8	P3845-21	BN035088.D	14 Nov 2024 14:59	RC/JU	Dilution
9	P3845-21DL	BN035089.D	14 Nov 2024 15:58	RC/JU	Ok,M
10	P4774-02RE	BN035090.D	14 Nov 2024 16:35	RC/JU	Confirms
11	P4773-04	BN035091.D	14 Nov 2024 17:11	RC/JU	Ok
12	P4773-03	BN035092.D	14 Nov 2024 17:47	RC/JU	Ok
13	P4773-01DL	BN035093.D	14 Nov 2024 18:23	RC/JU	Ok
14	PB164402BS	BN035094.D	14 Nov 2024 18:59	RC/JU	Ok
15	SSTDCCC0.4	BN035095.D	14 Nov 2024 19:35	RC/JU	Ok

M : Manual Integration

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 # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM	
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM	
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035061.D	13 Nov 2024 12:01		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035062.D	13 Nov 2024 12:40		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN035063.D	13 Nov 2024 13:16		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN035064.D	13 Nov 2024 13:52		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN035065.D	13 Nov 2024 14:28		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035066.D	13 Nov 2024 15:04		RC/JU	Ok,M
7	SSTDICC3.2	SSTDICC3.2	BN035067.D	13 Nov 2024 15:39		RC/JU	Ok,M
8	SSTDICC5.0	SSTDICC5.0	BN035068.D	13 Nov 2024 16:15		RC/JU	Ok
9	SSTDICV0.4	ICVBN111324	BN035069.D	13 Nov 2024 16:51		RC/JU	Ok,M
10	PB164785BL	PB164785BL	BN035070.D	13 Nov 2024 17:27		RC/JU	Ok
11	PB164785BS	PB164785BS	BN035071.D	13 Nov 2024 18:03		RC/JU	Ok
12	PB164785BSD	PB164785BSD	BN035072.D	13 Nov 2024 18:38		RC/JU	Ok
13	P4765-02	DSN002	BN035073.D	13 Nov 2024 19:14		RC/JU	Ok
14	P4765-06	DSN003	BN035074.D	13 Nov 2024 19:50		RC/JU	Ok
15	P4767-02	TOWER-2	BN035075.D	13 Nov 2024 20:26		RC/JU	Ok,M
16	P4773-01	RW7-SP100-20241107	BN035076.D	13 Nov 2024 21:01	Need 2X Dilution	RC/JU	Dilution
17	P4773-02	RW7-SP201-20241107	BN035077.D	13 Nov 2024 21:37		RC/JU	Ok
18	P4774-06	BP-VPB-190-GW-638-6	BN035078.D	13 Nov 2024 22:13		RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM	
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM	
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4774-02	VPB190-HYD-2024110	BN035079.D	13 Nov 2024 22:49	Surrogate Fail	RC/JU	ReRun
20	SSTDCCC0.4	SSTDCCC0.4EC	BN035080.D	13 Nov 2024 23:24		RC/JU	Ok

M : Manual Integration

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 # BN111424

Review By	yogesh	Review On	11/15/2024 5:16:11 AM	
Supervise By	mohammad	Supervise On	11/15/2024 5:49:46 AM	
SubDirectory	BN111424	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035081.D	14 Nov 2024 08:53		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035082.D	14 Nov 2024 10:12		RC/JU	Ok
3	PB164402BL	PB164402BL	BN035083.D	14 Nov 2024 10:48		RC/JU	Ok
4	P4495-11	PT-BNA-SOIL	BN035084.D	14 Nov 2024 11:24	PT Sample, Need 50X Dilution	RC/JU	Dilution
5	P4495-11DL	PT-BNA-SOILDL	BN035085.D	14 Nov 2024 12:31		RC/JU	Ok
6	P4495-13	PT-PAH-SOIL	BN035086.D	14 Nov 2024 13:22	PT Sample, Need 5X Dilution	RC/JU	Dilution
7	P4495-13DL	PT-PAH-SOILDL	BN035087.D	14 Nov 2024 14:10		RC/JU	Ok
8	P3845-21	RR-PAH-WP	BN035088.D	14 Nov 2024 14:59	PT Sample Analyzed for confirmation, Need 10X Dilution	RC/JU	Dilution
9	P3845-21DL	RR-PAH-WPDL	BN035089.D	14 Nov 2024 15:58	PT Sample Analyzed for confirmation	RC/JU	Ok,M
10	P4774-02RE	VPB190-HYD-2024110	BN035090.D	14 Nov 2024 16:35	Surrogate Fail	RC/JU	Confirms
11	P4773-04	RW7-SP303-20241107	BN035091.D	14 Nov 2024 17:11		RC/JU	Ok
12	P4773-03	RW7-SP302-20241107	BN035092.D	14 Nov 2024 17:47		RC/JU	Ok
13	P4773-01DL	RW7-SP100-20241107	BN035093.D	14 Nov 2024 18:23		RC/JU	Ok
14	PB164402BS	PB164402BS	BN035094.D	14 Nov 2024 18:59		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4EC	BN035095.D	14 Nov 2024 19:35		RC/JU	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4488-09	HCC-1	1	1.00	1.00	2.00	2.00	100.0	oil sample
P4488-10	HCC-2	2	1.00	1.00	2.00	2.00	100.0	oil sample
P4495-01	PT-AN-SOIL	3	1.00	1.00	2.00	2.00	100.0	
P4495-02	PT-CORR-SOIL	4	1.00	1.00	2.00	2.00	100.0	
P4495-03	PT-CN-SOIL	5	1.00	1.00	2.00	2.00	100.0	
P4495-04	PT-CN-SOIL	6	1.00	1.00	2.00	2.00	100.0	
P4495-05	PT-FP-SOIL	7	1.00	1.00	2.00	2.00	100.0	
P4495-06	PT-CR6-SOIL	8	1.00	1.00	2.00	2.00	100.0	
P4495-07	PT-NUT-SOIL	9	1.00	1.00	2.00	2.00	100.0	
P4495-08	PT-NUT-SOIL	10	1.00	1.00	2.00	2.00	100.0	
P4495-09	PT-OGR-SOIL	11	1.00	1.00	2.00	2.00	100.0	
P4495-10	PT-MET-SOIL	12	1.00	1.00	2.00	2.00	100.0	
P4495-11	PT-BNA-SOIL	13	1.00	1.00	2.00	2.00	100.0	
P4495-12	PT-TRIAZINE-SOIL	14	1.00	1.00	2.00	2.00	100.0	
P4495-13	PT-PAH-SOIL	15	1.00	1.00	2.00	2.00	100.0	
P4495-14	PT-DIES-SOIL	16	1.00	1.00	2.00	2.00	100.0	
P4495-15	PT-GAS-SOIL	17	1.00	1.00	2.00	2.00	100.0	
P4495-16	PT-NJEPH-SOIL	18	1.00	1.00	2.00	2.00	100.0	
P4495-17	PT-HERB-SOIL	19	1.00	1.00	2.00	2.00	100.0	
P4495-18	PT-PCB-SOIL	20	1.00	1.00	2.00	2.00	100.0	
P4495-19	PT-PCBO-SOIL	21	1.00	1.00	2.00	2.00	100.0	
P4495-20	PT-PEST-SOIL	22	1.00	1.00	2.00	2.00	100.0	
P4495-21	PT-CHLR-SOIL	23	1.00	1.00	2.00	2.00	100.0	
P4495-22	PT-TXP-SOIL	24	1.00	1.00	2.00	2.00	100.0	
P4495-23	PT-VOA-SOIL	25	1.00	1.00	2.00	2.00	100.0	
P4495-24	PT-SOL-SOIL	26	0.92	8.80	9.72	7.58	75.7	
P4495-25	PT-NO2-SOIL	27	1.00	1.00	2.00	2.00	100.0	
P4508-01	TP-3	28	1.14	8.38	9.52	8.64	89.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4508-02	TP-3-EPH	29	1.15	8.81	9.96	9.22	91.6	
P4508-03	TP-3-VOC	30	1.15	8.66	9.81	8.88	89.3	
P4508-05	BP-F23	31	1.15	8.82	9.97	9.22	91.5	
P4508-06	BP-F23-EPH	32	1.14	8.83	9.97	9.29	92.3	
P4508-07	BP-F23-VOC	33	1.15	8.40	9.55	8.61	88.8	
P4508-09	BP-F22	34	1.18	8.78	9.96	9.15	90.8	
P4508-10	BP-F22-EPH	35	1.15	8.70	9.85	8.98	90.0	
P4508-11	BP-F22-VOC	36	1.16	8.60	9.76	8.68	87.4	
P4509-02	AU-06-10232024	37	1.12	8.82	9.94	9.44	94.3	
P4510-01	FDH119M-1-1	38	1.00	1.00	2.00	2.00	100.0	pilc
P4510-02	FDH119M-1-2	39	1.00	1.00	2.00	2.00	100.0	pilc
P4510-03	BC271327-1-1	40	1.00	1.00	2.00	2.00	100.0	pilc
P4510-04	BC271327-1-2	41	1.00	1.00	2.00	2.00	100.0	pilc
P4510-05	BC271327-2-1	42	1.00	1.00	2.00	2.00	100.0	pilc
P4510-06	BC271327-2-2	43	1.00	1.00	2.00	2.00	100.0	pilc
P4510-07	FDA886K-1-1	44	1.00	1.00	2.00	2.00	100.0	pilc
P4510-08	FDA886K-1-2	45	1.00	1.00	2.00	2.00	100.0	pilc
P4510-09	FDA886K-2-1	46	1.00	1.00	2.00	2.00	100.0	pilc
P4510-10	FDA886K-2-2	47	1.00	1.00	2.00	2.00	100.0	pilc
P4510-11	HID111K-1-1	48	1.00	1.00	2.00	2.00	100.0	pilc
P4510-12	HID111K-1-2	49	1.00	1.00	2.00	2.00	100.0	pilc
P4510-13	HID111K-2-1	50	1.00	1.00	2.00	2.00	100.0	pilc
P4510-14	HID111K-2-2	51	1.00	1.00	2.00	2.00	100.0	pilc
P4510-15	HID111K-3-1	52	1.00	1.00	2.00	2.00	100.0	pilc
P4510-16	HID111K-3-2	53	1.00	1.00	2.00	2.00	100.0	pilc
P4510-17	FDA563W-1-1	54	1.00	1.00	2.00	2.00	100.0	pilc
P4510-18	FDA563W-1-2	55	1.00	1.00	2.00	2.00	100.0	pilc
P4510-19	FDA563W-2-1	56	1.00	1.00	2.00	2.00	100.0	pilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4510-20	FDA563W-2-2	57	1.00	1.00	2.00	2.00	100.0	oilc
P4510-21	JEC128C-1-1	58	1.00	1.00	2.00	2.00	100.0	oilc
P4510-22	JEC128C-1-2	59	1.00	1.00	2.00	2.00	100.0	oilc
P4510-23	JEC128C-2-1	60	1.00	1.00	2.00	2.00	100.0	oilc
P4510-24	JEC128C-2-2	61	1.00	1.00	2.00	2.00	100.0	oilc
P4511-02	267	62	1.00	1.00	2.00	2.00	100.0	debris
P4512-03	VNJ-212	63	1.15	8.81	9.96	9.66	96.6	
P4512-04	VNJ-212-E2	64	1.16	8.48	9.64	9.39	97.1	
P4513-01	D3683	65	1.00	1.00	2.00	2.00	100.0	oil sample
P4513-02	D3694	66	1.00	1.00	2.00	2.00	100.0	debris
P4513-03	D3695	67	1.00	1.00	2.00	2.00	100.0	debris
P4514-01	BC274653-1-1	68	1.00	1.00	2.00	2.00	100.0	oilc
P4514-02	BC274653-1-2	69	1.00	1.00	2.00	2.00	100.0	oilc
P4514-03	BC274767-1-1	70	1.00	1.00	2.00	2.00	100.0	oilc
P4514-04	BC274767-1-2	71	1.00	1.00	2.00	2.00	100.0	oilc
P4514-05	BC274767-2-1	72	1.00	1.00	2.00	2.00	100.0	oilc
P4514-06	BC274767-2-2	73	1.00	1.00	2.00	2.00	100.0	oilc
P4515-01	CHVB0783	74	1.15	8.83	9.98	5.28	46.8	
P4516-01	72-11986	75	1.12	8.67	9.79	8.93	90.1	
P4517-01	NASSAU-ST-CO	76	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-03	S.JEFFERSON-CO-1	77	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-05	S.JEFFERSON-CO-2	78	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-07	FOREST-ST-CO	79	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

MB133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4488-09	HCC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4488-10	HCC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4495-01	PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-02	PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-03	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-04	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-05	PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-06	PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-07	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-08	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-09	PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-10	PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-11	PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-12	PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-13	PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-14	PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-15	PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-16	PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-17	PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-18	PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-19	PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: JB (WC)

Raw Sample Relinquished by: [signature]

Date/Time 10/23/24 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JB (WC)

WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-20	PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-21	PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-22	PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-23	PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-24	PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-25	PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4508-01	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-02	TP-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-03	TP-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-05	BP-F23	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-06	BP-F23-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-07	BP-F23-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-09	BP-F22	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-10	BP-F22-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-11	BP-F22-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4509-02	AU-06-10232024	Solid	Percent Solids	Cool 4 deg C	PSEG05	K61	10/23/2024	Chemtech -SO
P4510-01	FDH119M-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-02	FDH119M-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-03	BC271327-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-04	BC271327-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-05	BC271327-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: JB (WC)

Raw Sample Relinquished by: CP

Date/Time 10/23/24 17:30

Raw Sample Received by: CP

Raw Sample Relinquished by: JB WC

WORKLIST(Hardcopy Internal Chain)

JD 133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4510-06	BC271327-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-07	FDA886K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-08	FDA886K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-09	FDA886K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-10	FDA886K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-11	HID111K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-12	HID111K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-13	HID111K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-14	HID111K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-15	HID111K-3-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-16	HID111K-3-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-17	FDA563W-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-18	FDA563W-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-19	FDA563W-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-20	FDA563W-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-21	JEC128C-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-22	JEC128C-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-23	JEC128C-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-24	JEC128C-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4511-02	267	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4512-03	VNJ-212	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 1610

Raw Sample Received by: JD CWC

Raw Sample Relinquished by: CP

Date/Time 10/23/24 1730

Raw Sample Received by: CP

Raw Sample Relinquished by: JD CWC

WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4512-04	VNJ-212-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-01	D3683	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-02	D3694	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-03	D3695	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4514-01	BC274653-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-02	BC274653-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-03	BC274767-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-04	BC274767-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-05	BC274767-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-06	BC274767-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4515-01	CHVB0783	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4516-01	72-11986	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4517-01	NASSAU-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-03	S.JEFFERSON-CO-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-05	S.JEFFERSON-CO-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-07	FOREST-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 10/23/24 1730

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164402

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/25/2024
Matrix :	Solid			**Extraction Start Time :**	09:50
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/25/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:50
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**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
Surrogate	1.0ML	0.4 PPM	SP6636
Spike Sol 1	1.0ML	0.4 PPM	SP6606
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
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:

1.5ML Vial Lot # 2210673. P4495-11 ,Use from P164401.

KD Bath ID:	N/A	**Envap ID:**	NE VAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/25/24	RP (Ext · Lab)	RC/Lab
12:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

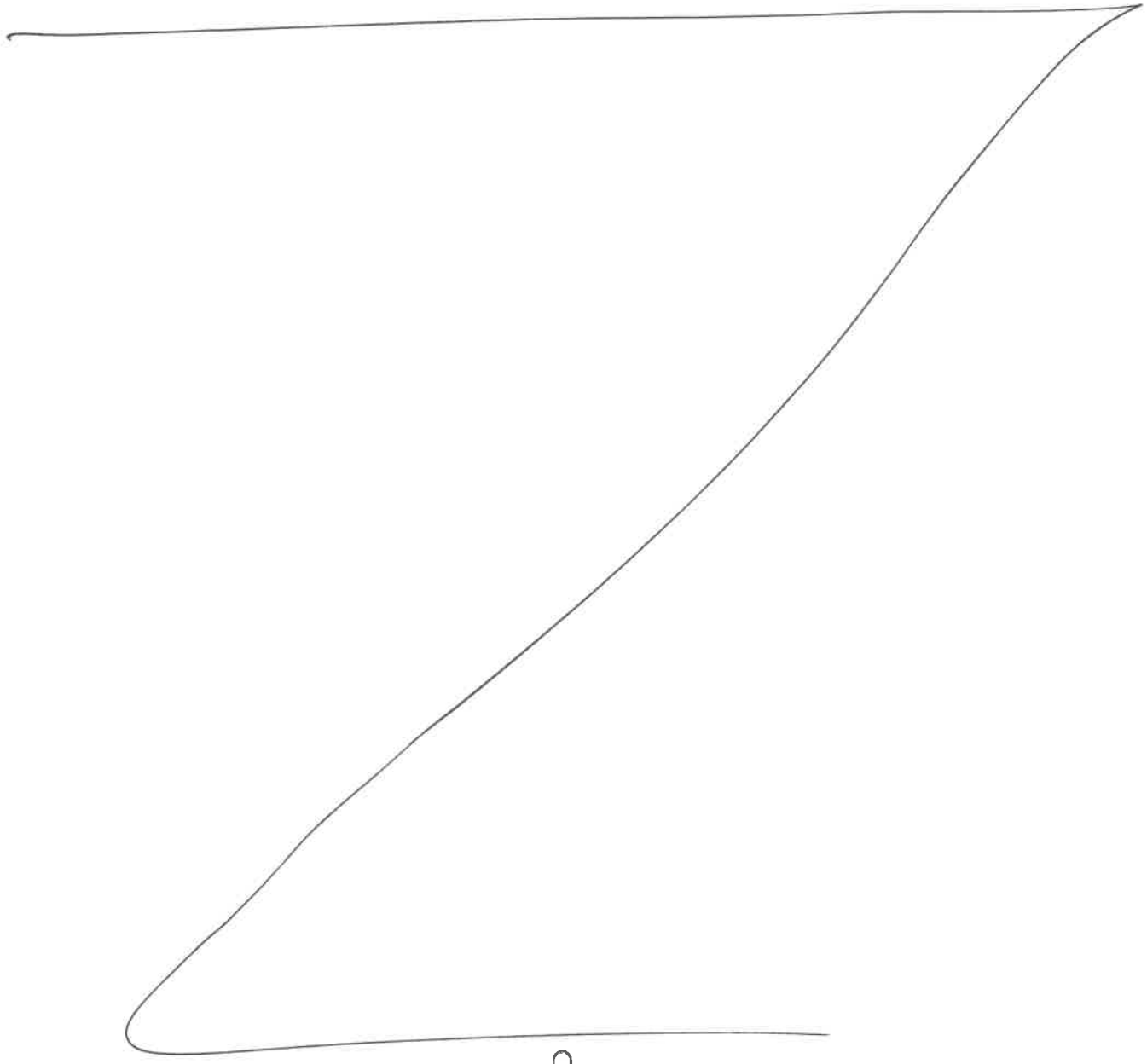
EXTRACTION LOGPAGE

PrepBatch ID : PB164402

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/25/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164402BL	SBLK402	SVOCMS Group2	30.02	N/A	RUPESH	ritesh	1			U5-1
PB164402BS	SLCS402	SVOCMS Group2	30.03	N/A	RUPESH	ritesh	1			2
P4495-11	PT-BNA-SOIL	SVOCMS Group2	30.07	N/A	RUPESH	ritesh	1			3
P4495-13	PT-PAH-SOIL	SVOCMS Group3	30.00	N/A	RUPESH	ritesh	1			4



* **Extracts relinquished on the same date as received.**

10/25/24

9:15
MO 1041402

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4495M **WorkList ID :** 184771 **Department :** Extraction **Date :** 10-25-2024 09:18:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-11	PT-BNA-SOIL	Solid	SVOCMS Group2	Cool 4 deg C	CHEM02	QA Of	10/21/2024	8270-Modified
P4495-13	PT-PAH-SOIL	Solid	SVOCMS Group3	Cool 4 deg C	CHEM02	QA Of	10/21/2024	8270-Modified

Date/Time 10/25/24 9:45
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: CP

Date/Time 10/25/24 10:10
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (Ext Lab)

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

Prep Standard - Chemical Standard Summary

Order ID : P4495

Test : SVOCMS Group3

Prepbatch ID : PB164402,

Sequence ID/Qc Batch ID: BN111424,BN111424,

Standard ID :
EP2538,EP2551,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6636,

Chemical ID :
E2865,E3551,E3746,E3759,E3768,E3786,E3788,E3793,E3794,E3822,S10103,S10247,S10782,S10977,S 11003,S11011,S11097,S11494,S11566,S11766,S11771,S12029,S12077,S12096,S12105,S12112,S12113,S12117,S12126,S12453,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024

FROM 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2551	10/18/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/18/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel 07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

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

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)	SP6596	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.02500ml of S12113 + 0.03350ml of S10103 + 0.05000ml of S11494 + 0.10000ml of S12112 + 0.12500ml of S10782 + 0.25000ml of S11097 + 0.25000ml of S12077 + 24.16650ml of E3786 = 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	SP6597	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6596 = Final Quantity: 1.010 ml

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Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6598	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.68000ml of E3786 + 0.01000ml of SP6527 + 0.32000ml of SP6596 = 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	SP6599	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.84000ml of E3786 + 0.01000ml of SP6527 + 0.16000ml of SP6596 = Final Quantity: 1.010 ml

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Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6600	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.92000ml of E3786 + 0.01000ml of SP6527 + 0.08000ml of SP6596 = 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	SP6601	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.96000ml of E3786 + 0.01000ml of SP6527 + 0.04000ml of SP6596 = Final Quantity: 1.010 ml

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Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6602	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6601 = 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	SP6603	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.75000ml of E3786 + 0.01000ml of SP6527 + 0.25000ml of SP6601 = 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	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6636	10/04/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024

FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3788 = Final Quantity: 100.000 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 #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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	01/03/2025	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 #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

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)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

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)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

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)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

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)	24G2362009	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

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)	24I2662006	04/23/2025	10/24/2024 / Rajesh	10/24/2024 / Rajesh	E3822

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	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

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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	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

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	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

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	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

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]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

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	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

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	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

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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]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

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	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

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	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

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	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

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	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

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]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

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	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

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	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

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	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

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	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

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	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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(800)878-7654 Toll Free
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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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Received on 02/07/23 by CG

~~S11088~~ S11096 to S11099

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	495831	≤ -10 °C	Methylene Chloride	10/30/2027	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	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*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: Briana Smith

Briana Smith
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.:** 495831 **Expiration Date:** 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
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

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/18/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

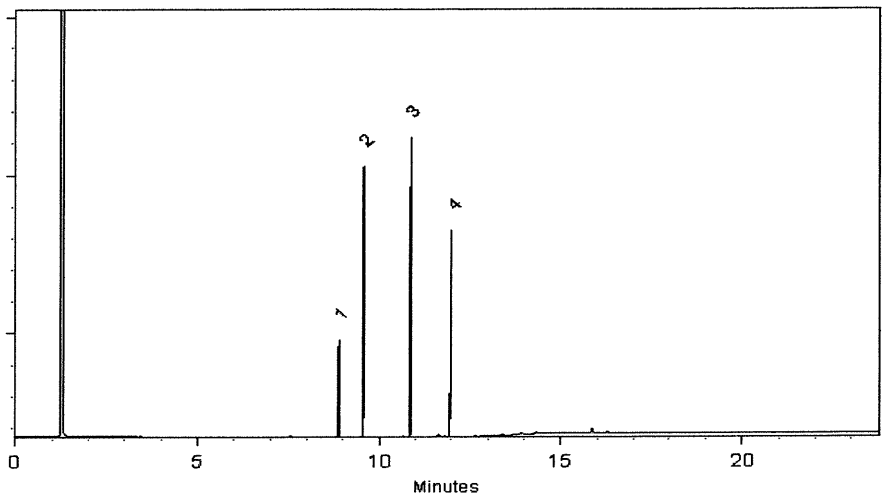
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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 09/07/22 by CG

S10778 to S10782

Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene-d10	2,015.0 µg/mL	+/- 11.8254 µg/mL	Gravimetric
	CAS # 7297-45-2 (Lot EF-135)		+/- 90.7728 µg/mL	Unstressed
	Purity 96%		+/- 100.7207 µg/mL	Stressed
2	Fluoranthene-d10	2,007.0 µg/mL	+/- 11.7782 µg/mL	Gravimetric
	CAS # 93951-69-0 (Lot PR-20668)		+/- 90.4107 µg/mL	Unstressed
	Purity 99%		+/- 100.3188 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

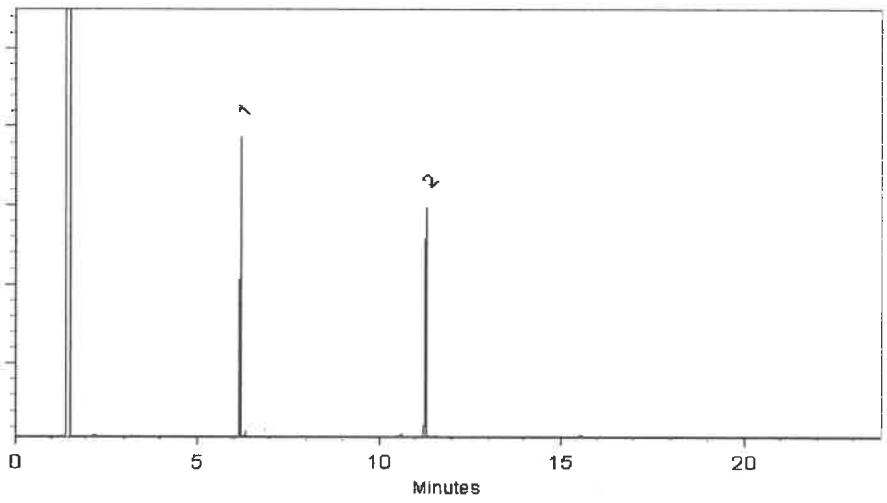
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022 **Balance:** B442140311

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 13-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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 by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

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 : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

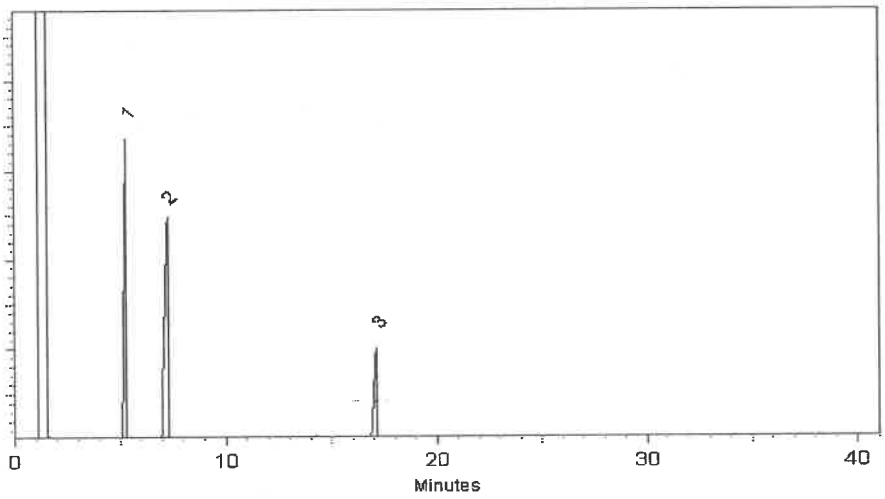
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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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 by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

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.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

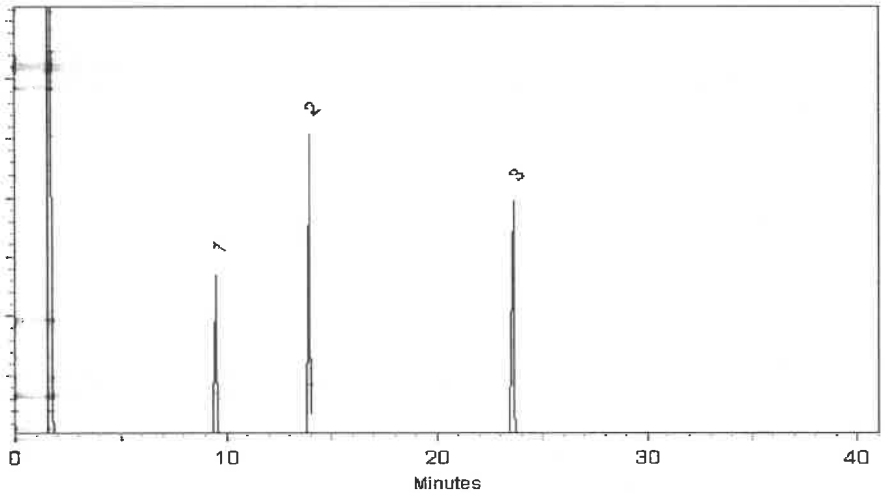
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



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.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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.

Received on 01/13/23 by CG S11011 to S11015

Catalog No. : 555872 **Lot No.:** A0193449

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 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	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I **Date Mixed:** 11-Jan-2023 **Balance:** B442140311

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.

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T 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

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.

Recd. by RB on 7/24/23 E3551

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
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	0.1 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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

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

PO: PO1-9448 PRODUCT CODE: SHIP DATE: 7/16/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Material No.: 9266-A4
Batch No.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
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	0.1 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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D15750

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.5	0.1
Water (H_2O)	≤ 0.5 %	0.1 %
Solubility in H_2O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities - Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities - Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities - Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24I2662006
Manufactured Date: 2024-08-29
Expiration Date:2025-11-28
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	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 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 3822

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

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

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 : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

511539
↓
511568
Y.P. 091191

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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

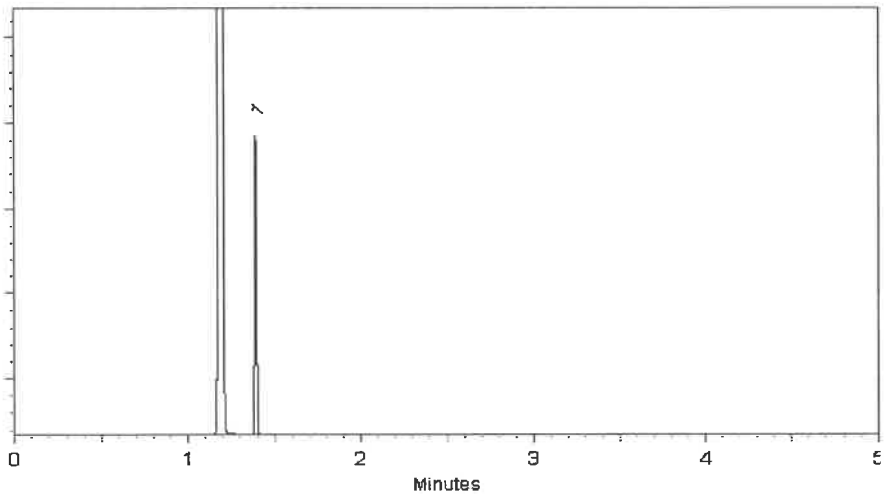
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

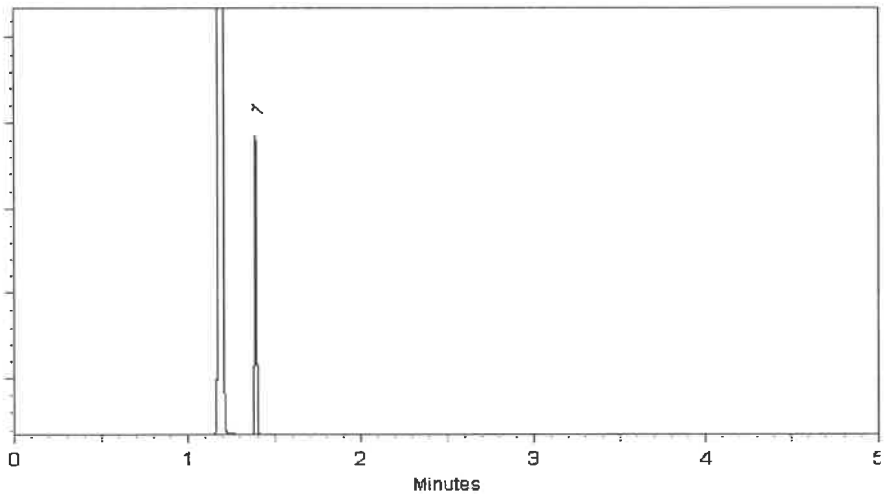
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0201320

S12013 ↓ S12042 RC 12/26/23

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 : July 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%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* 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.)

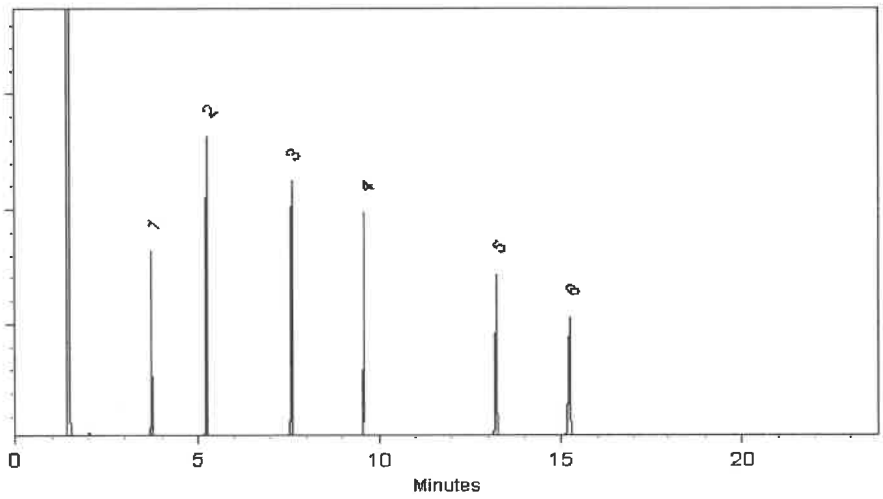
Inj. Temp:
250°C

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.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

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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

S12075
↓
S12079
RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Certificate of Analysis

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

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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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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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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

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

S12117 ↓ S12146 RC/ 03/18/24

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%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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

S12117 ↓ S12146 RC/ 03/18/24

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%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.

SHIPPING DOCUMENTS

phenova® | A Phenomenex® Company
Certified Reference Materials

Packing List

Date	Order #
10/21/2024	318989

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Received : SJ
10/23/24
9:47

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240903-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW1024	7098-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium ✓	HW1024	7098-05D
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW1024	7098-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH ✓	HW1024	7098-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW1024	7098-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions ✓	HW1024	7098-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients ✓	HW1024	7098-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW1024	7098-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW1024	7098-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW1024	7098-96
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW1024	7098-100
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease ✓	HW1024	7098-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW1024	7098-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW1024	7098-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW1024	7098-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW1024	7098-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW1024	7098-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW1024	7098-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW1024	7098-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW1024	7098-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW1024	7098-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW1024	7098-106

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
10/21/2024	318989

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

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10/23/24
9:47

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240903-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL ✓✓	HW1024	7098-105

CHEMTECH 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