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

SEMI-VOLATILE ORGANICS

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

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : P5376

ATTENTION : Eleanor Vivadou

Laboratory Certification ID # 20012

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Cover Page

Order ID : P5376

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

Client : AECOM Technical Services, Inc.

Lab Sample Number	Client Sample Number
P5376-01	TT205S1-20241218
P5376-02	TT150S1-20241218
P5376-03	RE115D2-20241218
P5376-04	TT149S1-20241218
P5376-05	DUP-07-20241218
P5376-06	TT174I1-20241218
P5376-07	RW10-MW01S-20241218
P5376-08	RW10-MW01S-20241218MS
P5376-09	RW10-MW01S-20241218MSD
P5376-10	RW10-MW01D-20241218
P5376-11	RW10A-MW01S-20241218
P5376-12	RW10A-MW01I-20241218
P5376-13	RE117D2-20241218
P5376-14	TT161S1-20241219
P5376-15	TT162S1-20241219
P5376-16	RW11-MW01S-20241219
P5376-17	RW11-MW01I-20241219
P5376-18	TT119S1-20241219
P5376-19	TT188S1-20241219
P5376-20	FB03-20241219
P5376-21	TB

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: 12/31/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

AECOM Technical Services, Inc.
Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Project # N/A
Chemtech Project # P5376
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
21 Water samples were received on 12/20/2024.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
TT205S1-20241218 [Terphenyl-d14 - 148%],
TT150S1-20241218 [Terphenyl-d14 - 134%],
RE115D2-20241218DL [Nitrobenzene-d5 - 131%, Terphenyl-d14 - 164%],
TT149S1-20241218 [Terphenyl-d14 - 138%],
DUP-07-20241218 [Terphenyl-d14 - 144%],
TT174I1-20241218 [Terphenyl-d14 - 143%],
RW10-MW01S-20241218 [Terphenyl-d14 - 137%],
RW10A-MW01I-20241218 [Terphenyl-d14 - 134%],
RE117D2-20241218 [Terphenyl-d14 - 141%],
TT161S1-20241219 [Terphenyl-d14 - 140%],
TT162S1-20241219 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%],
TT119S1-20241219 [Terphenyl-d14 - 133%],
TT188S1-20241219 [Terphenyl-d14 - 142%],
FB03-20241219 [Terphenyl-d14 - 143%], and
PB165828BS [Nitrobenzene-d5 - 122%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

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The MS {P5376-08MS} with File ID: BN035821.D recoveries met the requirements for all compounds except for 1,4-Dioxane[53%], Due to poor compound the recovery no corrective action is required.

The MSD {P5376-09MSD} with File ID: BN035822.D recoveries met the acceptable requirements except for 1,4-Dioxane[51%], Due to poor compound the recovery no corrective action is required.

The RPD met criteria .
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 BN035811.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035830.D met the requirements except for 1,4-Dioxane,2,4,6-Tribromophenol,Nitrobenzene-d5 and Phenol-d6, The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

Sample RE115D2-20241218 was diluted due to high concentration.

E. Additional Comments:
The sample # S32-0576MRW10-MW01S-20241218MS and RW10-MW01S-20241218MSD is failing for cis-1,2-Dichloroethene and the original sample(RW10-MW01S-20241218) is reported with M flag for this compounds.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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.

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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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908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: P5376 MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.		✓	

The Initial Calibration met the requirements .
The Continuous Calibration File ID BN035811.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035830.D met the requirements except for 1,4-Dioxane,2,4,6-Tribromophenol,Nitrobenzene-d5 and Phenol-d6, The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	

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

(CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for
TT205S1-20241218 [Terphenyl-d14 - 148%],
TT150S1-20241218 [Terphenyl-d14 - 134%],
RE115D2-20241218DL [Nitrobenzene-d5 - 131%, Terphenyl-d14 - 164%],
TT149S1-20241218 [Terphenyl-d14 - 138%],
DUP-07-20241218 [Terphenyl-d14 - 144%],
TT174I1-20241218 [Terphenyl-d14 - 143%],
RW10-MW01S-20241218 [Terphenyl-d14 - 137%],
RW10A-MW01I-20241218 [Terphenyl-d14 - 134%],
RE117D2-20241218 [Terphenyl-d14 - 141%],
TT161S1-20241219 [Terphenyl-d14 - 140%],
TT162S1-20241219 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%],
TT119S1-20241219 [Terphenyl-d14 - 133%],
TT188S1-20241219 [Terphenyl-d14 - 142%],
FB03-20241219 [Terphenyl-d14 - 143%], and
PB165828BS [Nitrobenzene-d5 - 122%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The MS {P5376-08MS} with File ID: BN035821.D recoveries met the requirements for all compounds except for 1,4-Dioxane[53%], Due to poor compound the recovery no corrective action is required.
The MSD {P5376-09MSD} with File ID: BN035822.D recoveries met the acceptable requirements except for 1,4-Dioxane[51%], Due to poor compound the recovery no corrective action is required.
The Blank Spike met requirements for all samples .

9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓

Comments:

10.	Extraction Holding Time Met			✓

If not met, list number of days exceeded for each sample:

11.	Analysis Holding Time Met			✓

If not met, list number of days exceeded for each sample:

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

NA NO YES

ADDITIONAL COMMENTS:

The sample # S32-0576MRW10-MW01S-20241218MS and RW10-MW01S-20241218MSD is failing for cis-1,2-Dichloroethene and the original sample(RW10-MW01S-20241218) is reported with M flag for this compounds.

Sample RE115D2-20241218 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.

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5376

	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:** 12/31/2024

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LAB CHRONICLE

OrderID:	P5376	**OrderDate:**	12/20/2024 3:08:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	N23,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5376-01	**TT205S1-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/26/24	
P5376-02	**TT150S1-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-03	**RE115D2-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-03DL	**RE115D2-20241218DL**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/26/24	
P5376-04	**TT149S1-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-05	**DUP-07-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-06	**TT174I1-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-07	**RW10-MW01S-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-10	**RW10-MW01D-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-11	**RW10A-MW01S-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	

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LAB CHRONICLE

P5376-12	**RW10A-MW01I-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-13	**RE117D2-20241218**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-14	**TT161S1-20241219**	**Water**			**12/19/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-15	**TT162S1-20241219**	**Water**			**12/19/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/26/24	
P5376-16	**RW11-MW01S-20241219**	**Water**			**12/19/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-17	**RW11-MW01I-20241219**	**Water**			**12/19/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/24/24	
P5376-18	**TT119S1-20241219**	**Water**			**12/19/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/25/24	
P5376-19	**TT188S1-20241219**	**Water**			**12/19/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/26/24	
P5376-20	**FB03-20241219**	**Water**			**12/19/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/25/24	

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Hit Summary Sheet
SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT205S1-20241218									
P5376-01	TT205S1-20241218	WATER	1,4-Dioxane	0.380		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.38**			
			Total Concentration:			**0.38**			
Client ID : TT150S1-20241218									
P5376-02	TT150S1-20241218	WATER	1,4-Dioxane	0.240		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.24**			
			Total Concentration:			**0.24**			
Client ID : RE115D2-20241218									
P5376-03	RE115D2-20241218	WATER	1,4-Dioxane	7.600	E	0.07	0.21	0.21	ug/L
			Total Svoc :			**7.60**			
			Total Concentration:			**7.60**			
Client ID : RE115D2-20241218DL									
P5376-03DL	RE115D2-20241218DL	WATER	1,4-Dioxane	10.300	D	0.35	1	1	ug/L
			Total Svoc :			**10.30**			
			Total Concentration:			**10.30**			
Client ID : TT149S1-20241218									
P5376-04	TT149S1-20241218	WATER	1,4-Dioxane	0.280		0.07	0.21	0.21	ug/L
			Total Svoc :			**0.28**			
			Total Concentration:			**0.28**			
Client ID : DUP-07-20241218									
P5376-05	DUP-07-20241218	WATER	1,4-Dioxane	0.270		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.27**			
			Total Concentration:			**0.27**			
Client ID : TT174I1-20241218									
P5376-06	TT174I1-20241218	WATER	1,4-Dioxane	0.800		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.80**			
			Total Concentration:			**0.80**			
Client ID : RW10-MW01S-20241218									
P5376-07	RW10-MW01S-2024121	WATER	1,4-Dioxane	0.100	JM	0.07	0.2	0.2	ug/L
			Total Svoc :			**0.10**			
			Total Concentration:			**0.10**			
Client ID : RW10A-MW01S-20241218									
P5376-11	RW10A-MW01S-202412	WATER	1,4-Dioxane	0.150	J	0.07	0.21	0.21	ug/L
			Total Svoc :			**0.15**			

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Hit Summary Sheet
SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:			**0.15**			
Client ID :	**TT161S1-20241219**								
P5376-14	TT161S1-20241219	WATER	1,4-Dioxane	0.330		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.33**			
			Total Concentration:			**0.33**			
Client ID :	**TT162S1-20241219**								
P5376-15	TT162S1-20241219	WATER	1,4-Dioxane	0.340		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.34**			
			Total Concentration:			**0.34**			
Client ID :	**RW11-MW01S-20241219**								
P5376-16	RW11-MW01S-2024121$	WATER	1,4-Dioxane	0.160	J	0.07	0.2	0.2	ug/L
			Total Svoc :			**0.16**			
			Total Concentration:			**0.16**			
Client ID :	**TT188S1-20241219**								
P5376-19	TT188S1-20241219	WATER	1,4-Dioxane	0.170	J	0.07	0.2	0.2	ug/L
			Total Svoc :			**0.17**			
			Total Concentration:			**0.17**			

QC SUMMARY

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Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P5376-01	TT205S1-20241218	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.43	108		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.59	148	*	58	132
P5376-02	TT150S1-20241218	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.41	101		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
P5376-03	RE115D2-20241218	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
P5376-03DL	RE115D2-20241218DL	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.48	120		30	150
		Nitrobenzene-d5	0.4	0.53	131	*	55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.66	164	*	58	132
P5376-04	TT149S1-20241218	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
P5376-05	DUP-07-20241218	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.58	144	*	58	132
P5376-06	TT174I1-20241218	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.44	109		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
P5376-07	RW10-MW01S-20241218	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.43	107		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.55	137	*	58	132
P5376-08MS	RW10-MW01S-20241218MS	2-Methylnaphthalene-d10	0.4	0.43	107		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.42	106		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
P5376-09MSD	RW10-MW01S-20241218MSD	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
P5376-10	RW10-MW01D-20241218	2-Methylnaphthalene-d10	0.4	0.34	84		30	150

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Surrogate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
P5376-10	RW10-MW01D-20241218	Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.50	125		58	132
P5376-11	RW10A-MW01S-20241218	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.52	130		58	132
P5376-12	RW10A-MW01I-20241218	2-Methylnaphthalene-d10	0.4	0.37	94		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.42	106		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
P5376-13	RE117D2-20241218	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.40	101		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.56	141	*	58	132
P5376-14	TT161S1-20241219	2-Methylnaphthalene-d10	0.4	0.36	91		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.56	140	*	58	132
P5376-15	TT162S1-20241219	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.46	114	*	55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
P5376-16	RW11-MW01S-20241219	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
P5376-17	RW11-MW01I-20241219	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
P5376-18	TT119S1-20241219	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
P5376-19	TT188S1-20241219	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.44	111		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
P5376-20	FB03-20241219	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150

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Surrogate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P5376-20	FB03-20241219	Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
PB165828BL	PB165828BL	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.48	120		58	132
PB165828BS	PB165828BS	2-Methylnaphthalene-d10	0.4	0.47	116		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.49	122	*	55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.48	119		58	132

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5376-08MS		**Client Sample ID:** RW10-MW01S-20241218MS						**DataFile:** BN035821.D			
1,4-Dioxane	0.4	0.10	0.31	ug/L	53	*			70	130	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5376-09MSD		**Client Sample ID:** RW10-MW01S-20241218MSD						**DataFile:** BN035822.D			
1,4-Dioxane	0.41	0.10	0.31	ug/L	51	*	4		70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5376

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035852.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165828BS	1,4-Dioxane	0.4	0.35	ug/L	88				70	130	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165828BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035812.D Lab Sample ID: PB165828BL

Instrument ID: BNA_N Date Extracted: 12/23/2024

Matrix: (soil/water) Water Date Analyzed: 12/24/2024

Level: (low/med) LOW Time Analyzed: 09:35

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RW11-MW01I-20241219	P5376-17	BN035834.D	12/24/2024
TT119S1-20241219	P5376-18	BN035835.D	12/25/2024
FB03-20241219	P5376-20	BN035837.D	12/25/2024
TT162S1-20241219	P5376-15	BN035847.D	12/26/2024
TT188S1-20241219	P5376-19	BN035848.D	12/26/2024
TT205S1-20241218	P5376-01	BN035849.D	12/26/2024
PB165828BS	PB165828BS	BN035852.D	12/26/2024
TT150S1-20241218	P5376-02	BN035815.D	12/24/2024
RE115D2-20241218	P5376-03	BN035816.D	12/24/2024
TT149S1-20241218	P5376-04	BN035817.D	12/24/2024
DUP-07-20241218	P5376-05	BN035818.D	12/24/2024
TT174I1-20241218	P5376-06	BN035819.D	12/24/2024
RW10-MW01S-20241218	P5376-07	BN035820.D	12/24/2024
RW10-MW01S-20241218MS	P5376-08MS	BN035821.D	12/24/2024
RW10-MW01S-20241218MSD	P5376-09MSD	BN035822.D	12/24/2024
RW10-MW01D-20241218	P5376-10	BN035823.D	12/24/2024
RW10A-MW01S-20241218	P5376-11	BN035824.D	12/24/2024
RW10A-MW01I-20241218	P5376-12	BN035825.D	12/24/2024
RE117D2-20241218	P5376-13	BN035826.D	12/24/2024
TT161S1-20241219	P5376-14	BN035827.D	12/24/2024
RW11-MW01S-20241219	P5376-16	BN035833.D	12/24/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035349.D DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_N DFTPP Injection Time: 14:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.9
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14 (19.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN035350.D	11/27/2024	15:34
SSTDICC0.2	SSTDICC0.2	BN035351.D	11/27/2024	16:10
SSTDICCC0.4	SSTDICCC0.4	BN035352.D	11/27/2024	16:46
SSTDICC0.8	SSTDICC0.8	BN035353.D	11/27/2024	17:21
SSTDICC1.6	SSTDICC1.6	BN035354.D	11/27/2024	17:57
SSTDICC3.2	SSTDICC3.2	BN035355.D	11/27/2024	18:33
SSTDICC5.0	SSTDICC5.0	BN035356.D	11/27/2024	19:09

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035810.D DFTPP Injection Date: 12/24/2024

Instrument ID: BNA_N DFTPP Injection Time: 07:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	39.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.6
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.2 (18.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035811.D	12/24/2024	08:59
PB165828BL	PB165828BL	BN035812.D	12/24/2024	09:35
TT150S1-20241218	P5376-02	BN035815.D	12/24/2024	11:21
RE115D2-20241218	P5376-03	BN035816.D	12/24/2024	11:57
TT149S1-20241218	P5376-04	BN035817.D	12/24/2024	12:33
DUP-07-20241218	P5376-05	BN035818.D	12/24/2024	13:08
TT174I1-20241218	P5376-06	BN035819.D	12/24/2024	13:44
RW10-MW01S-20241218	P5376-07	BN035820.D	12/24/2024	14:19
RW10-MW01S-20241218MS	P5376-08MS	BN035821.D	12/24/2024	14:55
RW10-MW01S-20241218MSD	P5376-09MSD	BN035822.D	12/24/2024	15:31
RW10-MW01D-20241218	P5376-10	BN035823.D	12/24/2024	16:06
RW10A-MW01S-20241218	P5376-11	BN035824.D	12/24/2024	16:42
RW10A-MW01I-20241218	P5376-12	BN035825.D	12/24/2024	17:18
RE117D2-20241218	P5376-13	BN035826.D	12/24/2024	17:53
TT161S1-20241219	P5376-14	BN035827.D	12/24/2024	18:29
SSTDCCC0.4EC	SSTDCCC0.4	BN035828.D	12/24/2024	19:05

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035829.D DFTPP Injection Date: 12/24/2024

Instrument ID: BNA_N DFTPP Injection Time: 19:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	32.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	39.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.7 (19.8) 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	BN035830.D	12/24/2024	20:55
RW11-MW01S-20241219	P5376-16	BN035833.D	12/24/2024	23:18
RW11-MW01I-20241219	P5376-17	BN035834.D	12/24/2024	23:53
TT119S1-20241219	P5376-18	BN035835.D	12/25/2024	00:29
FB03-20241219	P5376-20	BN035837.D	12/25/2024	01:40
SSTDCCC0.4EC	SSTDCCC0.4	BN035843.D	12/25/2024	05:14

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5376 SDG NO.: P5376

Lab File ID: BN035844.D DFTPP Injection Date: 12/26/2024

Instrument ID: BNA_N DFTPP Injection Time: 09:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24
68	Less than 2.0% of mass 69	0.2 (0.6) 1
69	Mass 69 relative abundance	32.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.1 (20.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035845.D	12/26/2024	09:58
TT162S1-20241219	P5376-15	BN035847.D	12/26/2024	11:20
TT188S1-20241219	P5376-19	BN035848.D	12/26/2024	11:56
TT205S1-20241218	P5376-01	BN035849.D	12/26/2024	12:31
PB165828BS	PB165828BS	BN035852.D	12/26/2024	14:19
RE115D2-20241218DL	P5376-03DL	BN035854.D	12/26/2024	15:30
SSTDCCC0.4EC	SSTDCCC0.4	BN035861.D	12/26/2024	19:41

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035811.D Time Analyzed: 08:59

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	3972	7.264	9483	10.00	5387	13.92
	UPPER LIMIT	7944	7.764	18966	10.498	10774	14.424
	LOWER LIMIT	1986	6.764	4741.5	9.498	2693.5	13.424
	EPA SAMPLE NO.						
01	TT150S1-20241218	3146	7.26	7086	10.01	4334	13.93
02	RE115D2-20241218	3275	7.26	7772	10.01	4979	13.93
03	TT149S1-20241218	2882	7.26	6877	10.01	4352	13.93
04	DUP-07-20241218	3045	7.26	7417	10.01	4769	13.93
05	TT174I1-20241218	3689	7.26	8470	10.01	5265	13.92
06	RW10-MW01S-20241218	3143	7.26	7176	10.01	4458	13.92
07	RW10-MW01S-20241218MS	3131	7.26	7403	10.00	4434	13.91
08	RW10-MW01S-20241218MSD	3187	7.26	7953	10.00	4887	13.91
09	RW10-MW01D-20241218	3352	7.26	8445	10.01	5463	13.93
10	RW10A-MW01S-20241218	3542	7.26	8575	10.01	5533	13.93
11	RW10A-MW01I-20241218	3186	7.26	7275	10.01	4568	13.92
12	RE117D2-20241218	3378	7.26	7925	10.01	4973	13.92
13	TT161S1-20241219	3265	7.26	7883	10.01	4842	13.92
14	PB165828BL	3197	7.26	6952	10.02	4346	13.94

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.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035811.D Time Analyzed: 08:59

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	10855	16.698	8569	20.947	8879	23.029
	UPPER LIMIT	21710	17.198	17138	21.447	17758	23.529
	LOWER LIMIT	5427.5	16.198	4284.5	20.447	4439.5	22.529
	EPA SAMPLE NO.						
01	TT150S1-20241218	8132	16.70	6728	20.95	6588	23.03
02	RE115D2-20241218	10106	16.70	8871	20.95	8758	23.03
03	TT149S1-20241218	9250	16.70	8129	20.95	8126	23.03
04	DUP-07-20241218	10054	16.70	8730	20.95	8948	23.03
05	TT174I1-20241218	9421	16.70	7347	20.95	7210	23.03
06	RW10-MW01S-20241218	8922	16.70	7054	20.95	6962	23.03
07	RW10-MW01S-20241218MS	9040	16.69	8798	20.95	9479	23.03
08	RW10-MW01S-20241218MSD	10068	16.69	9501	20.94	9990	23.02
09	RW10-MW01D-20241218	11816	16.70	9968	20.95	9568	23.03
10	RW10A-MW01S-20241218	11307	16.70	9270	20.95	9119	23.03
11	RW10A-MW01I-20241218	9048	16.70	6943	20.95	6791	23.03
12	RE117D2-20241218	10383	16.70	8532	20.95	8295	23.03
13	TT161S1-20241219	9395	16.70	7091	20.95	6735	23.03
14	PB165828BL	8099	16.71	6756	20.96	6747	23.04

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.
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Form VIII SV-1

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035830.D Time Analyzed: 20:55

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	3866	7.257	9955	10.00	5956	13.91
	UPPER LIMIT	7732	7.757	19910	10.498	11912	14.414
	LOWER LIMIT	1933	6.757	4977.5	9.498	2978	13.414
	EPA SAMPLE NO.						
01	RW11-MW01S-20241219	3277	7.26	7724	10.01	4815	13.91
02	RW11-MW01I-20241219	3211	7.26	7680	10.01	4788	13.93
03	TT119S1-20241219	3270	7.26	7393	10.01	4622	13.93
04	FB03-20241219	2951	7.26	6785	10.01	4279	13.92

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.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035830.D Time Analyzed: 20:55

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	11143	16.698	7851	20.947	7870	23.026
	UPPER LIMIT	22286	17.198	15702	21.447	15740	23.526
	LOWER LIMIT	5571.5	16.198	3925.5	20.447	3935	22.526
	EPA SAMPLE NO.						
01	RW11-MW01S-20241219	10024	16.70	8069	20.95	7784	23.03
02	RW11-MW01I-20241219	10028	16.70	8231	20.95	7812	23.03
03	TT119S1-20241219	9153	16.70	7437	20.95	7071	23.03
04	FB03-20241219	8231	16.70	6628	20.95	5858	23.03

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

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	3755	7.257	9322	10.00	5387	13.91
	UPPER LIMIT	7510	7.757	18644	10.499	10774	14.414
	LOWER LIMIT	1877.5	6.757	4661	9.499	2693.5	13.414
	EPA SAMPLE NO.						
01	TT205S1-20241218	3517	7.26	8324	10.00	5358	13.91
02	RE115D2-20241218DL	2752	7.26	6133	10.01	4189	13.92
03	TT162S1-20241219	3703	7.26	8876	10.00	5154	13.91
04	TT188S1-20241219	3480	7.26	8196	10.01	5304	13.93
05	PB165828BS	4431	7.26	10905	10.00	6427	13.91

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.: P5376 SAS No.: P5376 SDG NO.: P5376

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

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	11262	16.686	9932	20.938	10817	23.021
	UPPER LIMIT	22524	17.186	19864	21.438	21634	23.521
	LOWER LIMIT	5631	16.186	4966	20.438	5408.5	22.521
	EPA SAMPLE NO.						
01	TT205S1-20241218	11302	16.69	8549	20.94	7798	23.02
02	RE115D2-20241218DL	9267	16.70	7345	20.95	6900	23.03
03	TT162S1-20241219	10596	16.69	8138	20.95	8007	23.03
04	TT188S1-20241219	11548	16.70	9719	20.94	9432	23.02
05	PB165828BS	13001	16.69	9257	20.94	9148	23.02

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT205S1-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035849.D	1	12/23/24 13:29	12/26/24 12:31	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		108%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		148%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3520	7.257				
1146-65-2	Naphthalene-d8	8320	9.999				
15067-26-2	Acenaphthene-d10	5360	13.914				
1517-22-2	Phenanthrene-d10	11300	16.686				
1719-03-5	Chrysene-d12	8550	20.938				
1520-96-3	Perylene-d12	7800	23.021				

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\BN122624\
Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3517	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	8324	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	5358	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	11302	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	8549	0.400	ng	#-0.02
35) Perylene-d12	23.021	264	7798	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	846	0.096	ng	-0.01
5) Phenol-d6	6.477	99	442	0.042	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2201m	0.433	ng	-0.01
11) 2-Methylnaphthalene-d10	11.606	152	4536	0.348	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	860	0.226	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7437	0.367	ng	-0.02
27) Fluoranthene-d10	18.743	212	12788	0.399	ng	-0.02
31) Terphenyl-d14	19.375	244	9994	0.593	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1289	0.383	ng	95
9) Naphthalene	10.052	128	3939	0.179	ng	96
12) 2-Methylnaphthalene	11.682	142	2490	0.158	ng	98
16) Acenaphthylene	13.625	152	3867	0.172	ng	99
17) Acenaphthene	13.978	154	2493	0.167	ng	99
18) Fluorene	14.983	166	3286	0.154	ng	99
25) Phenanthrene	16.736	178	6290	0.203	ng	99
26) Anthracene	16.823	178	4610	0.164	ng	98
28) Fluoranthene	18.775	202	6981	0.167	ng	99
30) Pyrene	19.142	202	7191	0.228	ng	99
32) Benzo(a)anthracene	20.929	228	4336	0.145	ng	97
33) Chrysene	20.974	228	5151	0.167	ng	98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1190	0.101	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.050	276	3640	0.119	ng	99
37) Benzo(b)fluoranthene	22.413	252	5477	0.192	ng	# 75
38) Benzo(k)fluoranthene	22.456	252	4164	0.148	ng	# 73
39) Benzo(a)pyrene	22.933	252	2844	0.121	ng	# 53
40) Dibenzo(a,h)anthracene	25.067	278	2834	0.118	ng	# 70
41) Benzo(g,h,i)perylene	25.652	276	2847	0.113	ng	# 90

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

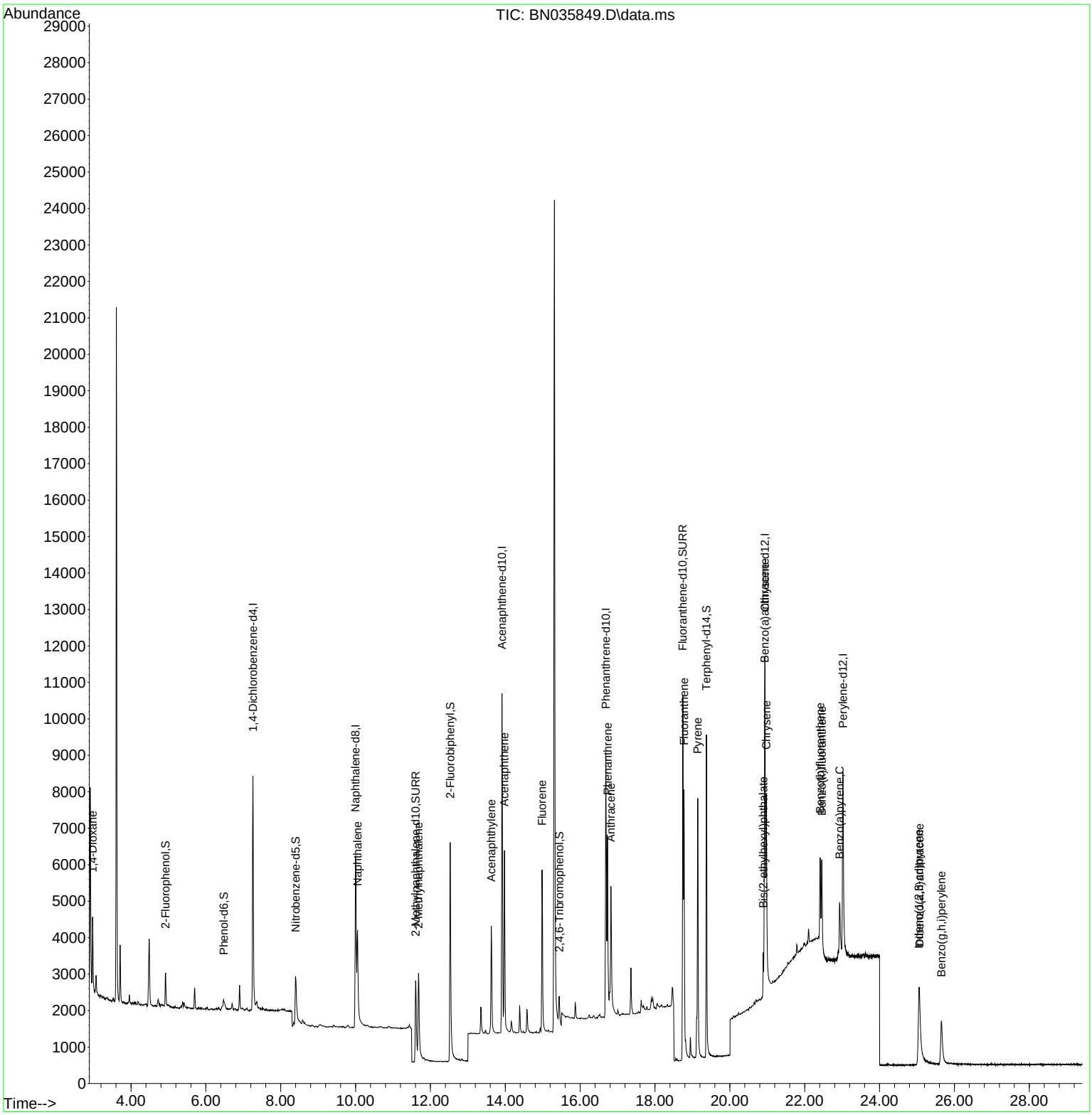
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

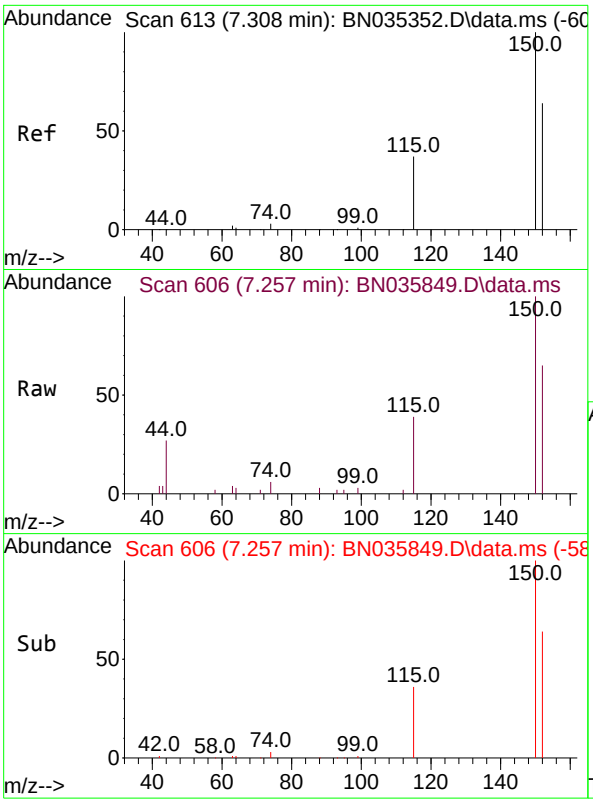
Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

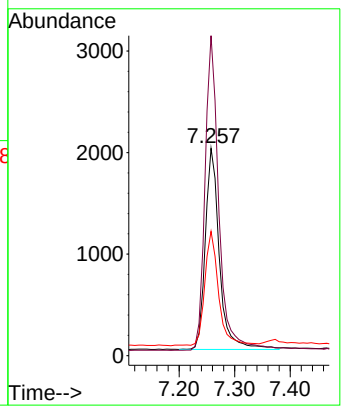




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:152 Resp: 351

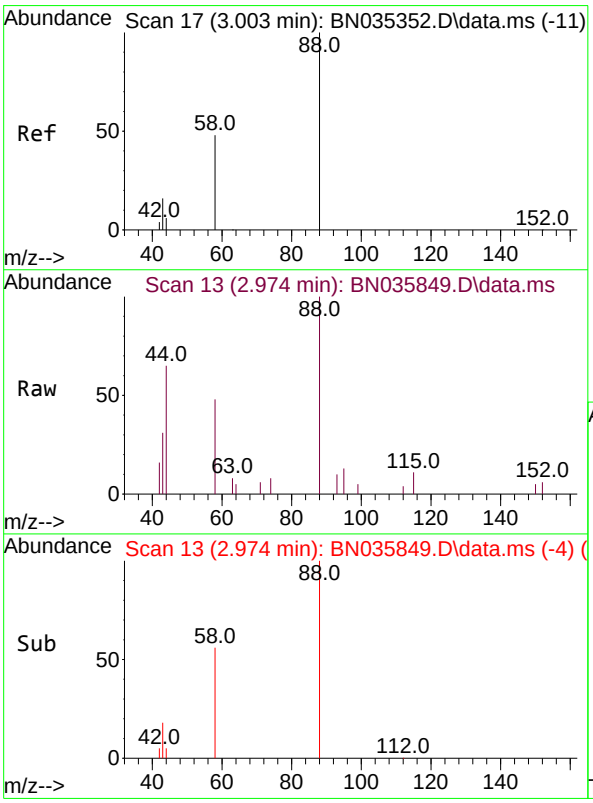
Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.0	186.0
115	60.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
APPROVED

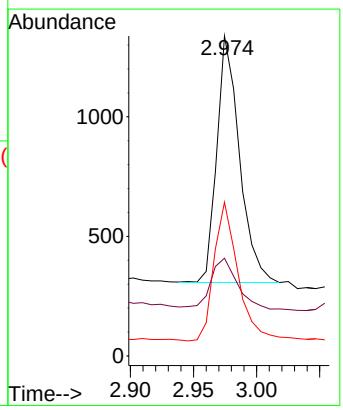
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

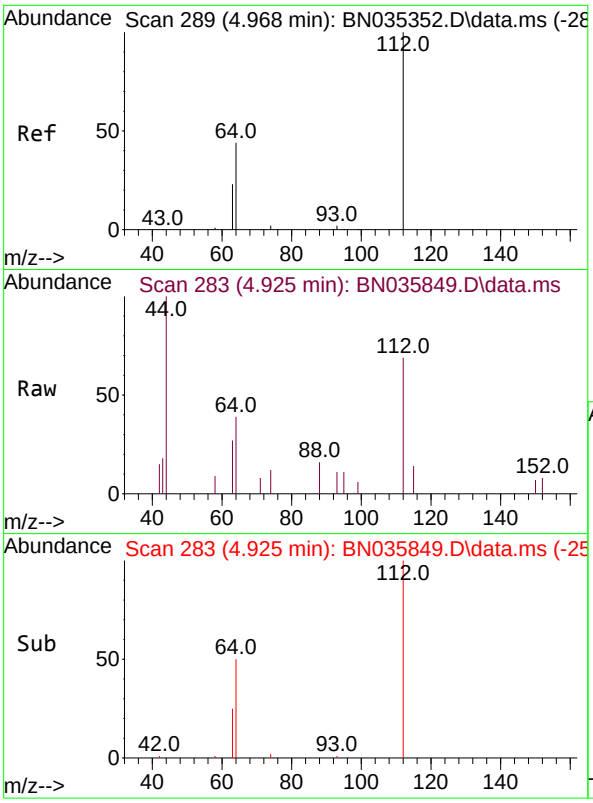


#2
1,4-Dioxane
Concen: 0.383 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 88 Resp: 1289

Ion	Ratio	Lower	Upper
88	100		
43	24.2	17.2	25.8
58	59.4	44.5	66.7





#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

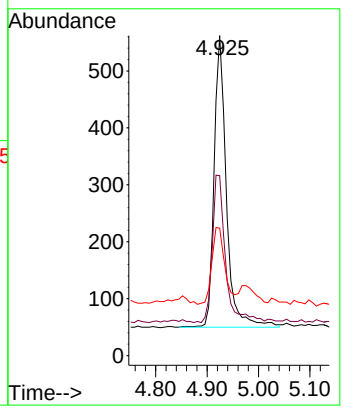
Tgt Ion:112 Resp: 84

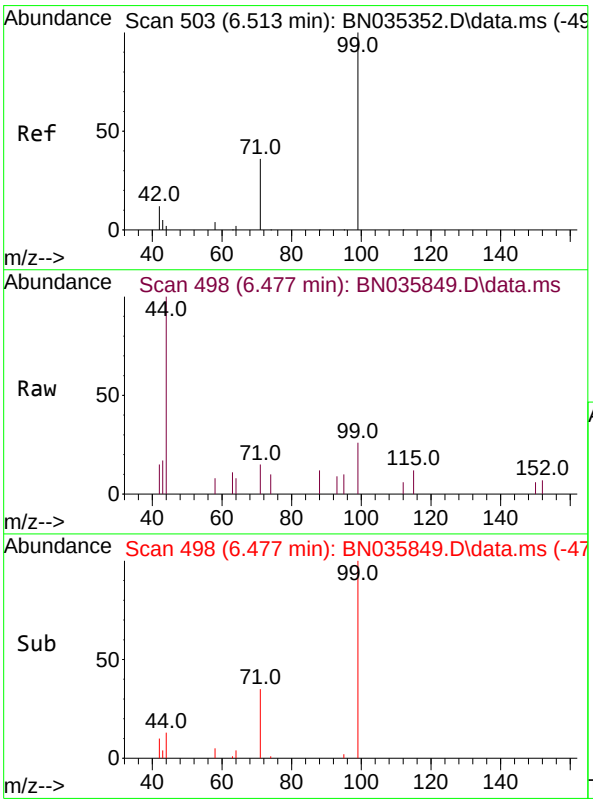
Ion	Ratio	Lower	Upper
112	100		
64	54.4	39.8	59.8
63	27.9	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

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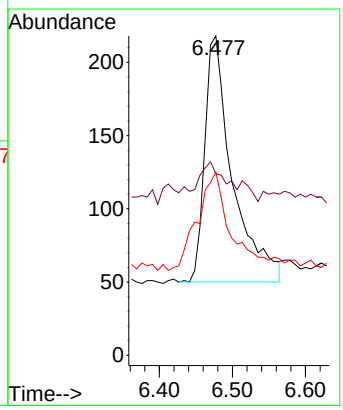


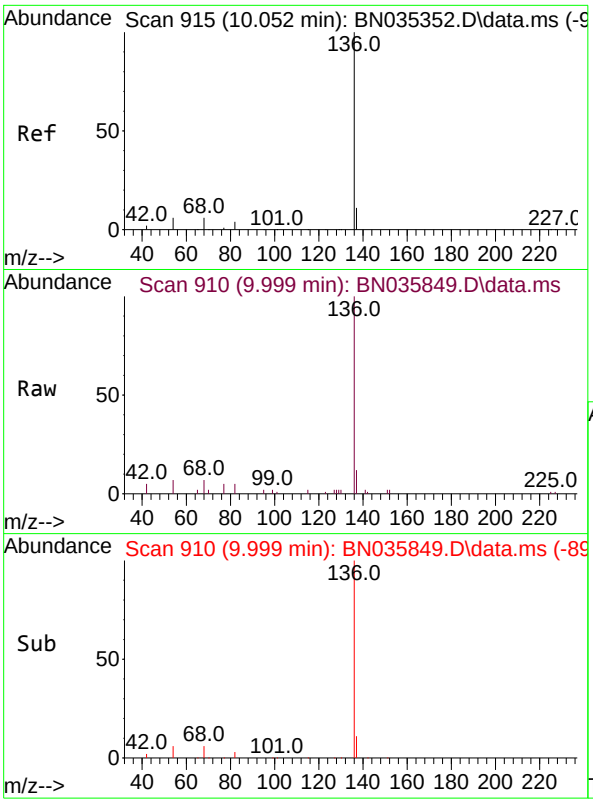


#5
Phenol-d6
Concen: 0.042 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 99 Resp: 442

Ion	Ratio	Lower	Upper
99	100		
42	11.3	11.4	17.2#
71	51.1	29.3	43.9#

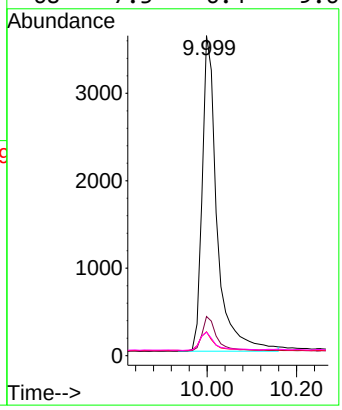




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

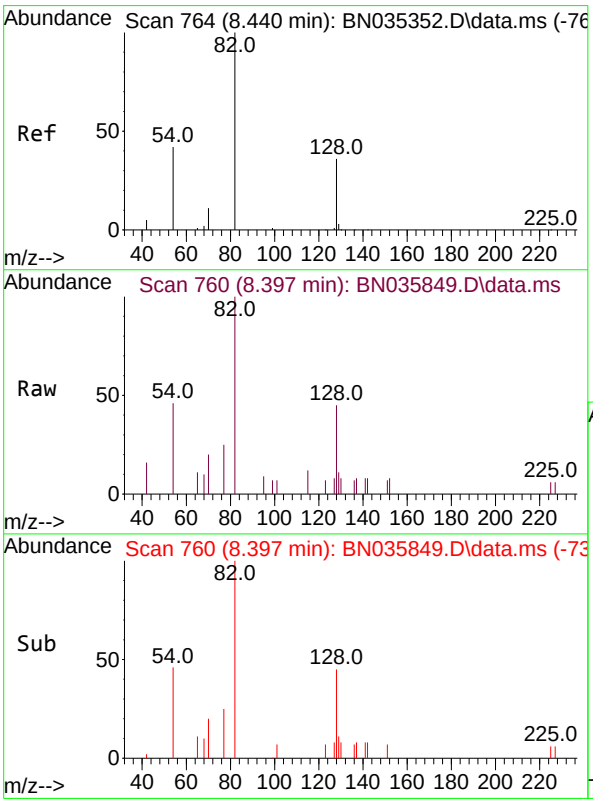
Tgt Ion:136 Resp: 832

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.3	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

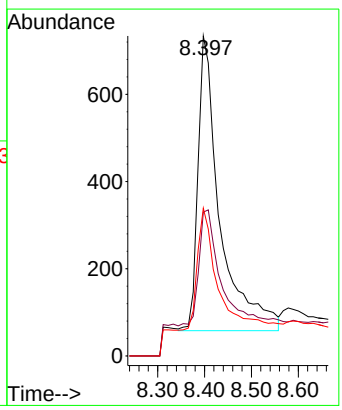
Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

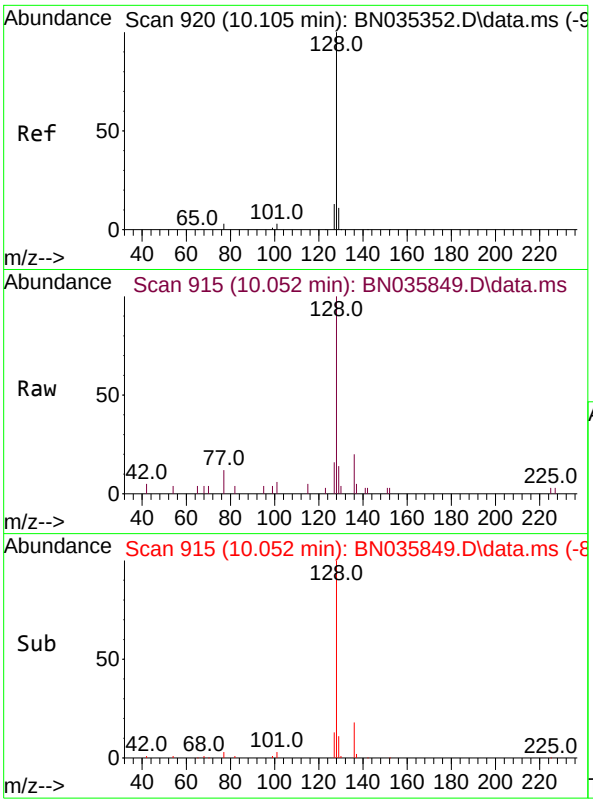


#8
Nitrobenzene-d5
Concen: 0.433 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 82 Resp: 2201

Ion	Ratio	Lower	Upper
82	100		
128	45.0	33.4	50.0
54	46.2	36.7	55.1

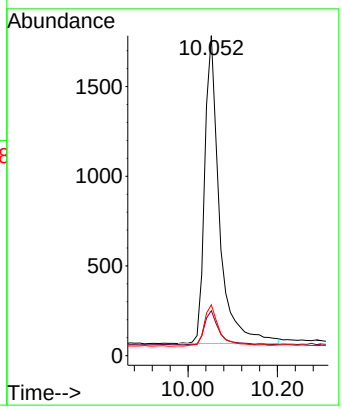




#9
Naphthalene
Concen: 0.179 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:128 Resp: 393

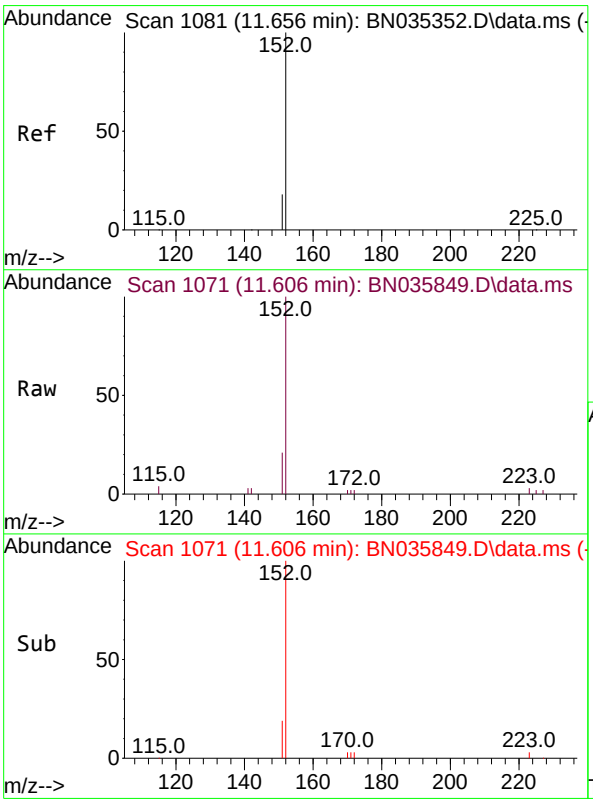
Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
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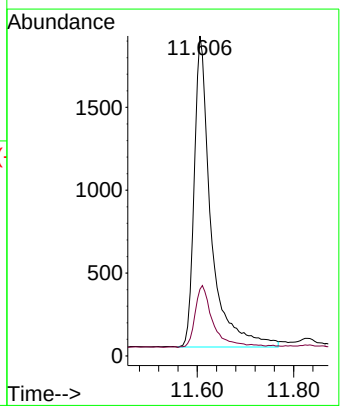
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

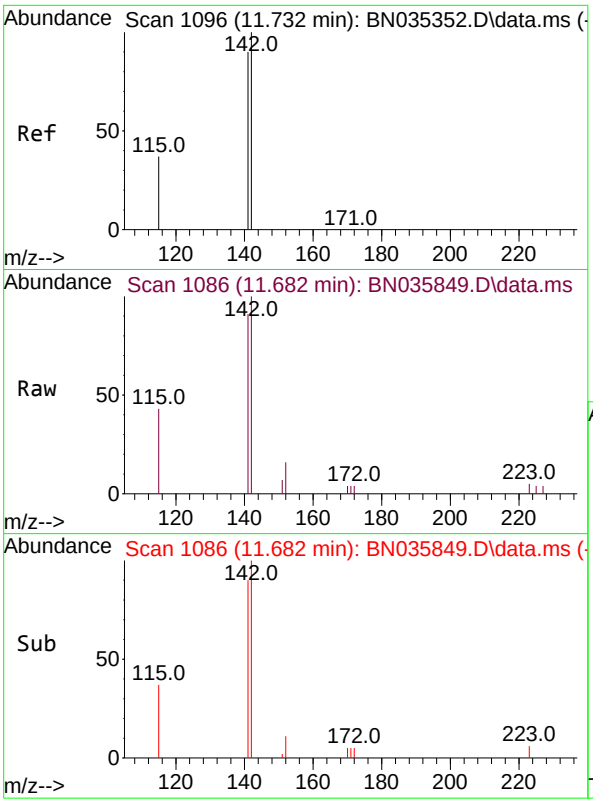


#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.606 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:152 Resp: 4536

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

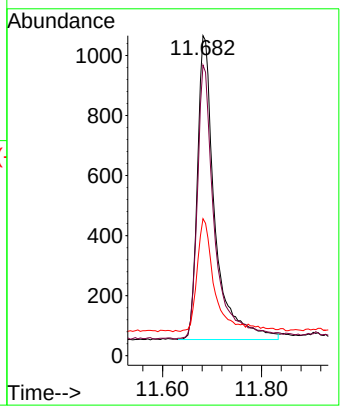




#12
2-Methylnaphthalene
Concen: 0.158 ng
RT: 11.682 min Scan# 1(
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:142 Resp: 249(

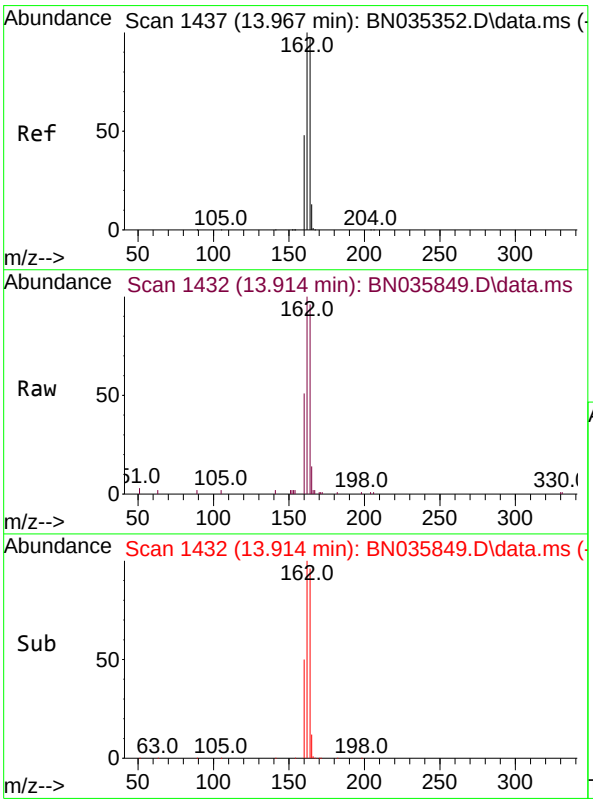
Ion	Ratio	Lower	Upper
142	100		
141	90.8	72.2	108.4
115	42.8	31.4	47.0



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
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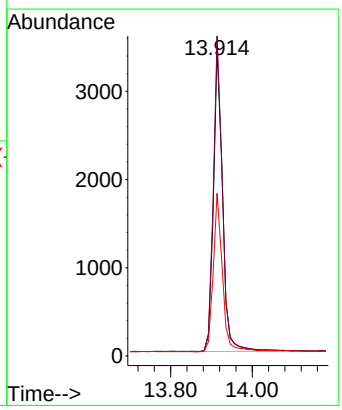
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

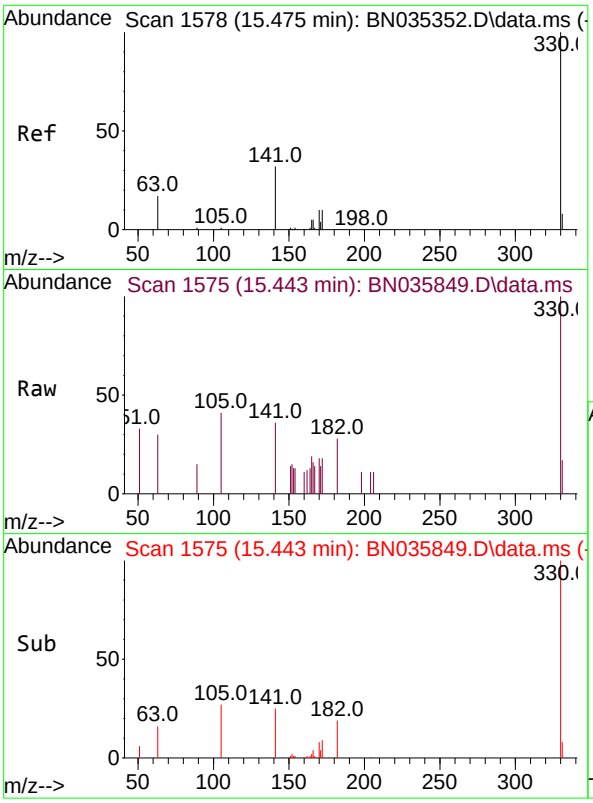


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:164 Resp: 5358

Ion	Ratio	Lower	Upper
164	100		
162	104.1	82.2	123.2
160	52.9	40.1	60.1

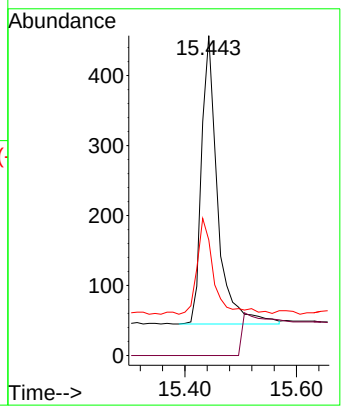




#14
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

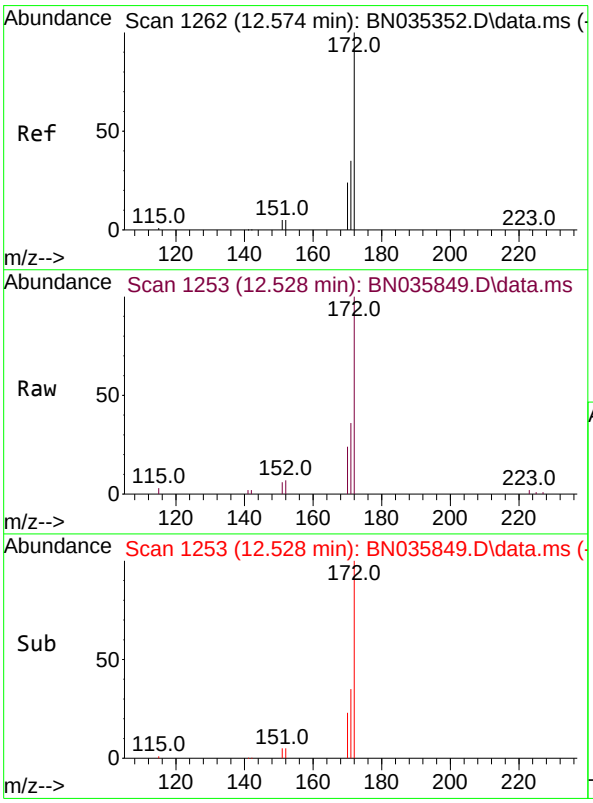
Tgt Ion:330 Resp: 86

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.0	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

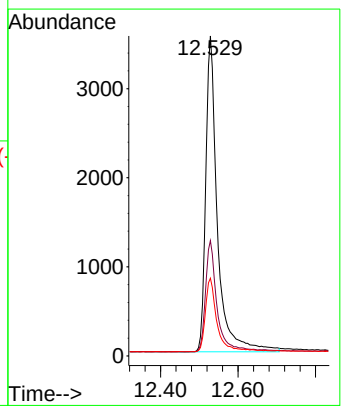
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Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

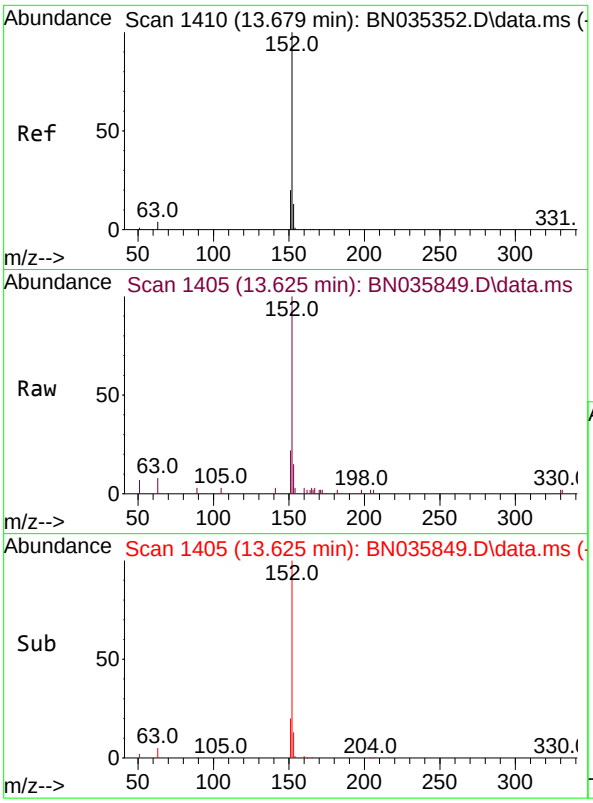


#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:172 Resp: 7437

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.3	19.8	29.8

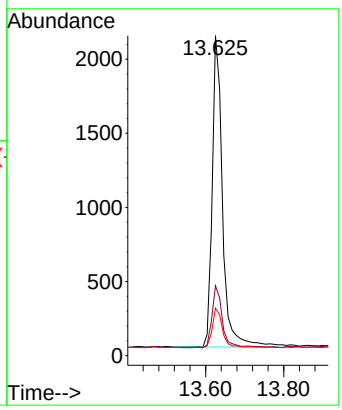




#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.625 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:152 Resp: 386

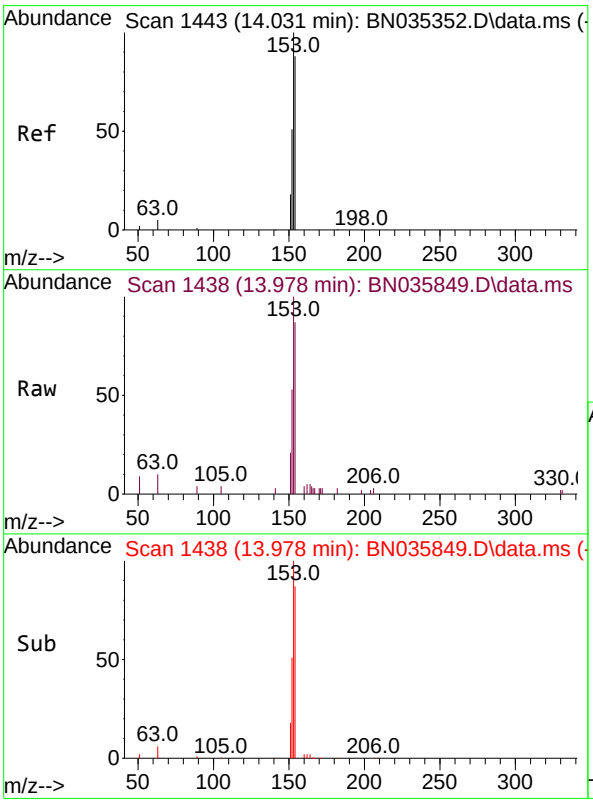
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	12.9	10.4	15.6



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
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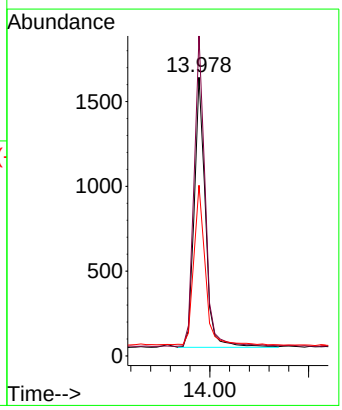
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

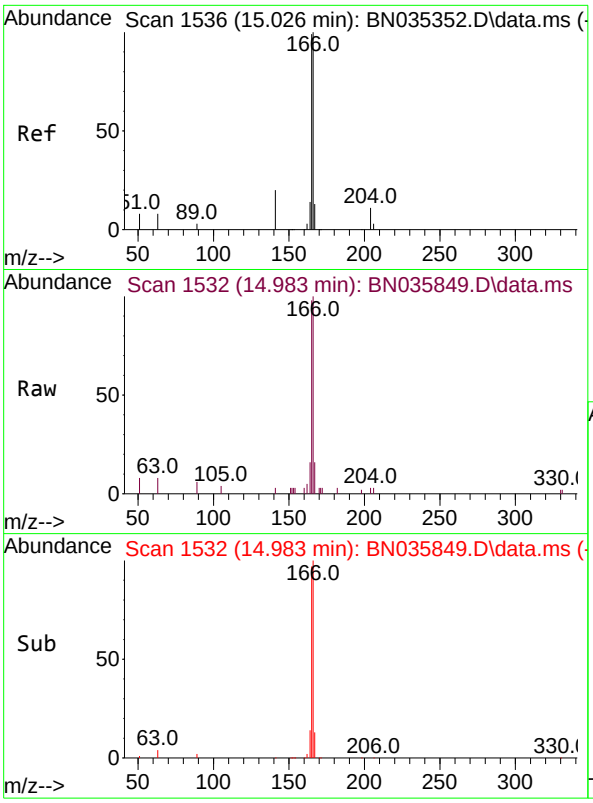


#17
Acenaphthene
Concen: 0.167 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:154 Resp: 2493

Ion	Ratio	Lower	Upper
154	100		
153	114.9	92.6	139.0
152	59.9	49.0	73.6

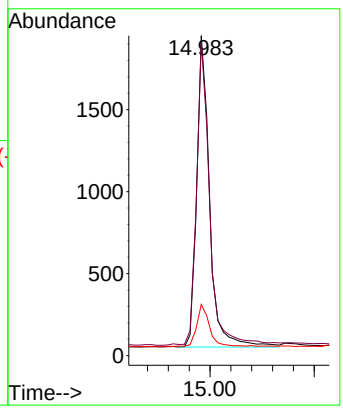




#18
Fluorene
Concen: 0.154 ng
RT: 14.983 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:166 Resp: 328

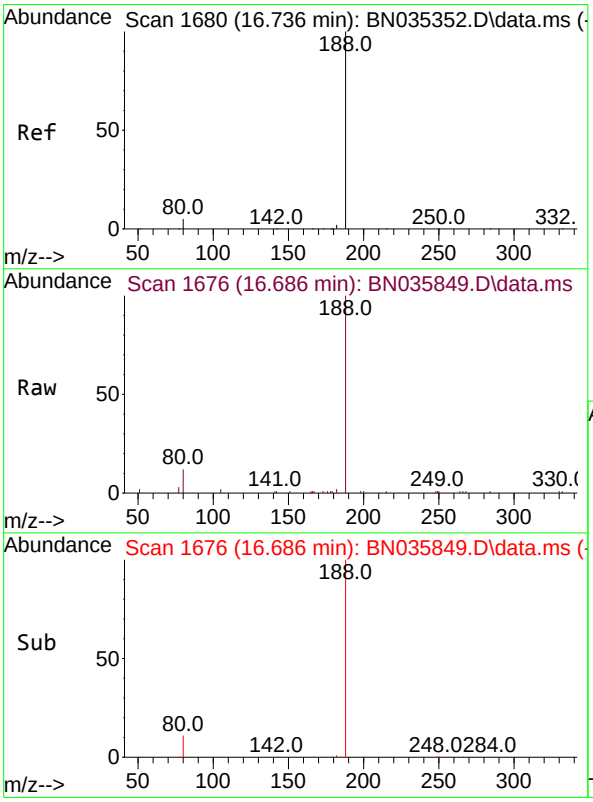
Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.9	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
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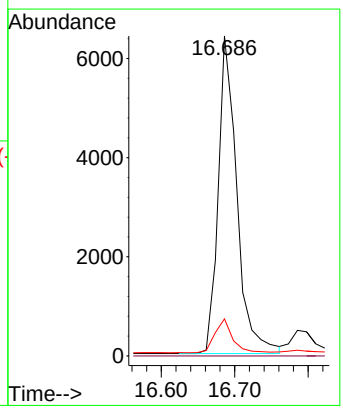
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

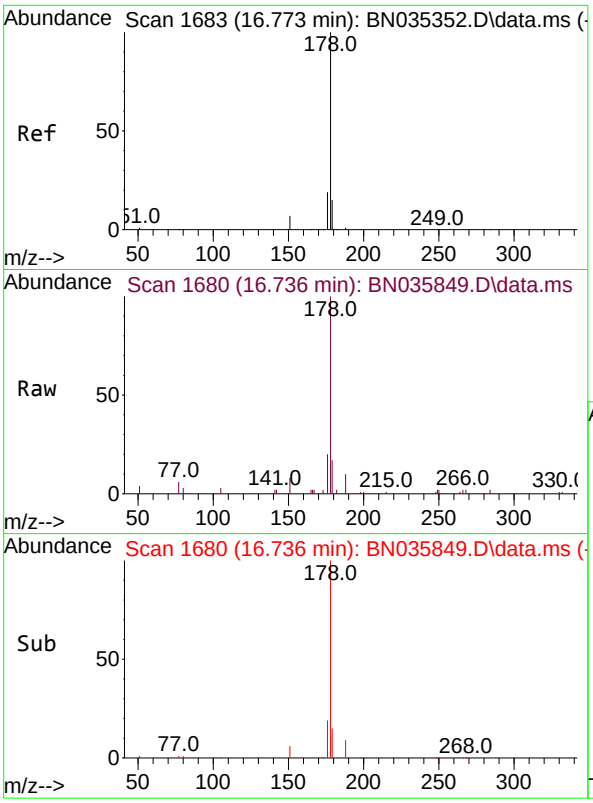


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:188 Resp: 11302

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	4.6	6.8#

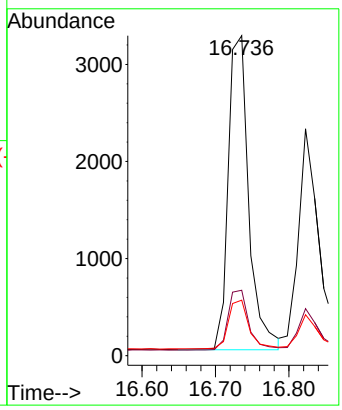




#25
Phenanthrene
Concen: 0.203 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:178 Resp: 629(

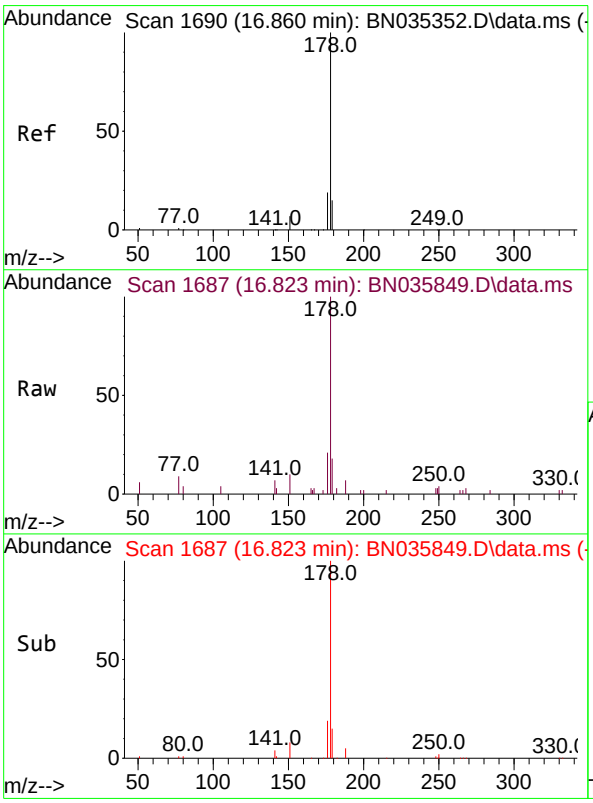
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.9	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
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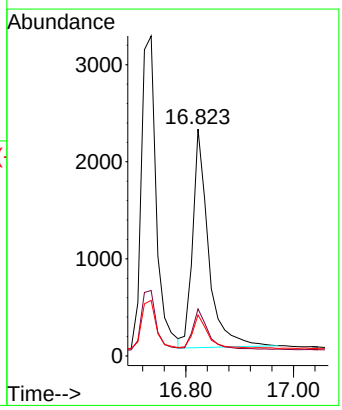
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

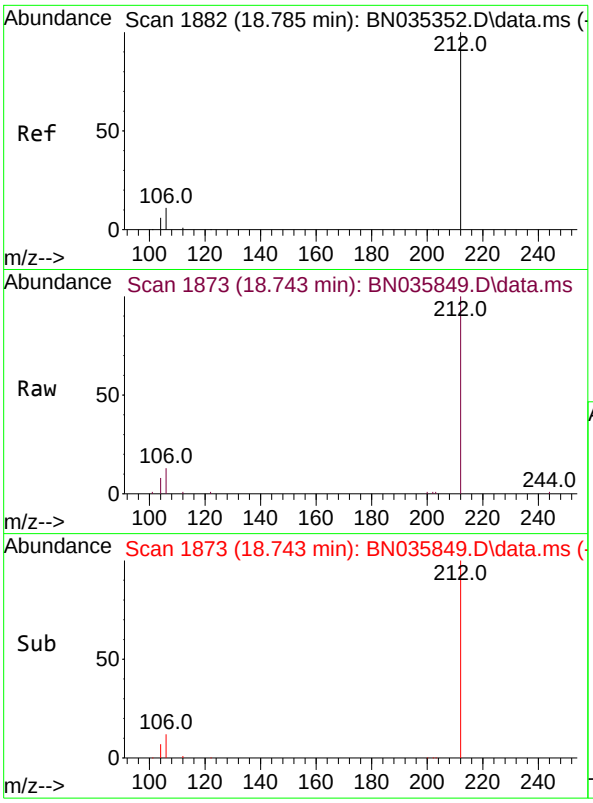


#26
Anthracene
Concen: 0.164 ng
RT: 16.823 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:178 Resp: 4610

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.6
179	14.3	12.6	18.8

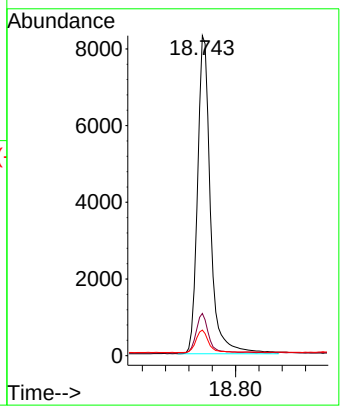




#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:212 Resp: 1278

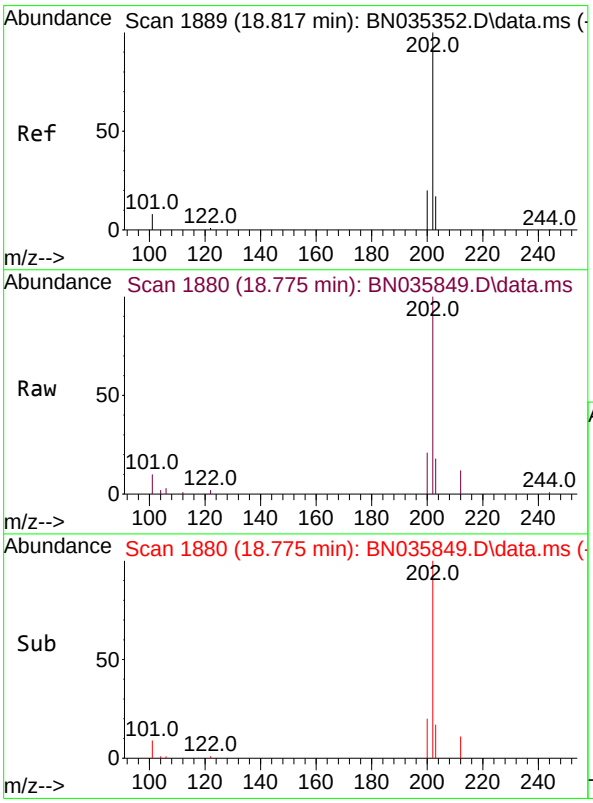
Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.2	13.8
104	6.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
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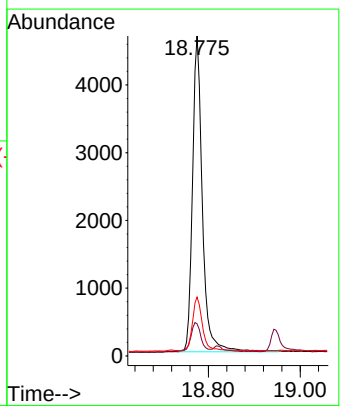
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

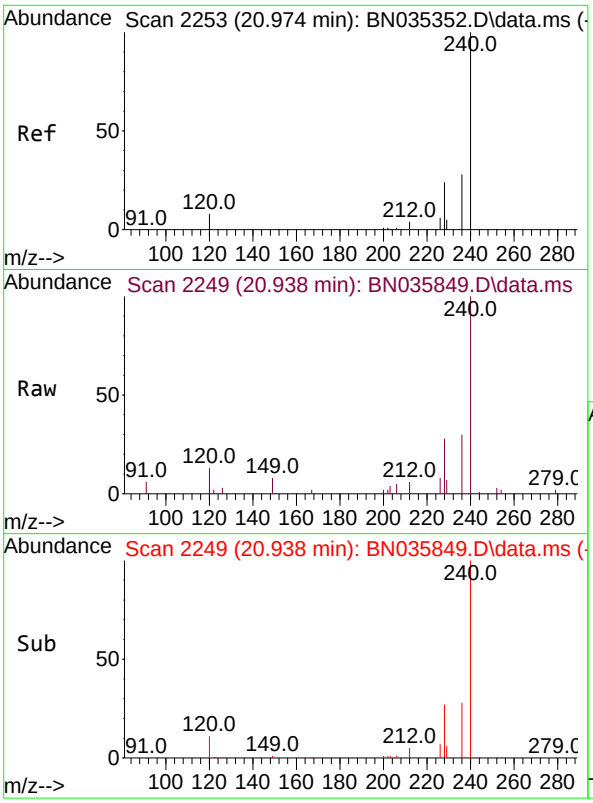


#28
Fluoranthene
Concen: 0.167 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:202 Resp: 6981

Ion	Ratio	Lower	Upper
202	100		
101	9.6	7.4	11.0
203	16.7	13.7	20.5

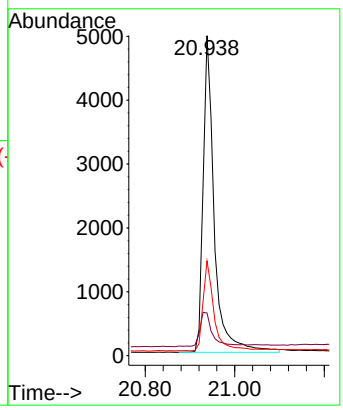




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:240 Resp: 854

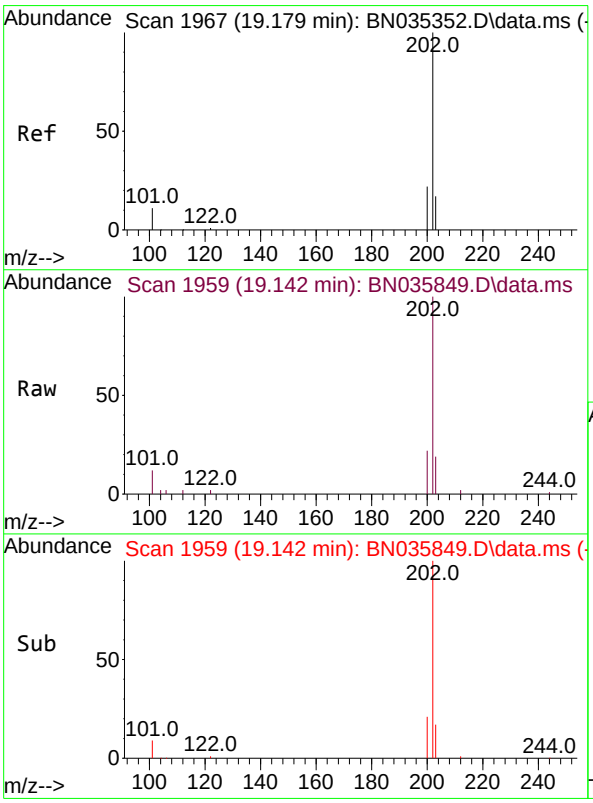
Ion	Ratio	Lower	Upper
240	100		
120	13.3	7.9	11.9
236	29.6	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
APPROVED

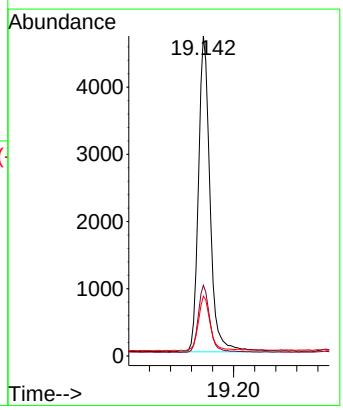
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

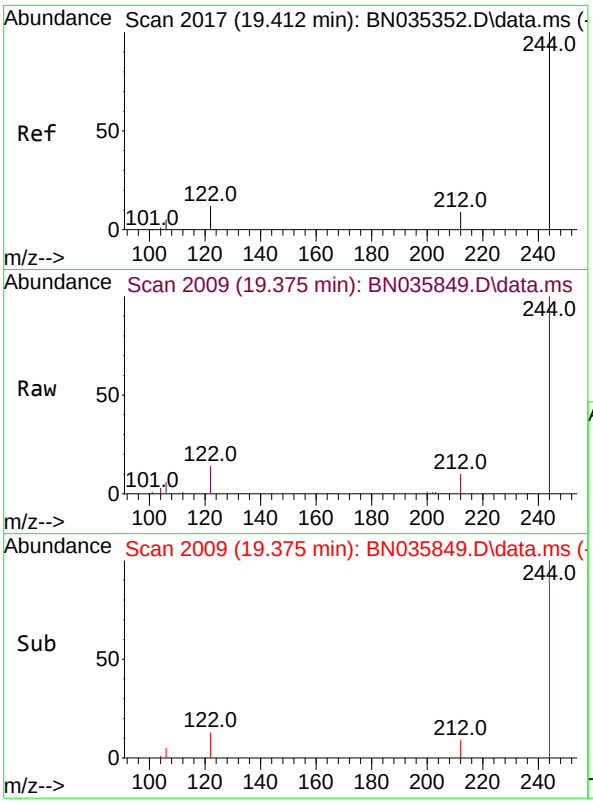


#30
Pyrene
Concen: 0.228 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:202 Resp: 7191

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.4	14.3	21.5

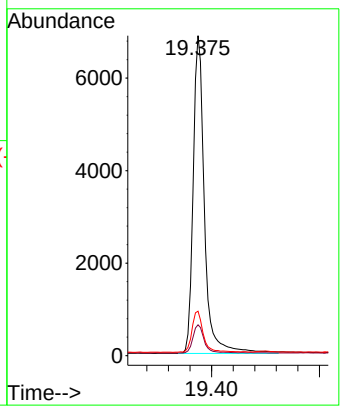




#31
Terphenyl-d14
Concen: 0.593 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:244 Resp: 999

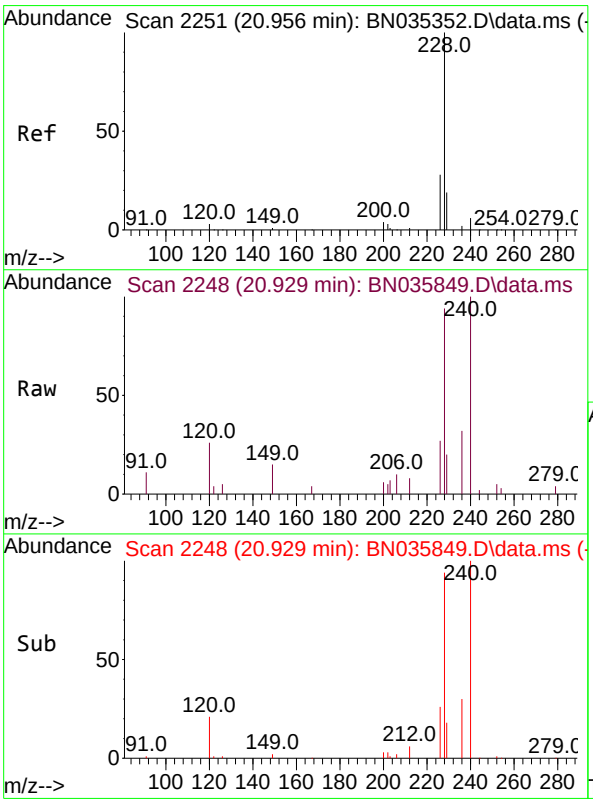
Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	13.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
APPROVED

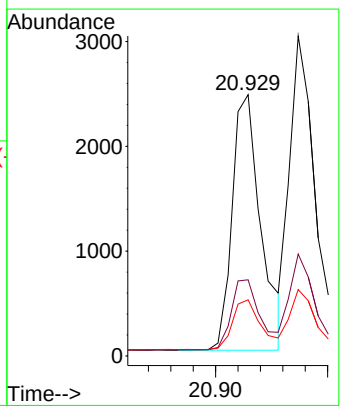
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

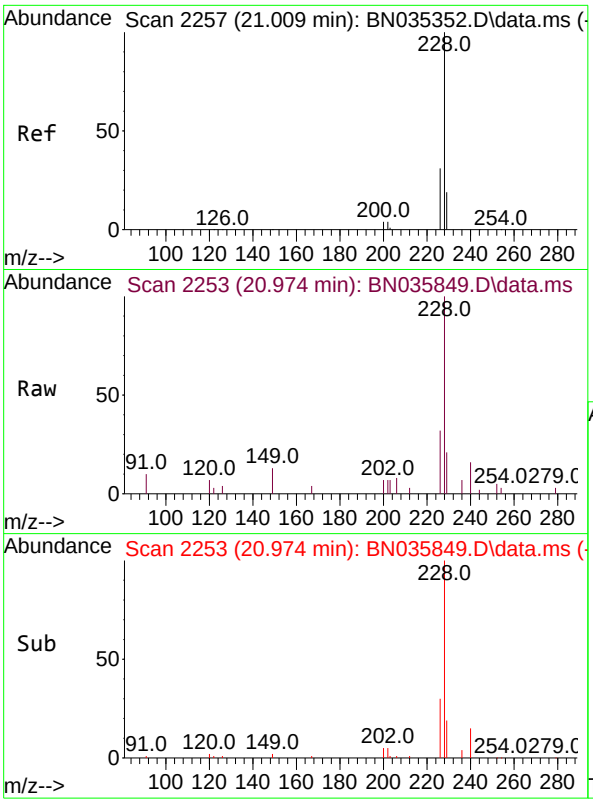


#32
Benzo(a)anthracene
Concen: 0.145 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:228 Resp: 4336

Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.5	33.7
229	21.5	15.8	23.8

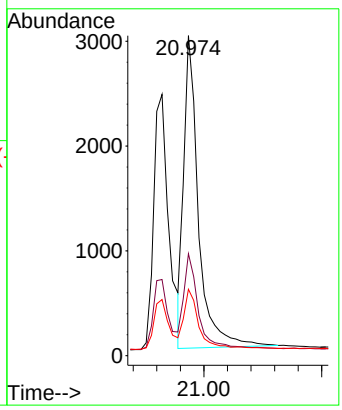




#33
Chrysene
Concen: 0.167 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:228 Resp: 515

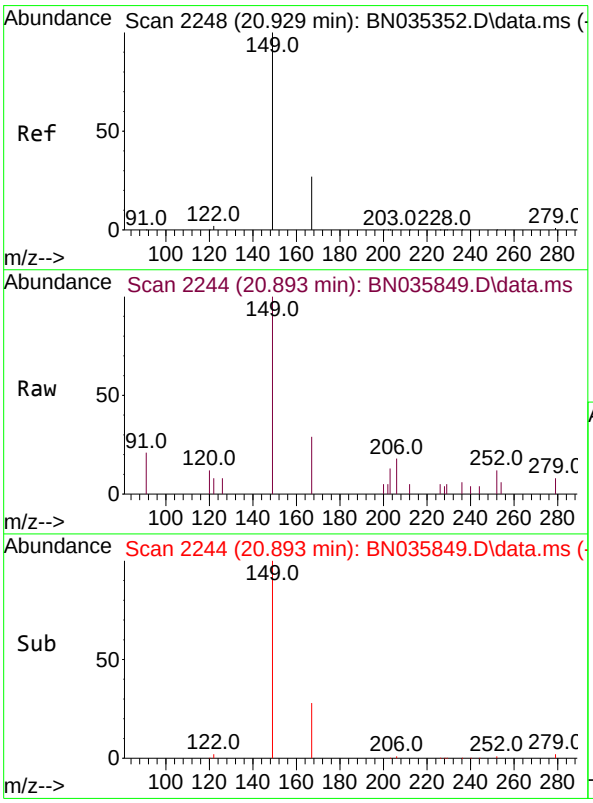
Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.6	37.0
229	20.7	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
APPROVED

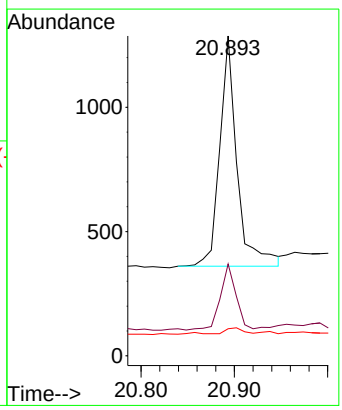
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

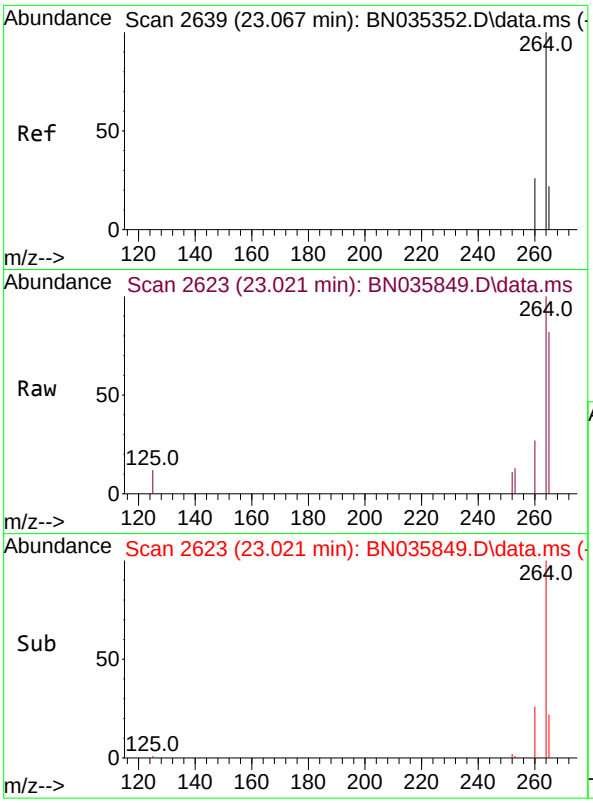


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:149 Resp: 1190

Ion	Ratio	Lower	Upper
149	100		
167	25.9	22.2	33.4
279	2.4	2.7	4.1#

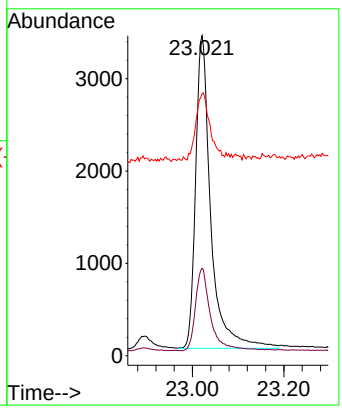




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:264 Resp: 779

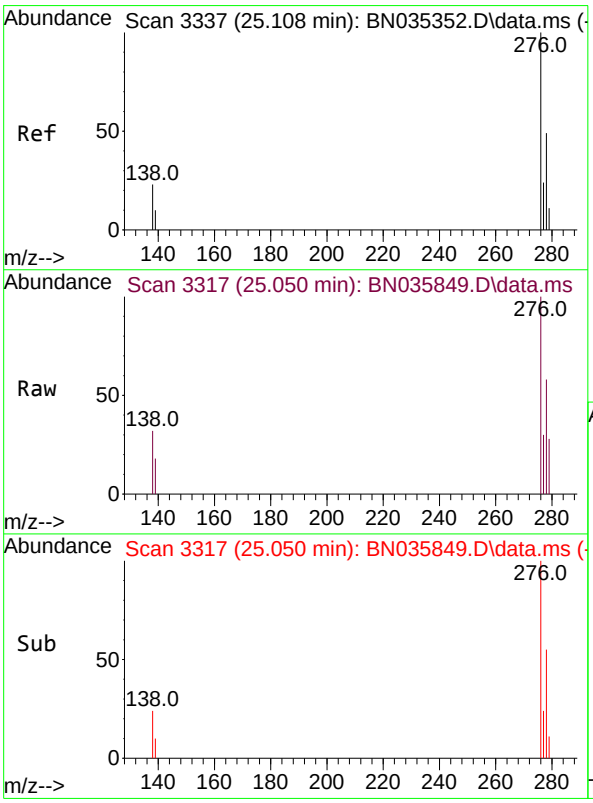
Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	81.9	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
APPROVED

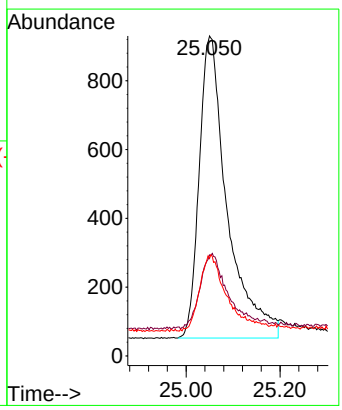
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

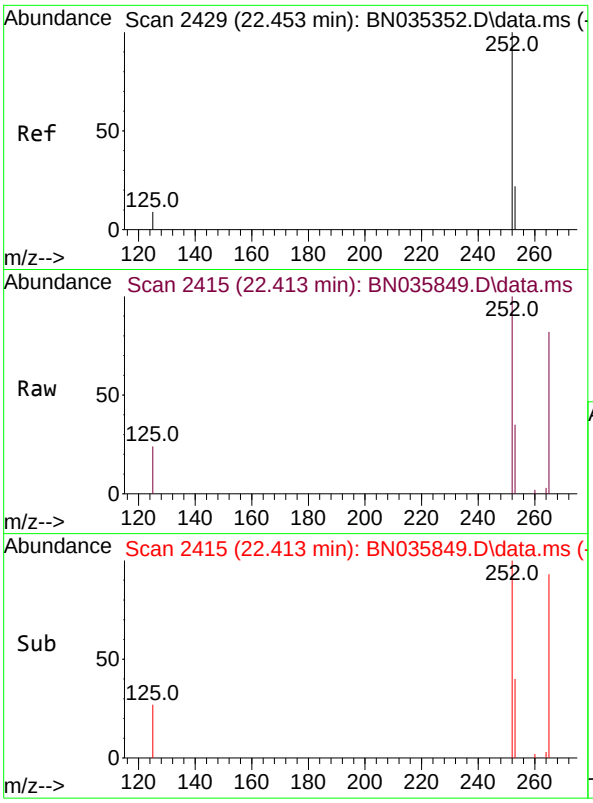


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.119 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:276 Resp: 3640

Ion	Ratio	Lower	Upper
276	100		
138	24.8	19.4	29.0
277	25.1	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.192 ng
RT: 22.413 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

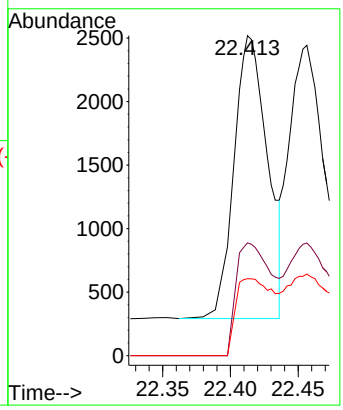
Tgt Ion:252 Resp: 547

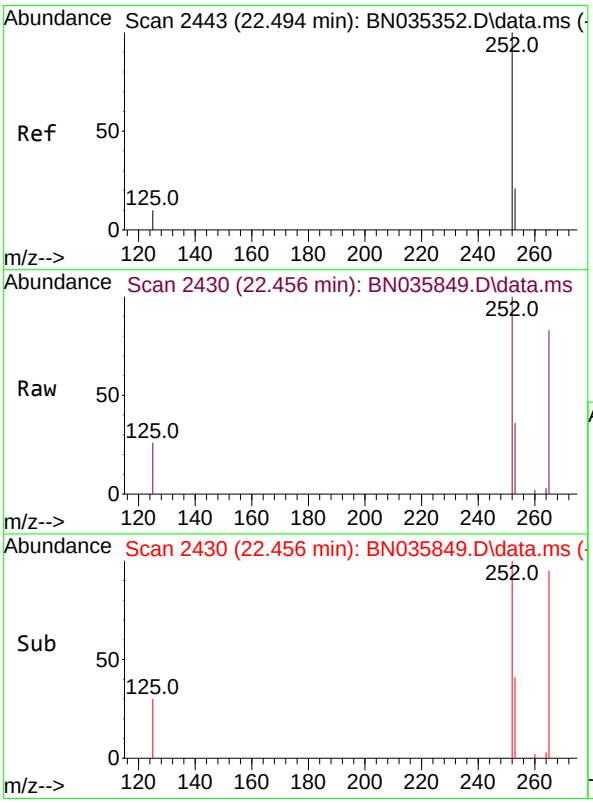
Ion	Ratio	Lower	Upper
252	100		
253	35.3	19.6	29.4#
125	24.1	9.6	14.4#

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

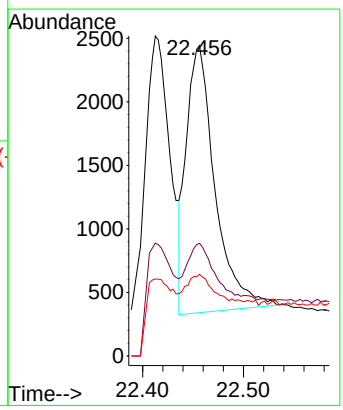


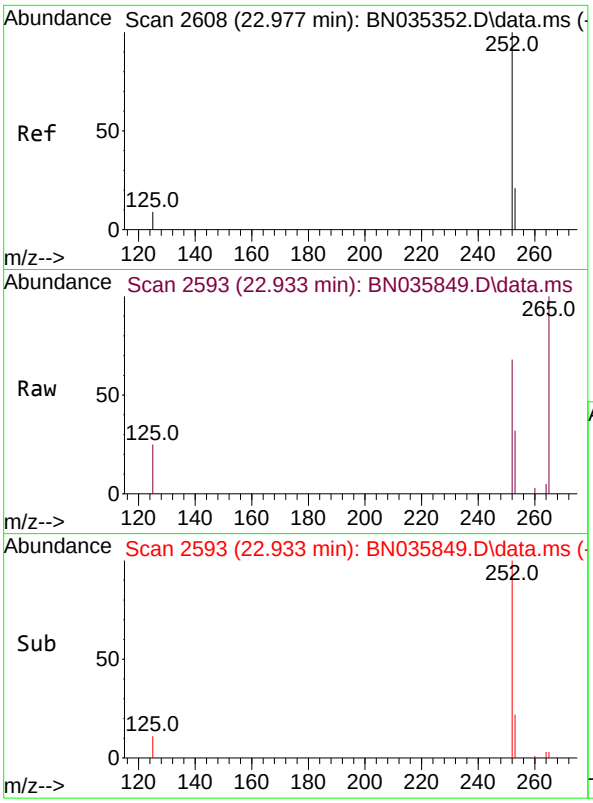


#38
Benzo(k)fluoranthene
Concen: 0.148 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:252 Resp: 4164

Ion	Ratio	Lower	Upper
252	100		
253	36.3	19.5	29.3#
125	26.3	10.2	15.4#

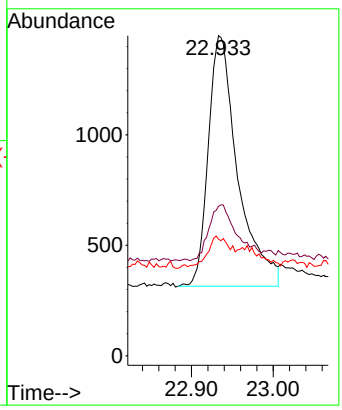




#39
Benzo(a)pyrene
Concen: 0.121 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:252 Resp: 284

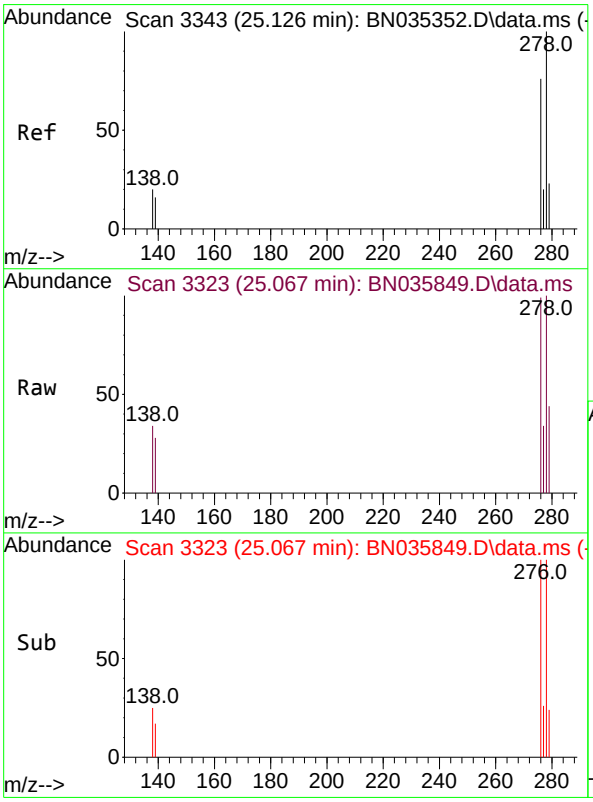
Ion	Ratio	Lower	Upper
252	100		
253	46.7	20.2	30.4#
125	36.4	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
APPROVED

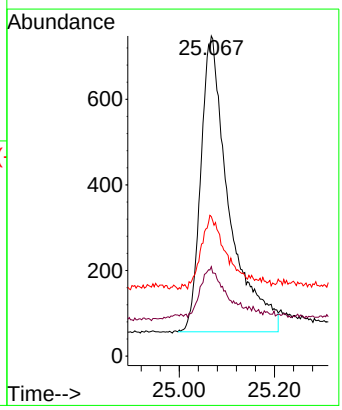
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

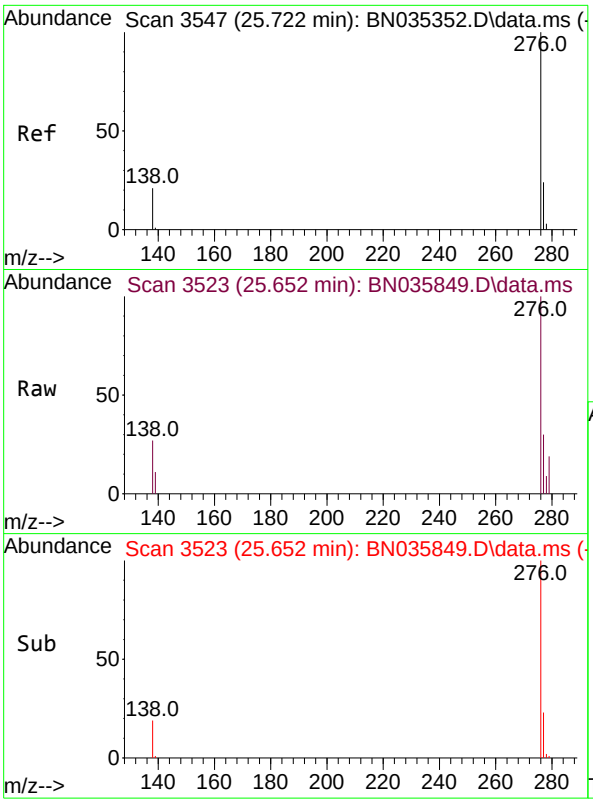


#40
Dibenzo(a,h)anthracene
Concen: 0.118 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:278 Resp: 2834

Ion	Ratio	Lower	Upper
278	100		
139	27.9	14.2	21.4#
279	43.6	20.5	30.7#

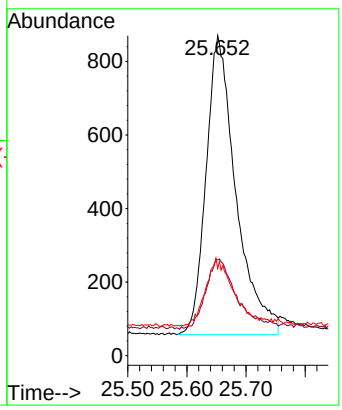




#41
Benzo(g,h,i)perylene
Concen: 0.113 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:276 Resp: 284

Ion	Ratio	Lower	Upper
276	100		
277	30.0	19.9	29.9#
138	27.2	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT150S1-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035815.D	1	12/23/24 13:29	12/24/24 11:21	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3150	7.264				
1146-65-2	Naphthalene-d8	7090	10.009				
15067-26-2	Acenaphthene-d10	4330	13.925				
1517-22-2	Phenanthrene-d10	8130	16.698				
1719-03-5	Chrysene-d12	6730	20.947				
1520-96-3	Perylene-d12	6590	23.029				

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\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 24 23:17:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3146	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7086	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4334	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8132	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6728	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6588	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	783	0.099	ng	-0.01
5) Phenol-d6	6.477	99	425	0.045	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1751m	0.405	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3733	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	558	0.181	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6086	0.371	ng	0.00
27) Fluoranthene-d10	18.747	212	9081	0.394	ng	-0.01
31) Terphenyl-d14	19.379	244	7115	0.536	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	735	0.244	ng	91
9) Naphthalene	10.052	128	3064	0.164	ng	# 93
12) 2-Methylnaphthalene	11.697	142	1938	0.145	ng	# 95
16) Acenaphthylene	13.636	152	3133	0.172	ng	98
17) Acenaphthene	13.989	154	1954	0.162	ng	96
18) Fluorene	14.994	166	2543	0.147	ng	99
25) Phenanthrene	16.736	178	4749	0.213	ng	99
26) Anthracene	16.835	178	3615	0.179	ng	99
28) Fluoranthene	18.780	202	5217	0.173	ng	100
30) Pyrene	19.147	202	5398	0.217	ng	99
32) Benzo(a)anthracene	20.929	228	3164	0.134	ng	96
33) Chrysene	20.983	228	4527	0.187	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	357	0.038	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.058	276	2949	0.115	ng	96
37) Benzo(b)fluoranthene	22.421	252	4545	0.189	ng	# 72
38) Benzo(k)fluoranthene	22.465	252	3529	0.149	ng	# 71
39) Benzo(a)pyrene	22.945	252	2673	0.135	ng	# 51
40) Dibenzo(a,h)anthracene	25.082	278	2170	0.107	ng	# 55
41) Benzo(g,h,i)perylene	25.672	276	2390	0.113	ng	# 83

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

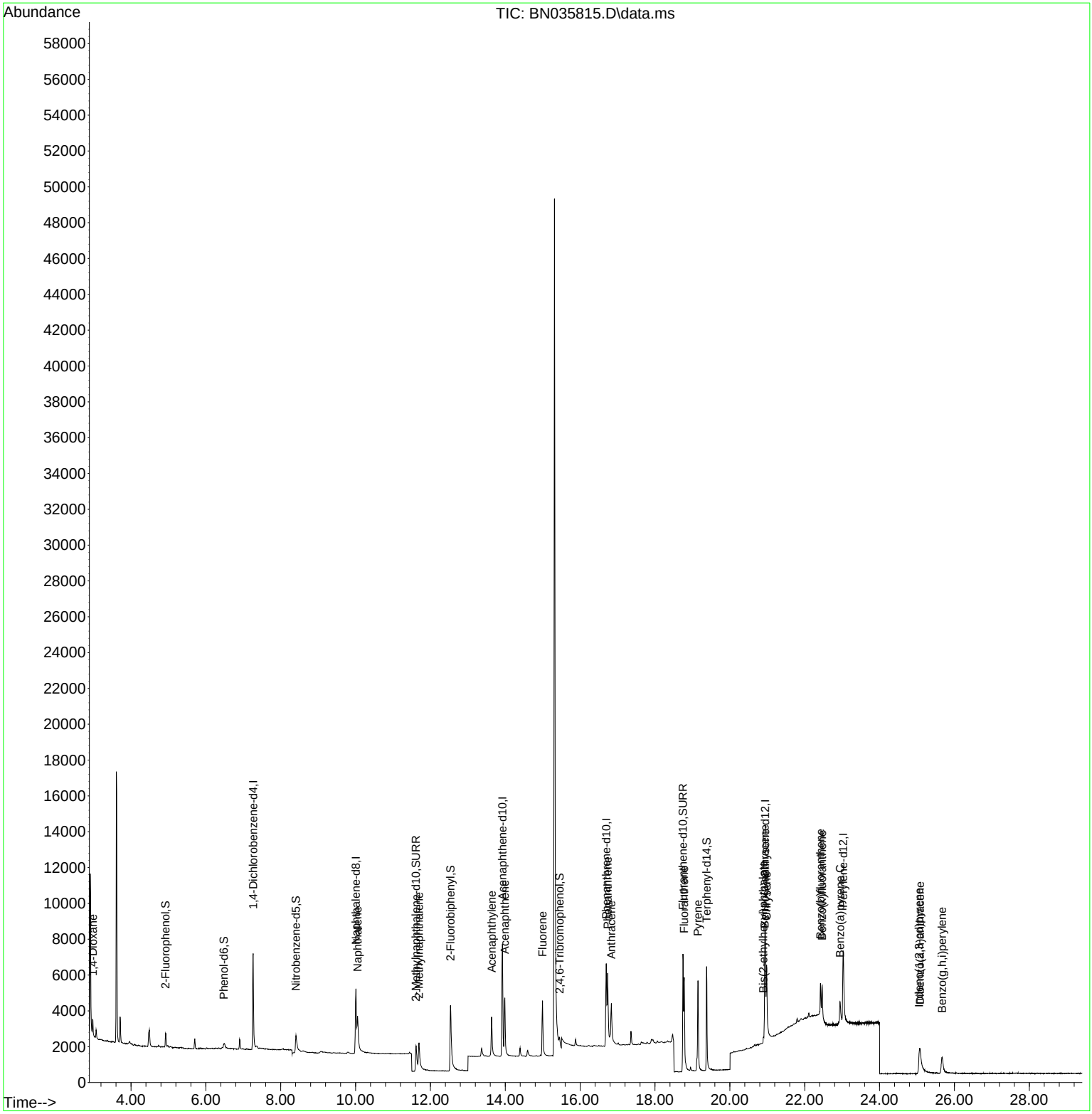
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

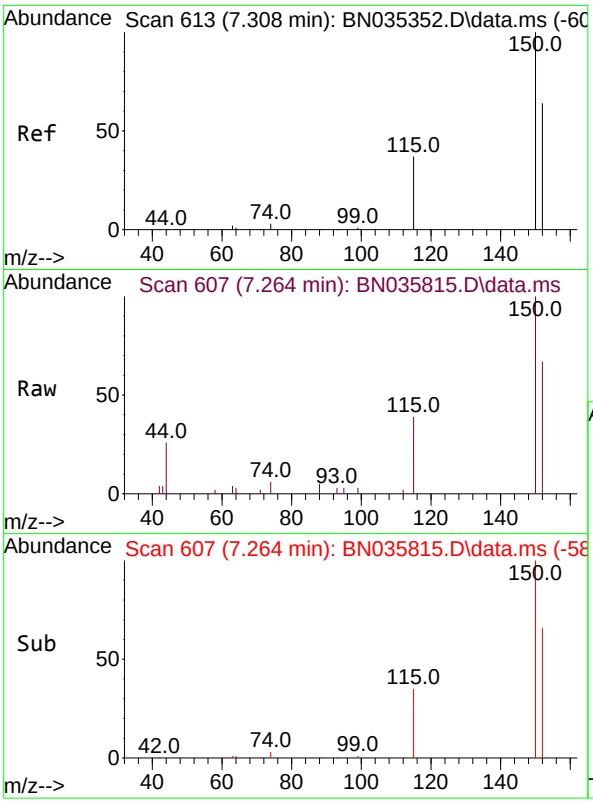
Quant Time: Dec 24 23:17:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

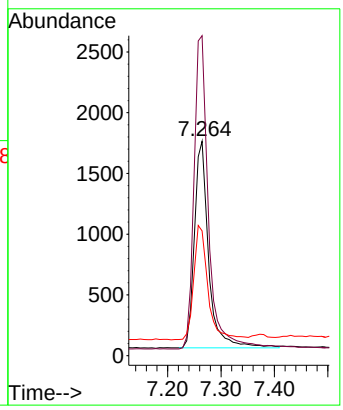




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:152 Resp: 314

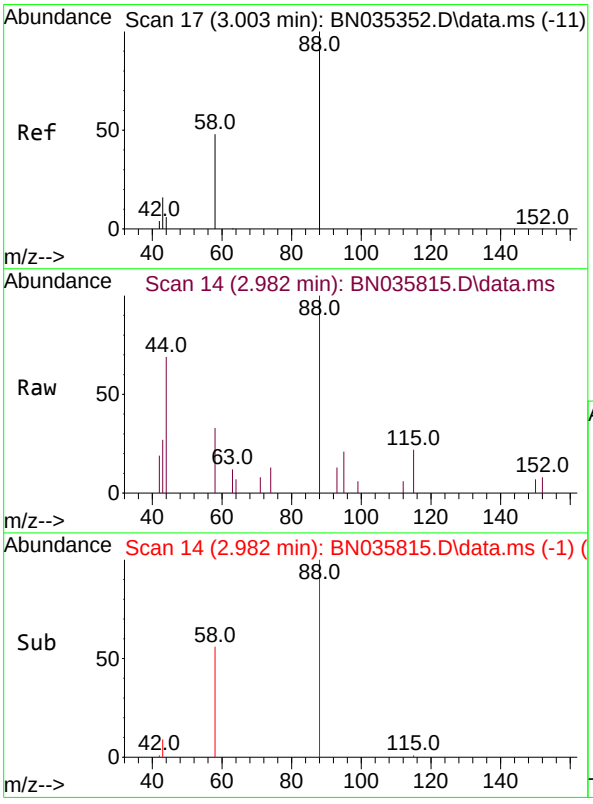
Ion	Ratio	Lower	Upper
152	100		
150	149.2	124.0	186.0
115	58.2	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
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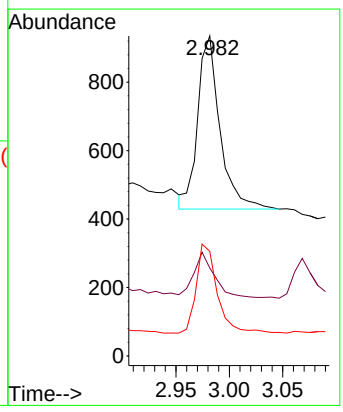
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

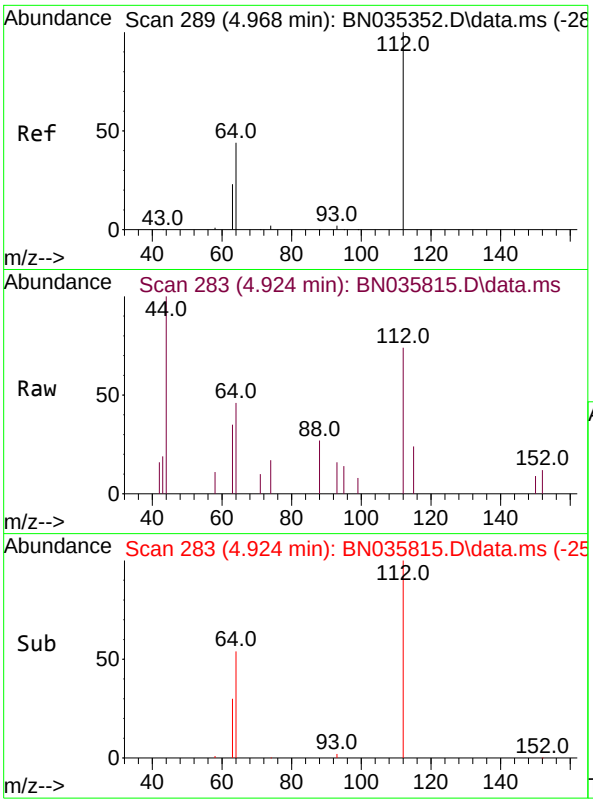


#2
1,4-Dioxane
Concen: 0.244 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 88 Resp: 735

Ion	Ratio	Lower	Upper
88	100		
43	23.5	17.2	25.8
58	48.2	44.5	66.7





#4
2-Fluorophenol
Concen: 0.099 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

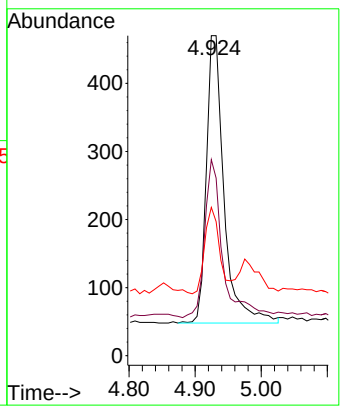
Tgt Ion:112 Resp: 78

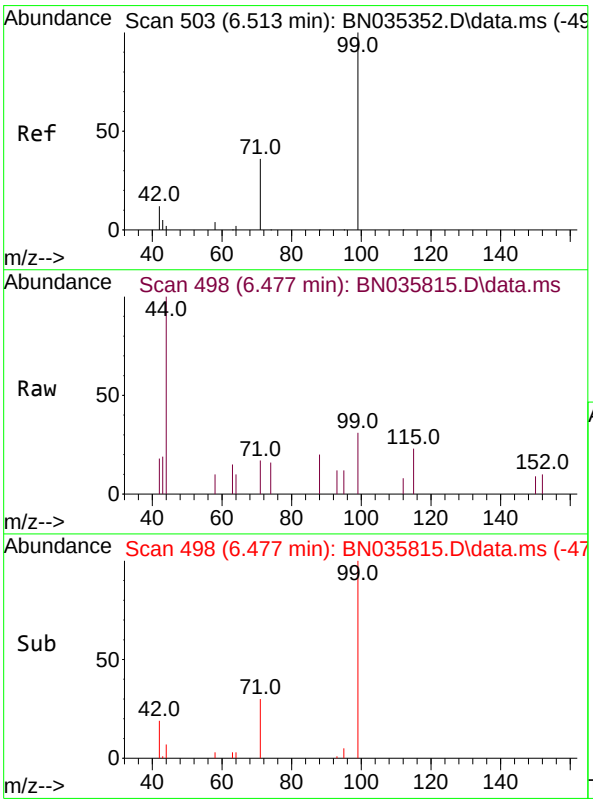
Ion	Ratio	Lower	Upper
112	100		
64	55.9	39.8	59.8
63	25.3	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

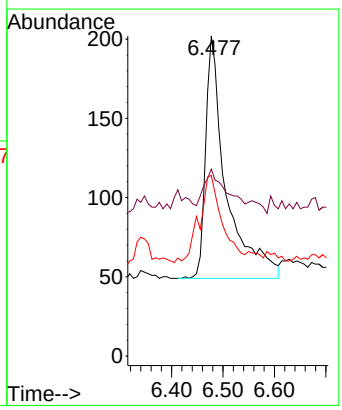


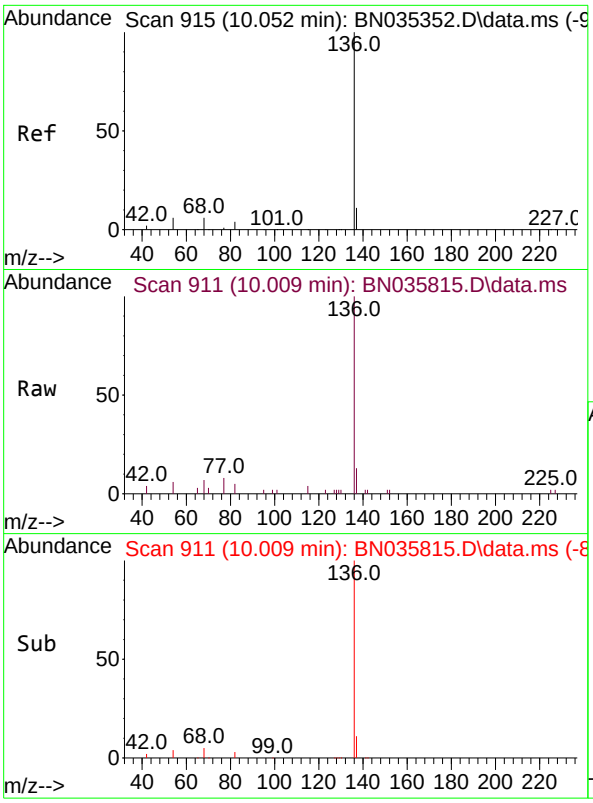


#5
Phenol-d6
Concen: 0.045 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 99 Resp: 425

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	40.0	29.3	43.9

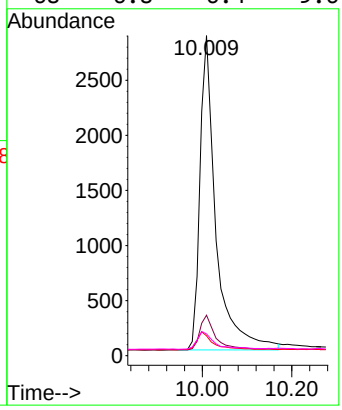




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:136 Resp: 708

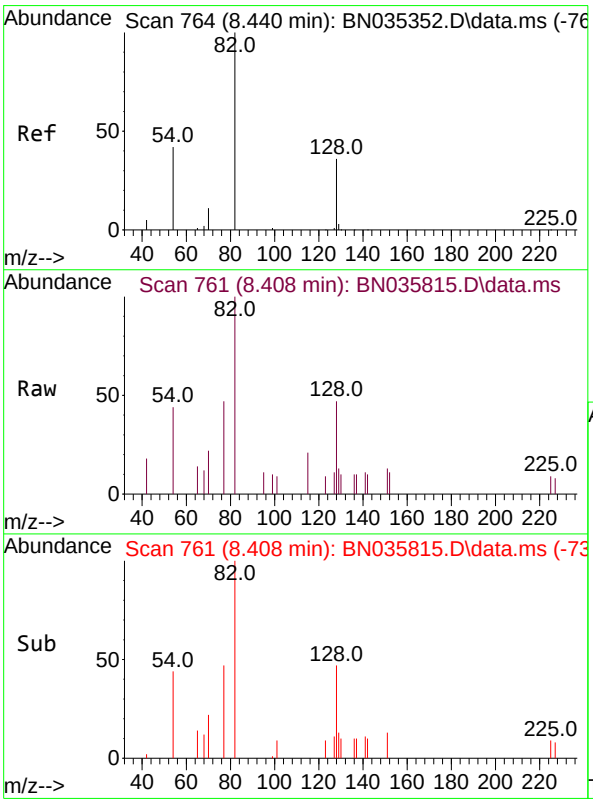
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	6.2	6.1	9.1
68	6.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
APPROVED

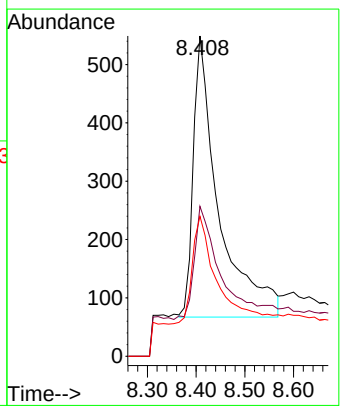
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

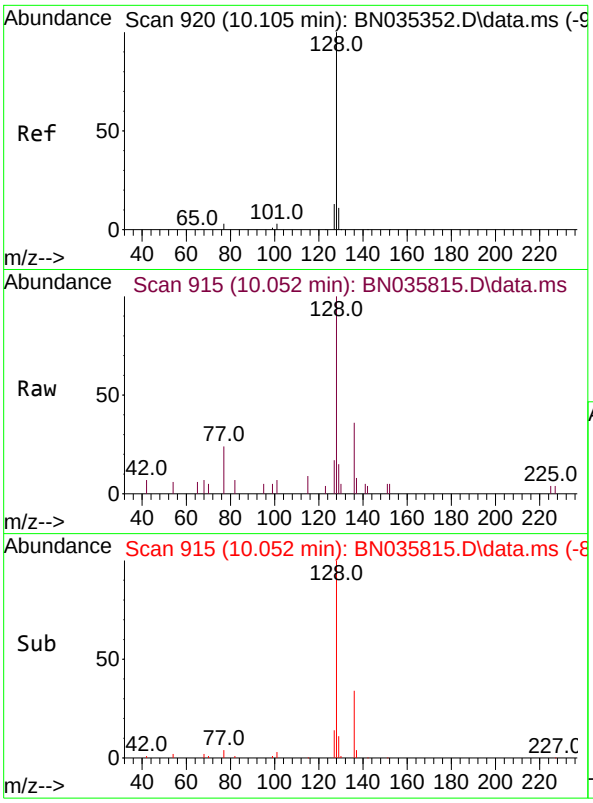


#8
Nitrobenzene-d5
Concen: 0.405 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 82 Resp: 1751

Ion	Ratio	Lower	Upper
82	100		
128	46.8	33.4	50.0
54	43.7	36.7	55.1

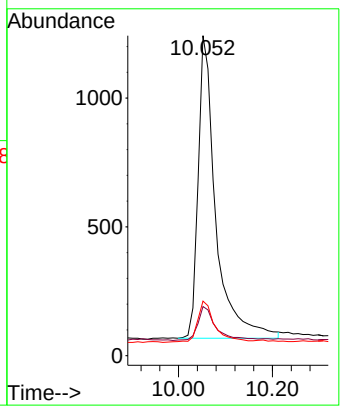




#9
Naphthalene
Concen: 0.164 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:128 Resp: 306

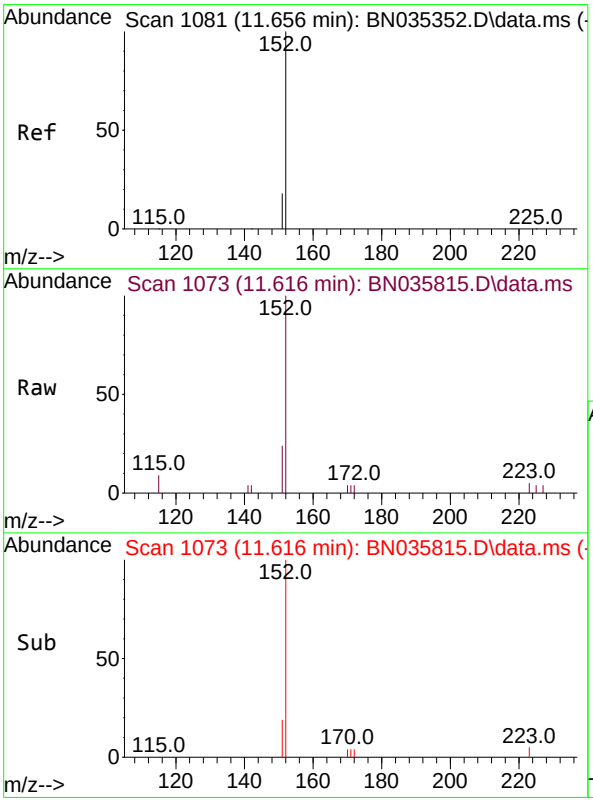
Ion	Ratio	Lower	Upper
128	100		
129	15.4	9.8	14.6
127	17.1	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
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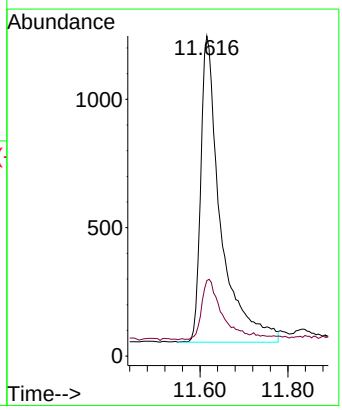
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

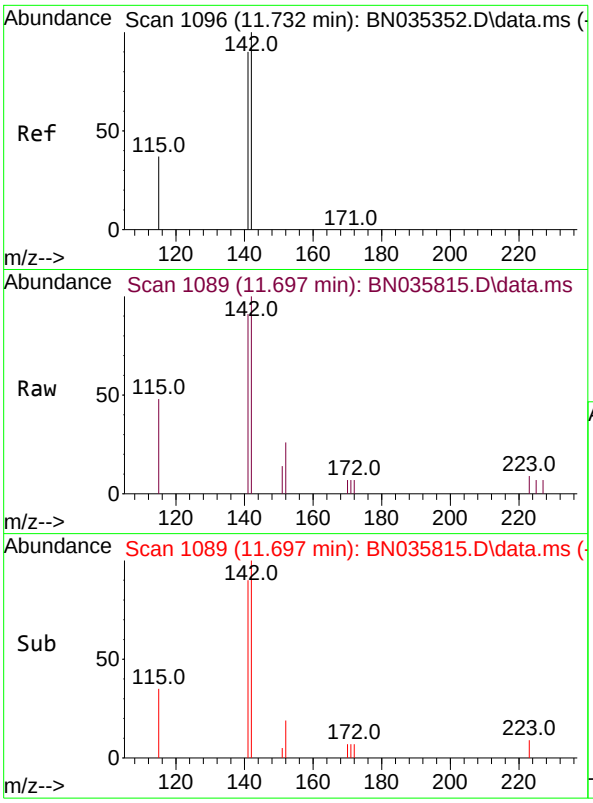


#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:152 Resp: 3733

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.6	25.0

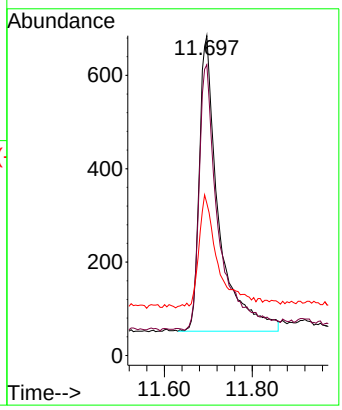




#12
2-Methylnaphthalene
Concen: 0.145 ng
RT: 11.697 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

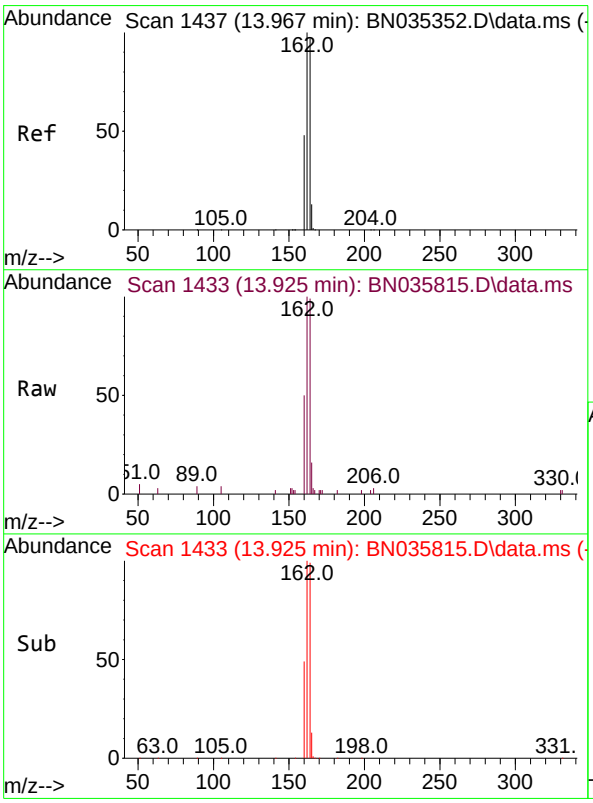
Tgt Ion:142 Resp: 193

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	47.6	31.4	47.0



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

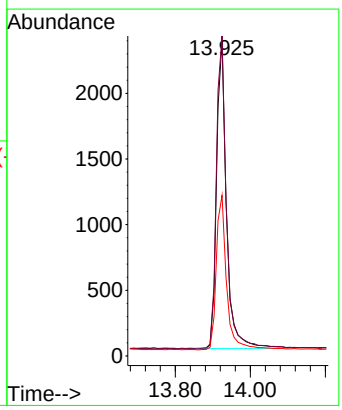
Manual Integrations
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Supervised By :mohammad ahmed 12/26/2024

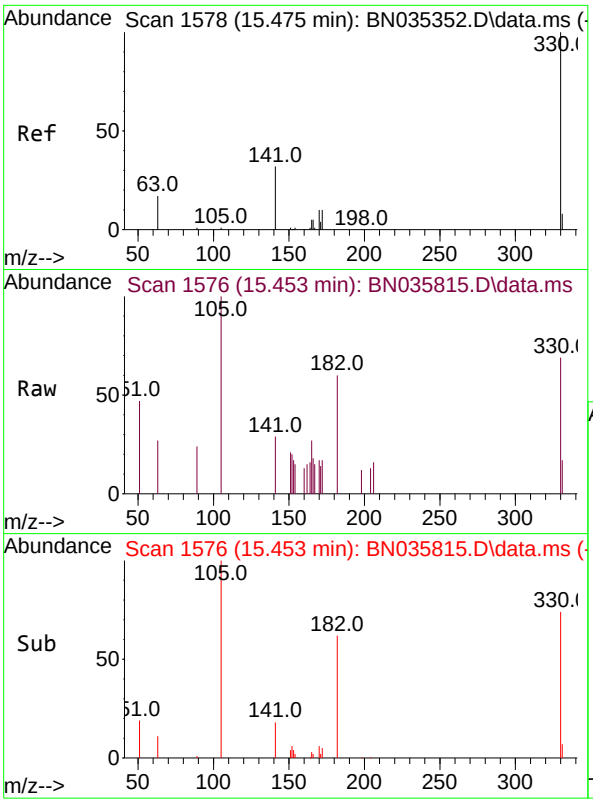


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:164 Resp: 4334

Ion	Ratio	Lower	Upper
164	100		
162	101.3	82.2	123.2
160	50.9	40.1	60.1

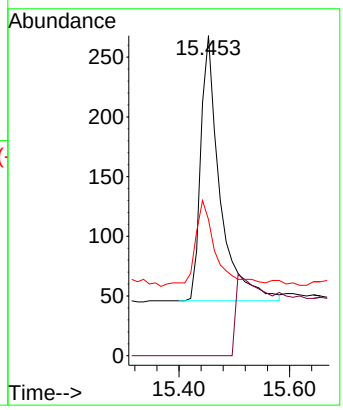




#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

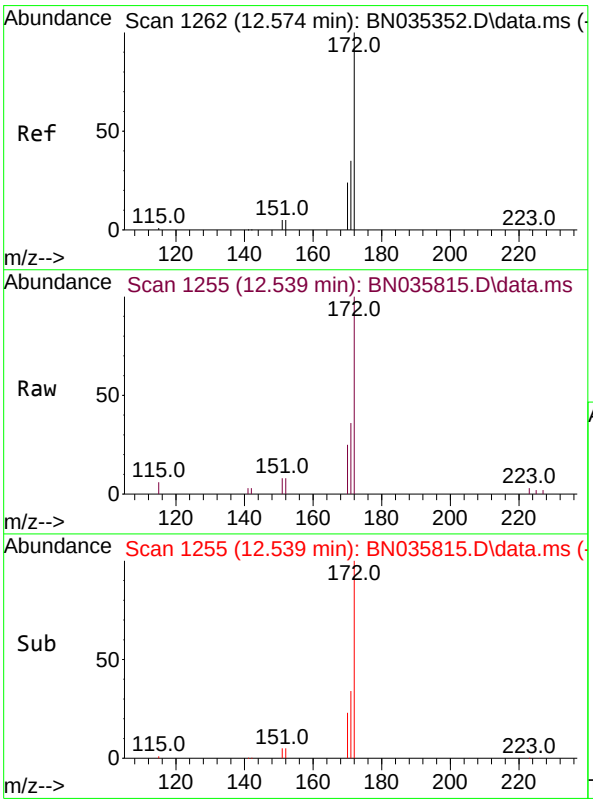
Tgt Ion:330 Resp: 55

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.7	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

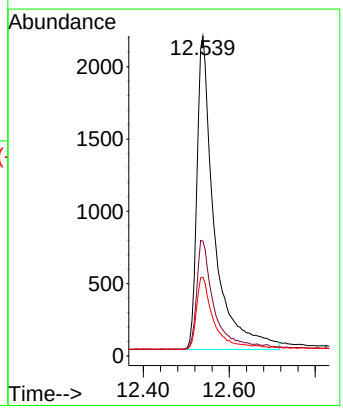
Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

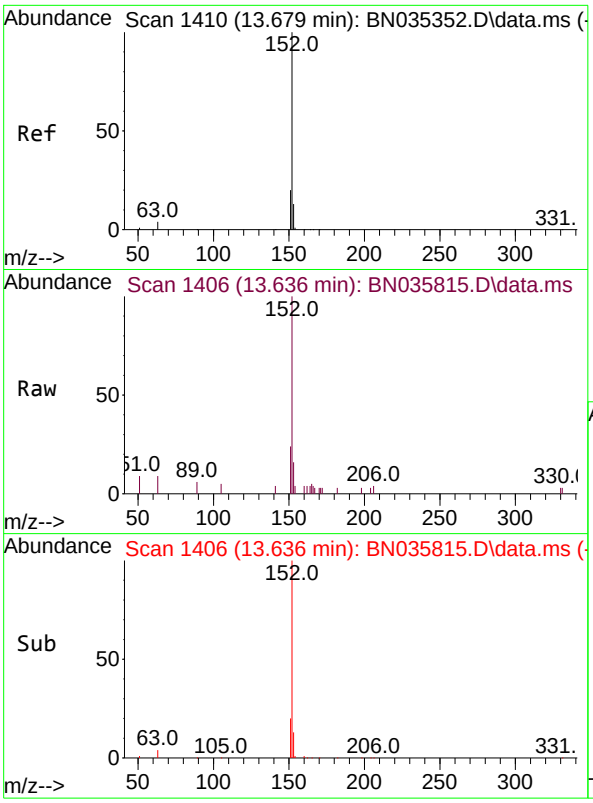


#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:172 Resp: 6086

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	24.6	19.8	29.8

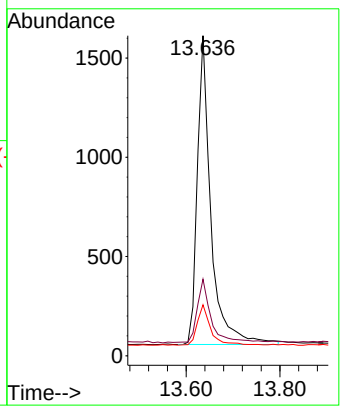




#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:152 Resp: 313

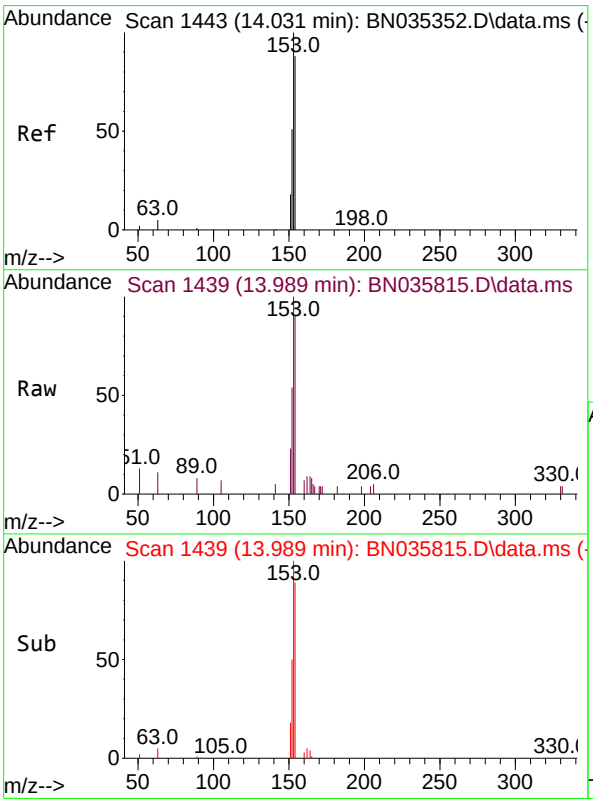
Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.2	24.2
153	12.7	10.4	15.6



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
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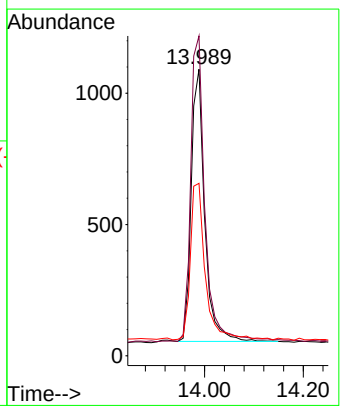
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

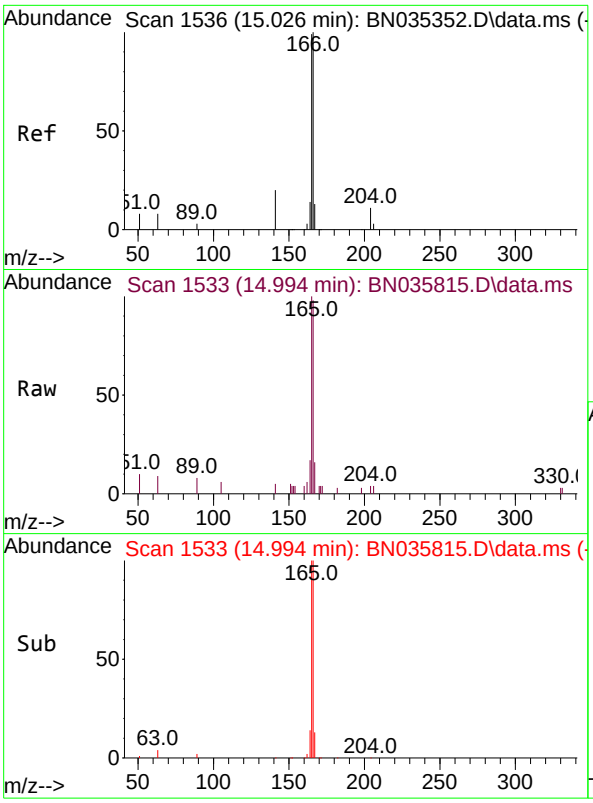


#17
Acenaphthene
Concen: 0.162 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:154 Resp: 1954

Ion	Ratio	Lower	Upper
154	100		
153	119.7	92.6	139.0
152	64.0	49.0	73.6

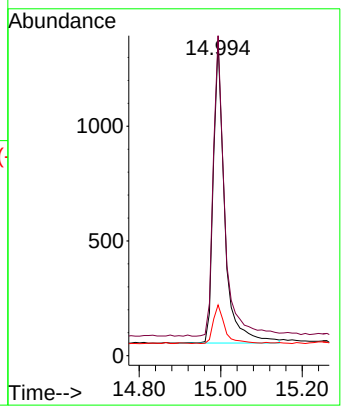




#18
Fluorene
Concen: 0.147 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:166 Resp: 254

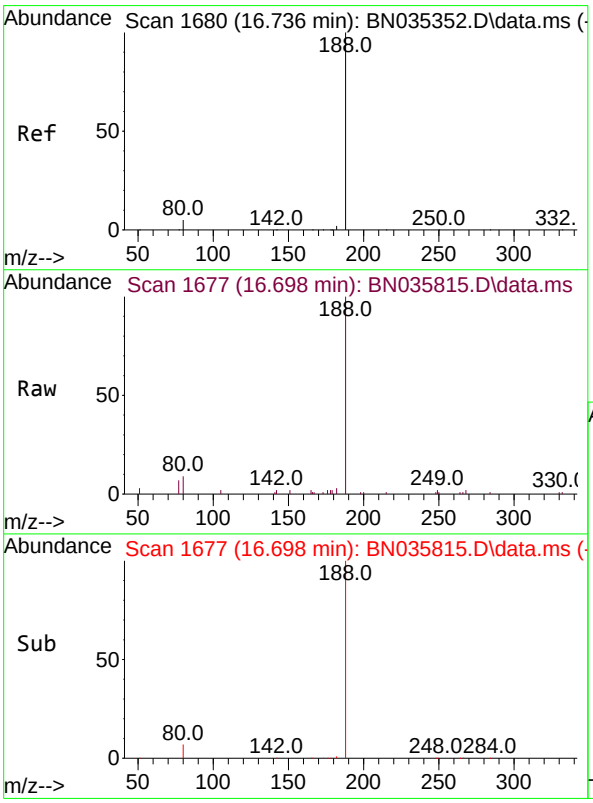
Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.7	119.5
167	12.9	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
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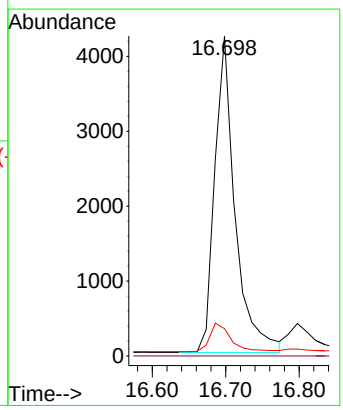
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

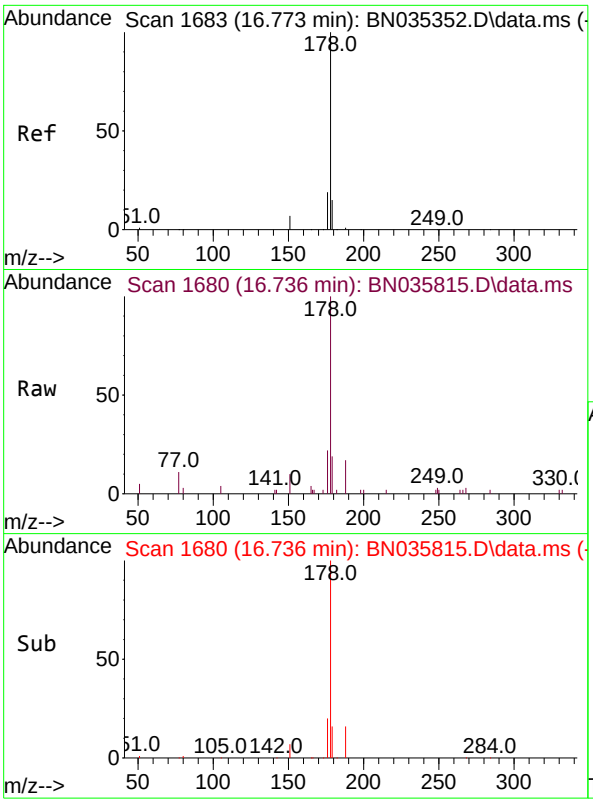


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:188 Resp: 8132

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	4.6	6.8#

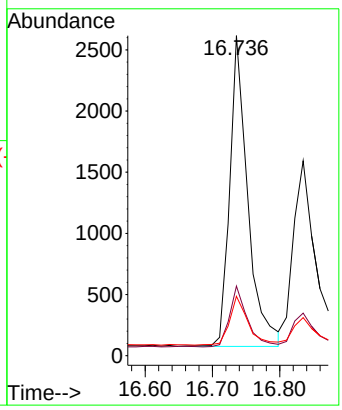




#25
Phenanthrene
Concen: 0.213 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:178 Resp: 474

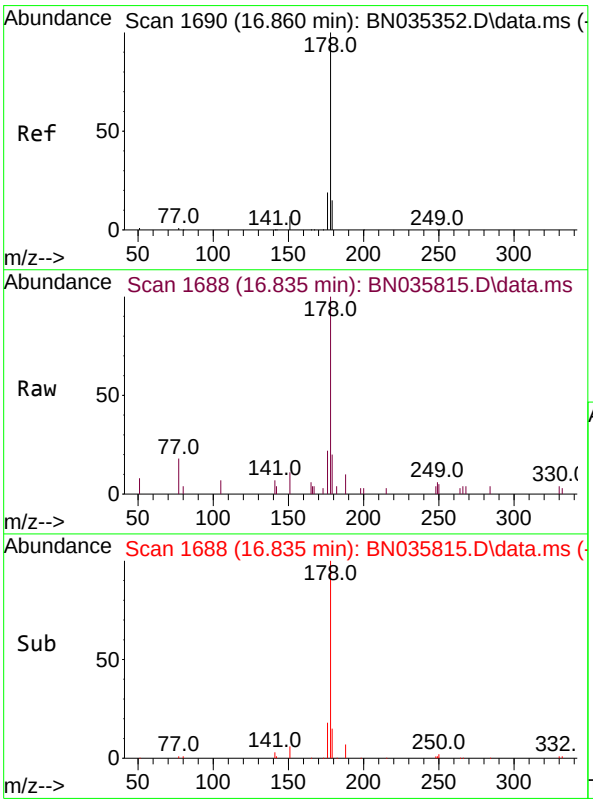
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	16.1	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
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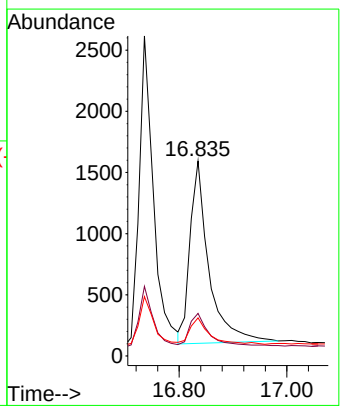
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

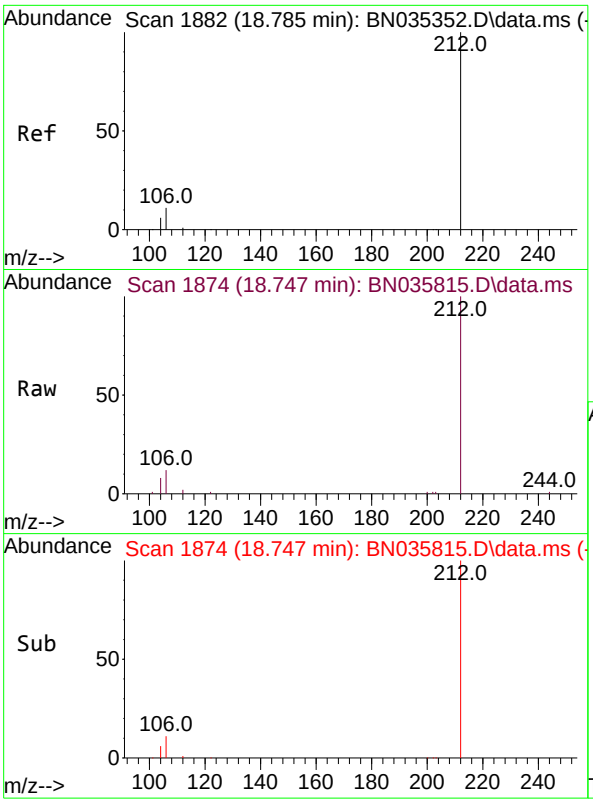


#26
Anthracene
Concen: 0.179 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:178 Resp: 3615

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.4	12.6	18.8

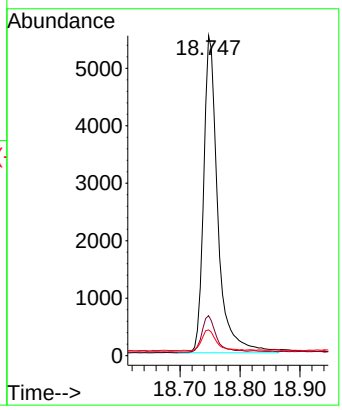




#27
Fluoranthene-d10
Concen: 0.394 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:212 Resp: 908

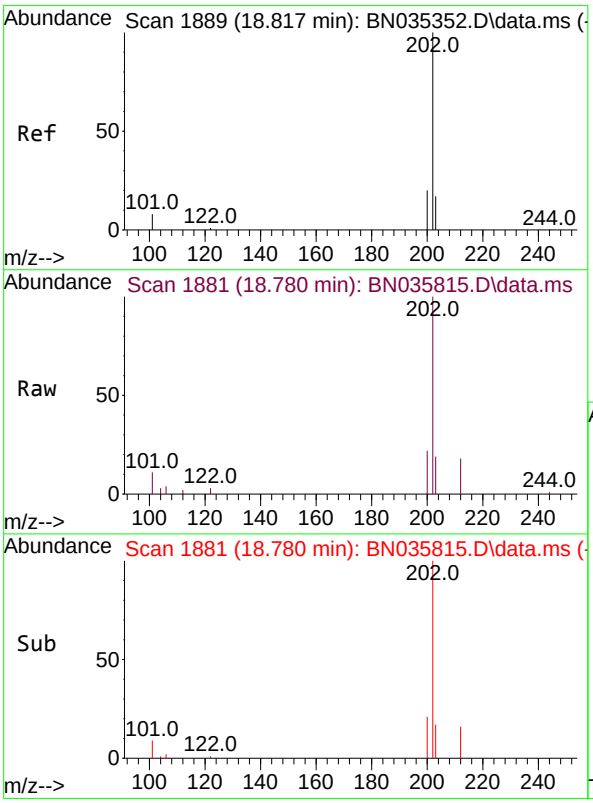
Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.7	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
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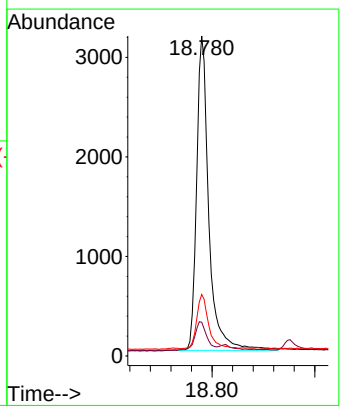
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

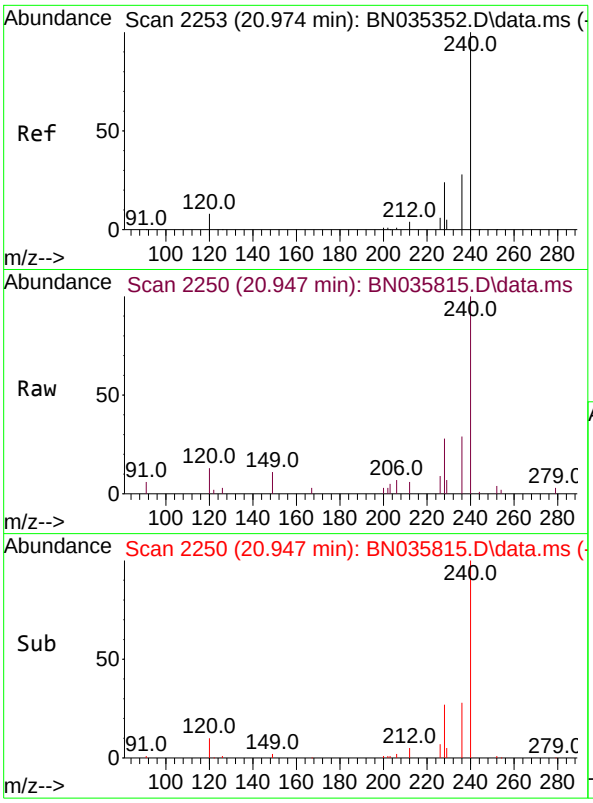


#28
Fluoranthene
Concen: 0.173 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:202 Resp: 5217

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	17.1	13.7	20.5

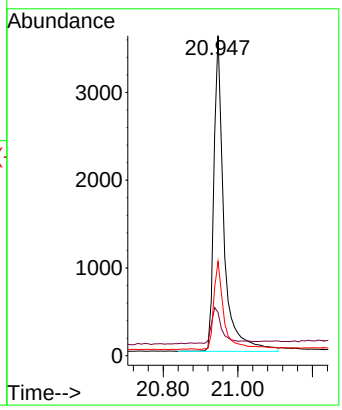




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:240 Resp: 672

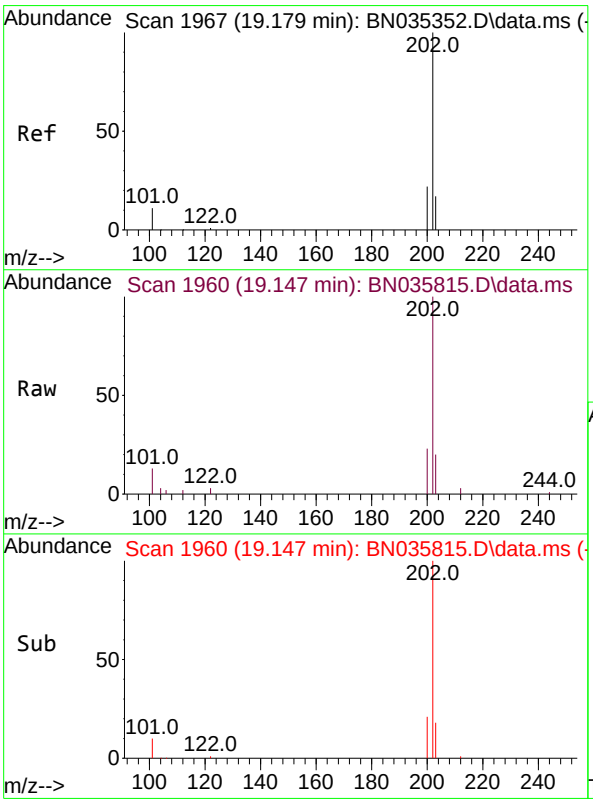
Ion	Ratio	Lower	Upper
240	100		
120	13.5	7.9	11.9
236	29.4	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations APPROVED

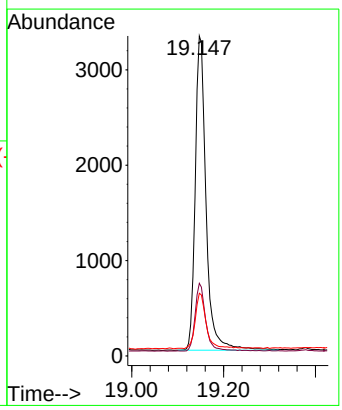
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

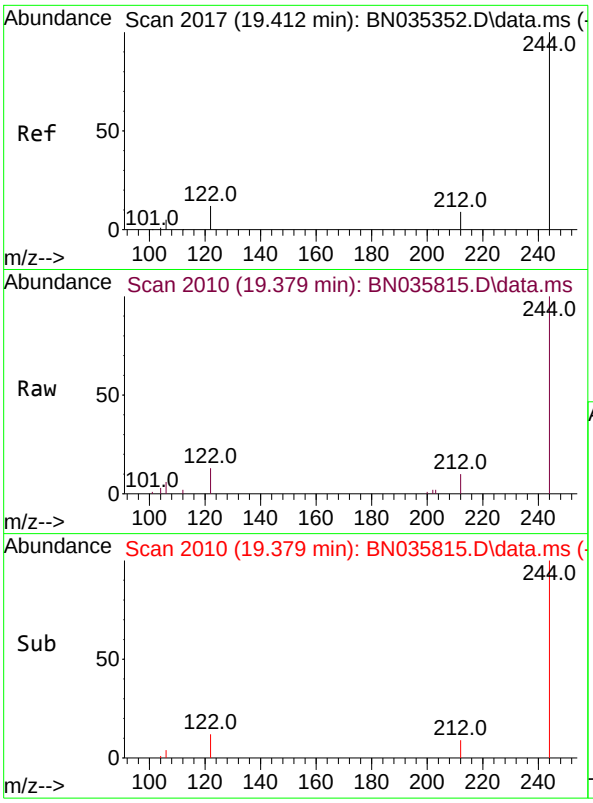


#30
Pyrene
Concen: 0.217 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:202 Resp: 5398

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.3	14.3	21.5

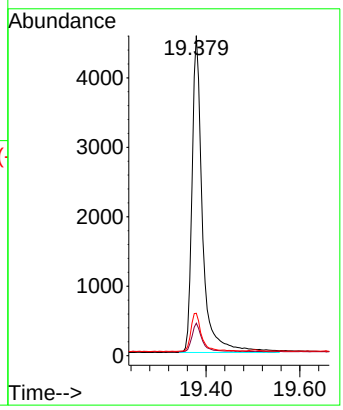




#31
Terphenyl-d14
Concen: 0.536 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:244 Resp: 711

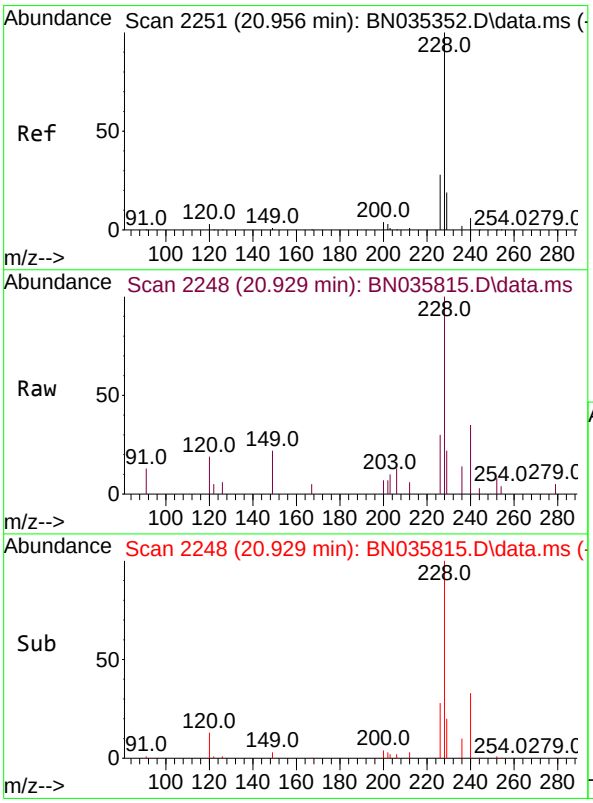
Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	13.2	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
APPROVED

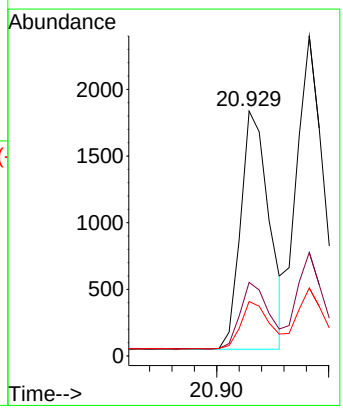
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

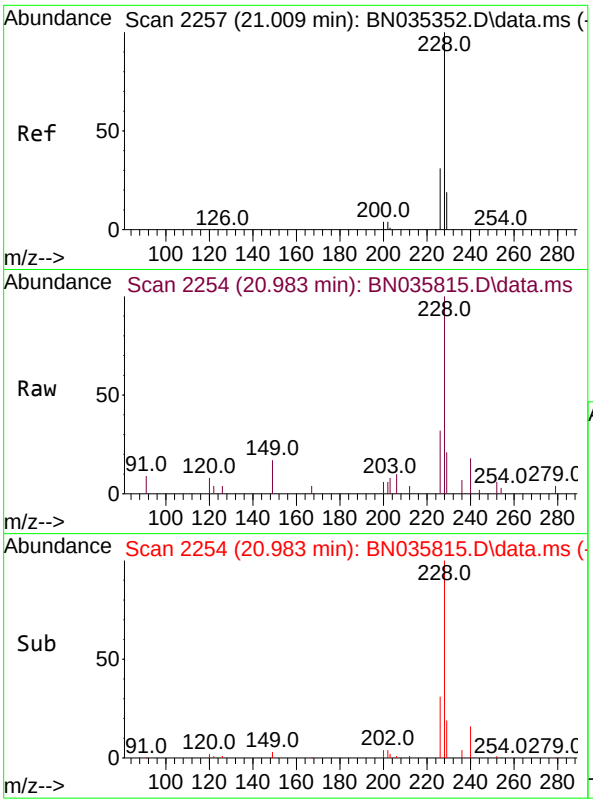


#32
Benzo(a)anthracene
Concen: 0.134 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:228 Resp: 3164

Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.5	33.7
229	22.2	15.8	23.8

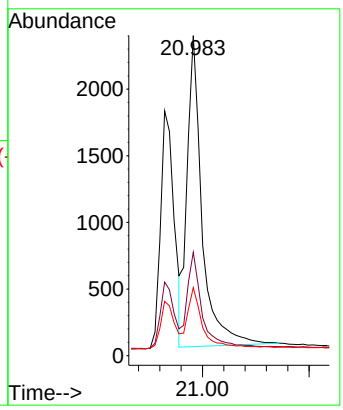




#33
Chrysene
Concen: 0.187 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

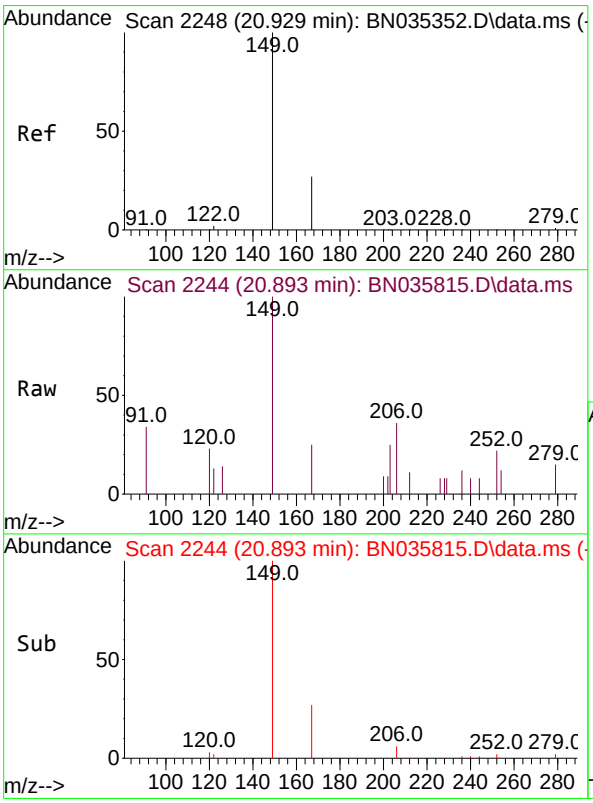
Tgt Ion:228 Resp: 452

Ion	Ratio	Lower	Upper
228	100		
226	32.4	24.6	37.0
229	21.2	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

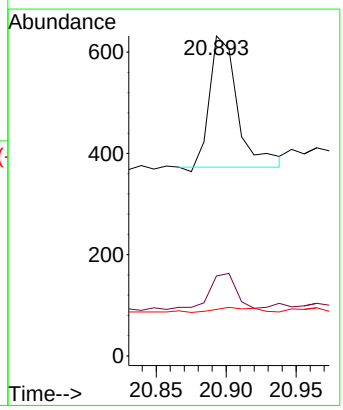
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

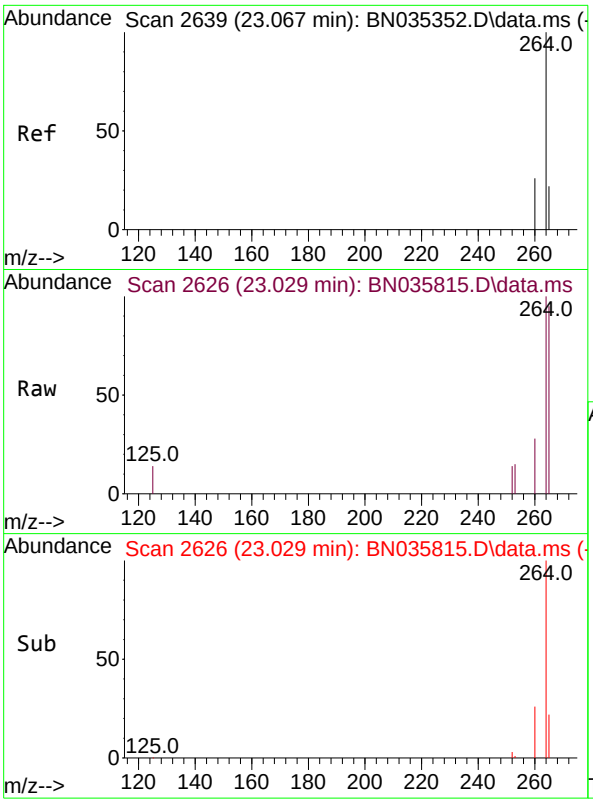


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.038 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:149 Resp: 357

Ion	Ratio	Lower	Upper
149	100		
167	26.9	22.2	33.4
279	4.5	2.7	4.1#

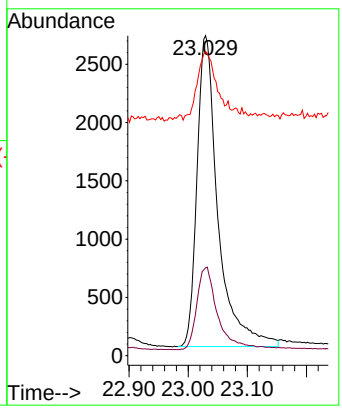




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:264 Resp: 658

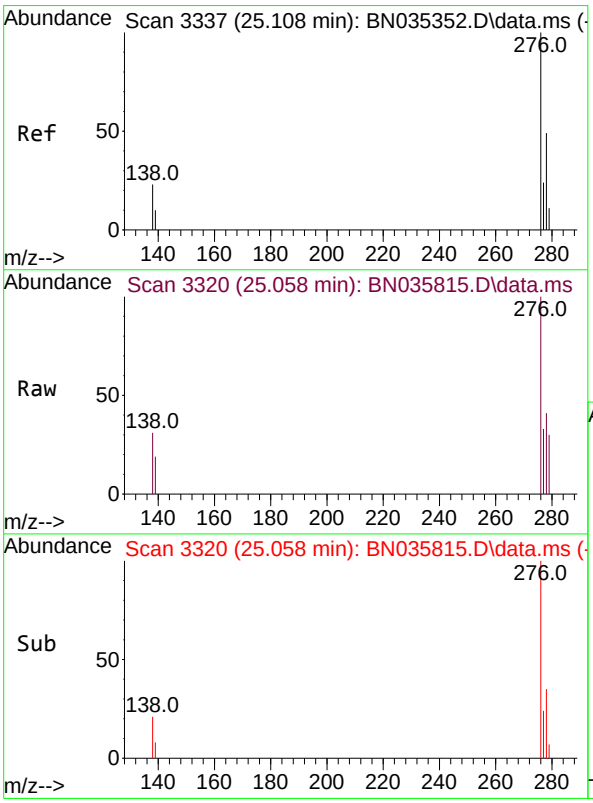
Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	95.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
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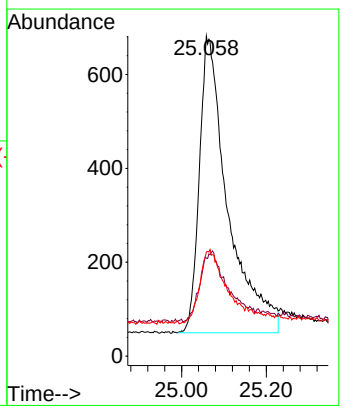
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

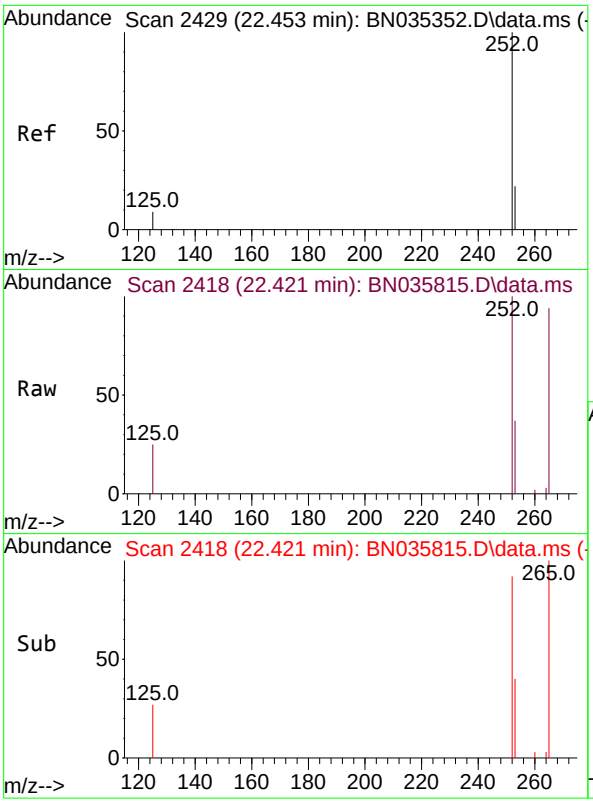


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.115 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:276 Resp: 2949

Ion	Ratio	Lower	Upper
276	100		
138	22.4	19.4	29.0
277	22.2	19.8	29.6

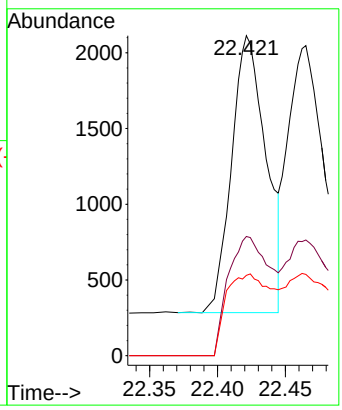




#37
Benzo(b)fluoranthene
Concen: 0.189 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 454

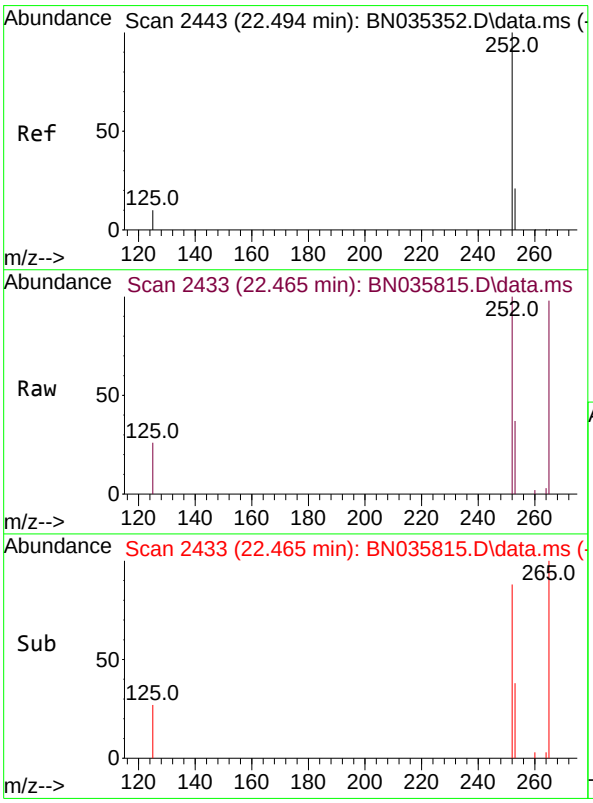
Ion	Ratio	Lower	Upper
252	100		
253	37.2	19.6	29.4#
125	25.1	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
APPROVED

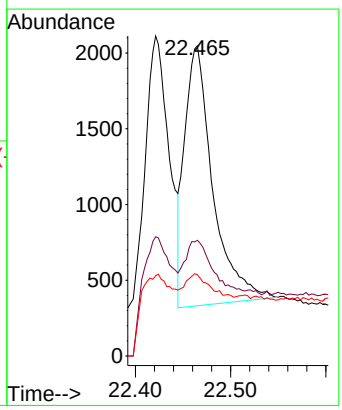
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

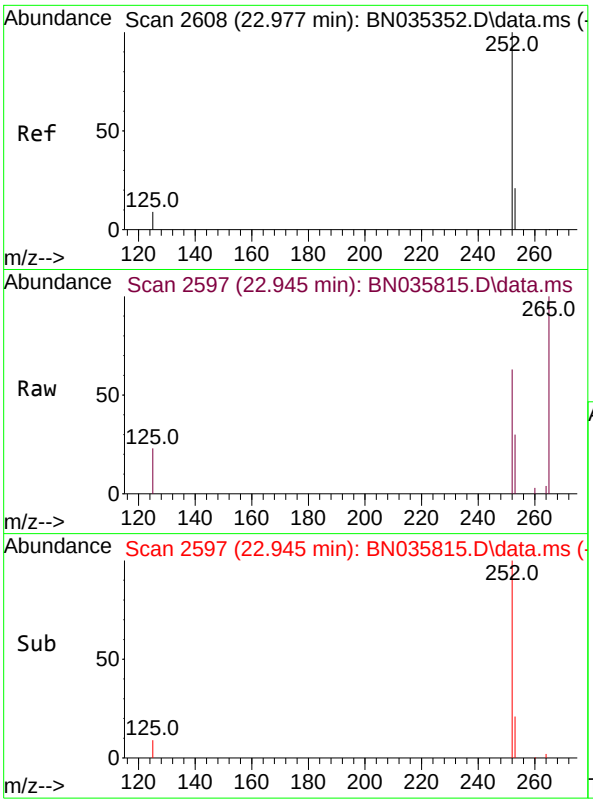


#38
Benzo(k)fluoranthene
Concen: 0.149 ng
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 3529

Ion	Ratio	Lower	Upper
252	100		
253	37.3	19.5	29.3#
125	26.2	10.2	15.4#

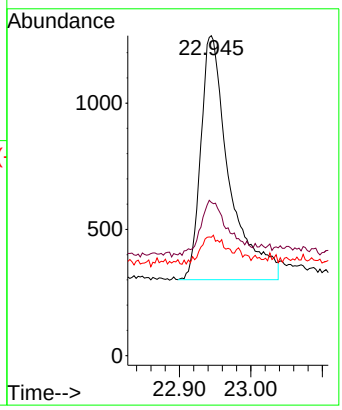




#39
Benzo(a)pyrene
Concen: 0.135 ng
RT: 22.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 267

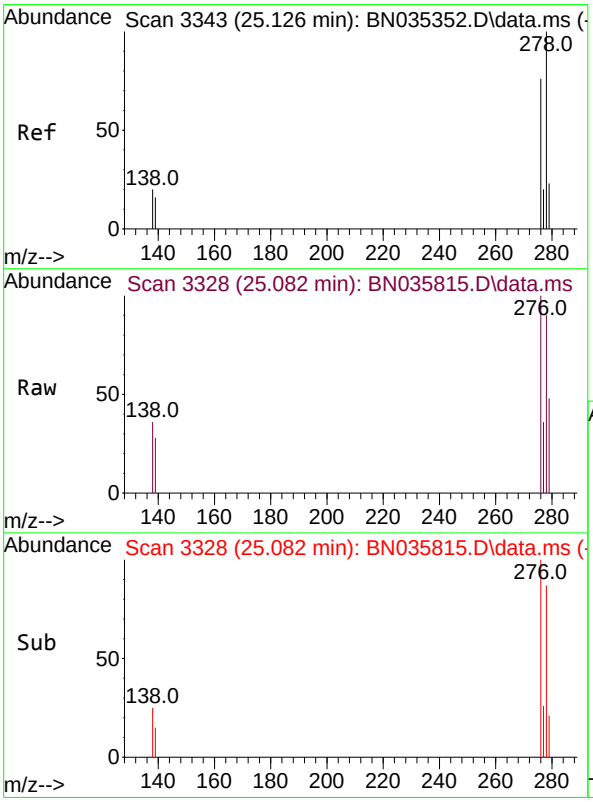
Ion	Ratio	Lower	Upper
252	100		
253	47.9	20.2	30.4#
125	37.0	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
APPROVED

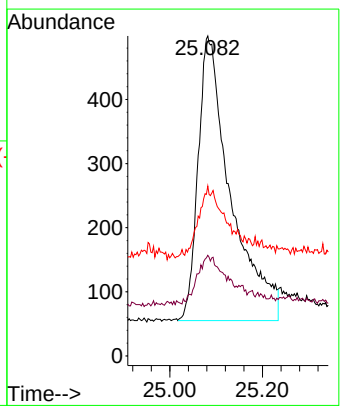
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

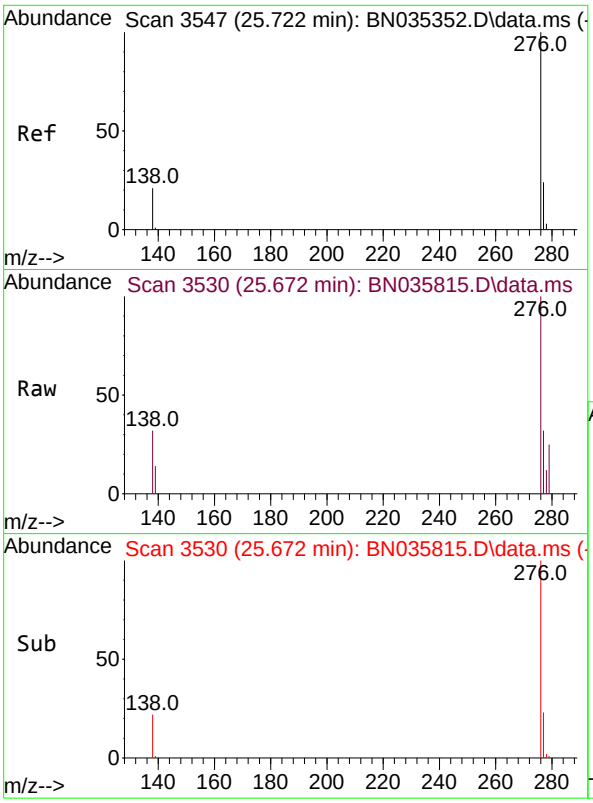


#40
Dibenzo(a,h)anthracene
Concen: 0.107 ng
RT: 25.082 min Scan# 3328
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:278 Resp: 2170

Ion	Ratio	Lower	Upper
278	100		
139	31.5	14.2	21.4#
279	53.1	20.5	30.7#

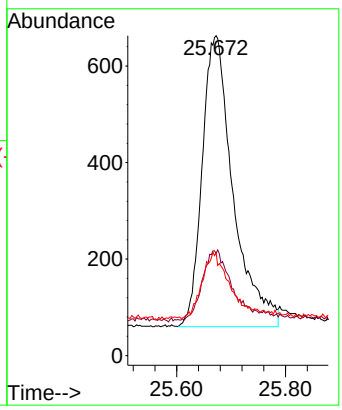




#41
Benzo(g,h,i)perylene
Concen: 0.113 ng
RT: 25.672 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:276 Resp: 239

Ion	Ratio	Lower	Upper
276	100		
277	32.0	19.9	29.9#
138	32.1	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RE115D2-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035816.D	1	12/23/24 13:29	12/24/24 11:57	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.60	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3280	7.264				
1146-65-2	Naphthalene-d8	7770	10.009				
15067-26-2	Acenaphthene-d10	4980	13.925				
1517-22-2	Phenanthrene-d10	10100	16.698				
1719-03-5	Chrysene-d12	8870	20.947				
1520-96-3	Perylene-d12	8760	23.032				

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\BN122324\
Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 24 23:17:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3275	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7772	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4979	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10106	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8871	0.400	ng	0.00
35) Perylene-d12	23.032	264	8758	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	753	0.092	ng	-0.01
5) Phenol-d6	6.477	99	383	0.039	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1575m	0.332	ng	0.00
11) 2-Methylnaphthalene-d10	11.621	152	3538	0.291	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	586	0.166	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6110	0.325	ng	0.00
27) Fluoranthene-d10	18.752	212	10407	0.363	ng	0.00
31) Terphenyl-d14	19.379	244	8030	0.459	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	23179	7.403	ng	99
6) bis(2-Chloroethyl)ether	6.723	93	310	0.037	ng	93
9) Naphthalene	10.052	128	1561	0.076	ng	# 80
12) 2-Methylnaphthalene	11.697	142	932	0.064	ng	# 87
16) Acenaphthylene	13.636	152	1554	0.074	ng	99
17) Acenaphthene	13.989	154	972	0.070	ng	97
18) Fluorene	14.994	166	1321	0.066	ng	98
25) Phenanthrene	16.736	178	2623	0.094	ng	99
26) Anthracene	16.835	178	1938	0.077	ng	98
28) Fluoranthene	18.780	202	3054	0.082	ng	99
30) Pyrene	19.152	202	3188	0.097	ng	99
32) Benzo(a)anthracene	20.929	228	1910	0.062	ng	93
33) Chrysene	20.983	228	2737	0.086	ng	94
34) Bis(2-ethylhexyl)phtha...	20.893	149	623	0.051	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.073	276	1728	0.050	ng	# 68
37) Benzo(b)fluoranthene	22.424	252	2429	0.076	ng	# 52
38) Benzo(k)fluoranthene	22.465	252	1987	0.063	ng	# 51
39) Benzo(a)pyrene	22.948	252	1503	0.057	ng	# 21
40) Dibenzo(a,h)anthracene	25.088	278	1220	0.045	ng	# 30
41) Benzo(g,h,i)perylene	25.678	276	1434	0.051	ng	# 72

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

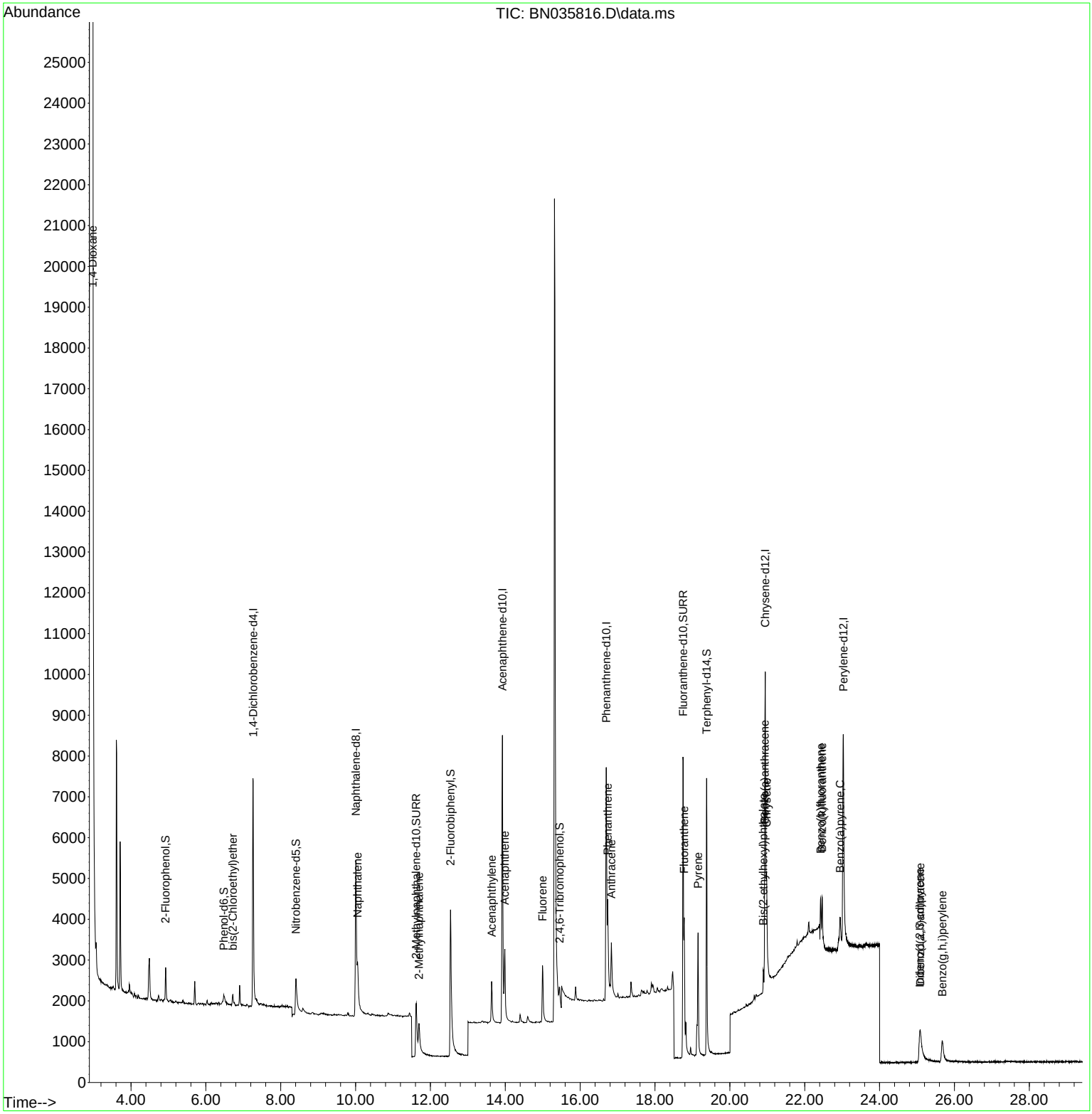
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Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

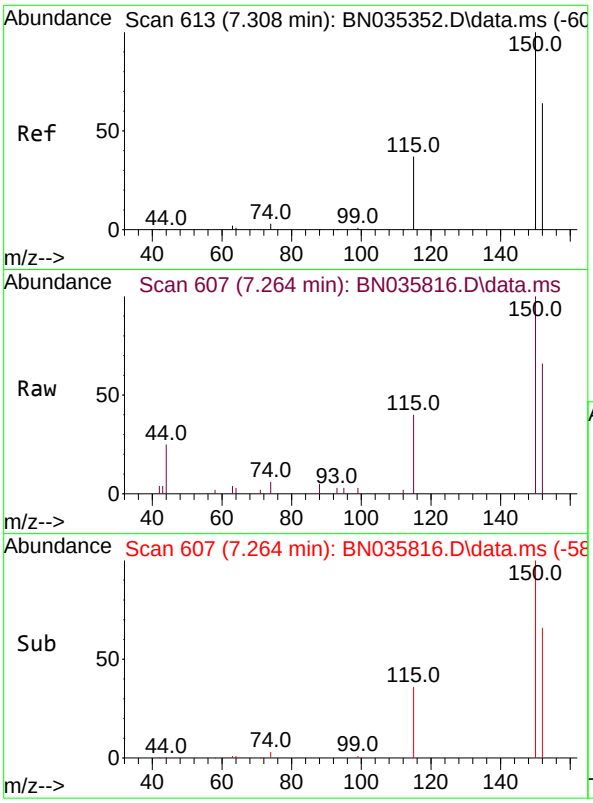
Quant Time: Dec 24 23:17:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

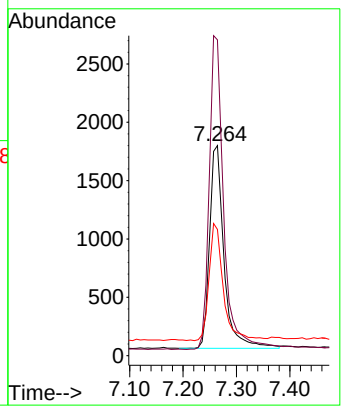




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:152 Resp: 327

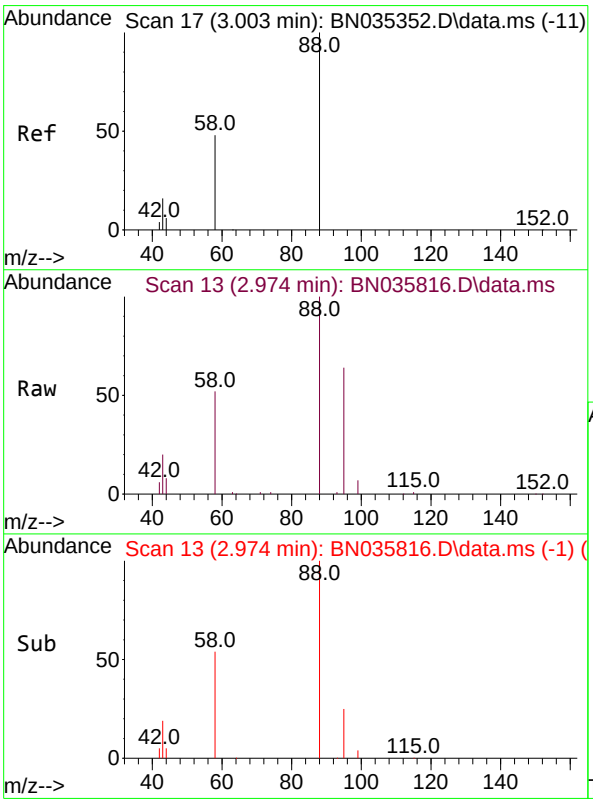
Ion	Ratio	Lower	Upper
152	100		
150	150.4	124.0	186.0
115	60.1	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
APPROVED

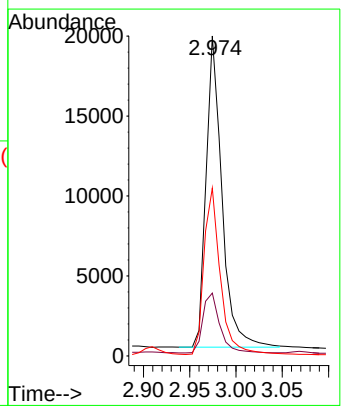
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

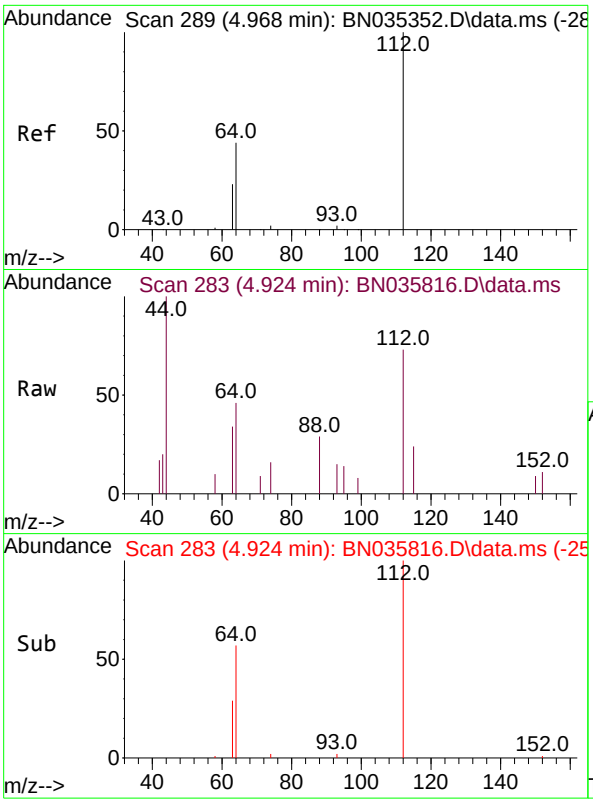


#2
1,4-Dioxane
Concen: 7.403 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 88 Resp: 23179

Ion	Ratio	Lower	Upper
88	100		
43	20.6	17.2	25.8
58	55.1	44.5	66.7





#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

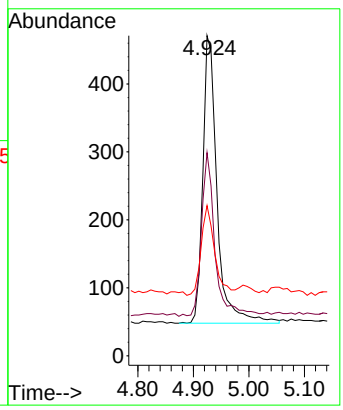
Tgt Ion:112 Resp: 75

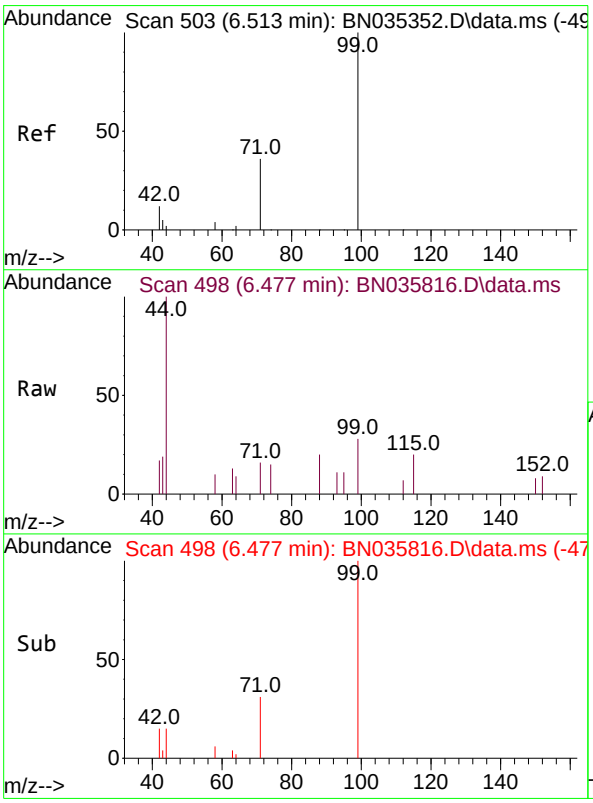
Ion	Ratio	Lower	Upper
112	100		
64	53.0	39.8	59.8
63	29.3	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

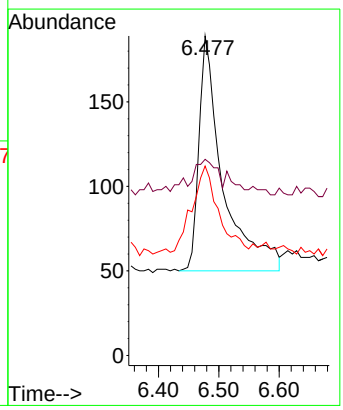


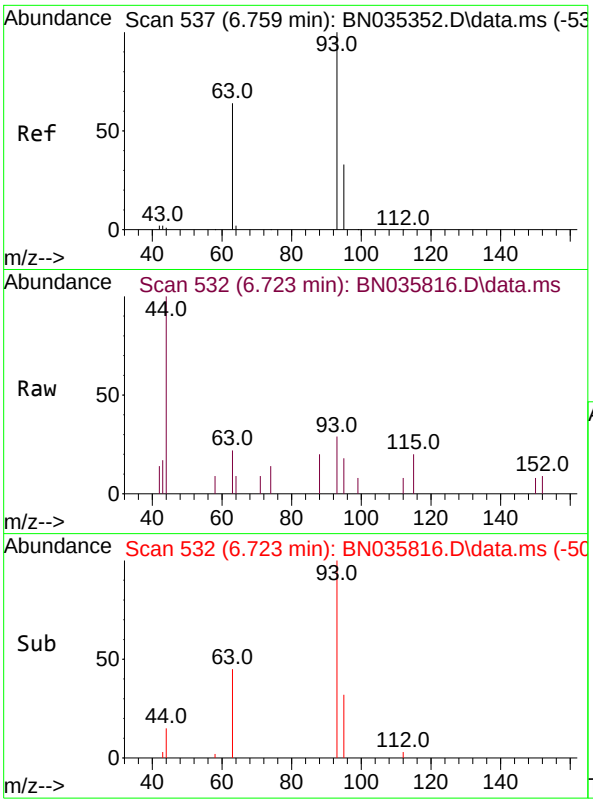


#5
Phenol-d6
Concen: 0.039 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 99 Resp: 383

Ion	Ratio	Lower	Upper
99	100		
42	13.8	11.4	17.2
71	44.4	29.3	43.9#

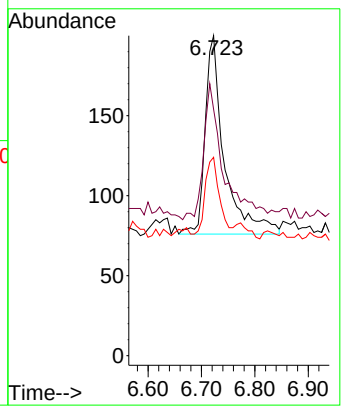




#6
bis(2-Chloroethyl)ether
Concen: 0.037 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 93 Resp: 31

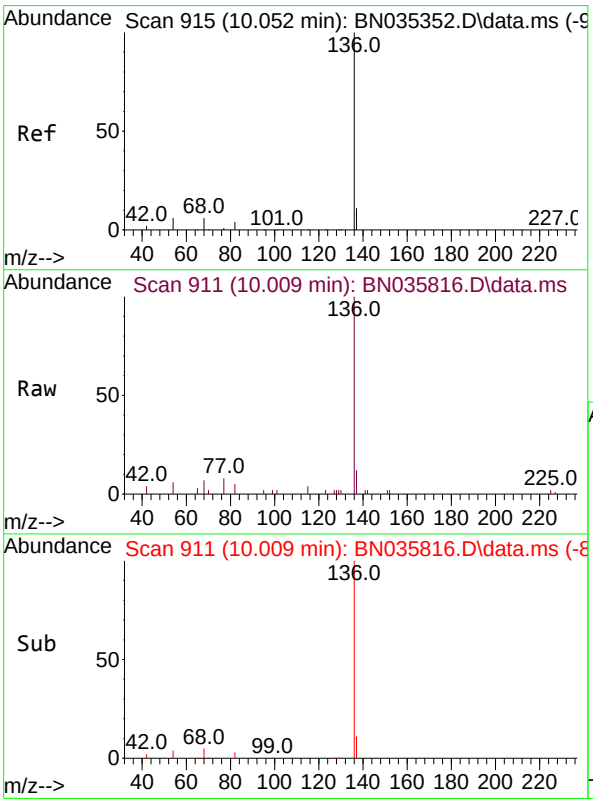
Ion	Ratio	Lower	Upper
93	100		
63	70.6	50.4	75.6
95	31.3	25.7	38.5



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
APPROVED

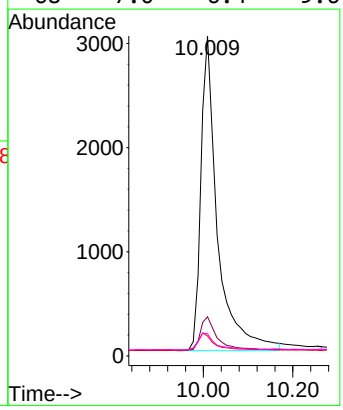
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

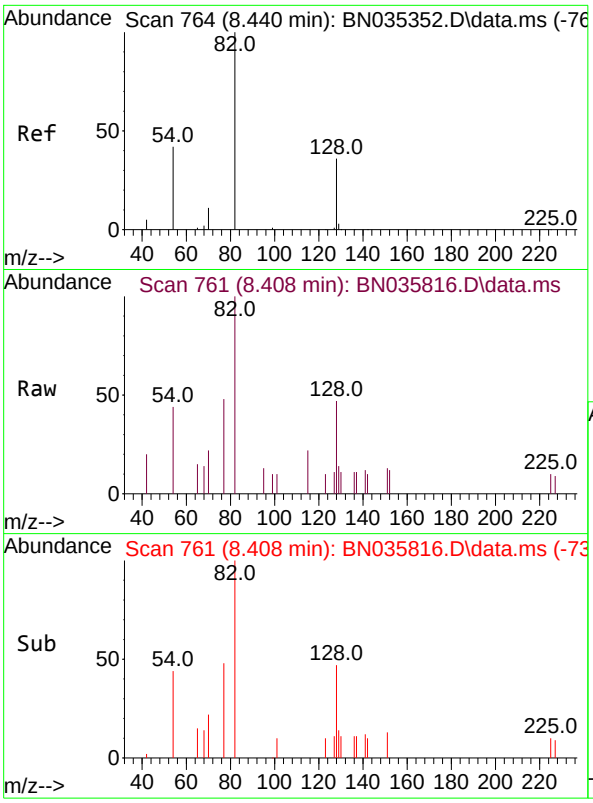


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:136 Resp: 7772

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.3	6.1	9.1
68	7.0	6.4	9.6

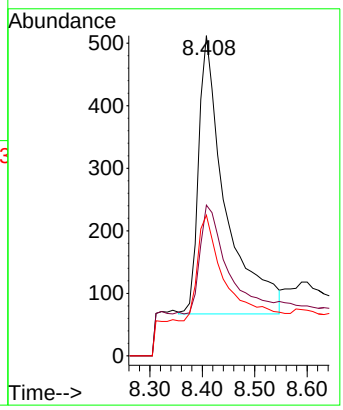




#8
Nitrobenzene-d5
Concen: 0.332 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 82 Resp: 157

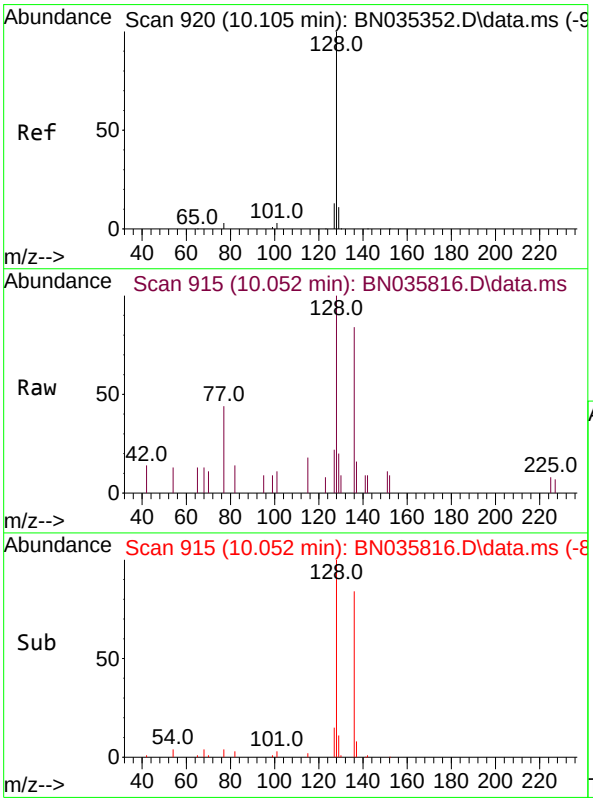
Ion	Ratio	Lower	Upper
82	100		
128	47.1	33.4	50.0
54	43.9	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
APPROVED

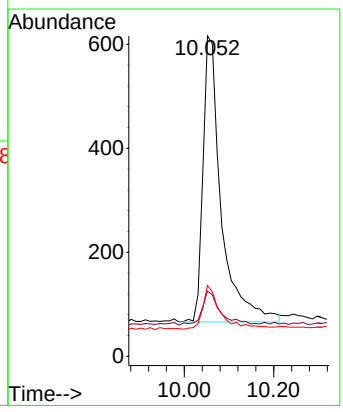
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

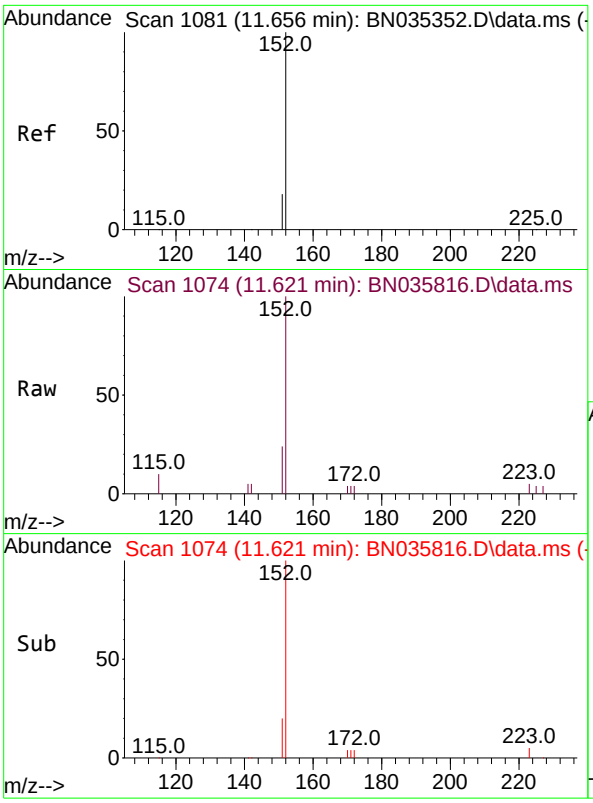


#9
Naphthalene
Concen: 0.076 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:128 Resp: 1561

Ion	Ratio	Lower	Upper
128	100		
129	20.3	9.8	14.6#
127	22.1	11.4	17.2#

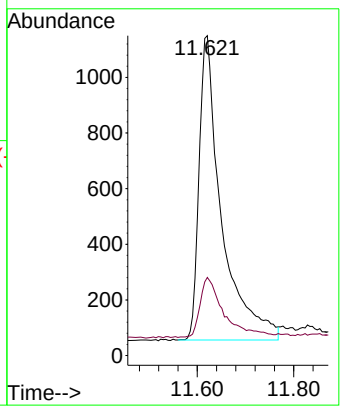




#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 11.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:152 Resp: 353

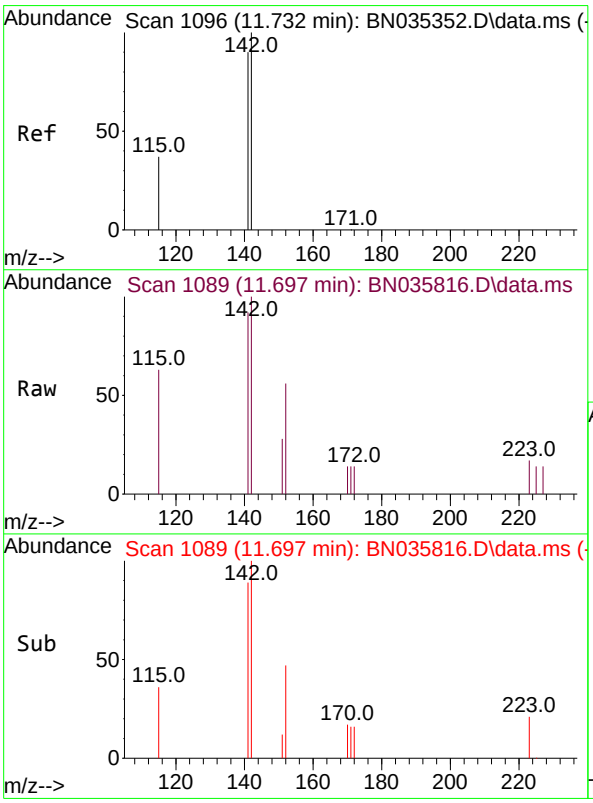
Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
APPROVED

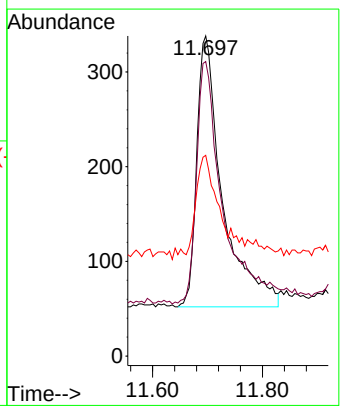
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

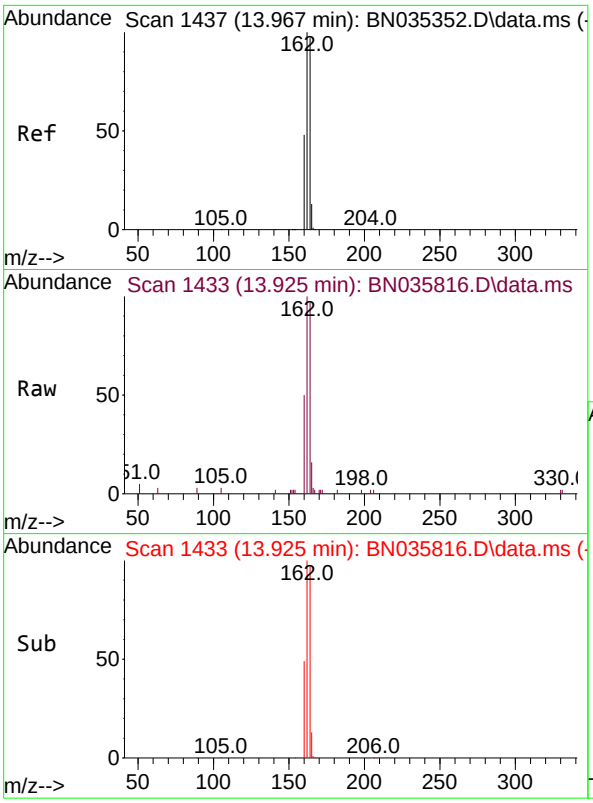


#12
2-Methylnaphthalene
Concen: 0.064 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:142 Resp: 932

Ion	Ratio	Lower	Upper
142	100		
141	92.0	72.2	108.4
115	62.7	31.4	47.0#

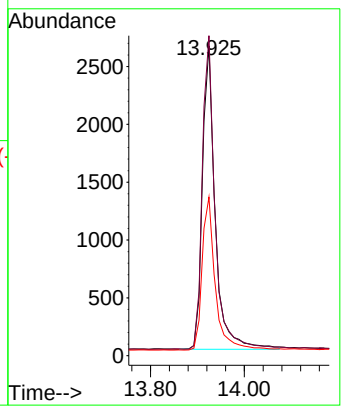




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:164 Resp: 497

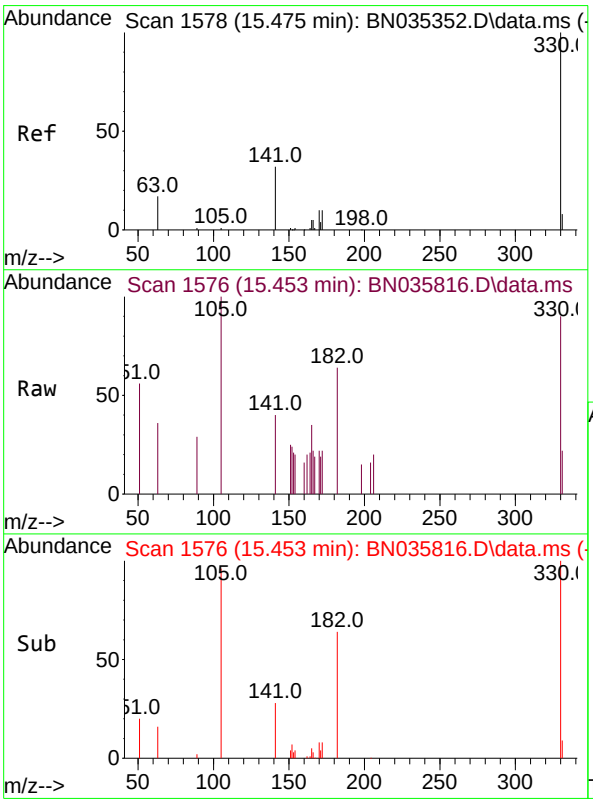
Ion	Ratio	Lower	Upper
164	100		
162	103.3	82.2	123.2
160	51.2	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
APPROVED

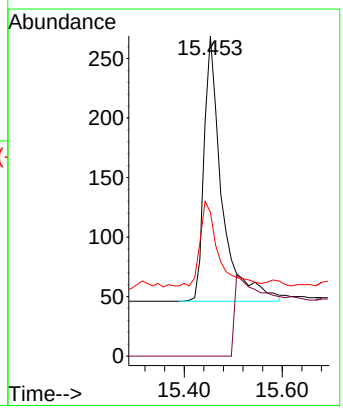
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

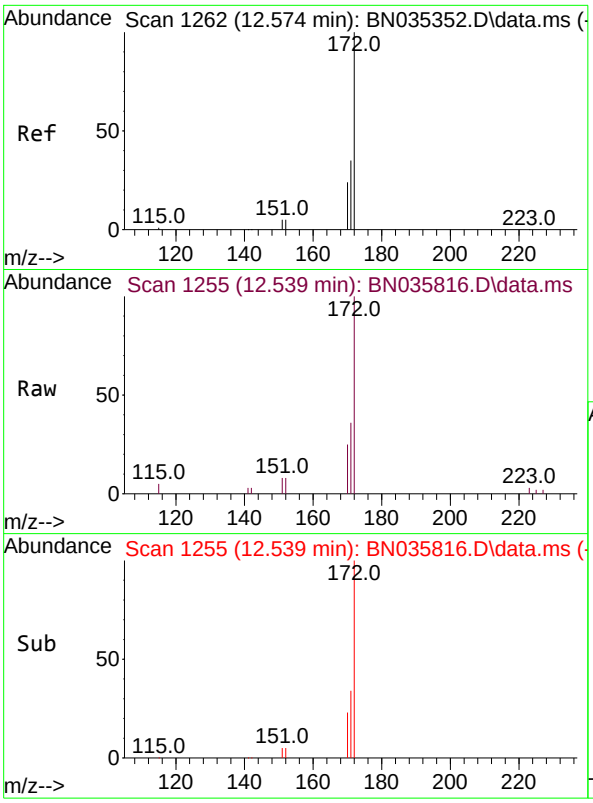


#14
2,4,6-Tribromophenol
Concen: 0.166 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:330 Resp: 586

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.6	26.6	40.0

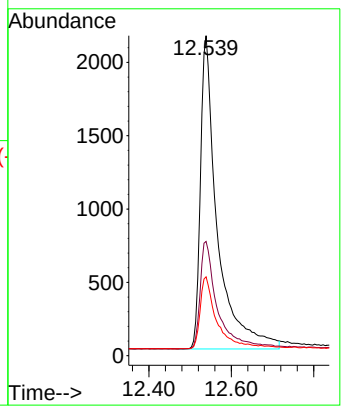




#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:172 Resp: 611

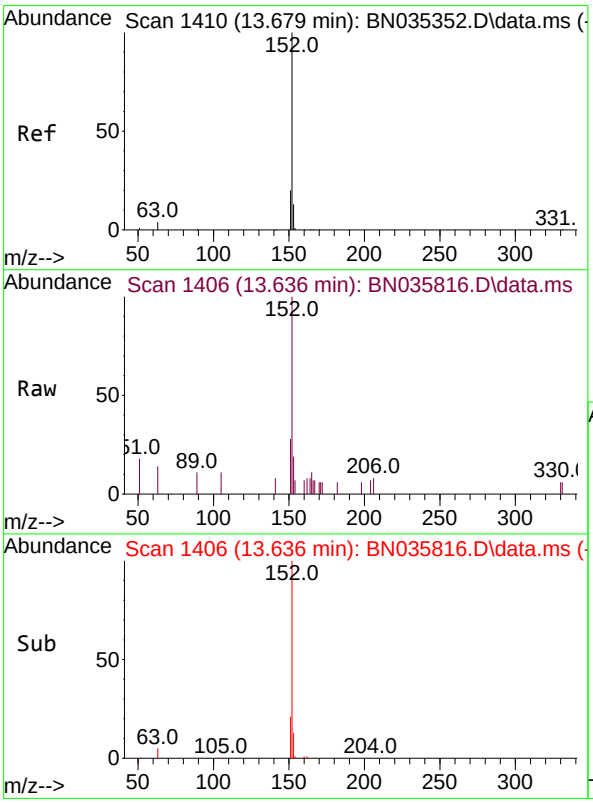
Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
APPROVED

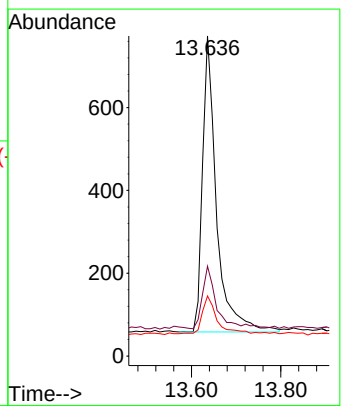
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

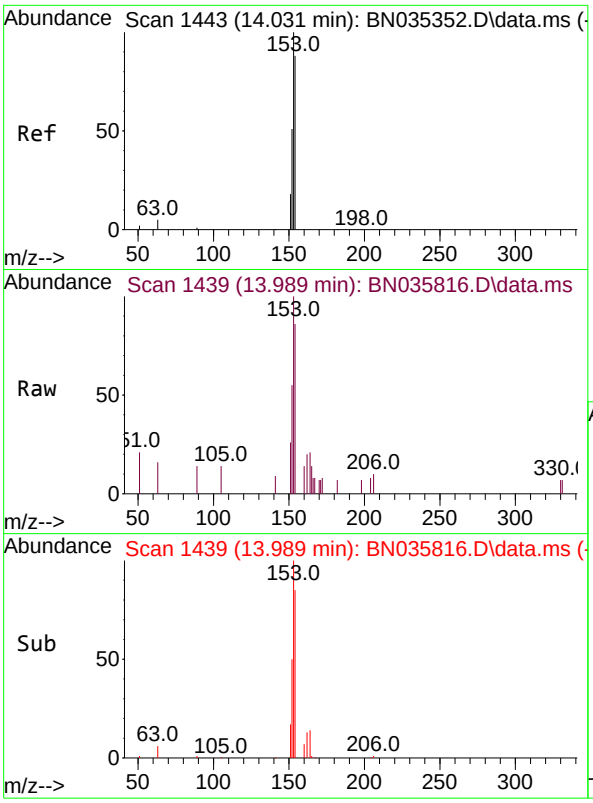


#16
Acenaphthylene
Concen: 0.074 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:152 Resp: 1554

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.2	24.2
153	13.4	10.4	15.6

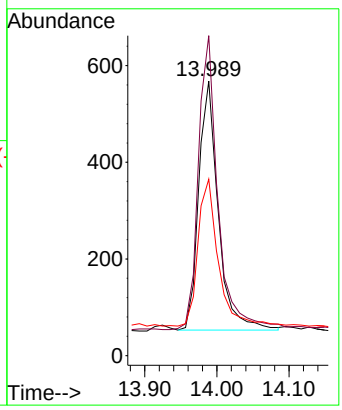




#17
Acenaphthene
Concen: 0.070 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:154 Resp: 97

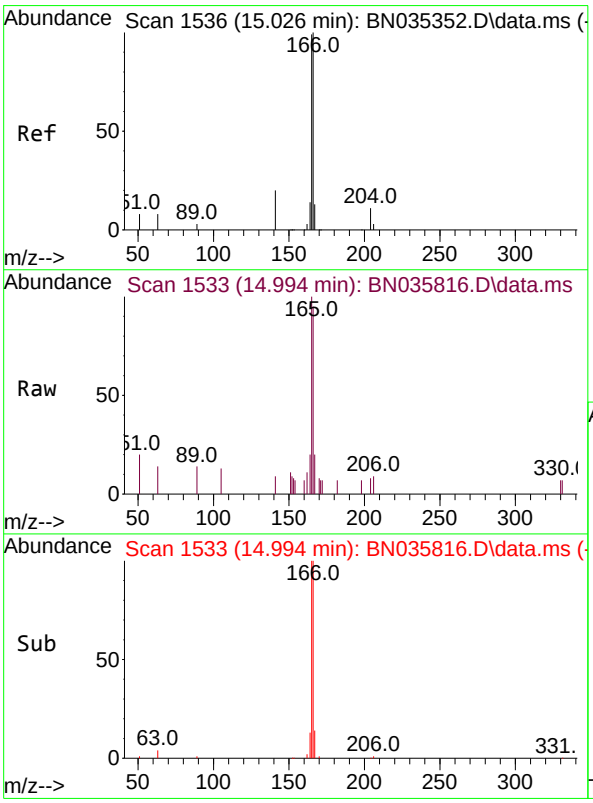
Ion	Ratio	Lower	Upper
154	100		
153	119.9	92.6	139.0
152	61.5	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
APPROVED

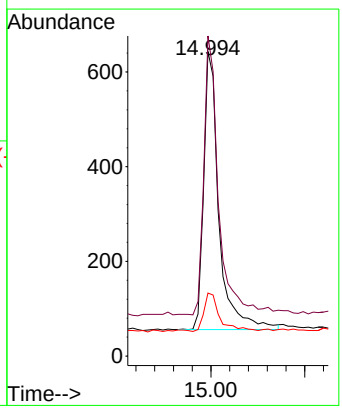
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

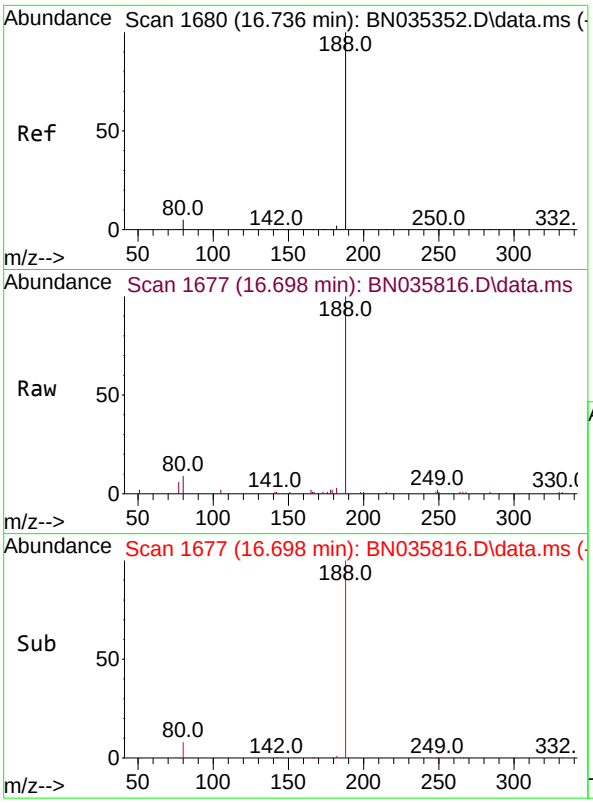


#18
Fluorene
Concen: 0.066 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:166 Resp: 1321

Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.7	119.5
167	14.5	10.8	16.2

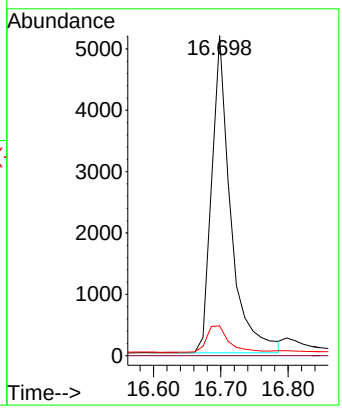




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:188 Resp: 1010(

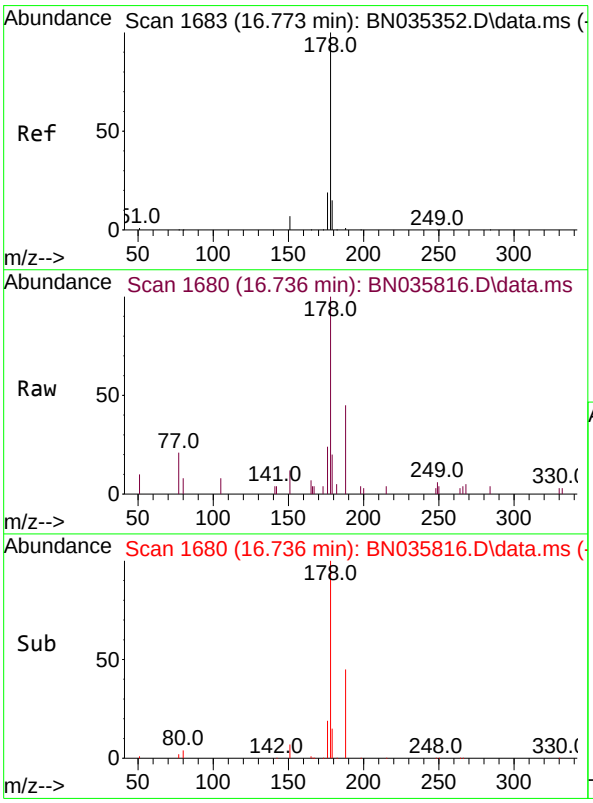
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
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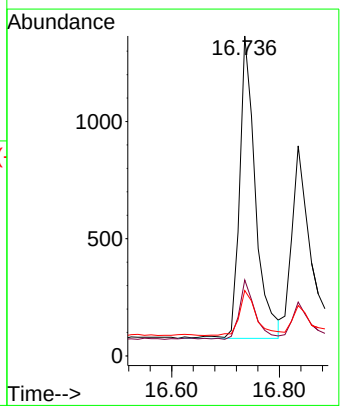
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

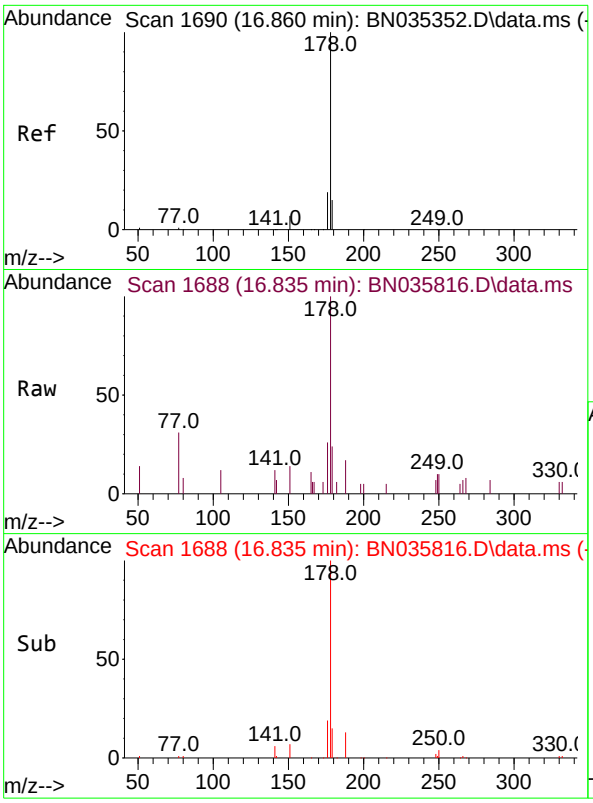


#25
Phenanthrene
Concen: 0.094 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:178 Resp: 2623

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.7	12.3	18.5

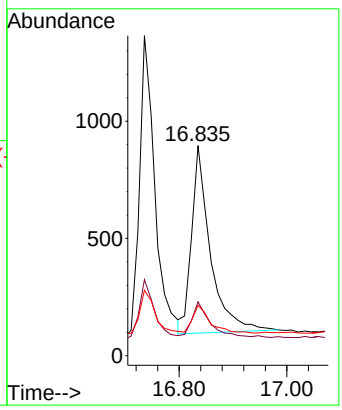




#26
Anthracene
Concen: 0.077 ng
RT: 16.835 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:178 Resp: 193

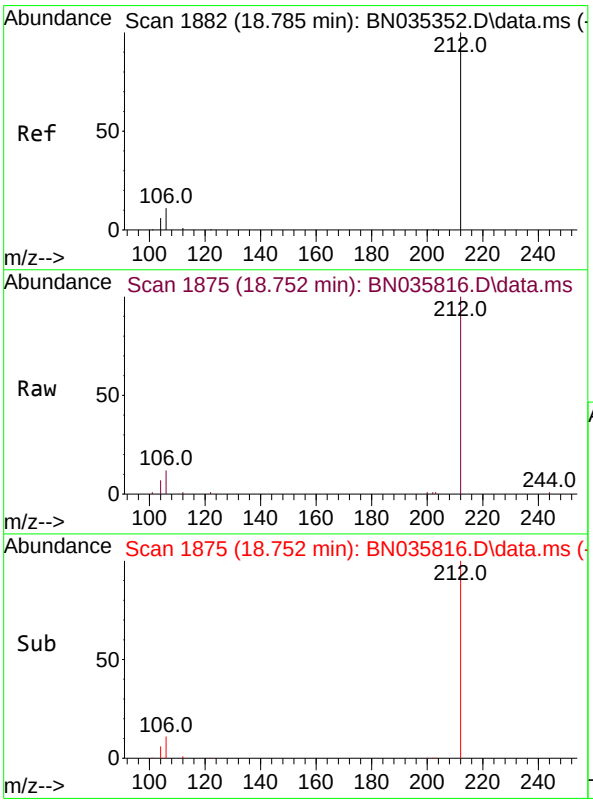
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.0	22.6
179	14.3	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
APPROVED

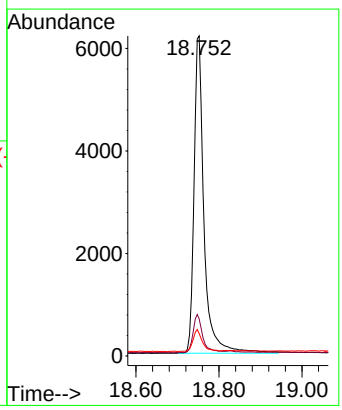
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

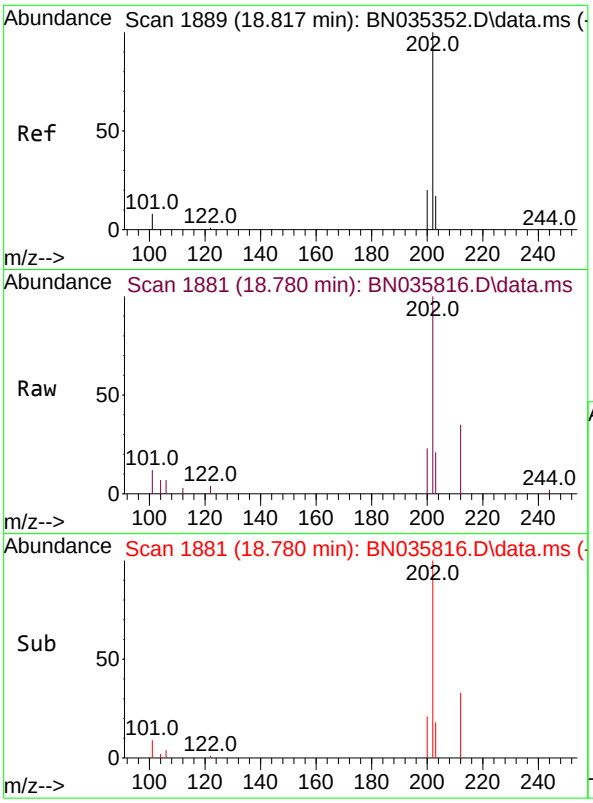


#27
Fluoranthene-d10
Concen: 0.363 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:212 Resp: 10407

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9





#28
Fluoranthene
Concen: 0.082 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

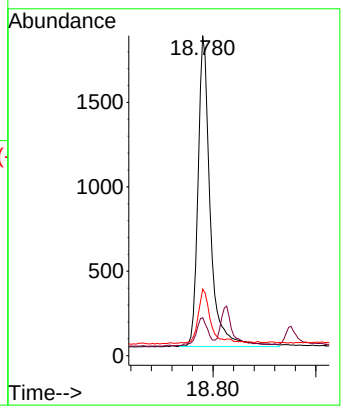
Tgt Ion:202 Resp: 305

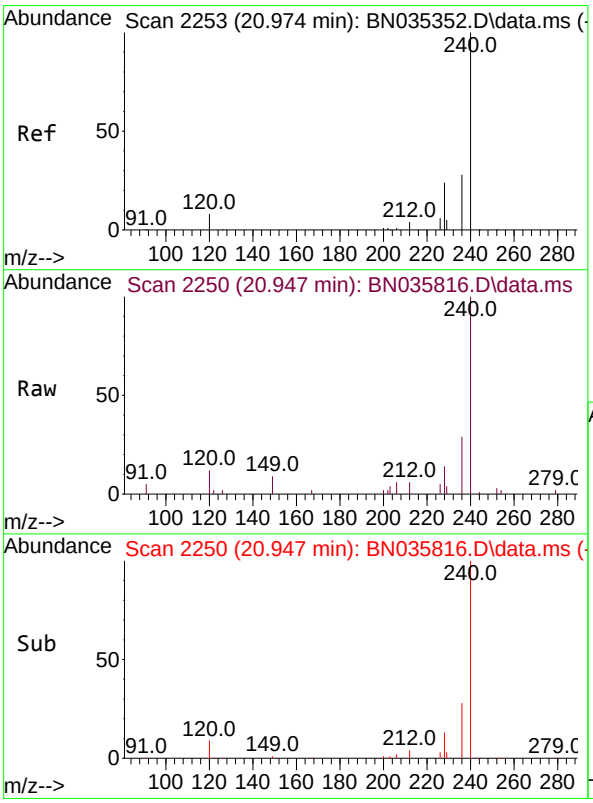
Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	16.4	13.7	20.5

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

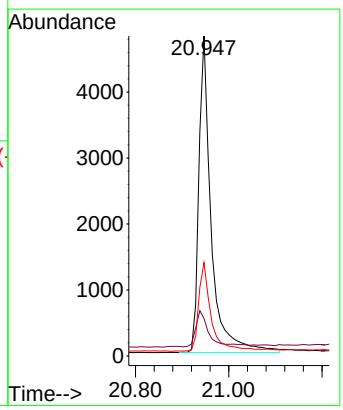


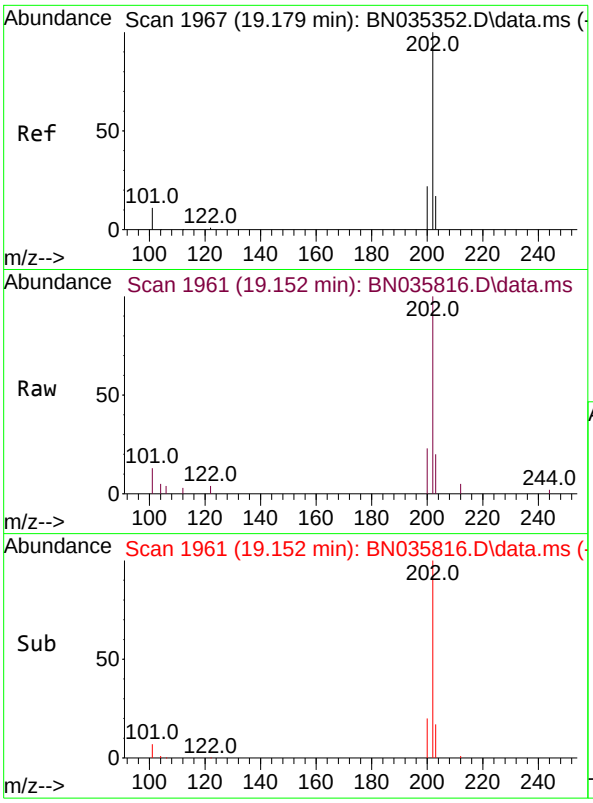


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:240 Resp: 8871

Ion	Ratio	Lower	Upper
240	100		
120	11.7	7.9	11.9
236	29.2	22.9	34.3

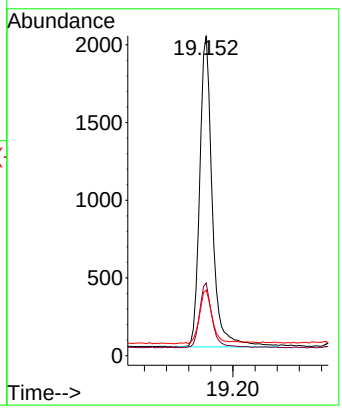




#30
Pyrene
Concen: 0.097 ng
RT: 19.152 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

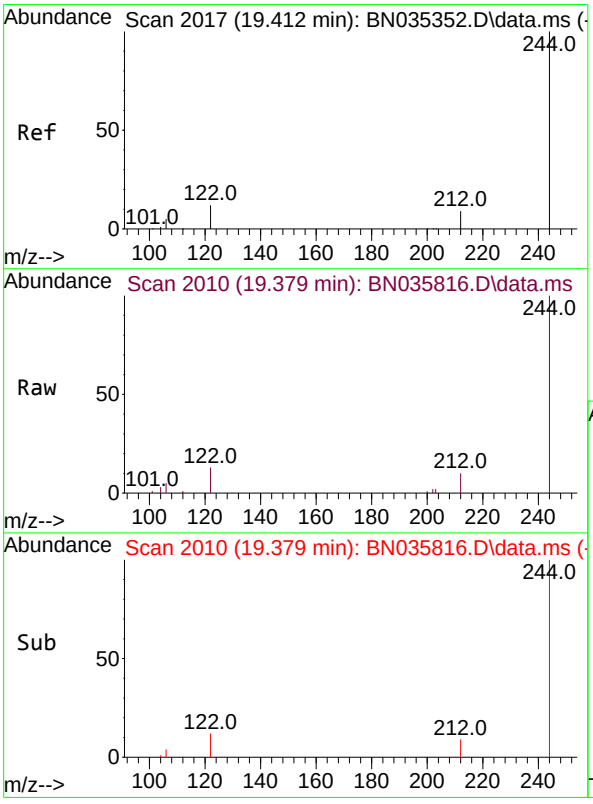
Tgt Ion:202 Resp: 318

Ion	Ratio	Lower	Upper
202	100		
200	20.5	17.0	25.4
203	17.3	14.3	21.5



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

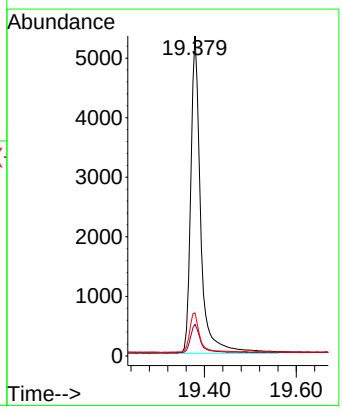
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

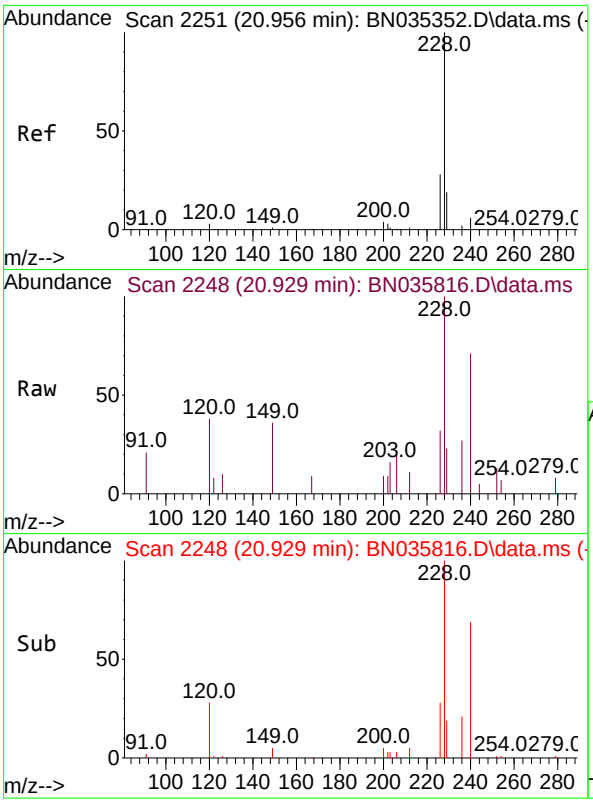


#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:244 Resp: 8030

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.5	10.3	15.5

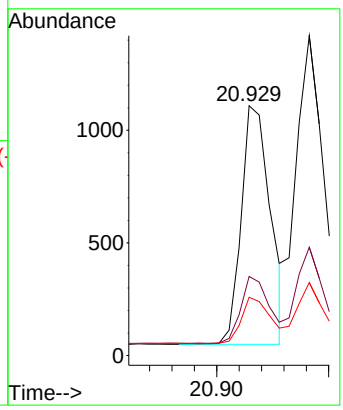




#32
Benzo(a)anthracene
Concen: 0.062 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:228 Resp: 191

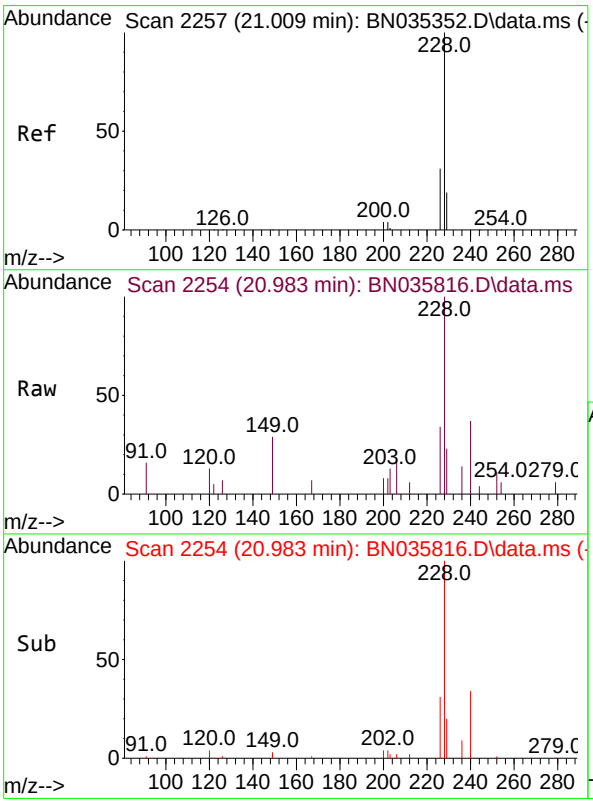
Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.5	33.7
229	23.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
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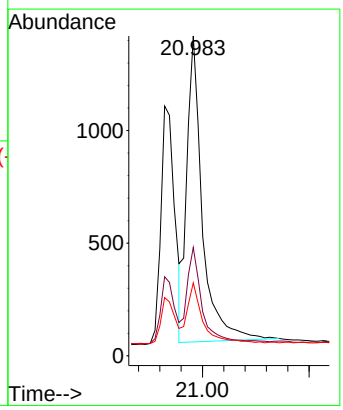
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

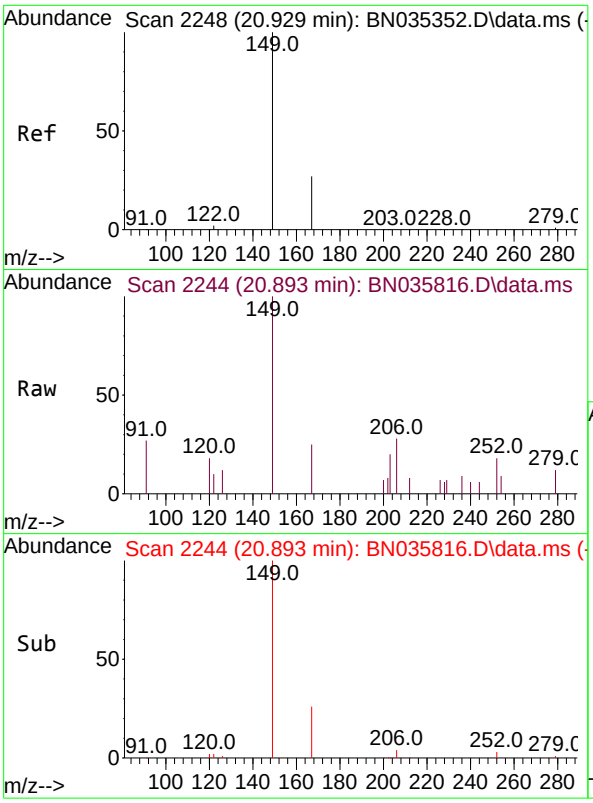


#33
Chrysene
Concen: 0.086 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:228 Resp: 2737

Ion	Ratio	Lower	Upper
228	100		
226	33.9	24.6	37.0
229	22.8	15.9	23.9





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.051 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

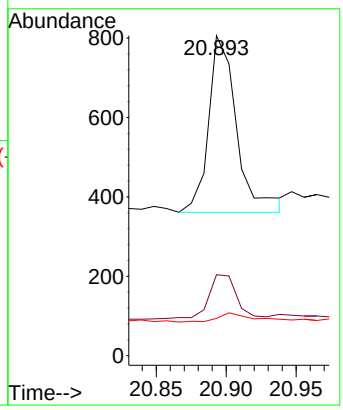
Tgt Ion:149 Resp: 62

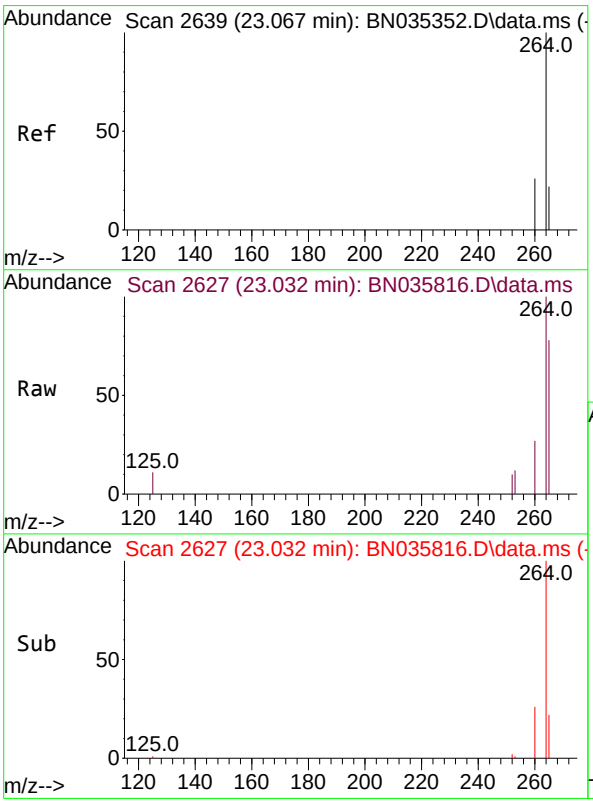
Ion	Ratio	Lower	Upper
149	100		
167	24.7	22.2	33.4
279	6.7	2.7	4.1#

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

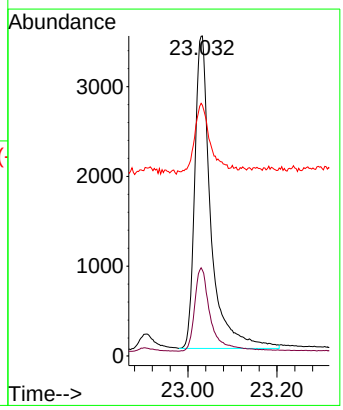


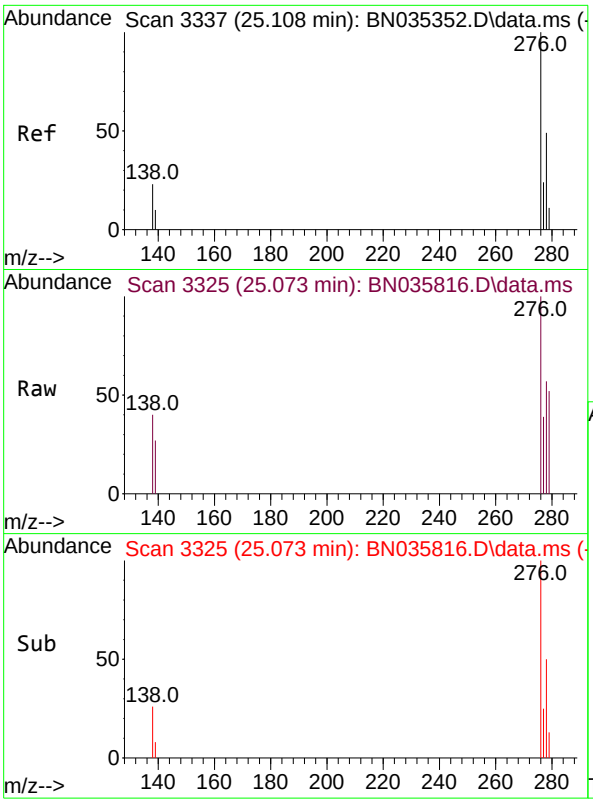


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:264 Resp: 8758

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	78.4	40.2	60.4#

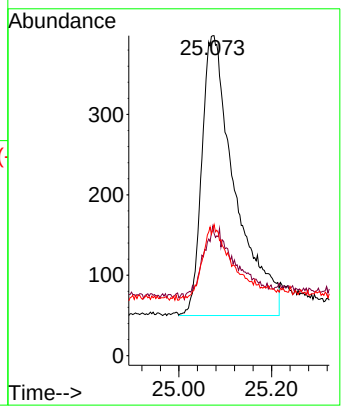




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.050 ng
RT: 25.073 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:276 Resp: 172

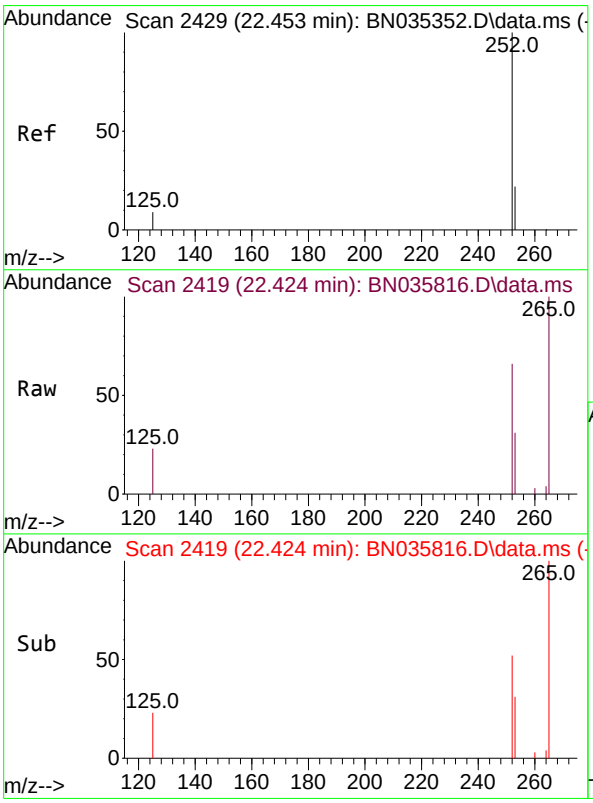
Ion	Ratio	Lower	Upper
276	100		
138	10.1	19.4	29.0#
277	7.3	19.8	29.6#



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
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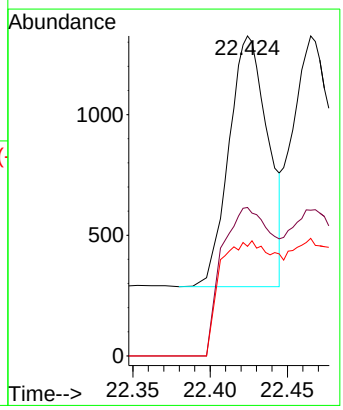
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

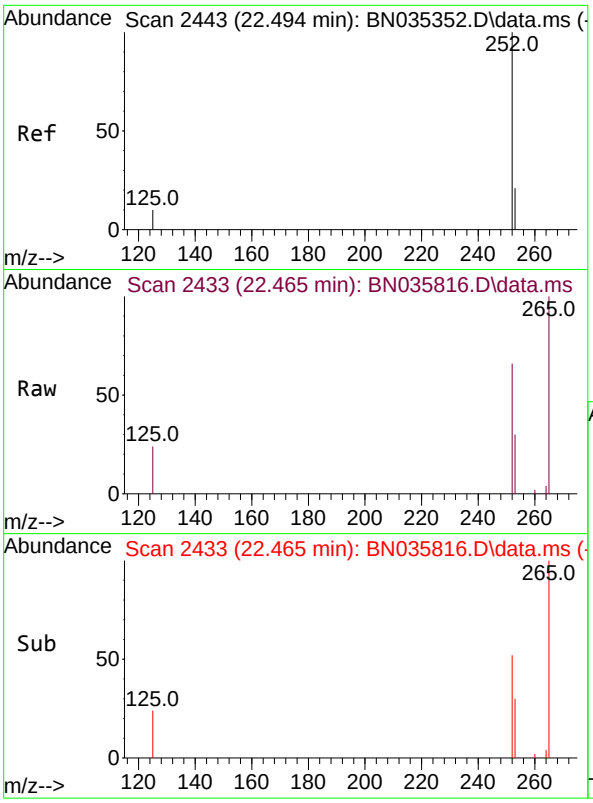


#37
Benzo(b)fluoranthene
Concen: 0.076 ng
RT: 22.424 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 2429

Ion	Ratio	Lower	Upper
252	100		
253	46.4	19.6	29.4#
125	34.2	9.6	14.4#

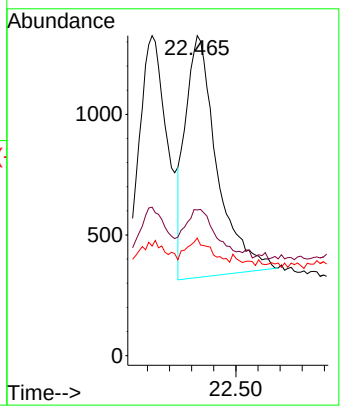




#38
Benzo(k)fluoranthene
Concen: 0.063 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 198

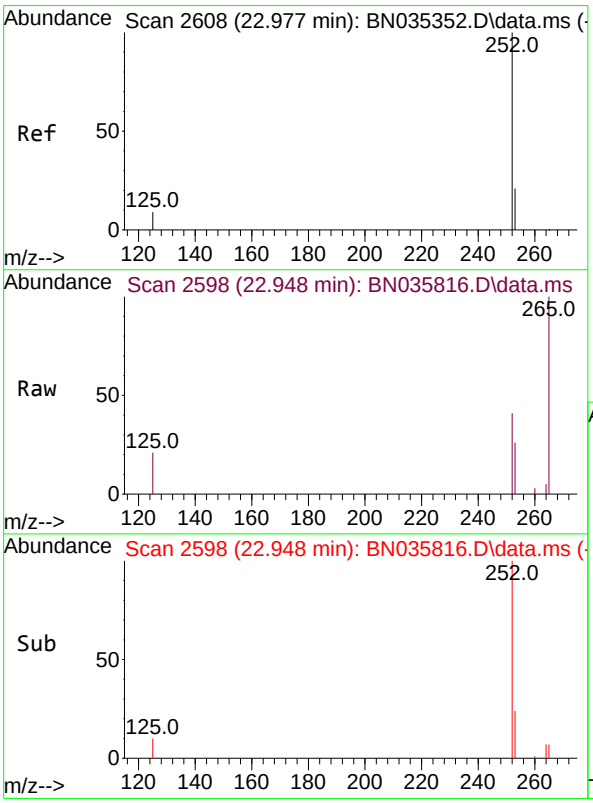
Ion	Ratio	Lower	Upper
252	100		
253	45.6	19.5	29.3#
125	36.7	10.2	15.4#



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
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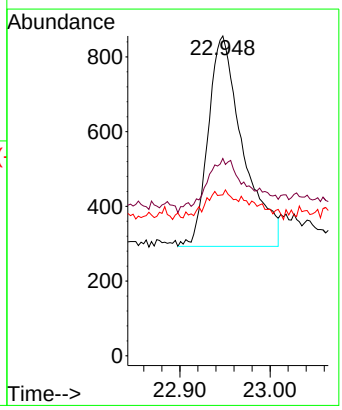
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

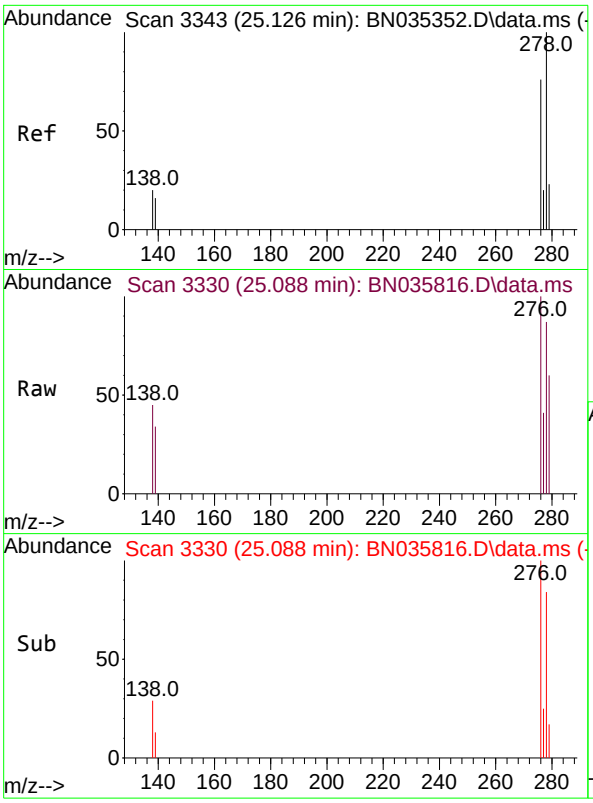


#39
Benzo(a)pyrene
Concen: 0.057 ng
RT: 22.948 min Scan# 2598
Delta R.T. -0.003 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 1503

Ion	Ratio	Lower	Upper
252	100		
253	61.7	20.2	30.4#
125	50.4	10.9	16.3#

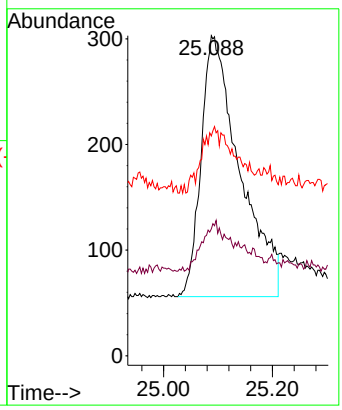




#40
Dibenzo(a,h)anthracene
Concen: 0.045 ng
RT: 25.088 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:278 Resp: 122

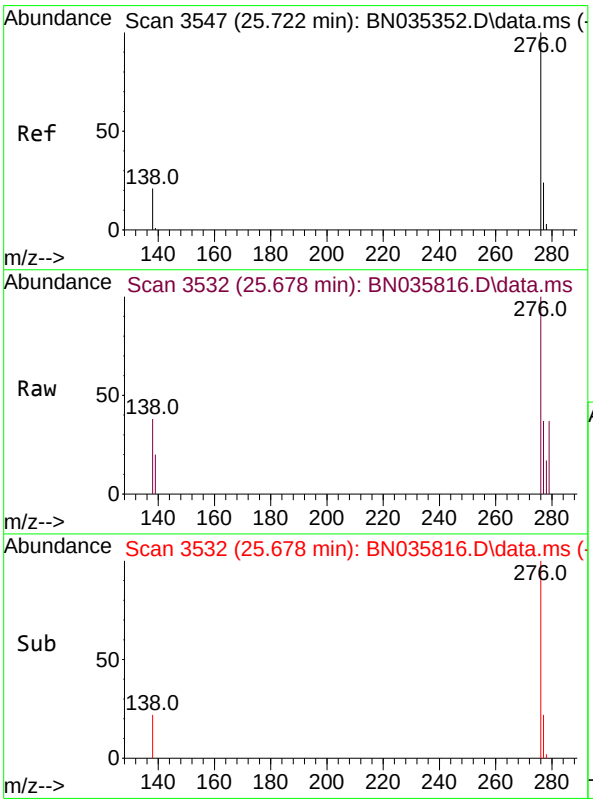
Ion	Ratio	Lower	Upper
278	100		
139	39.6	14.2	21.4#
279	68.6	20.5	30.7#



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Manual Integrations
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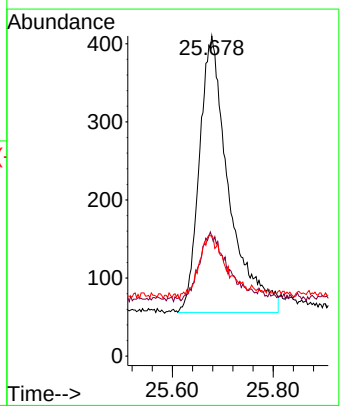
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#41
Benzo(g,h,i)perylene
Concen: 0.051 ng
RT: 25.678 min Scan# 3532
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:276 Resp: 1434

Ion	Ratio	Lower	Upper
276	100		
277	37.3	19.9	29.9#
138	37.8	17.8	26.8#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RE115D2-20241218DL	SDG No.:	P5376
Lab Sample ID:	P5376-03DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035854.D	5	12/23/24 13:29	12/26/24 15:30	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.3	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.48		30 - 150		120%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.53	*	55 - 111		131%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.66	*	58 - 132		164%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2750	7.257				
1146-65-2	Naphthalene-d8	6130	10.009				
15067-26-2	Acenaphthene-d10	4190	13.924				
1517-22-2	Phenanthrene-d10	9270	16.698				
1719-03-5	Chrysene-d12	7350	20.947				
1520-96-3	Perylene-d12	6900	23.029				

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\BN122624\
Data File : BN035854.D
Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:41:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2752	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	6133	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4189	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9267	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7345	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6900	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	170	0.025	ng	-0.01
5) Phenol-d6	6.477	99	80	0.010	ng	-0.01
8) Nitrobenzene-d5	8.418	82	392m	0.105	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	768	0.080	ng	0.02
14) 2,4,6-Tribromophenol	15.464	330	143	0.048	ng	0.01
15) 2-Fluorobiphenyl	12.559	172	1316	0.083	ng	0.01
27) Fluoranthene-d10	18.757	212	2532	0.096	ng	0.00
31) Terphenyl-d14	19.379	244	1897	0.131	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	5250	1.996	ng	99
9) Naphthalene	10.052	128	468	0.029	ng	# 41
16) Acenaphthylene	13.636	152	389	0.022	ng	95
17) Acenaphthene	13.989	154	244	0.021	ng	96
25) Phenanthrene	16.748	178	675m	0.027	ng	
26) Anthracene	16.847	178	538m	0.023	ng	
28) Fluoranthene	18.784	202	749	0.022	ng	99
30) Pyrene	19.151	202	773	0.029	ng	98
33) Chrysene	20.982	228	652	0.025	ng	# 79
34) Bis(2-ethylhexyl)phtha...	20.893	149	272	0.027	ng	# 91

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

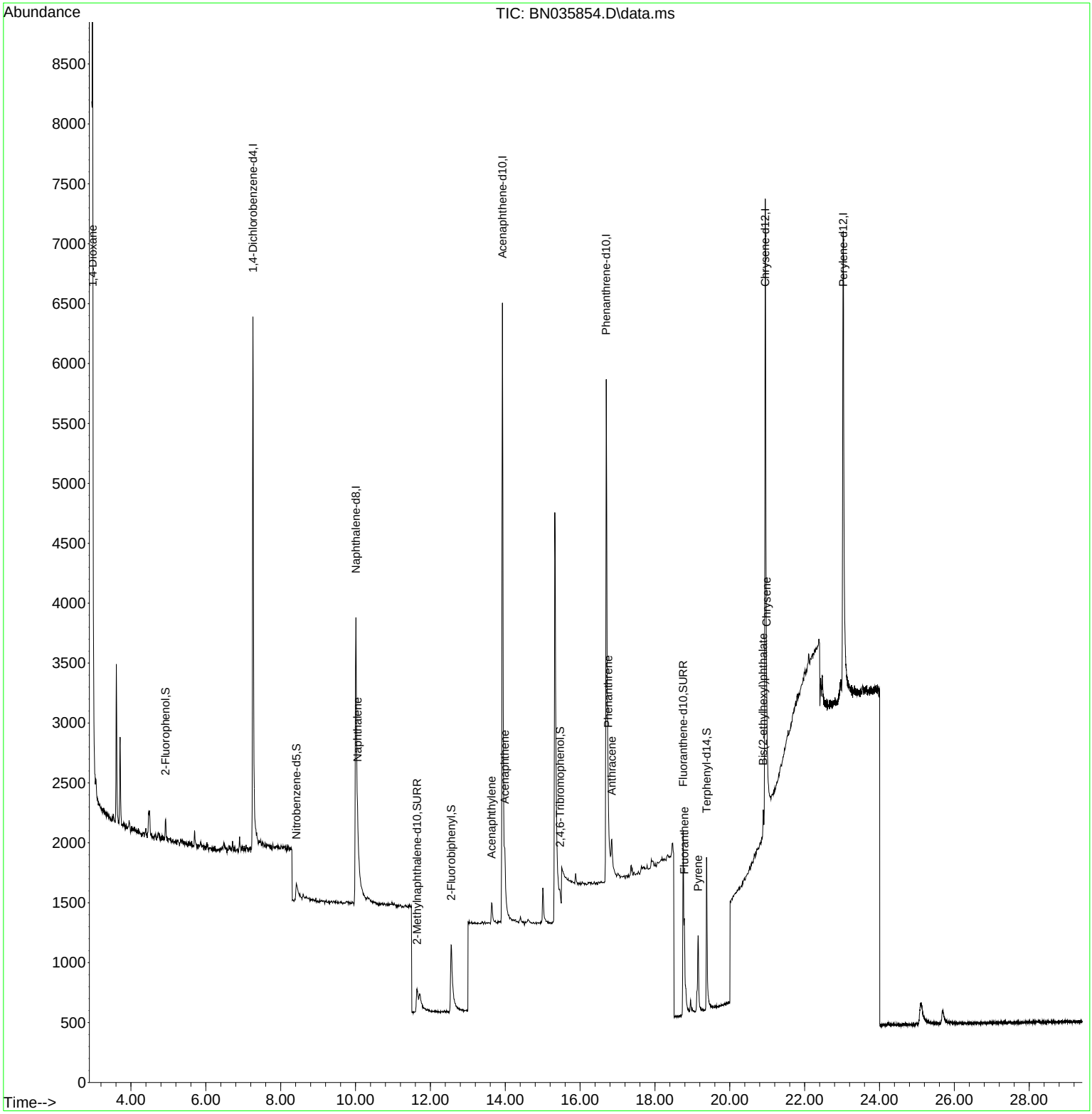
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Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

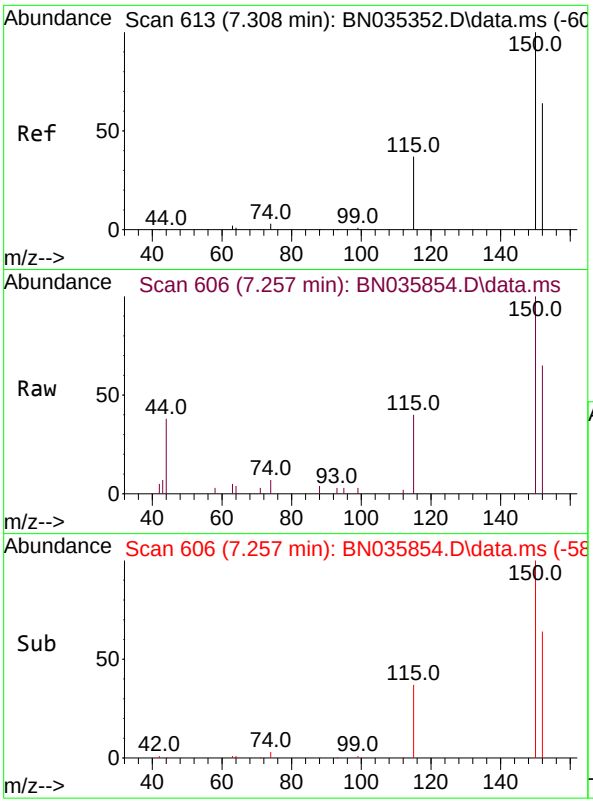
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

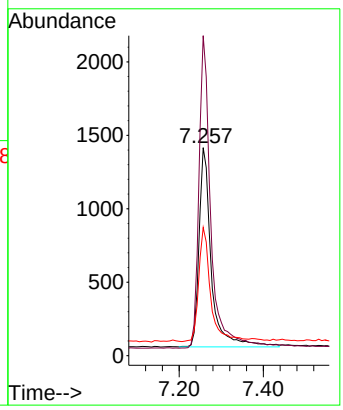




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 275

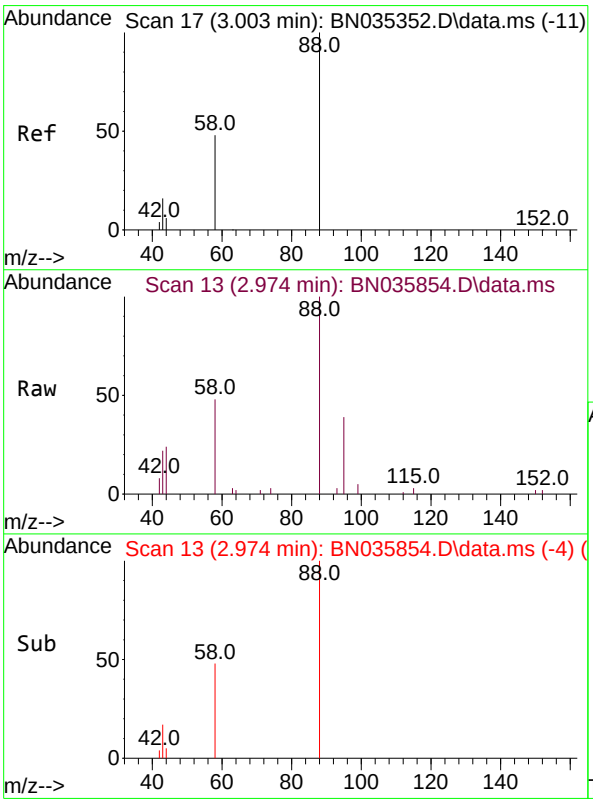
Ion	Ratio	Lower	Upper
152	100		
150	153.8	124.0	186.0
115	61.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations
APPROVED

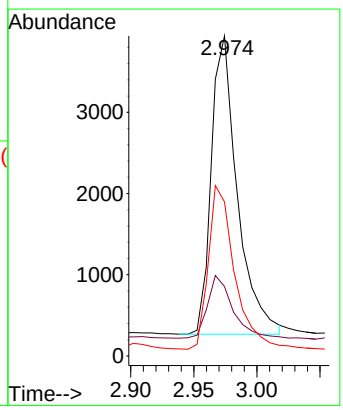
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

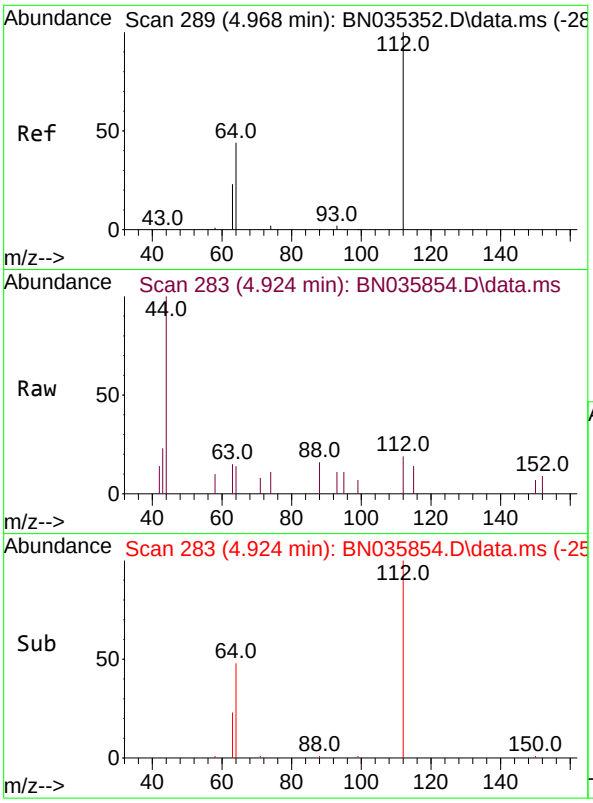


#2
1,4-Dioxane
Concen: 1.996 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 88 Resp: 5250

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	54.9	44.5	66.7

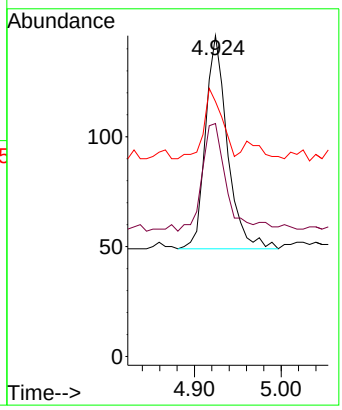




#4
2-Fluorophenol
Concen: 0.025 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

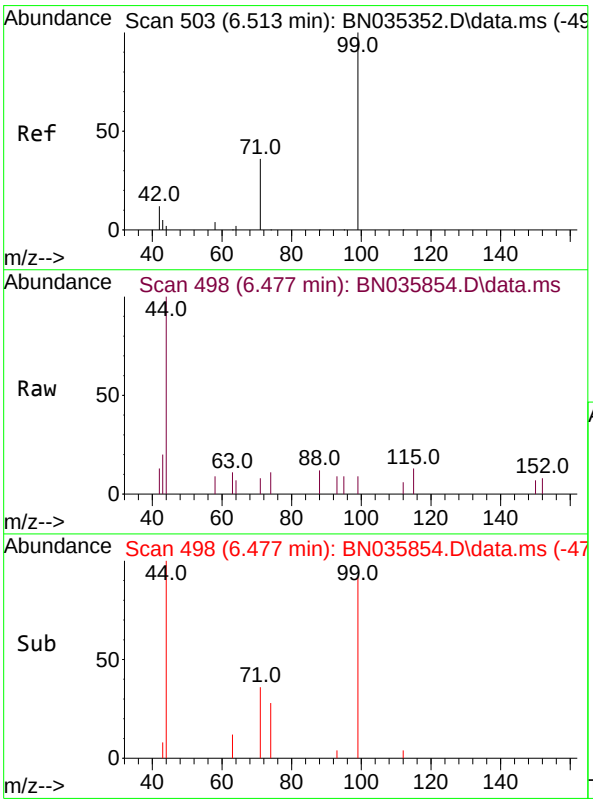
Tgt Ion:112 Resp: 17

Ion	Ratio	Lower	Upper
112	100		
64	53.5	39.8	59.8
63	31.8	21.0	31.6#



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

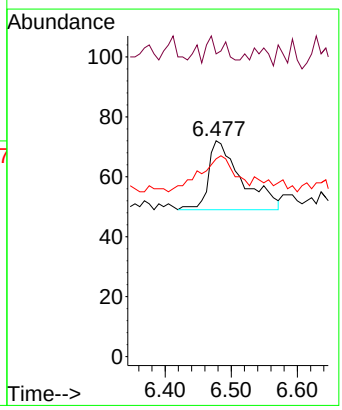
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

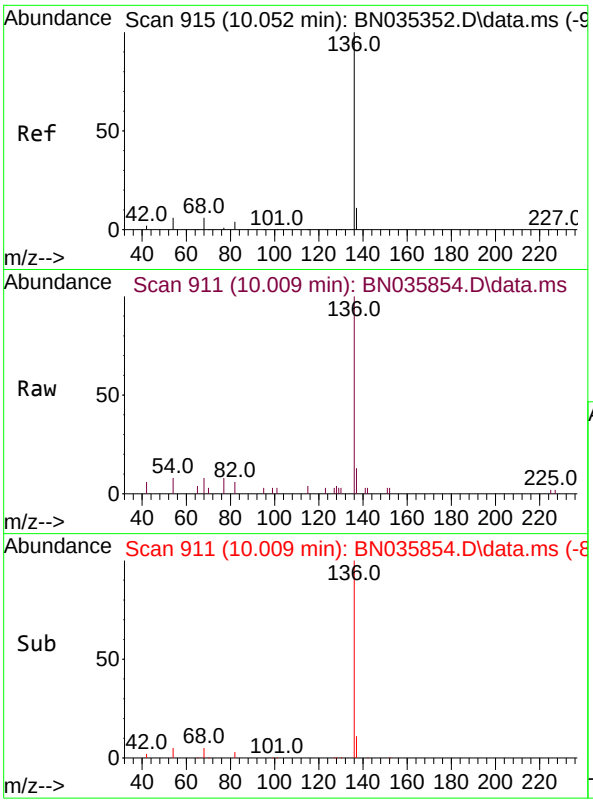


#5
Phenol-d6
Concen: 0.010 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 99 Resp: 80

Ion	Ratio	Lower	Upper
99	100		
42	12.5	11.4	17.2
71	53.8	29.3	43.9#

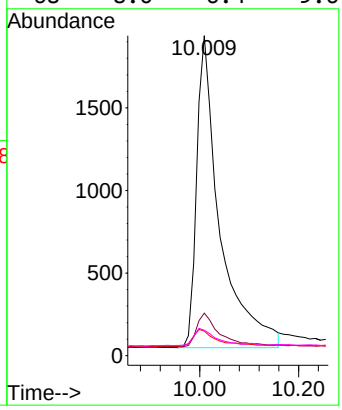




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:136 Resp: 613

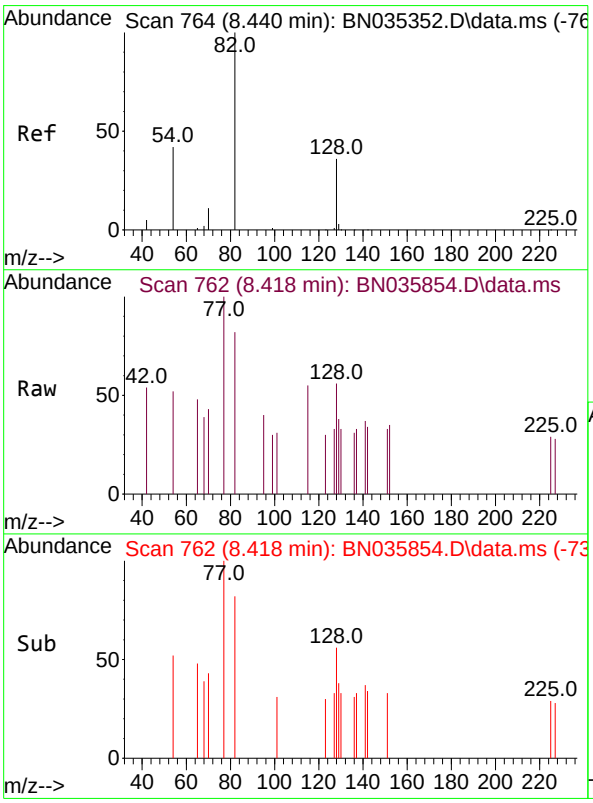
Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.2	15.2
54	7.7	6.1	9.1
68	8.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations
APPROVED

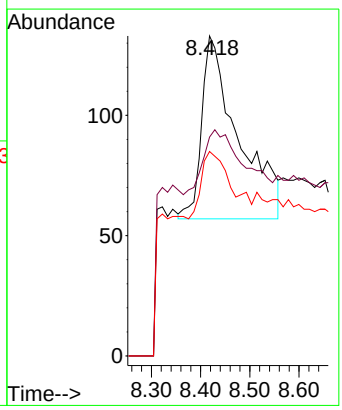
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

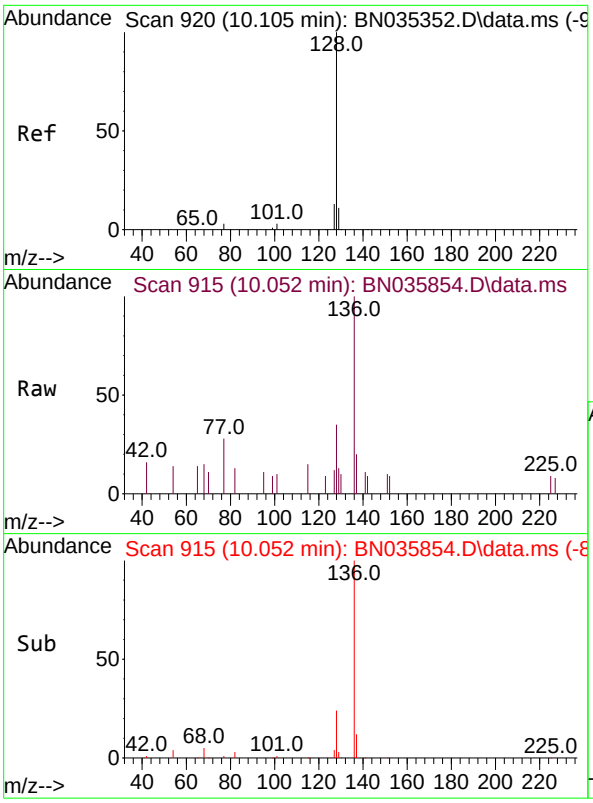


#8
Nitrobenzene-d5
Concen: 0.105 ng m
RT: 8.418 min Scan# 762
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 82 Resp: 392

Ion	Ratio	Lower	Upper
82	100		
128	68.4	33.4	50.0#
54	63.9	36.7	55.1#

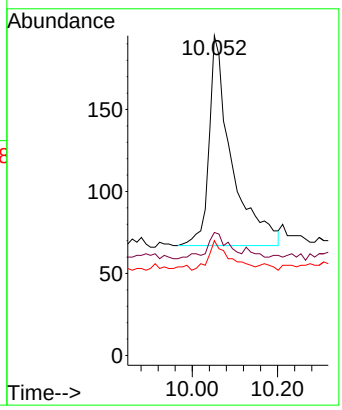




#9
Naphthalene
Concen: 0.029 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:128 Resp: 46

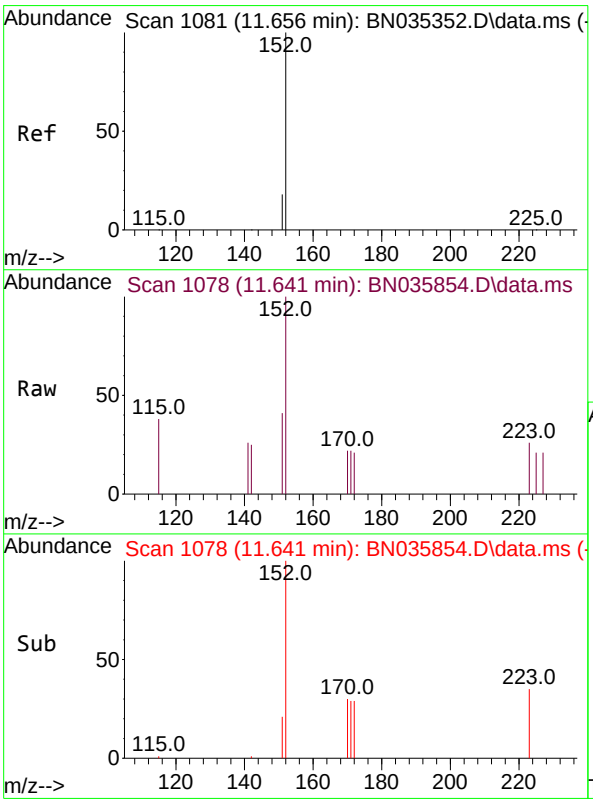
Ion	Ratio	Lower	Upper
128	100		
129	38.5	9.8	14.6#
127	35.9	11.4	17.2#



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations
APPROVED

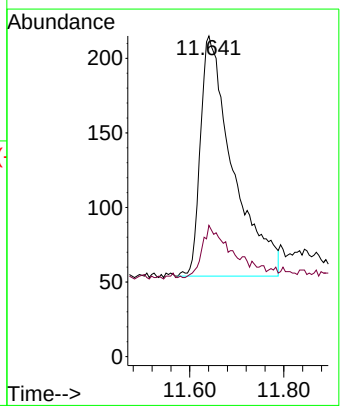
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

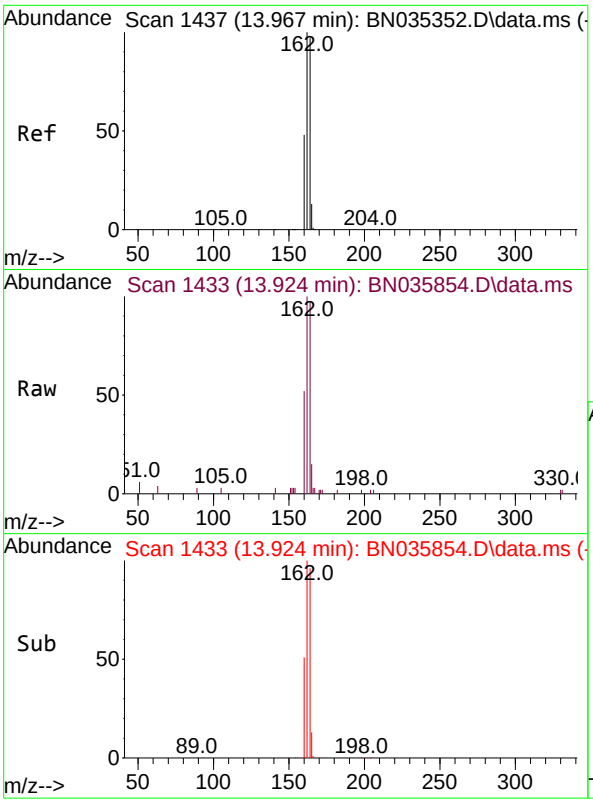


#11
2-Methylnaphthalene-d10
Concen: 0.080 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 768

Ion	Ratio	Lower	Upper
152	100		
151	16.5	16.6	25.0#

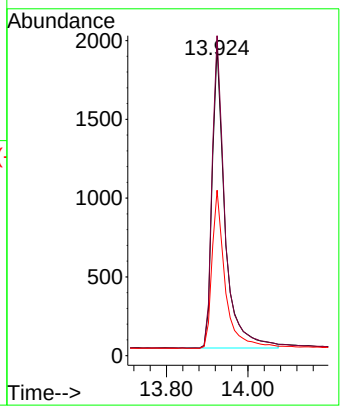




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

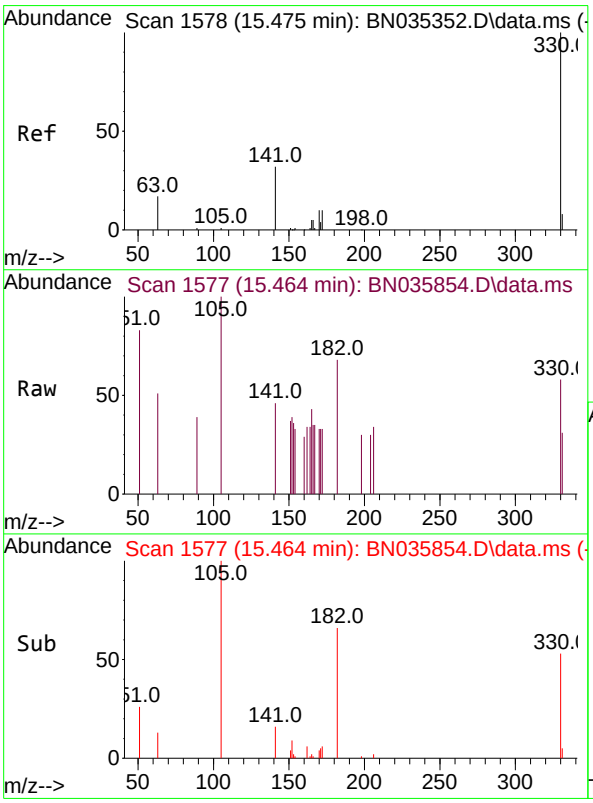
Tgt Ion:164 Resp: 418

Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.2	123.2
160	53.5	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

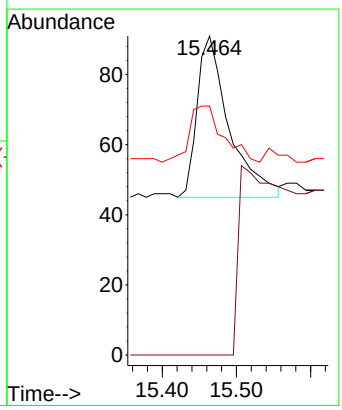
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

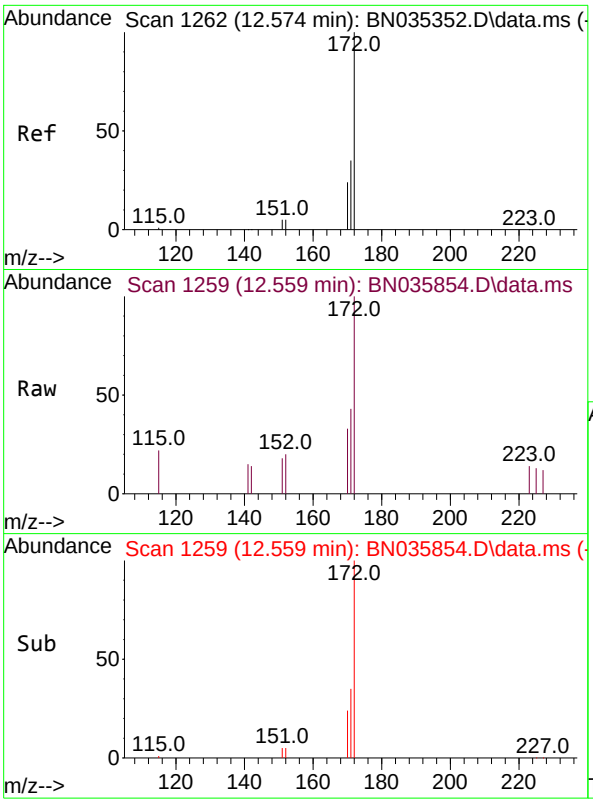


#14
2,4,6-Tribromophenol
Concen: 0.048 ng
RT: 15.464 min Scan# 1577
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:330 Resp: 143

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	38.5	26.6	40.0

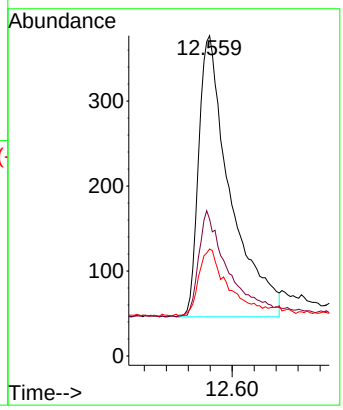




#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.559 min Scan# 1
Delta R.T. 0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

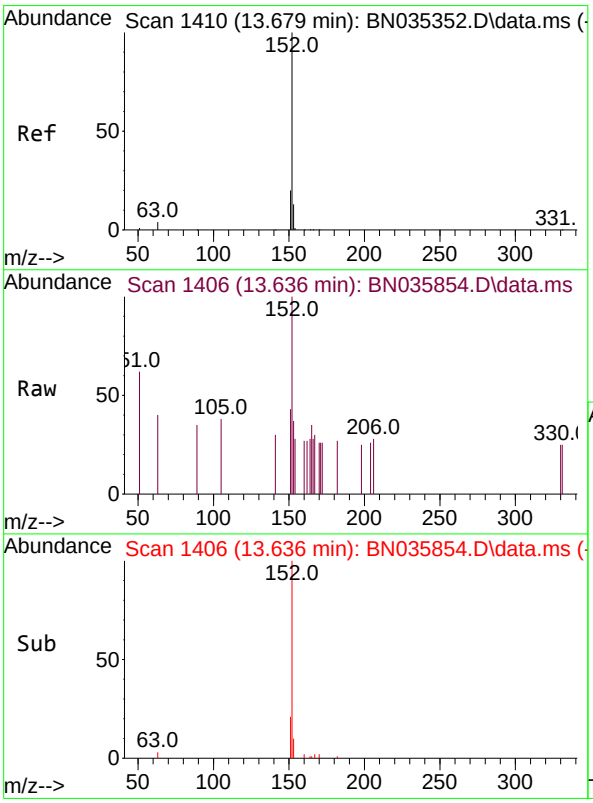
Tgt Ion:172 Resp: 131

Ion	Ratio	Lower	Upper
172	100		
171	42.7	29.0	43.4
170	33.4	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

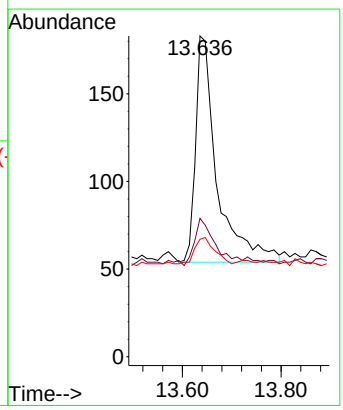
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

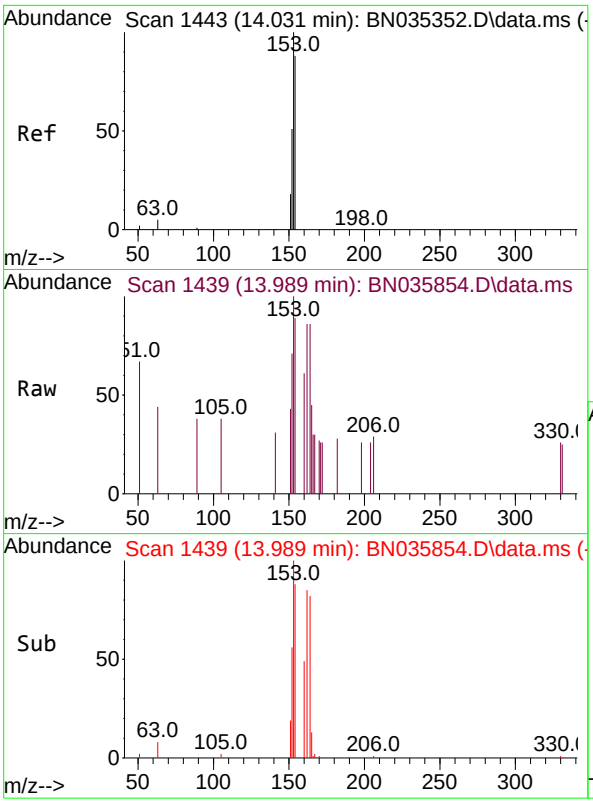


#16
Acenaphthylene
Concen: 0.022 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 389

Ion	Ratio	Lower	Upper
152	100		
151	22.4	16.2	24.2
153	10.5	10.4	15.6

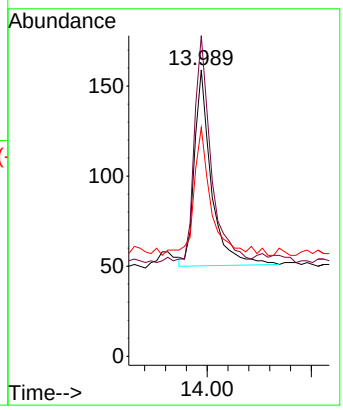




#17
Acenaphthene
Concen: 0.021 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

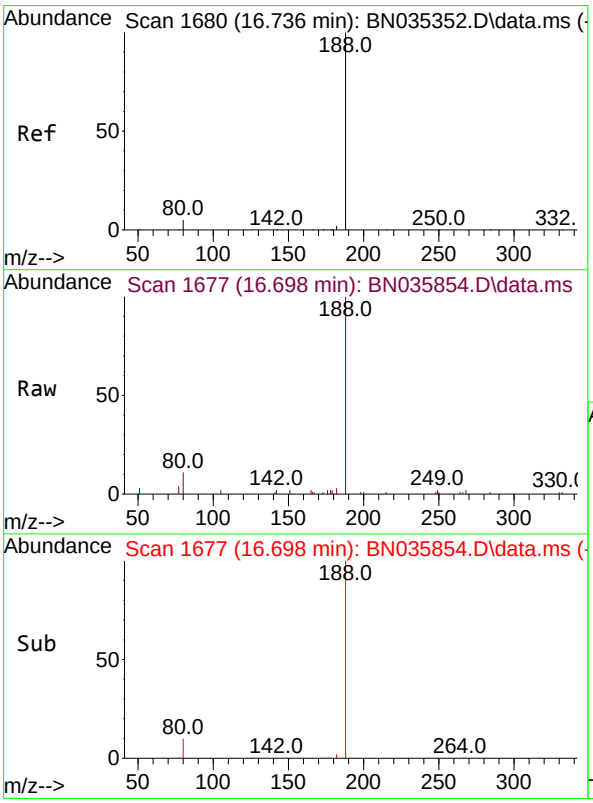
Tgt Ion:154 Resp: 244

Ion	Ratio	Lower	Upper
154	100		
153	111.9	92.6	139.0
152	65.2	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

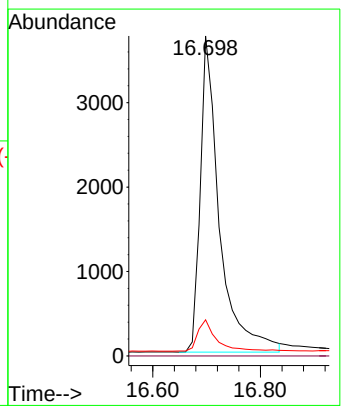
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

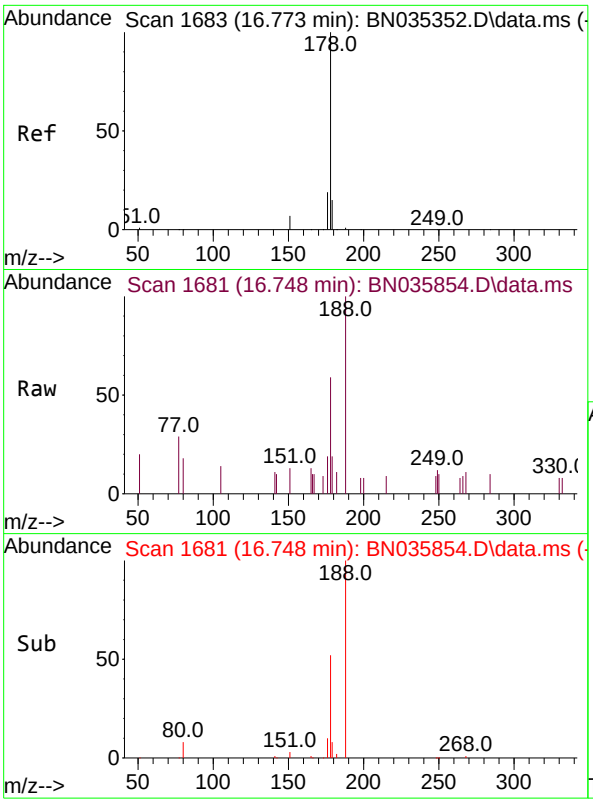


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:188 Resp: 9267

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	4.6	6.8#

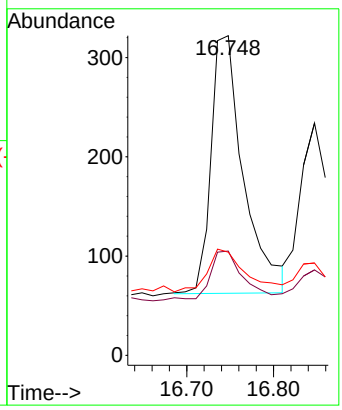




#25
Phenanthrene
Concen: 0.027 ng m
RT: 16.748 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:178 Resp: 67

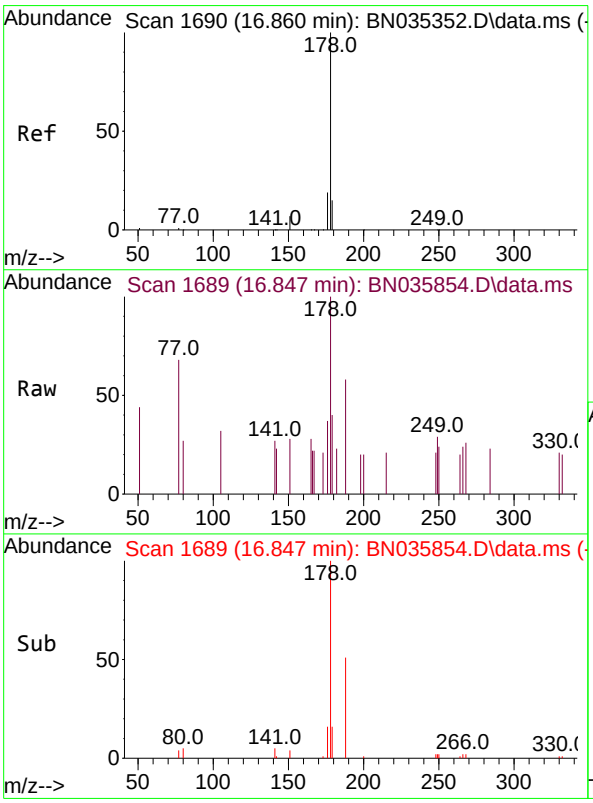
Ion	Ratio	Lower	Upper
178	100		
176	9.8	15.4	23.2#
179	8.4	12.3	18.5#



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations
APPROVED

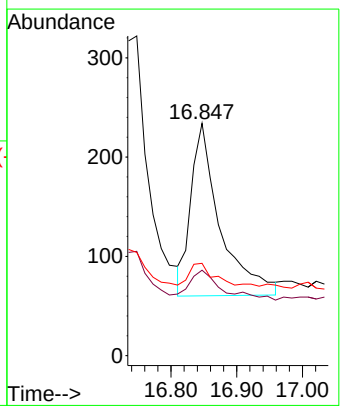
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

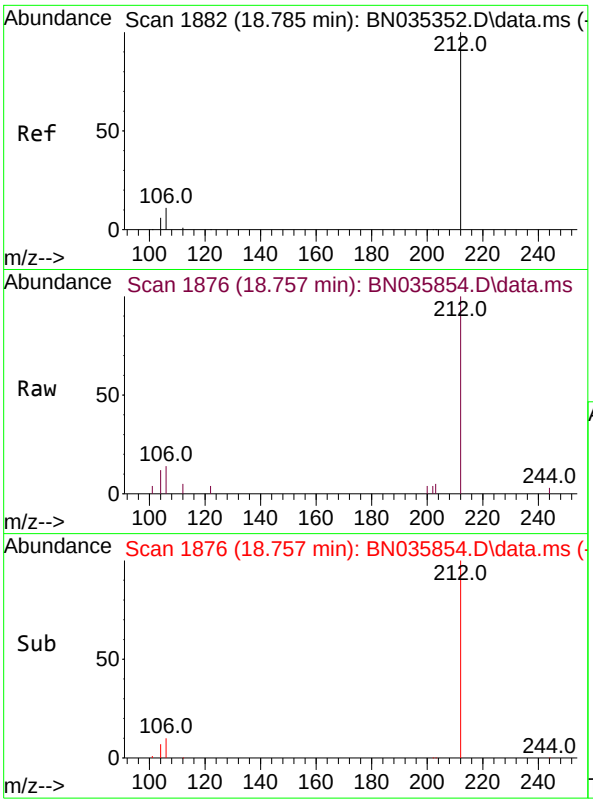


#26
Anthracene
Concen: 0.023 ng m
RT: 16.847 min Scan# 1689
Delta R.T. 0.012 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:178 Resp: 538

Ion	Ratio	Lower	Upper
178	100		
176	25.5	15.0	22.6#
179	24.2	12.6	18.8#

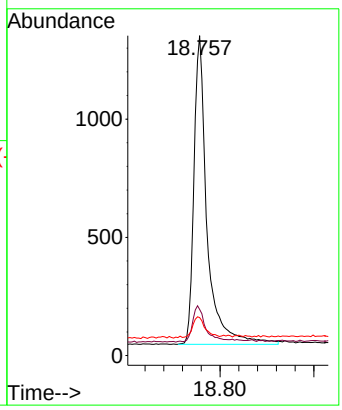




#27
Fluoranthene-d10
Concen: 0.096 ng
RT: 18.757 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:212 Resp: 253

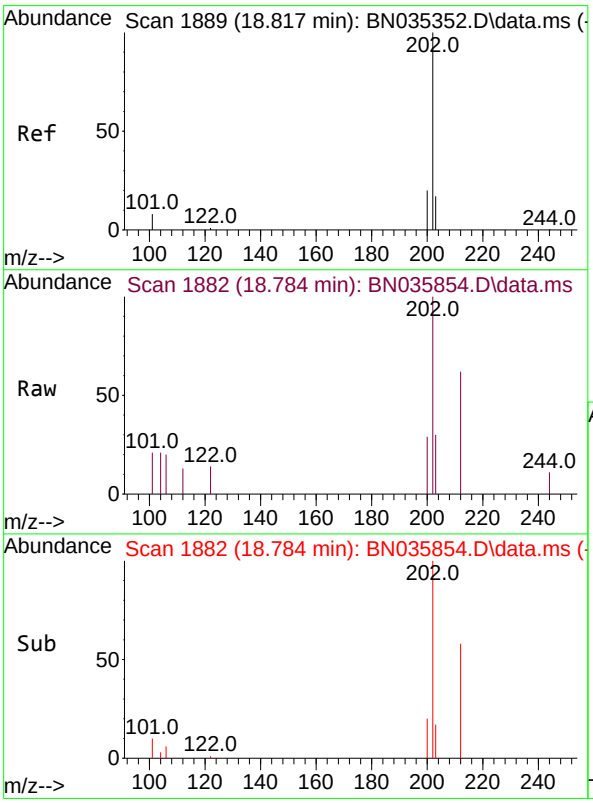
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations
APPROVED

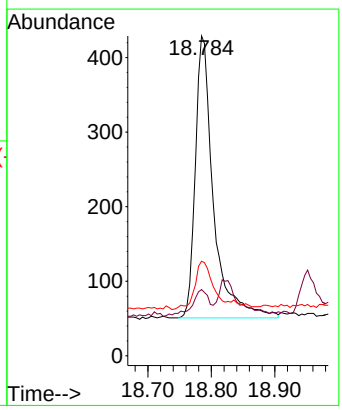
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

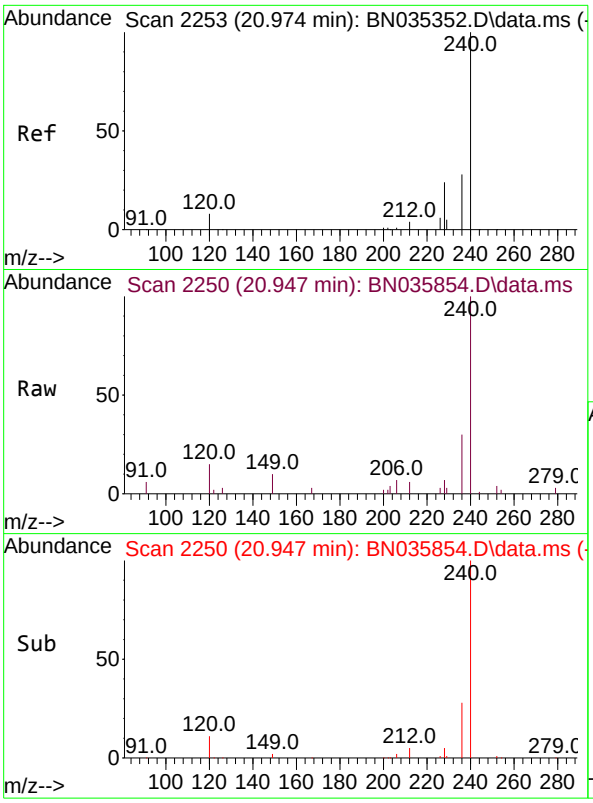


#28
Fluoranthene
Concen: 0.022 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:202 Resp: 749

Ion	Ratio	Lower	Upper
202	100		
101	8.4	7.4	11.0
203	17.1	13.7	20.5

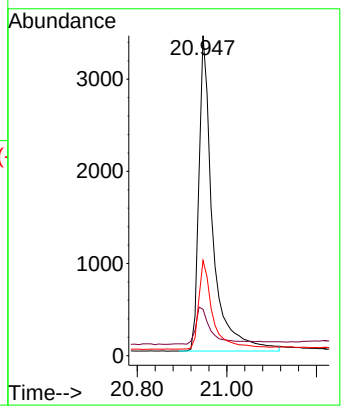




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

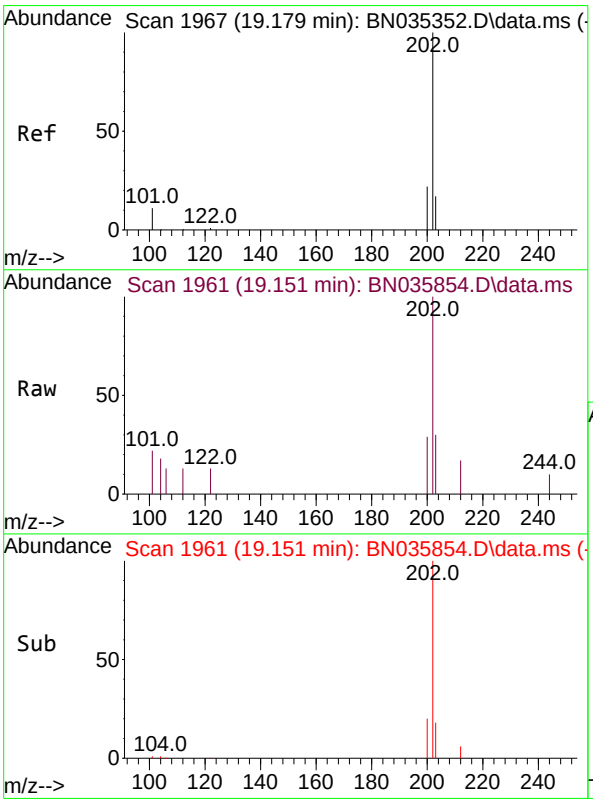
Tgt Ion:240 Resp: 734

Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9
236	29.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

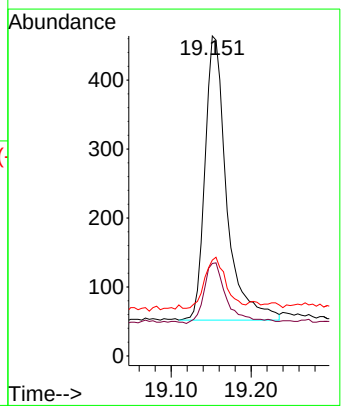
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

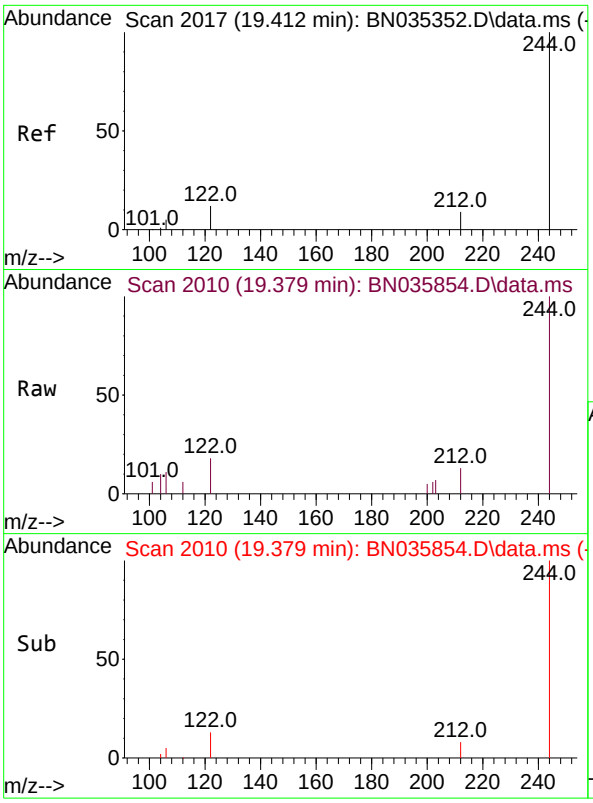


#30
Pyrene
Concen: 0.029 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:202 Resp: 773

Ion	Ratio	Lower	Upper
202	100		
200	22.8	17.0	25.4
203	17.5	14.3	21.5

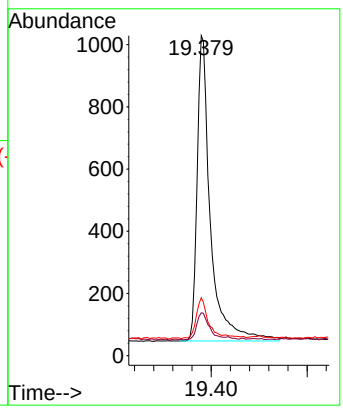




#31
Terphenyl-d14
Concen: 0.131 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:244 Resp: 189

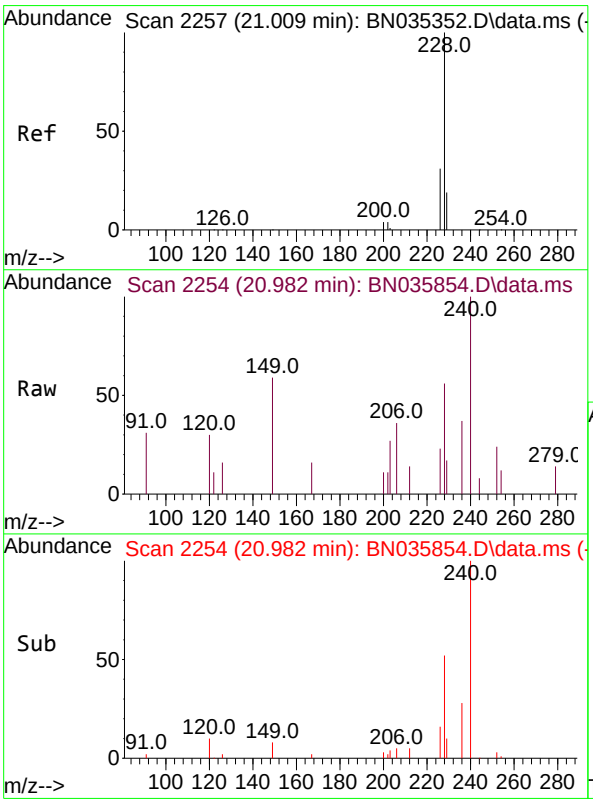
Ion	Ratio	Lower	Upper
244	100		
212	13.4	8.1	12.1#
122	18.1	10.3	15.5#



Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations APPROVED

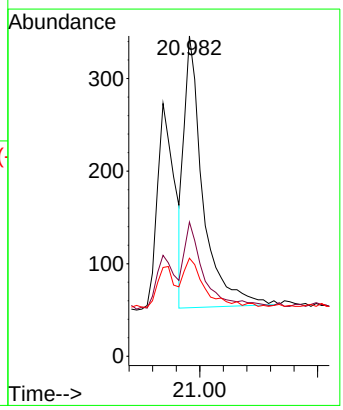
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

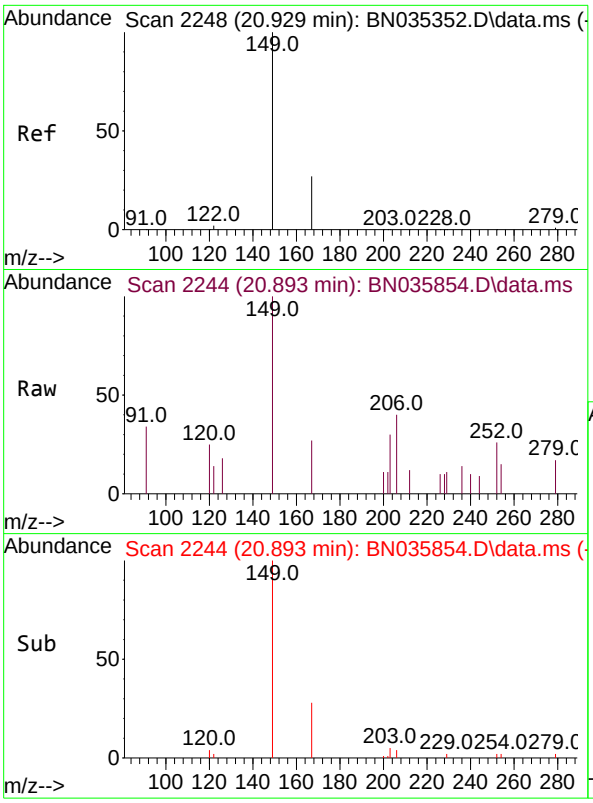


#33
Chrysene
Concen: 0.025 ng
RT: 20.982 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:228 Resp: 652

Ion	Ratio	Lower	Upper
228	100		
226	41.9	24.6	37.0#
229	30.6	15.9	23.9#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.027 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

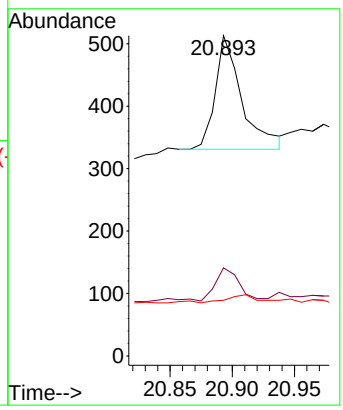
Tgt Ion:149 Resp: 27

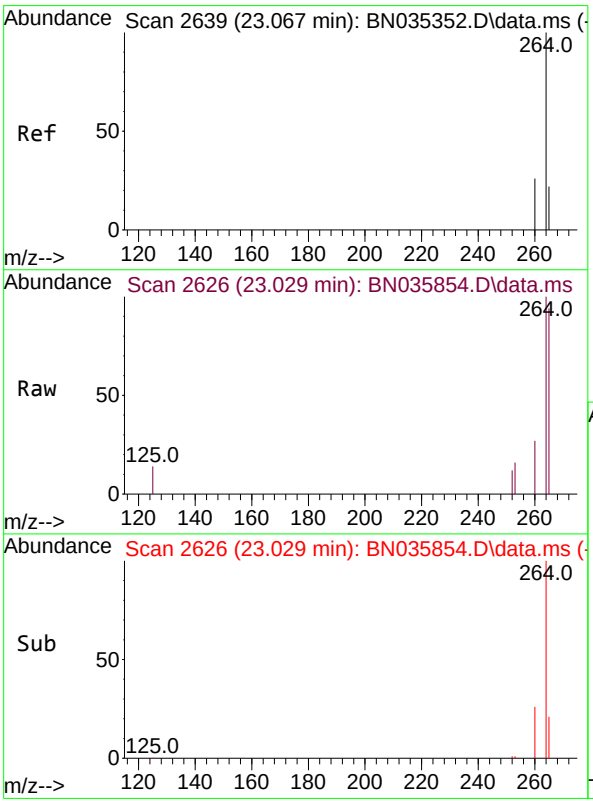
Ion	Ratio	Lower	Upper
149	100		
167	23.2	22.2	33.4
279	7.4	2.7	4.1#

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

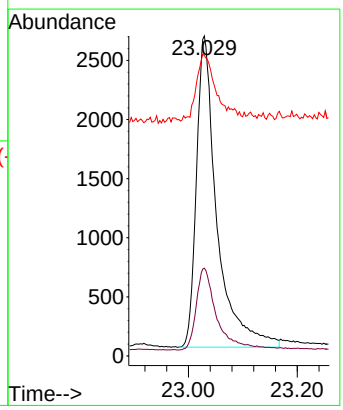




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:264 Resp: 6900

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.4	32.2
265	93.9	40.2	60.4#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT149S1-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035817.D	1	12/23/24 13:29	12/24/24 12:33	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.28		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2880	7.264				
1146-65-2	Naphthalene-d8	6880	10.009				
15067-26-2	Acenaphthene-d10	4350	13.925				
1517-22-2	Phenanthrene-d10	9250	16.698				
1719-03-5	Chrysene-d12	8130	20.947				
1520-96-3	Perylene-d12	8130	23.027				

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\BN122324\
Data File : BN035817.D
Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:17:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	2882	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6877	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4352	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9250	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8129	0.400	ng	0.00
35) Perylene-d12	23.027	264	8126	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	816	0.113	ng	-0.01
5) Phenol-d6	6.477	99	466	0.054	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1548m	0.369	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3542	0.329	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	609	0.197	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	5853	0.356	ng	-0.01
27) Fluoranthene-d10	18.748	212	10238	0.390	ng	-0.01
31) Terphenyl-d14	19.379	244	8867	0.553	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	759	0.275	ng	# 85
9) Naphthalene	10.052	128	1895	0.104	ng	# 86
12) 2-Methylnaphthalene	11.692	142	1157	0.089	ng	# 90
16) Acenaphthylene	13.636	152	1924	0.105	ng	98
17) Acenaphthene	13.989	154	1204	0.099	ng	99
18) Fluorene	14.994	166	1680	0.097	ng	99
25) Phenanthrene	16.736	178	3237	0.127	ng	100
26) Anthracene	16.835	178	2442	0.106	ng	98
28) Fluoranthene	18.780	202	3731	0.109	ng	99
30) Pyrene	19.147	202	4005	0.133	ng	99
32) Benzo(a)anthracene	20.929	228	2676	0.094	ng	95
33) Chrysene	20.983	228	3497	0.119	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	786	0.070	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.064	276	2211	0.070	ng	99
37) Benzo(b)fluoranthene	22.421	252	3364	0.113	ng	# 65
38) Benzo(k)fluoranthene	22.462	252	2940	0.100	ng	# 60
39) Benzo(a)pyrene	22.942	252	2085	0.085	ng	# 38
40) Dibenzo(a,h)anthracene	25.079	278	1701	0.068	ng	# 44
41) Benzo(g,h,i)perylene	25.667	276	1967	0.075	ng	# 84

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

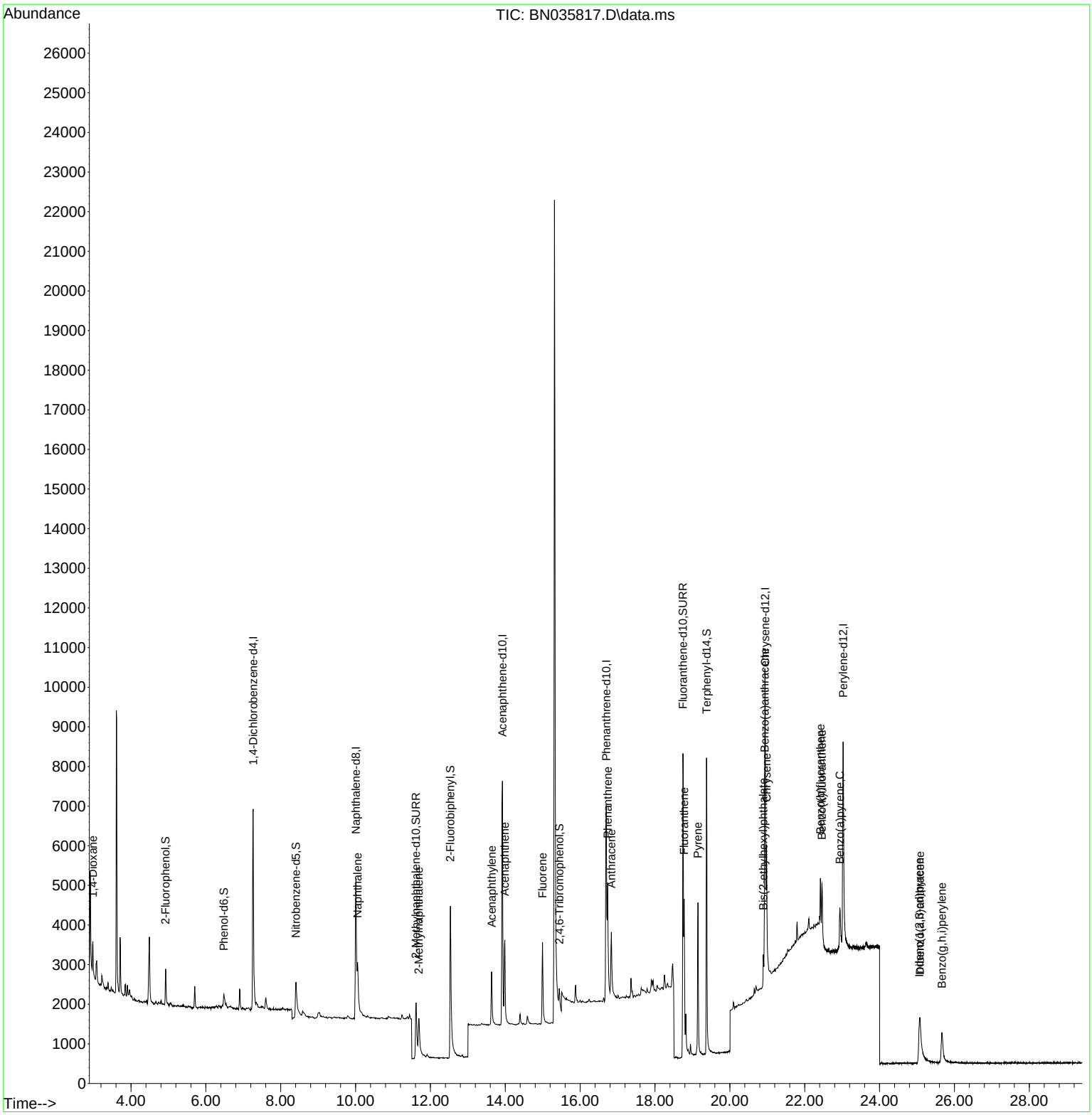
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035817.D
Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

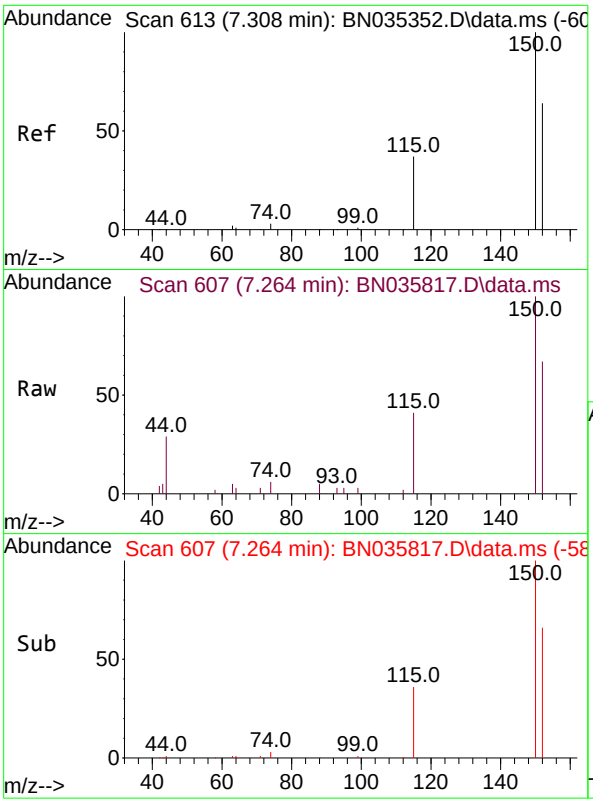
Quant Time: Dec 24 23:17:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

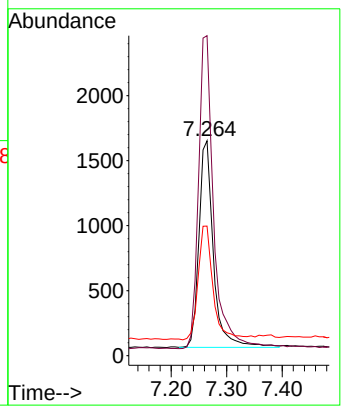




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:152 Resp: 288

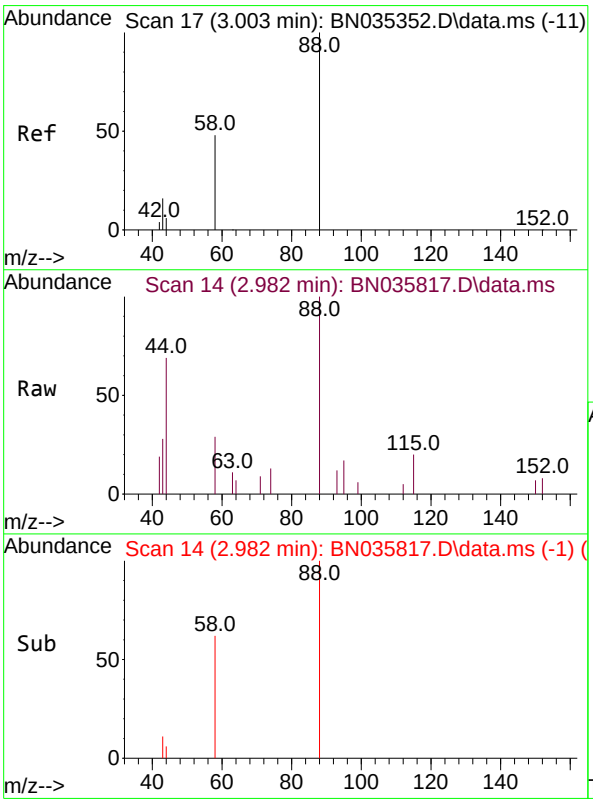
Ion	Ratio	Lower	Upper
152	100		
150	148.9	124.0	186.0
115	60.3	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
APPROVED

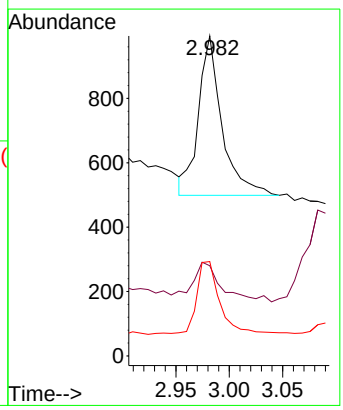
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

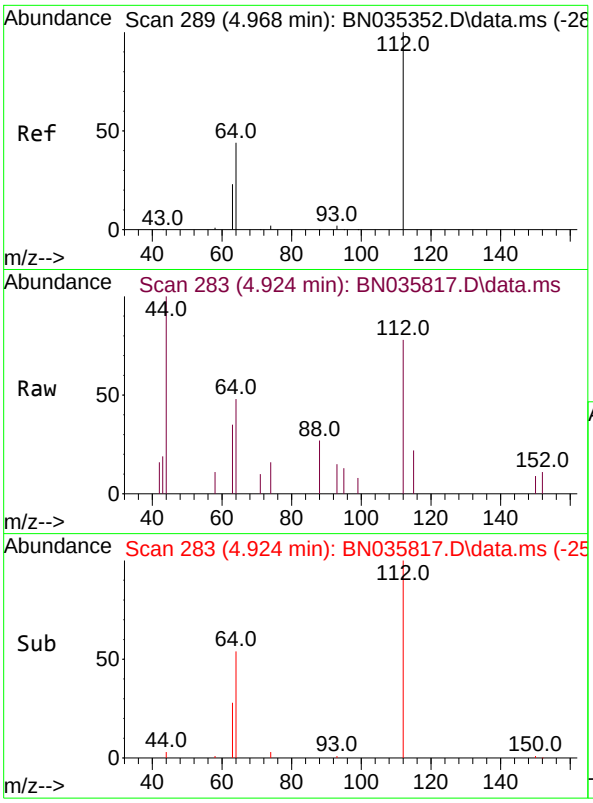


#2
1,4-Dioxane
Concen: 0.275 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 88 Resp: 759

Ion	Ratio	Lower	Upper
88	100		
43	31.1	17.2	25.8#
58	45.8	44.5	66.7





#4
2-Fluorophenol
Concen: 0.113 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

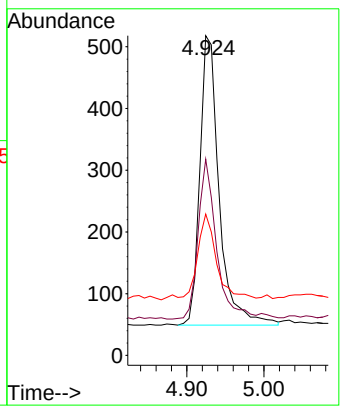
Tgt Ion:112 Resp: 81

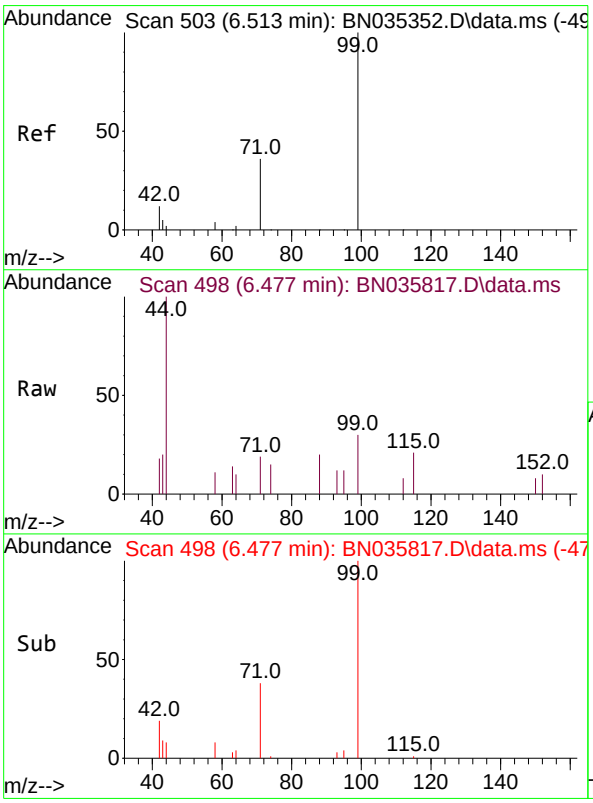
Ion	Ratio	Lower	Upper
112	100		
64	52.1	39.8	59.8
63	30.0	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

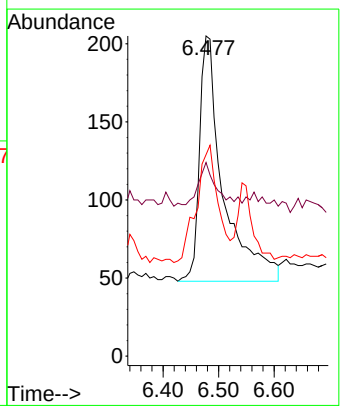


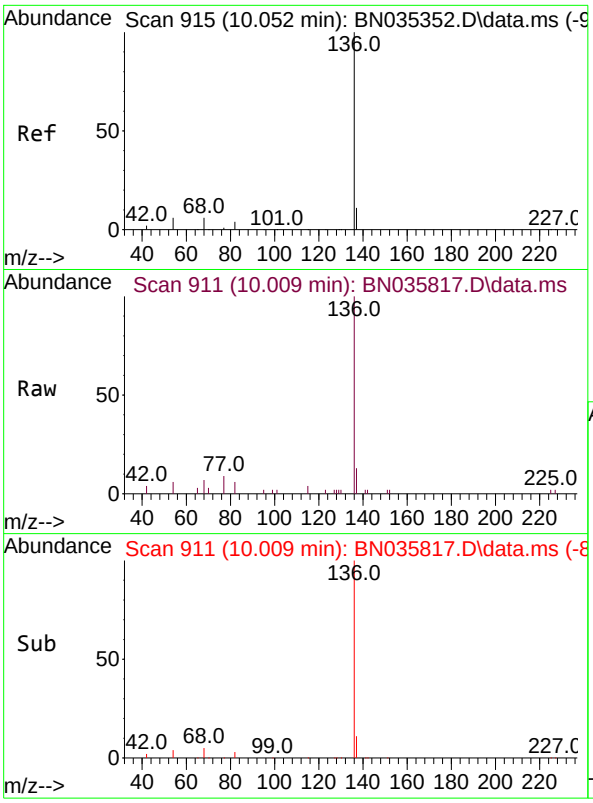


#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 99 Resp: 466

Ion	Ratio	Lower	Upper
99	100		
42	12.9	11.4	17.2
71	43.6	29.3	43.9

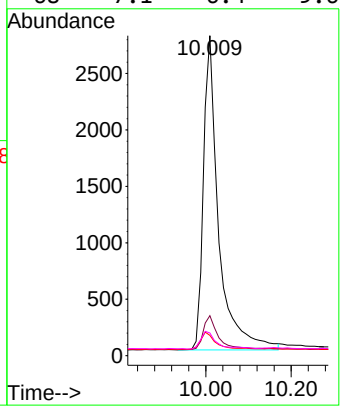




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:136 Resp: 687

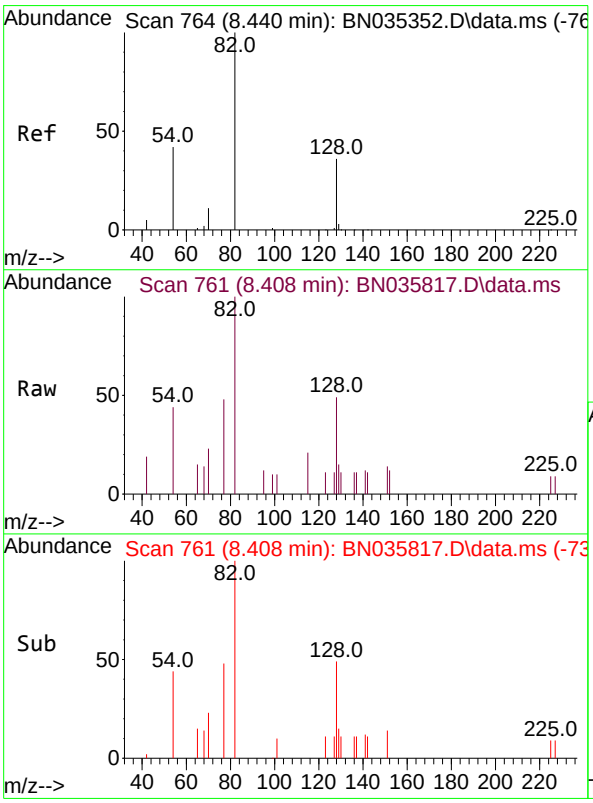
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.3	6.1	9.1
68	7.1	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
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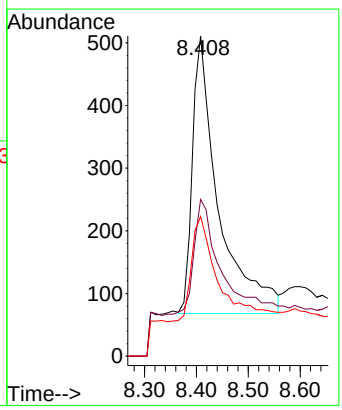
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

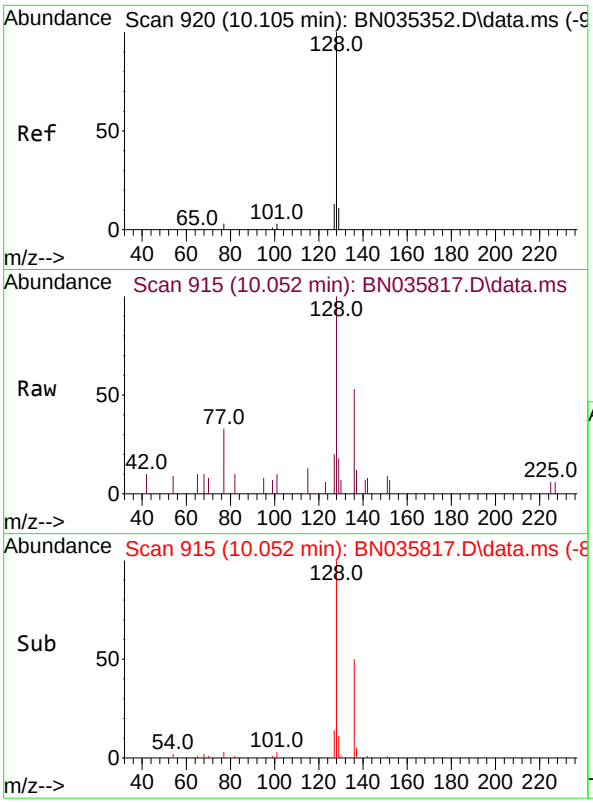


#8
Nitrobenzene-d5
Concen: 0.369 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 82 Resp: 1548

Ion	Ratio	Lower	Upper
82	100		
128	48.9	33.4	50.0
54	43.6	36.7	55.1

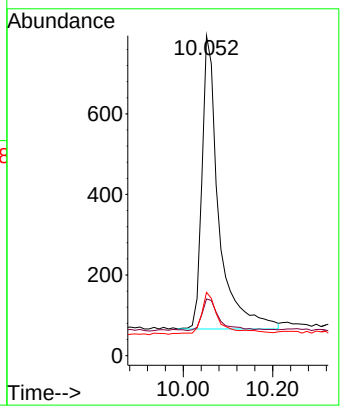




#9
Naphthalene
Concen: 0.104 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:128 Resp: 189

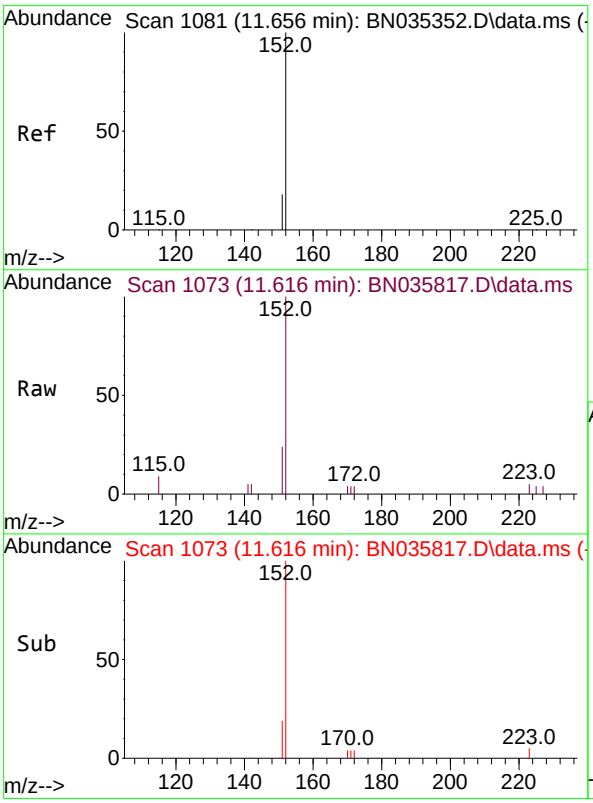
Ion	Ratio	Lower	Upper
128	100		
129	17.8	9.8	14.6#
127	19.8	11.4	17.2#



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
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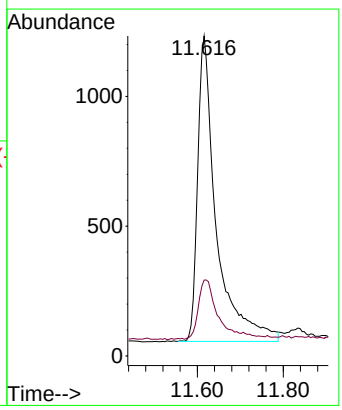
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

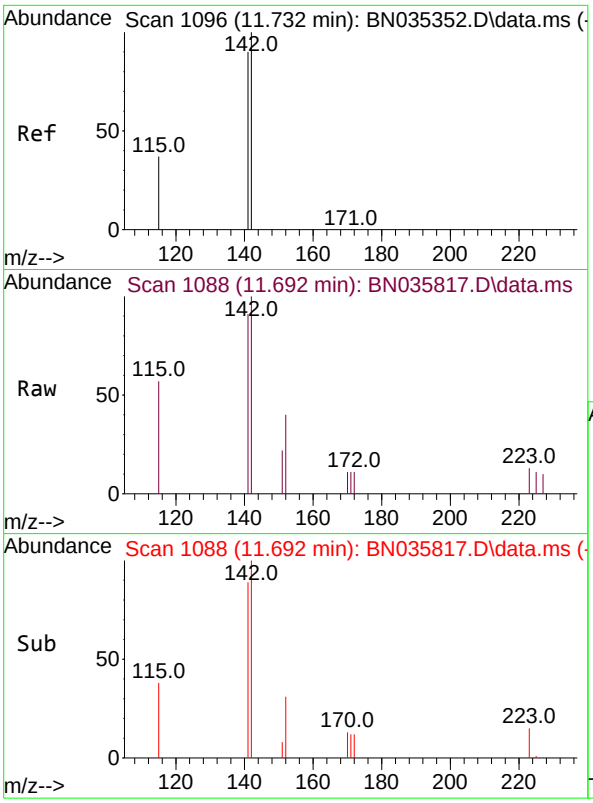


#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:152 Resp: 3542

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

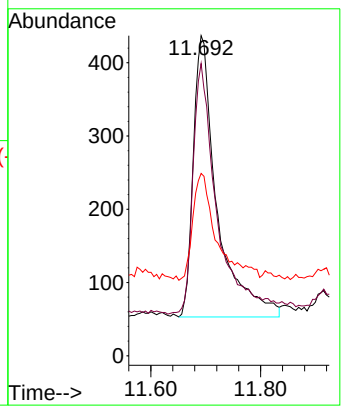




#12
2-Methylnaphthalene
Concen: 0.089 ng
RT: 11.692 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

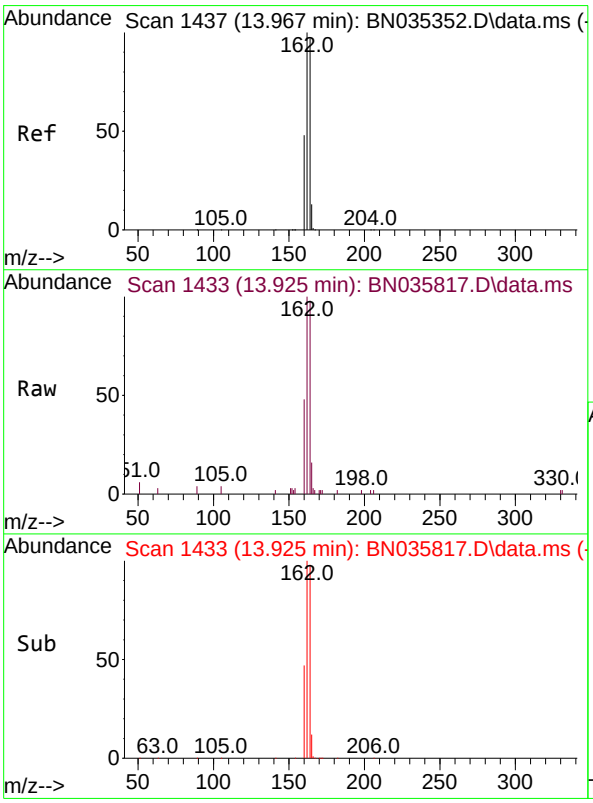
Tgt Ion:142 Resp: 115

Ion	Ratio	Lower	Upper
142	100		
141	91.3	72.2	108.4
115	57.0	31.4	47.0#



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

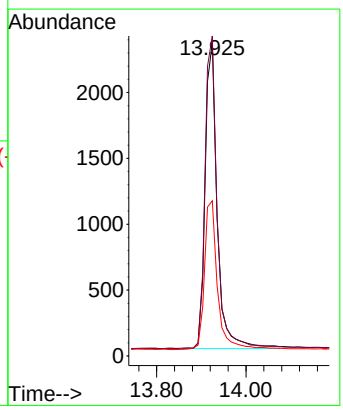
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

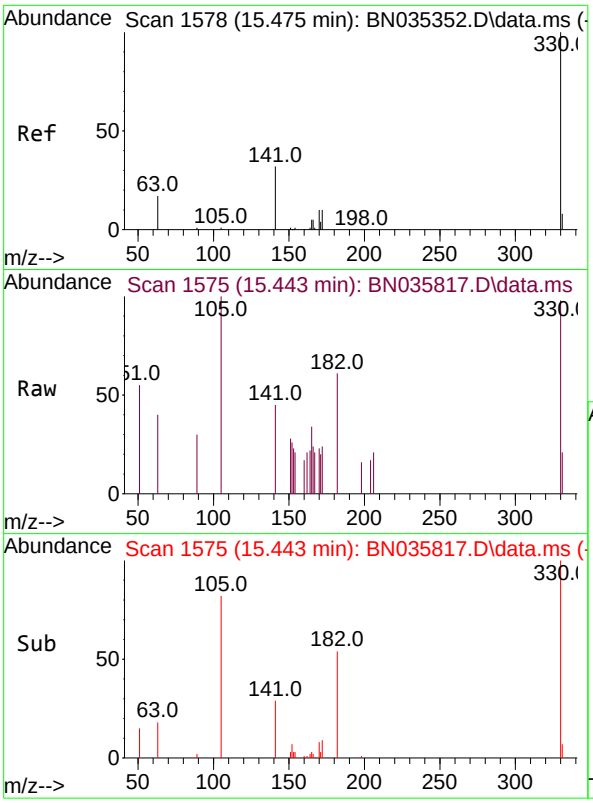


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:164 Resp: 4352

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.6	40.1	60.1

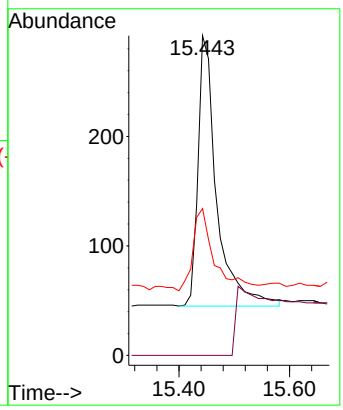




#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

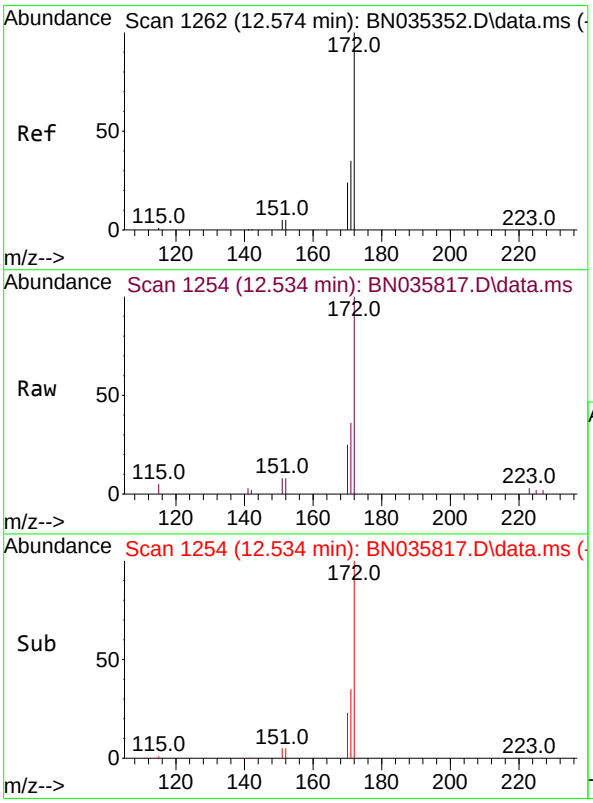
Tgt Ion:330 Resp: 60

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.3	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

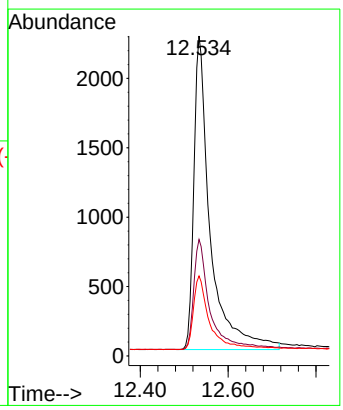
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

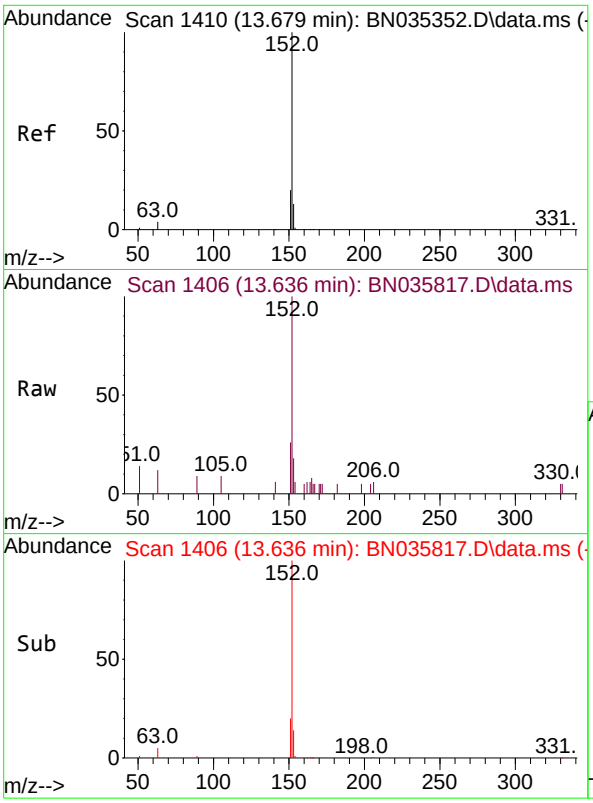


#15
2-Fluorobiphenyl
Concen: 0.356 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:172 Resp: 5853

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	25.0	19.8	29.8

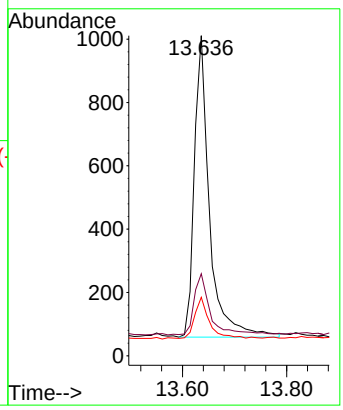




#16
Acenaphthylene
Concen: 0.105 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:152 Resp: 192

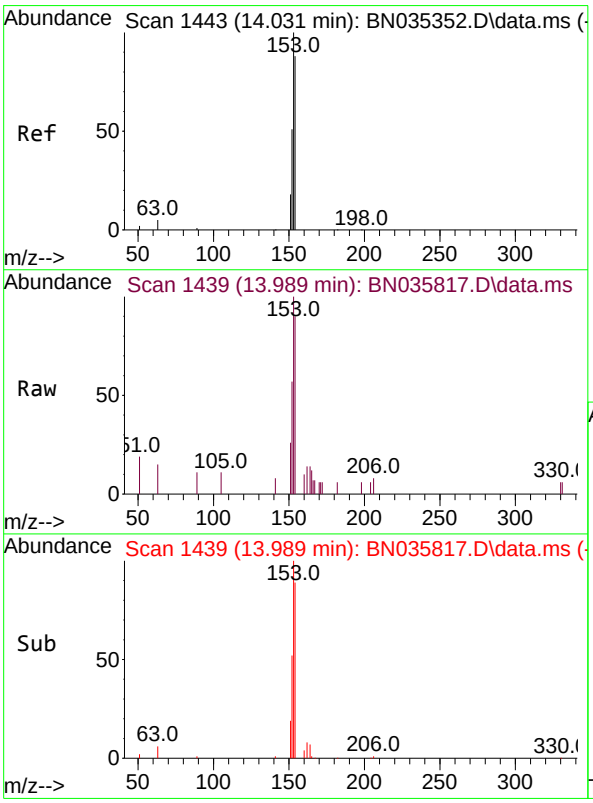
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.2	24.2
153	14.4	10.4	15.6



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
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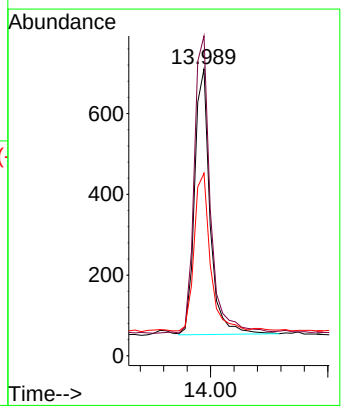
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

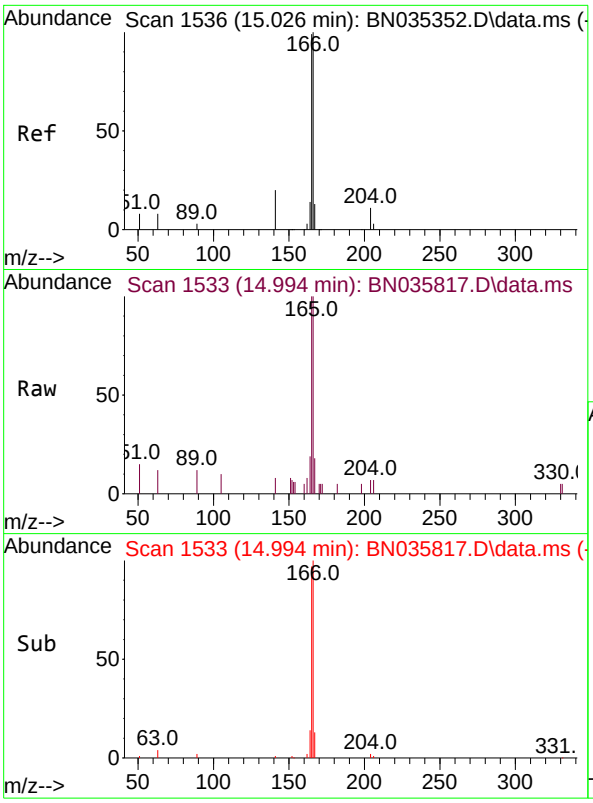


#17
Acenaphthene
Concen: 0.099 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:154 Resp: 1204

Ion	Ratio	Lower	Upper
154	100		
153	117.5	92.6	139.0
152	62.0	49.0	73.6

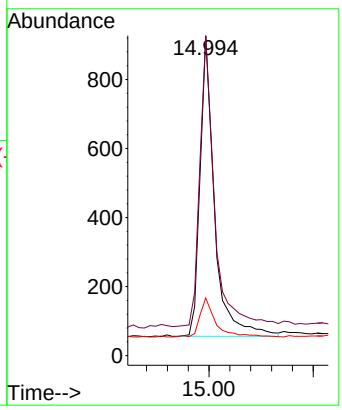




#18
Fluorene
Concen: 0.097 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:166 Resp: 168

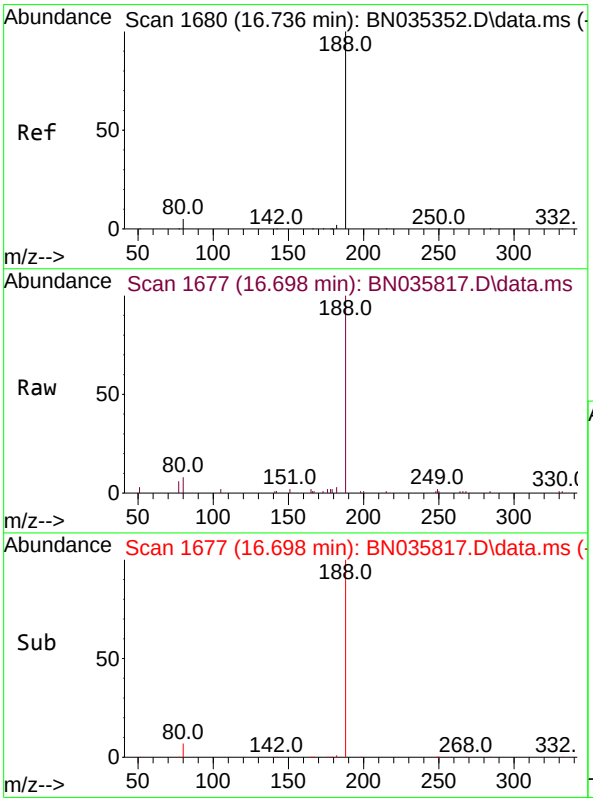
Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.7	119.5
167	14.3	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
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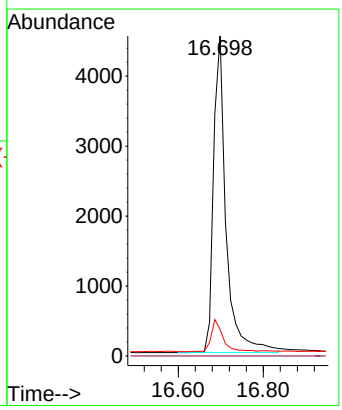
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

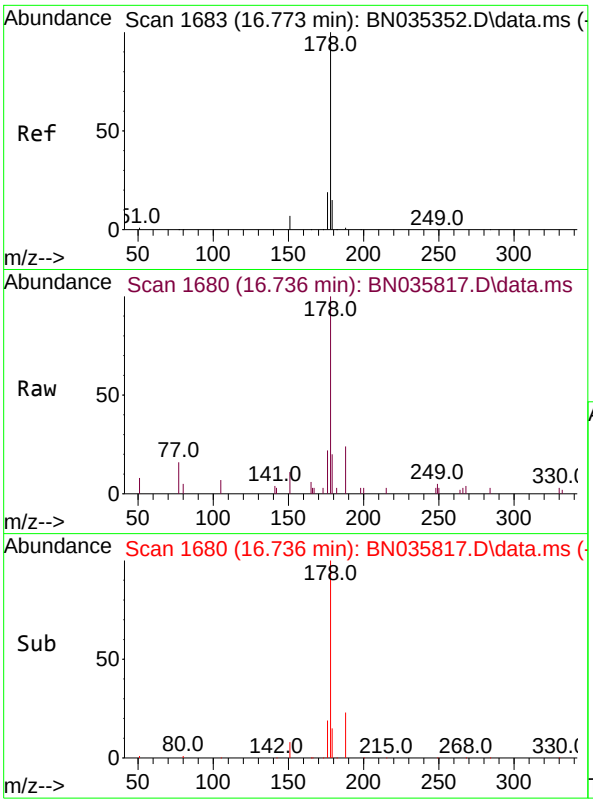


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:188 Resp: 9250

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	4.6	6.8#

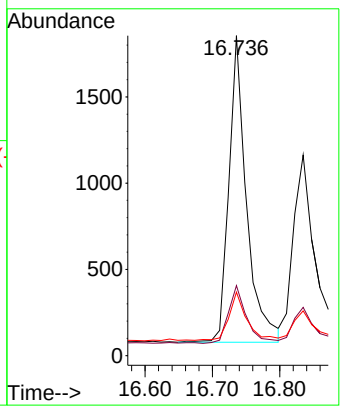




#25
Phenanthrene
Concen: 0.127 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:178 Resp: 323

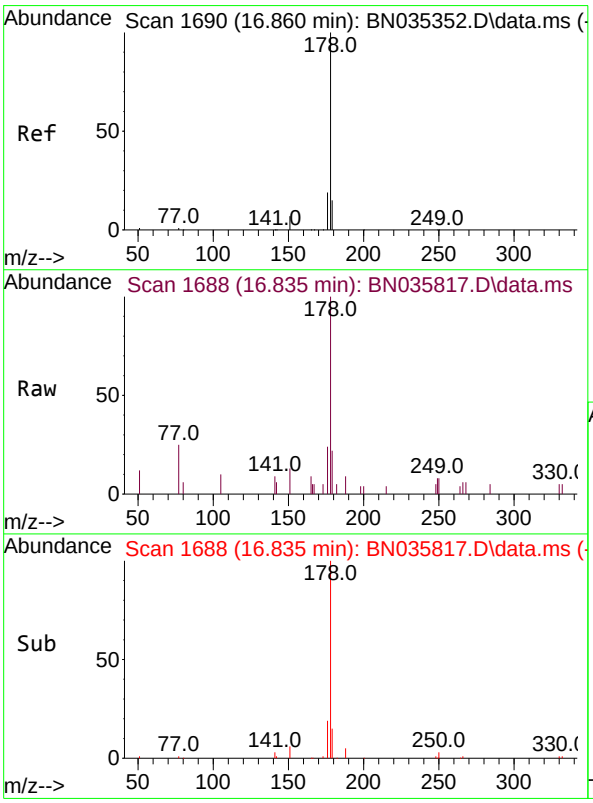
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
APPROVED

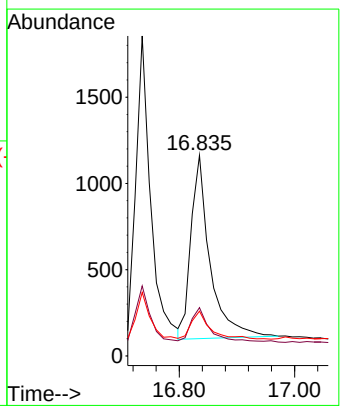
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

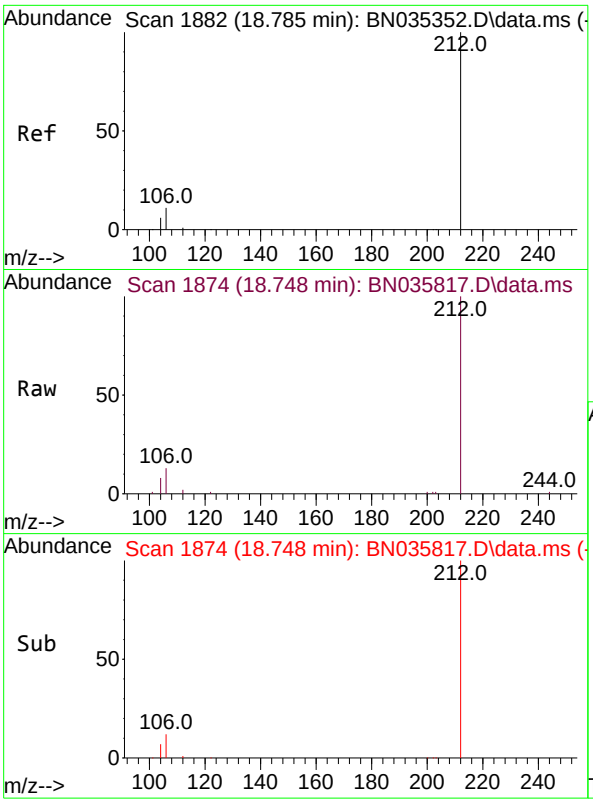


#26
Anthracene
Concen: 0.106 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:178 Resp: 2442

Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.0	22.6
179	16.1	12.6	18.8

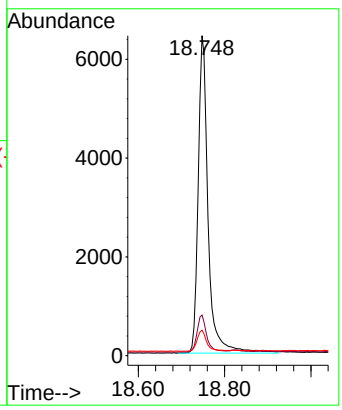




#27
Fluoranthene-d10
Concen: 0.390 ng
RT: 18.748 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:212 Resp: 1023

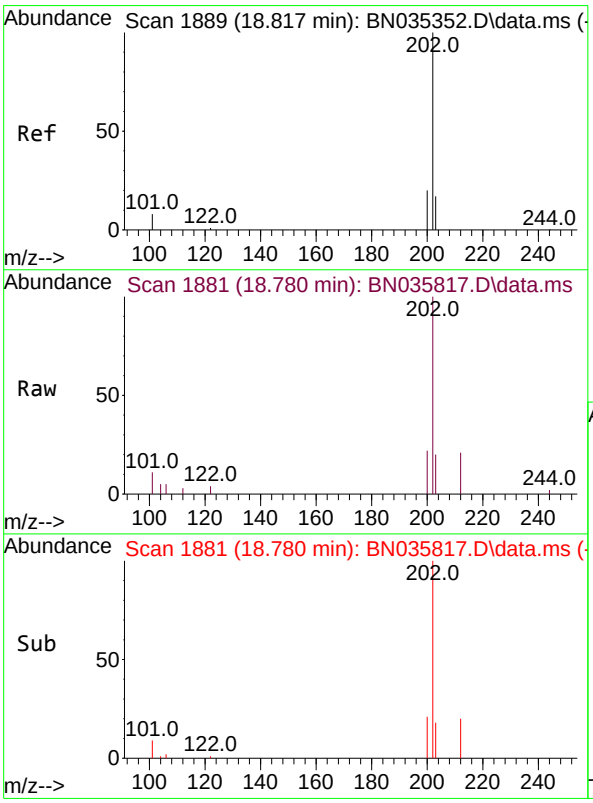
Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
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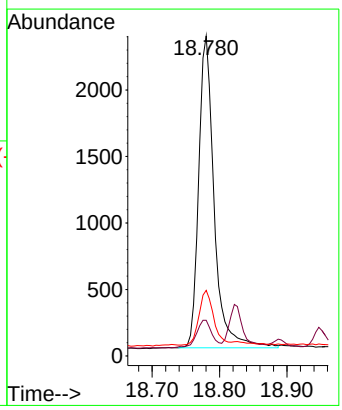
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

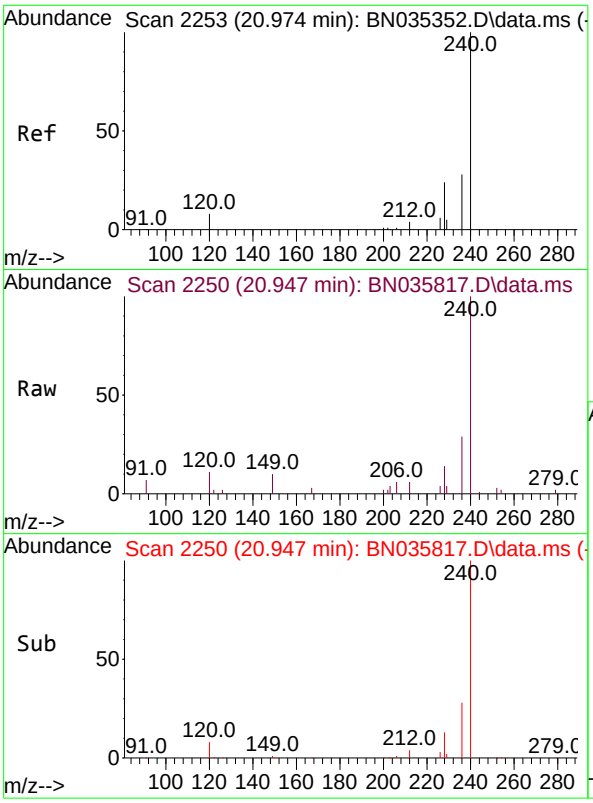


#28
Fluoranthene
Concen: 0.109 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:202 Resp: 3731

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	16.6	13.7	20.5

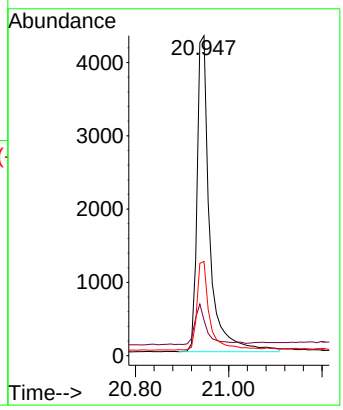




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:240 Resp: 812

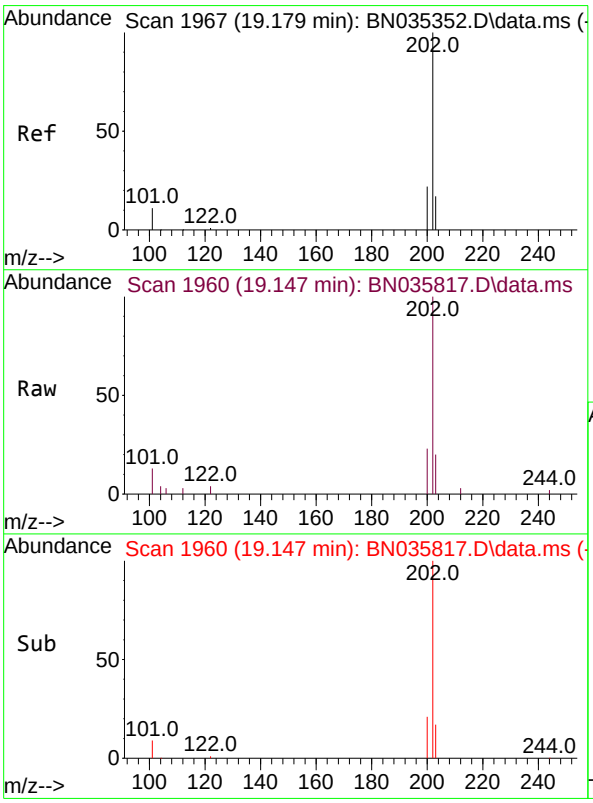
Ion	Ratio	Lower	Upper
240	100		
120	11.1	7.9	11.9
236	29.4	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations APPROVED

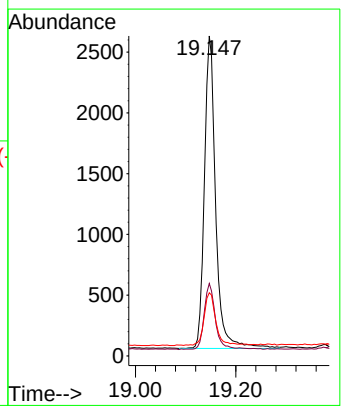
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

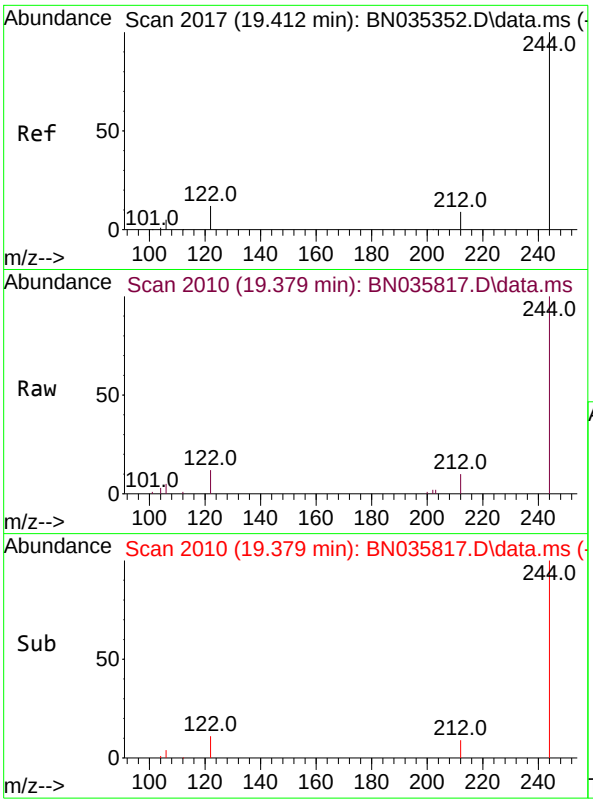


#30
Pyrene
Concen: 0.133 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:202 Resp: 4005

Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.4
203	17.4	14.3	21.5

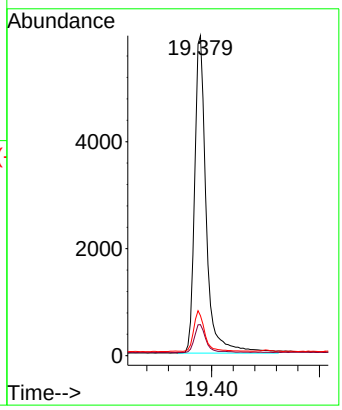




#31
Terphenyl-d14
Concen: 0.553 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:244 Resp: 886

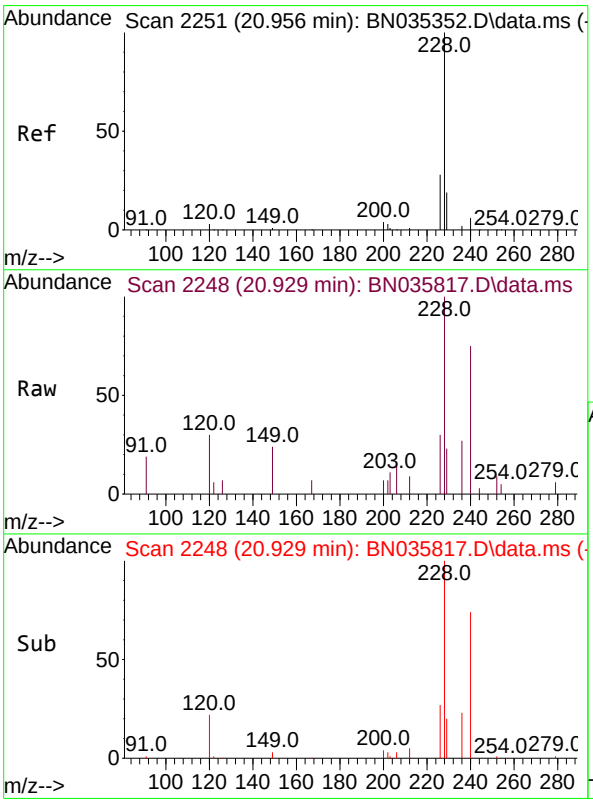
Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.5	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
APPROVED

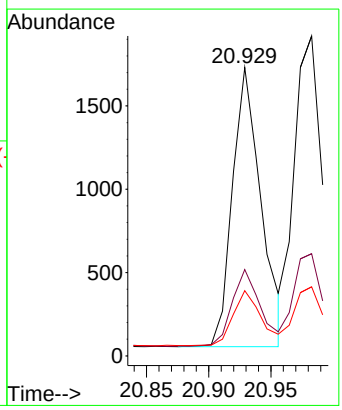
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

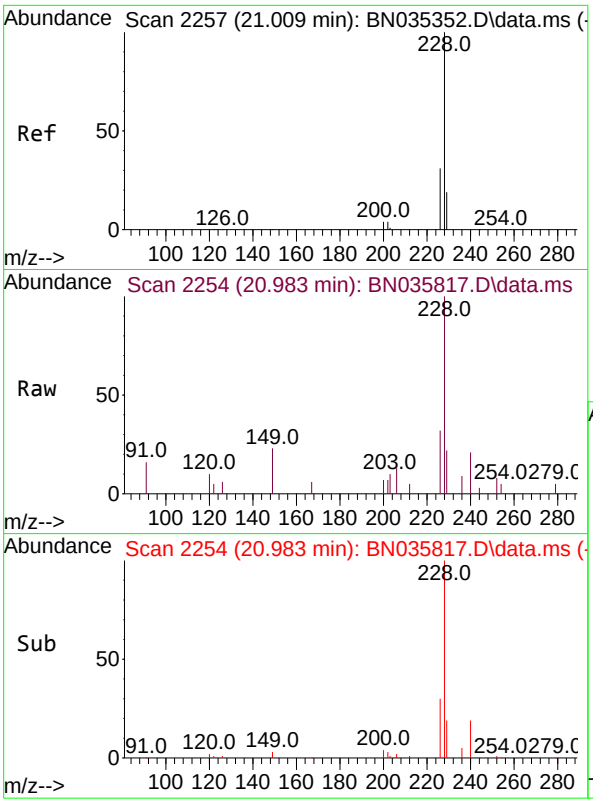


#32
Benzo(a)anthracene
Concen: 0.094 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:228 Resp: 2676

Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.5	33.7
229	22.6	15.8	23.8

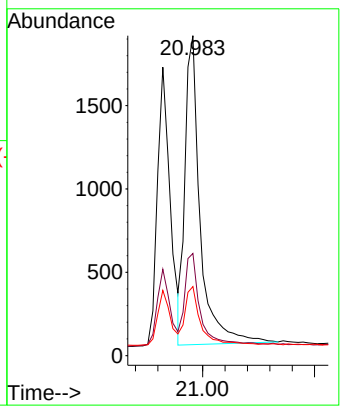




#33
Chrysene
Concen: 0.119 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:228 Resp: 349

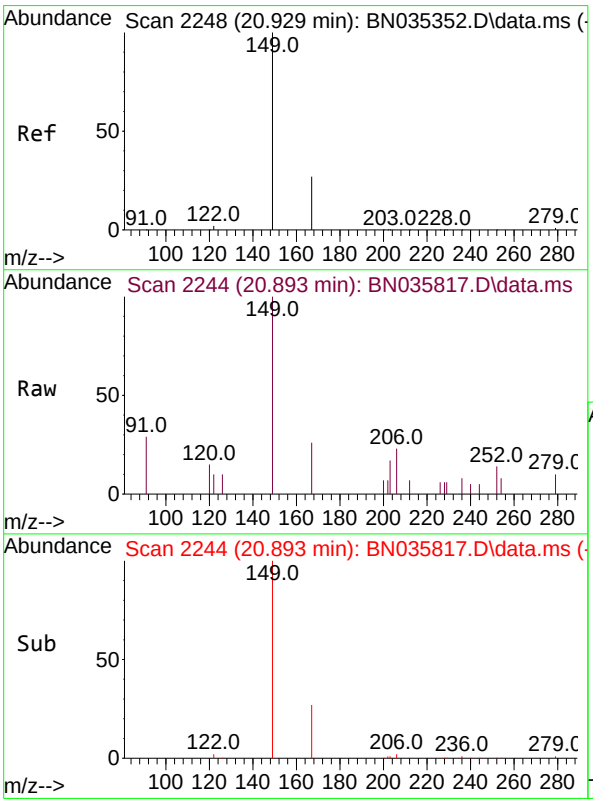
Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.6	37.0
229	21.6	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
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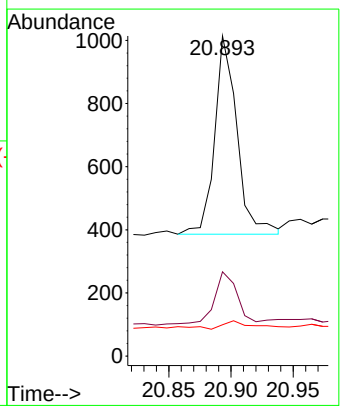
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

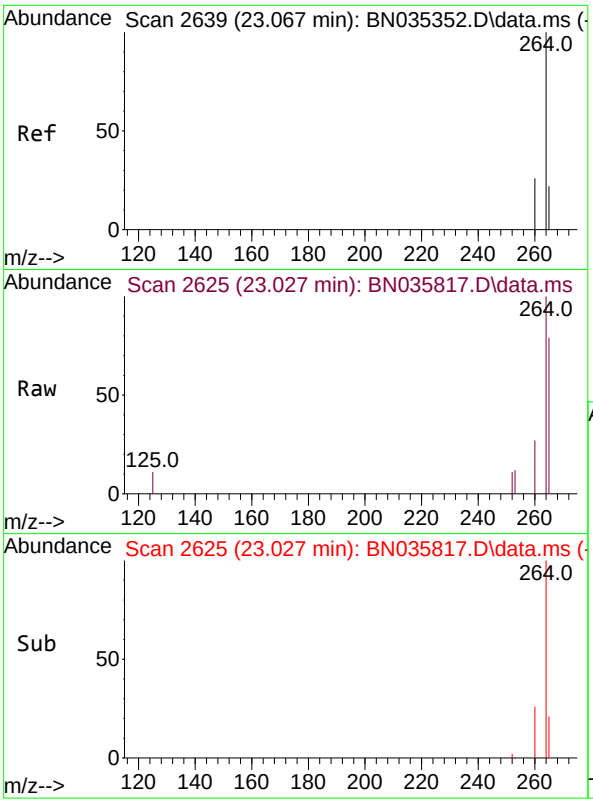


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.070 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:149 Resp: 786

Ion	Ratio	Lower	Upper
149	100		
167	27.0	22.2	33.4
279	6.1	2.7	4.1#

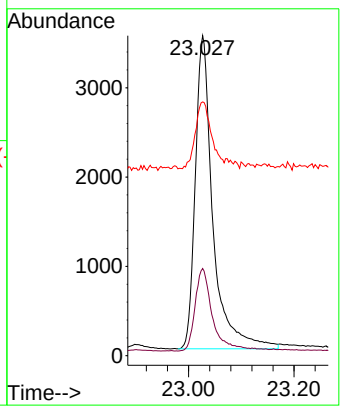




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.027 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:264 Resp: 812

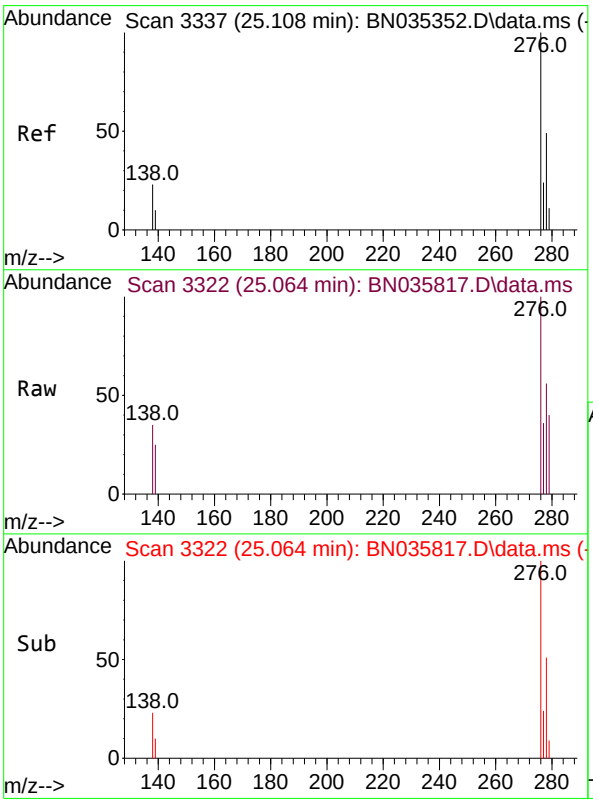
Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	79.3	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
APPROVED

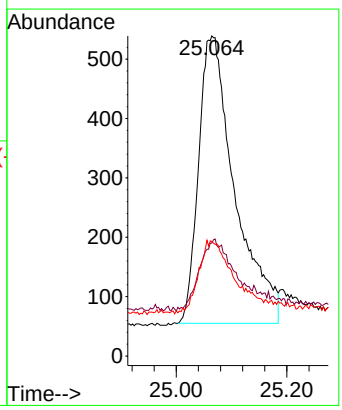
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

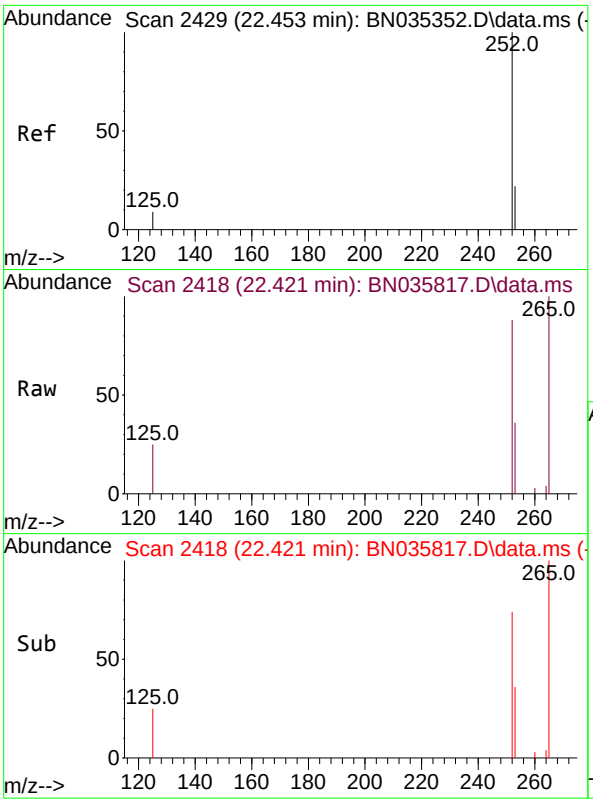


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.070 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:276 Resp: 2211

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	25.1	19.8	29.6

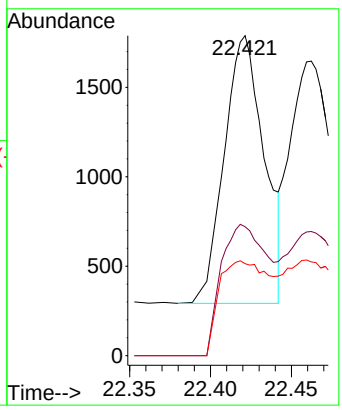




#37
Benzo(b)fluoranthene
Concen: 0.113 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 3364

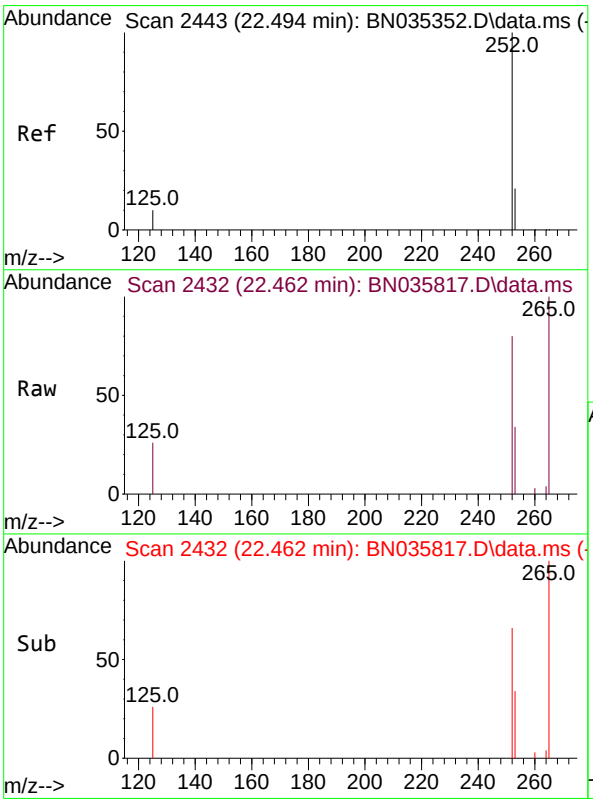
Ion	Ratio	Lower	Upper
252	100		
253	40.3	19.6	29.4#
125	28.7	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
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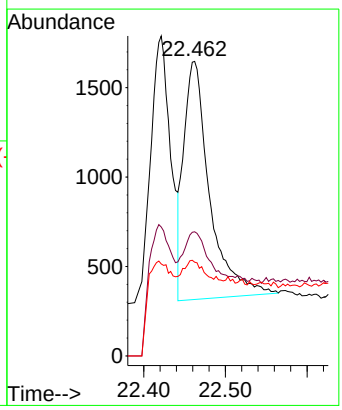
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

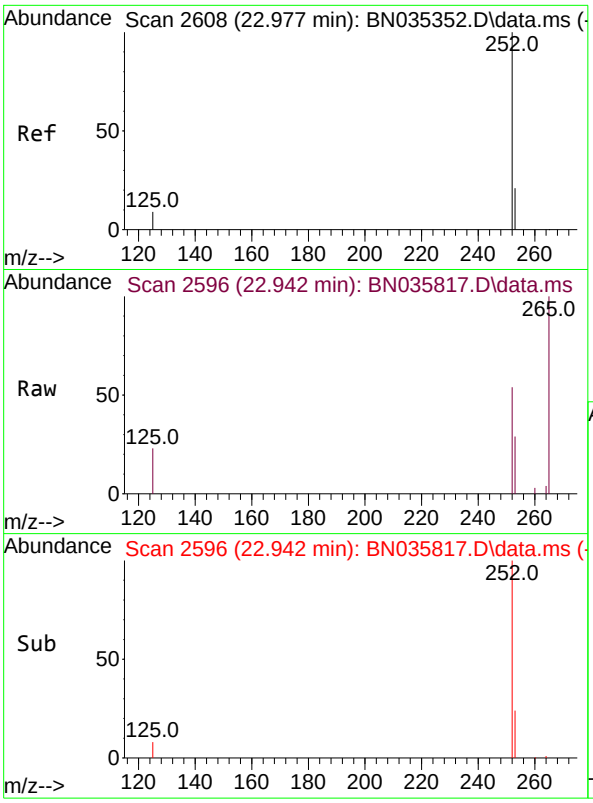


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 2940

Ion	Ratio	Lower	Upper
252	100		
253	42.1	19.5	29.3#
125	31.8	10.2	15.4#

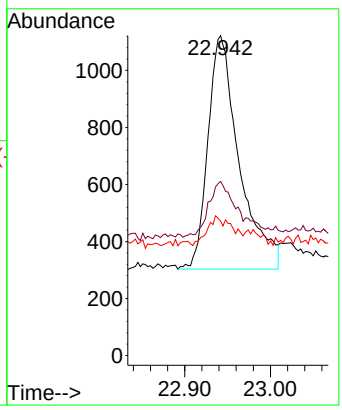




#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 208

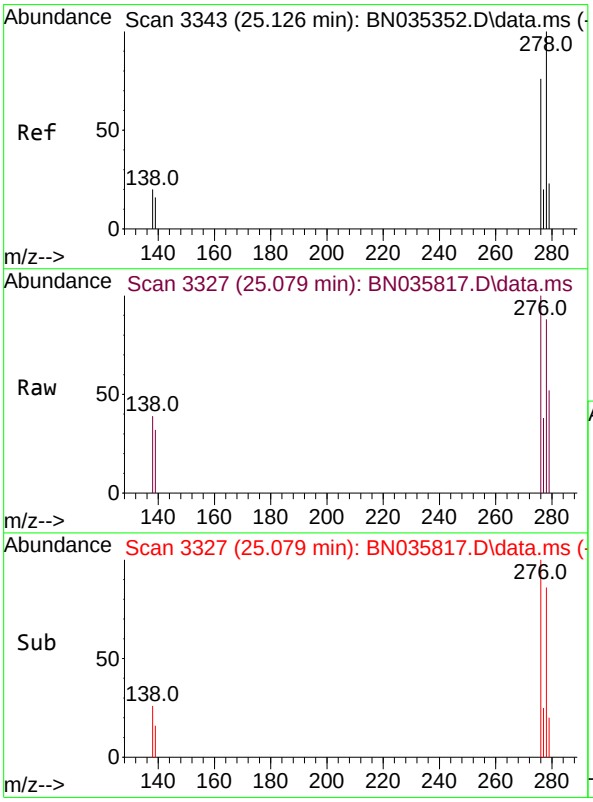
Ion	Ratio	Lower	Upper
252	100		
253	54.5	20.2	30.4#
125	42.1	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
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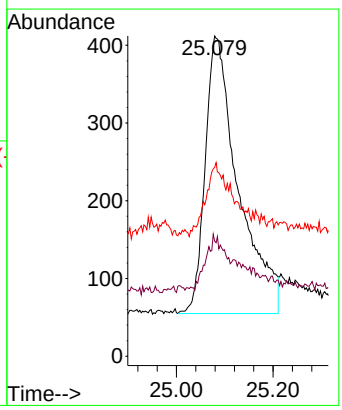
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

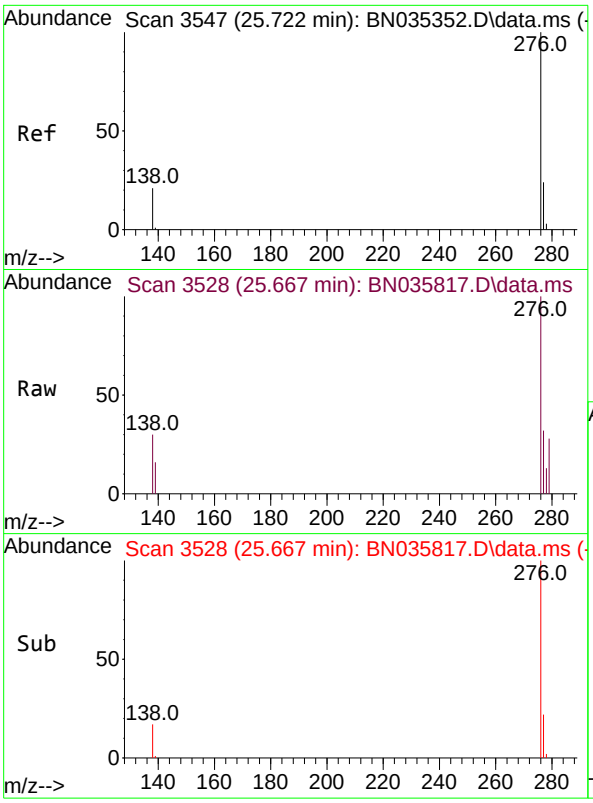


#40
Dibenzo(a,h)anthracene
Concen: 0.068 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:278 Resp: 1701

Ion	Ratio	Lower	Upper
278	100		
139	35.9	14.2	21.4#
279	59.0	20.5	30.7#

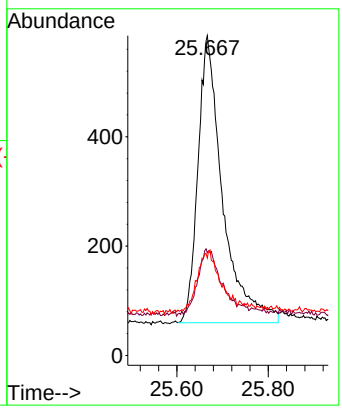




#41
Benzo(g,h,i)perylene
Concen: 0.075 ng
RT: 25.667 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:276 Resp: 196

Ion	Ratio	Lower	Upper
276	100		
277	32.1	19.9	29.9#
138	30.4	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	DUP-07-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035818.D	1	12/23/24 13:29	12/24/24 13:08	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	58 - 132		144%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3050	7.257				
1146-65-2	Naphthalene-d8	7420	10.009				
15067-26-2	Acenaphthene-d10	4770	13.925				
1517-22-2	Phenanthrene-d10	10100	16.698				
1719-03-5	Chrysene-d12	8730	20.947				
1520-96-3	Perylene-d12	8950	23.026				

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\BN122324\
Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 24 23:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3045	0.400	ng		-0.01
7) Naphthalene-d8	10.009	136	7417	0.400	ng		#-0.01
13) Acenaphthene-d10	13.925	164	4769	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10054	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8730	0.400	ng		0.00
35) Perylene-d12	23.026	264	8948	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	828	0.109	ng		-0.01
5) Phenol-d6	6.477	99	491	0.054	ng		-0.01
8) Nitrobenzene-d5	8.408	82	1728m	0.381	ng		0.00
11) 2-Methylnaphthalene-d10	11.611	152	4011	0.346	ng		-0.01
14) 2,4,6-Tribromophenol	15.443	330	736	0.217	ng		-0.01
15) 2-Fluorobiphenyl	12.534	172	6868	0.381	ng		-0.01
27) Fluoranthene-d10	18.747	212	11709	0.411	ng		-0.01
31) Terphenyl-d14	19.379	244	9932	0.577	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	761	0.261	ng		89
9) Naphthalene	10.052	128	2140	0.109	ng	#	90
12) 2-Methylnaphthalene	11.687	142	1347	0.096	ng	#	92
16) Acenaphthylene	13.636	152	2222	0.111	ng		98
17) Acenaphthene	13.978	154	1464	0.110	ng		99
18) Fluorene	14.994	166	2023	0.106	ng		99
25) Phenanthrene	16.736	178	3999	0.145	ng		98
26) Anthracene	16.835	178	3041	0.122	ng		99
28) Fluoranthene	18.780	202	4605	0.124	ng		98
30) Pyrene	19.147	202	4782	0.148	ng		99
32) Benzo(a)anthracene	20.929	228	3217	0.105	ng		95
33) Chrysene	20.983	228	4153	0.132	ng		98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1111	0.092	ng		99
36) Indeno(1,2,3-cd)pyrene	25.064	276	2885	0.082	ng		97
37) Benzo(b)fluoranthene	22.418	252	5898	0.180	ng	#	67
38) Benzo(k)fluoranthene	22.459	252	3531m	0.110	ng		
39) Benzo(a)pyrene	22.942	252	2686	0.100	ng	#	49
40) Dibenzo(a,h)anthracene	25.085	278	2103	0.076	ng	#	58
41) Benzo(g,h,i)perylene	25.667	276	2516	0.087	ng	#	83

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

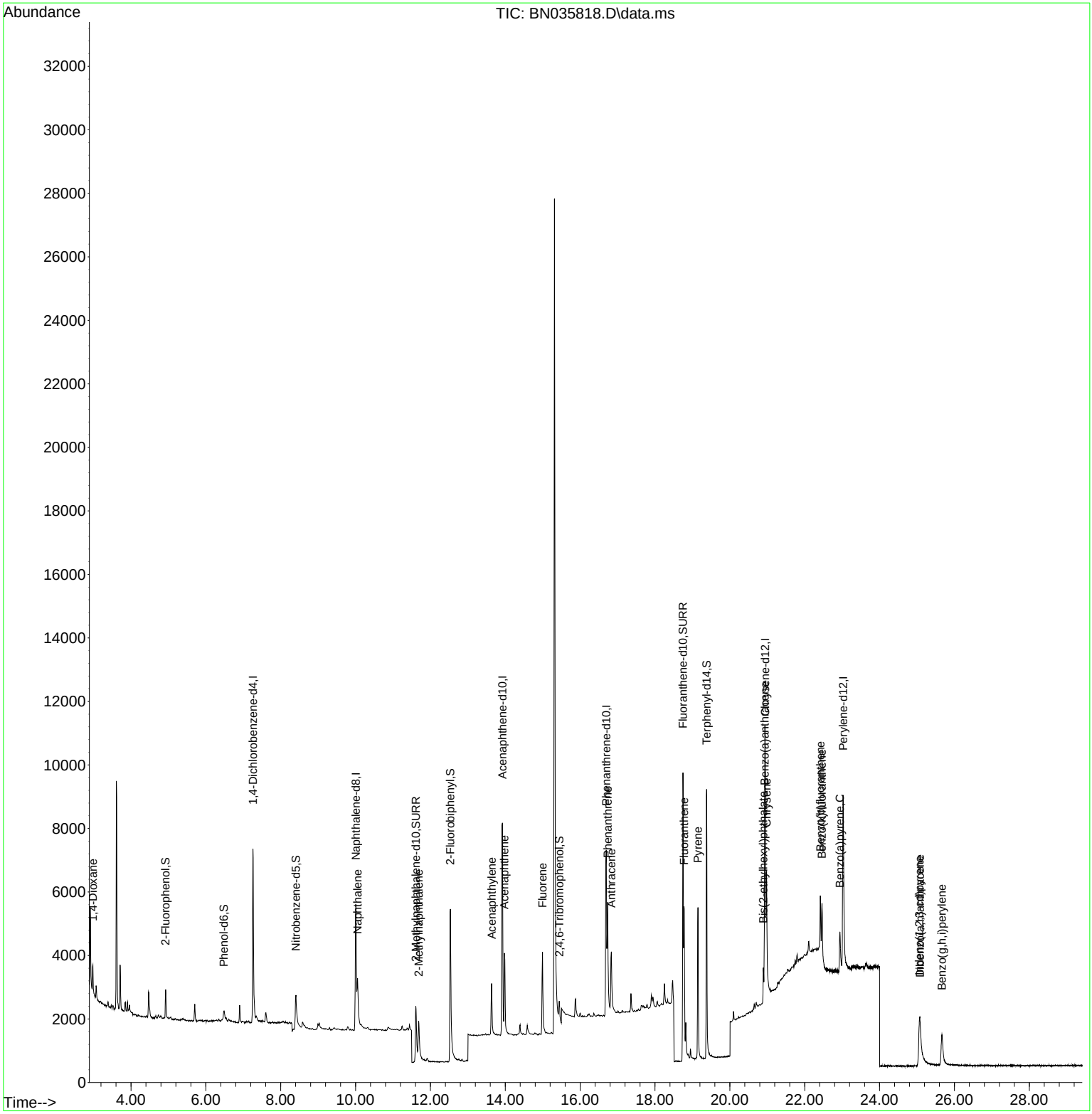
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

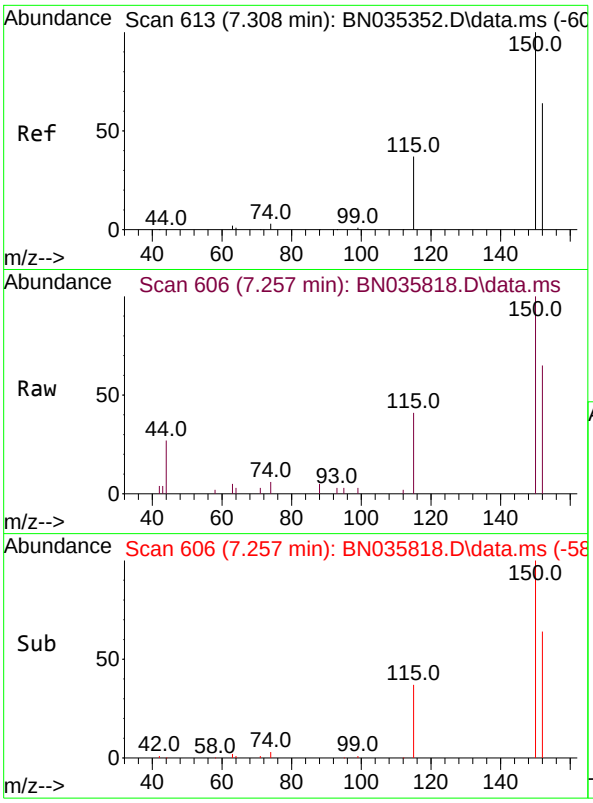
Quant Time: Dec 24 23:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

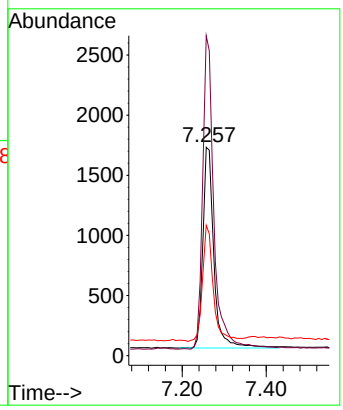




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:152 Resp: 304

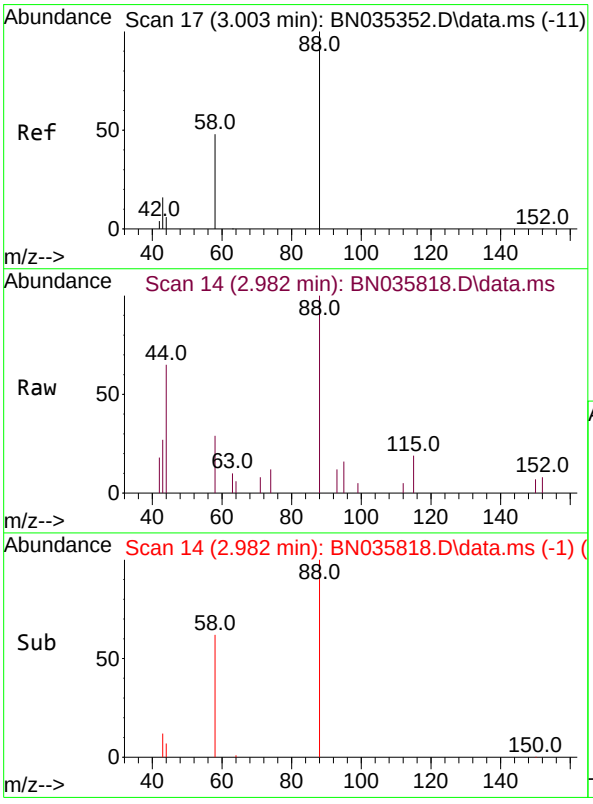
Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.0	186.0
115	62.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
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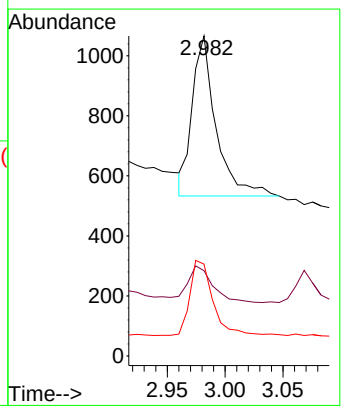
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

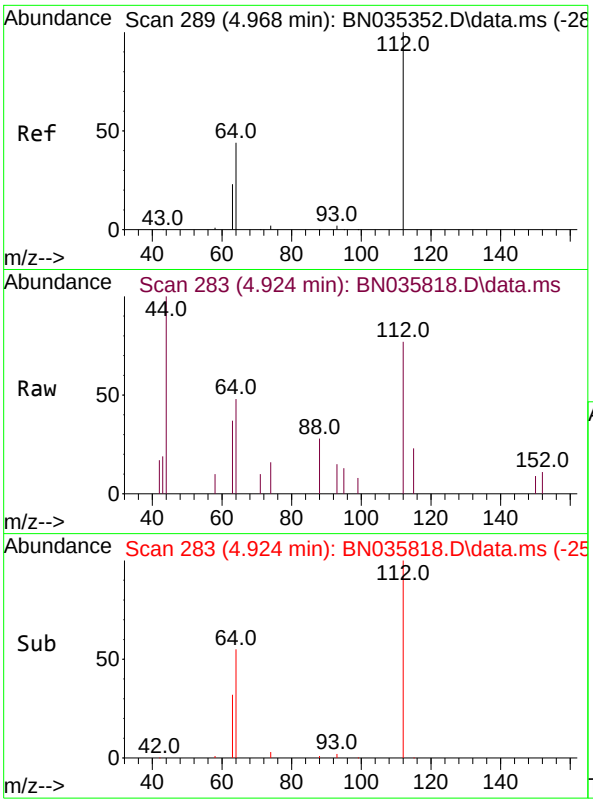


#2
1,4-Dioxane
Concen: 0.261 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 88 Resp: 761

Ion	Ratio	Lower	Upper
88	100		
43	24.3	17.2	25.8
58	45.9	44.5	66.7





#4
2-Fluorophenol
Concen: 0.109 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

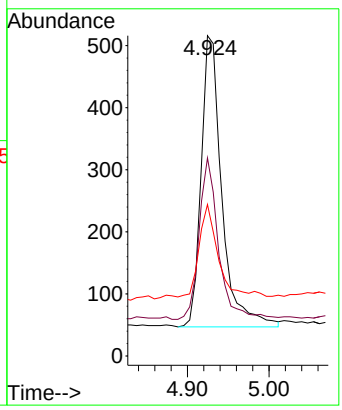
Tgt Ion:112 Resp: 82

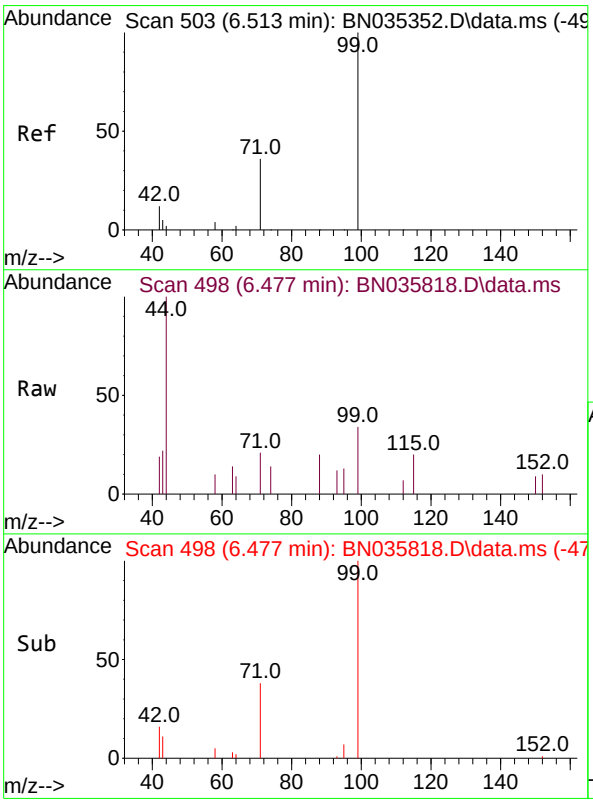
Ion	Ratio	Lower	Upper
112	100		
64	52.1	39.8	59.8
63	31.0	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

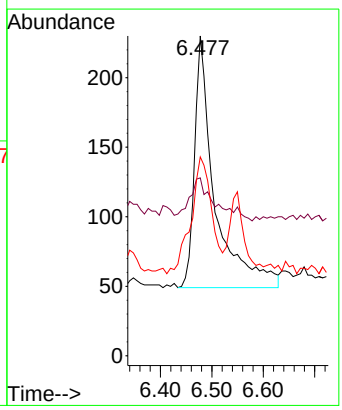


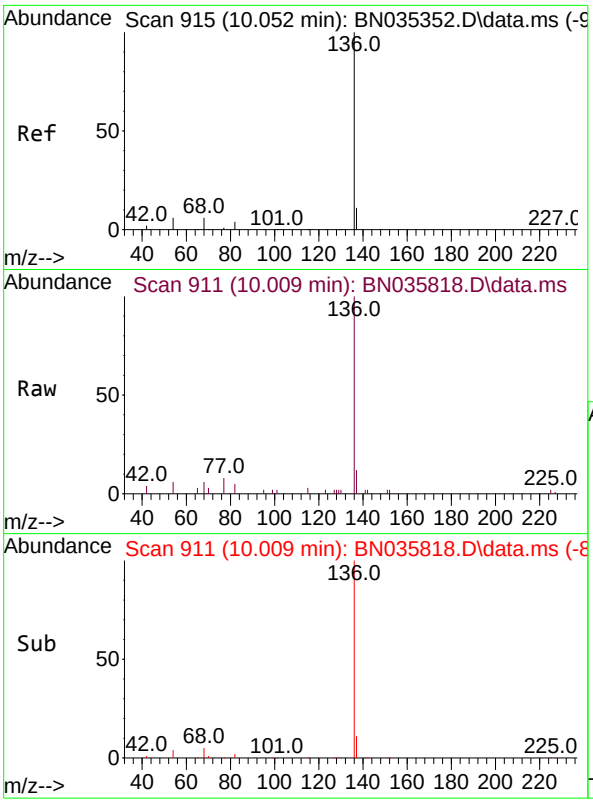


#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 99 Resp: 491

Ion	Ratio	Lower	Upper
99	100		
42	23.8	11.4	17.2#
71	47.9	29.3	43.9#

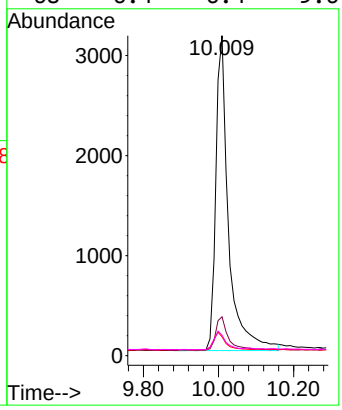




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:136 Resp: 741

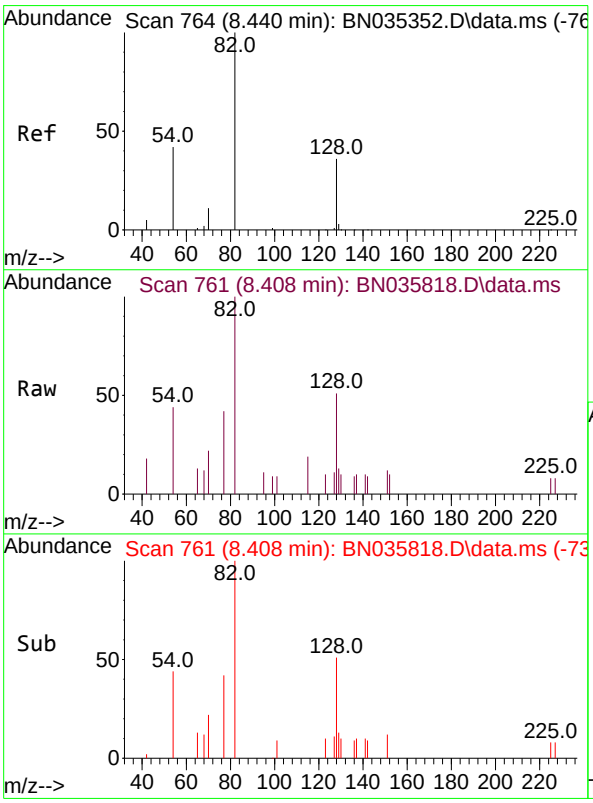
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	5.9	6.1	9.1#
68	6.4	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
APPROVED

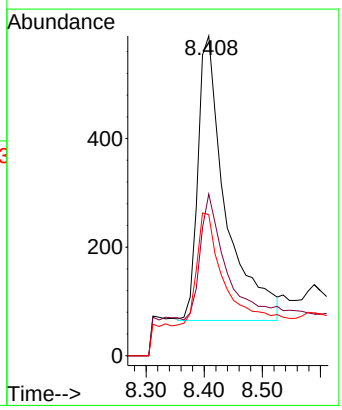
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

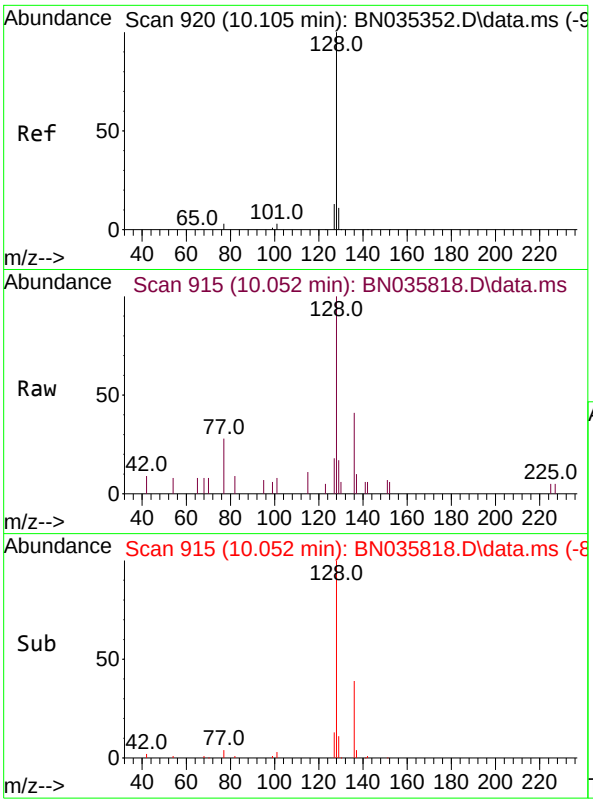


#8
Nitrobenzene-d5
Concen: 0.381 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 82 Resp: 1728

Ion	Ratio	Lower	Upper
82	100		
128	50.6	33.4	50.0#
54	44.1	36.7	55.1

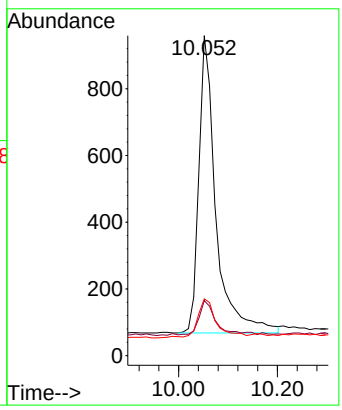




#9
Naphthalene
Concen: 0.109 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:128 Resp: 214

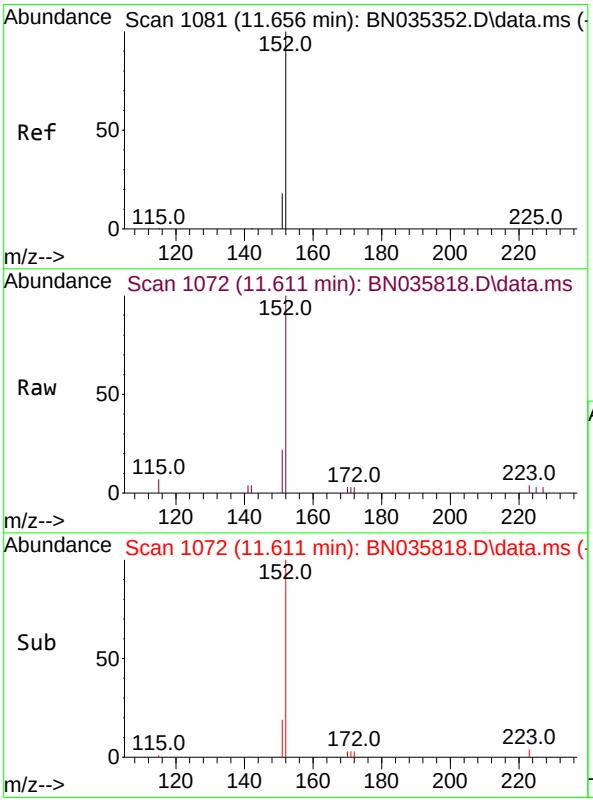
Ion	Ratio	Lower	Upper
128	100		
129	17.2	9.8	14.6#
127	17.7	11.4	17.2#



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
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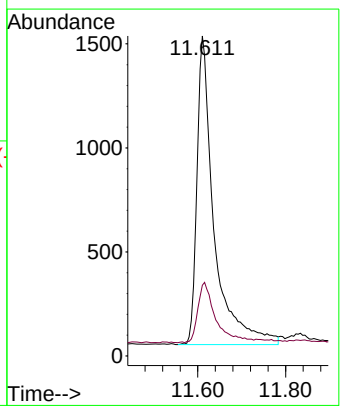
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

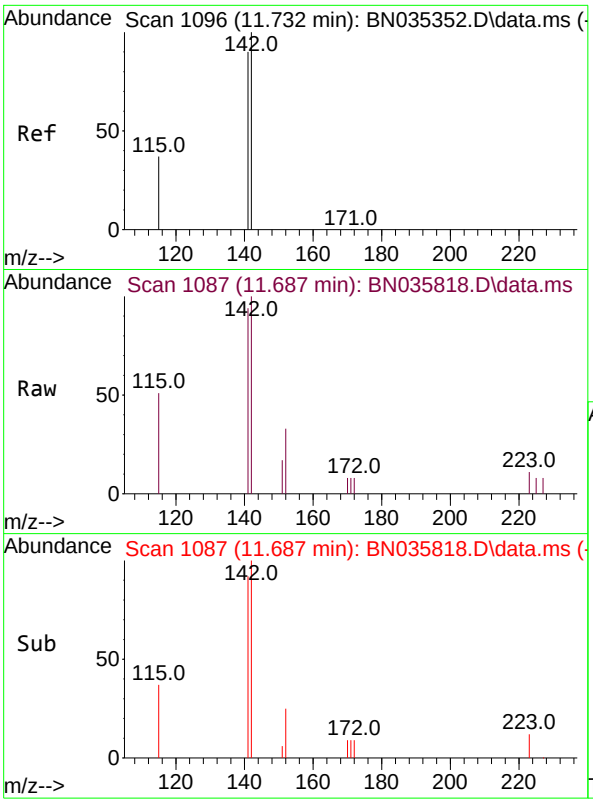


#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:152 Resp: 4011

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	25.0

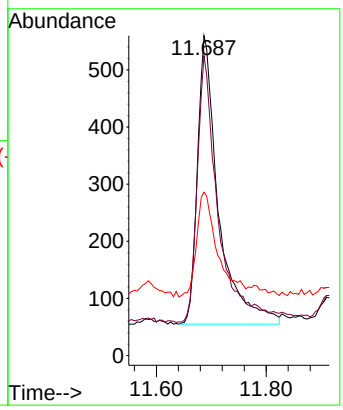




#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.687 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:142 Resp: 134

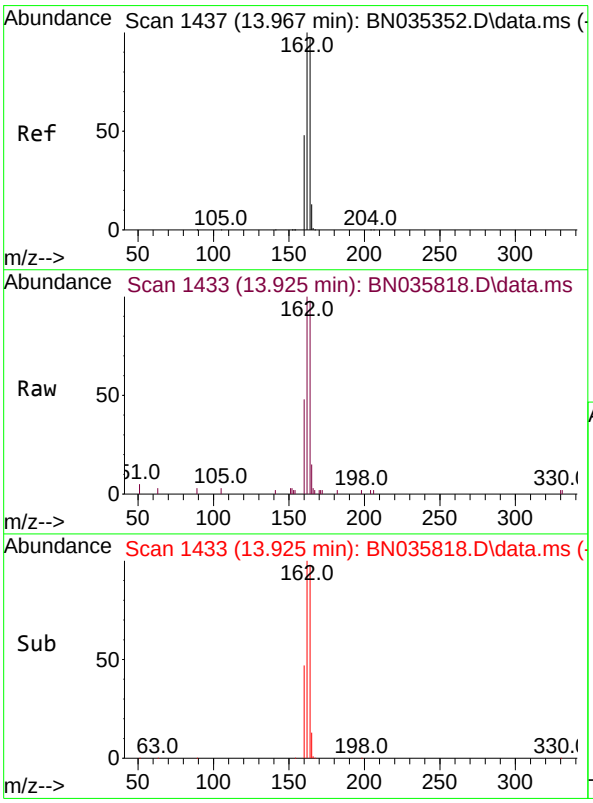
Ion	Ratio	Lower	Upper
142	100		
141	93.8	72.2	108.4
115	51.1	31.4	47.0



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
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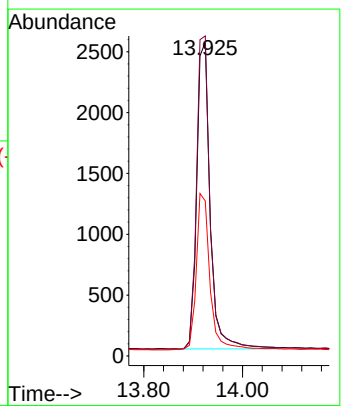
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

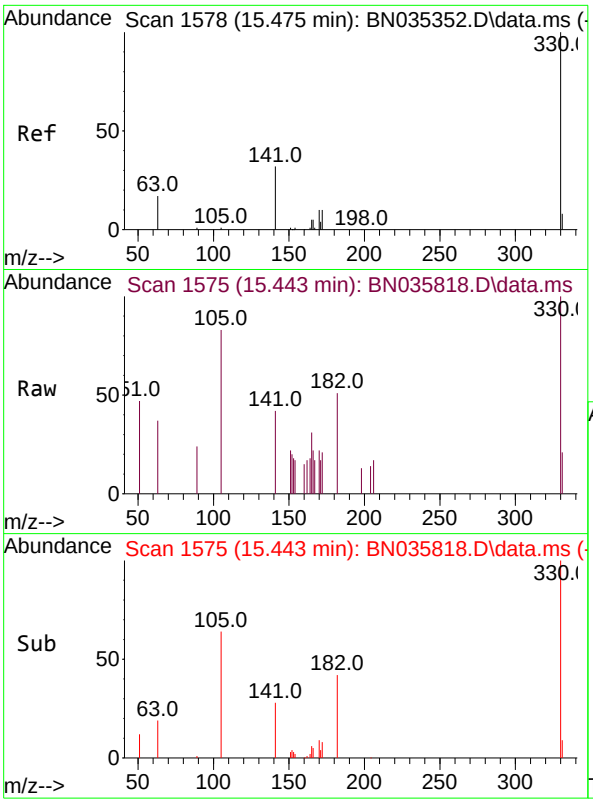


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:164 Resp: 4769

Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.2	123.2
160	49.4	40.1	60.1

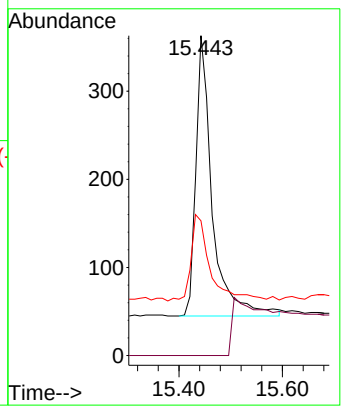




#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:330 Resp: 73

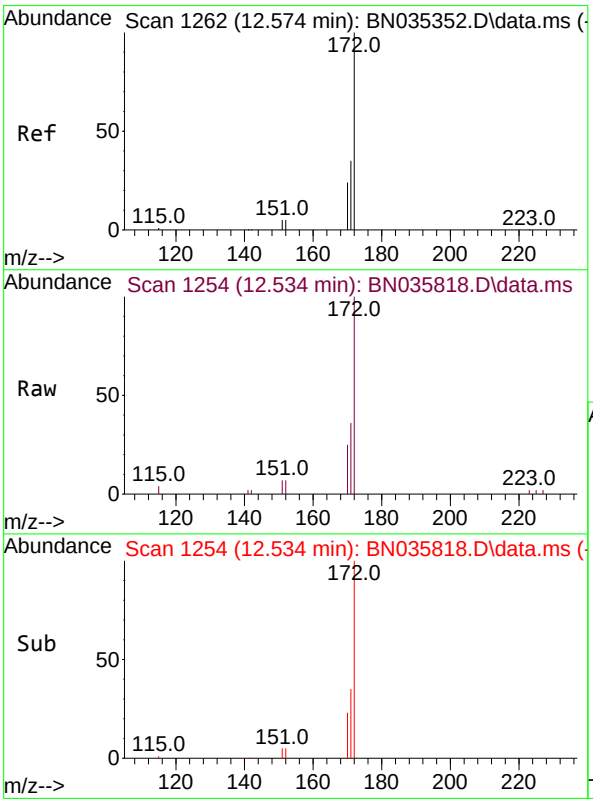
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.9	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
APPROVED

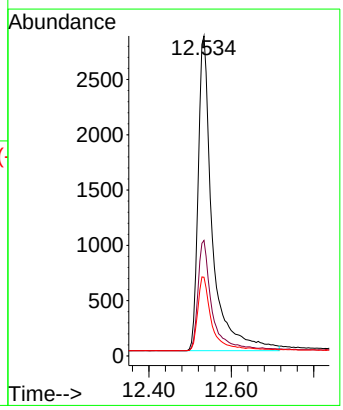
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

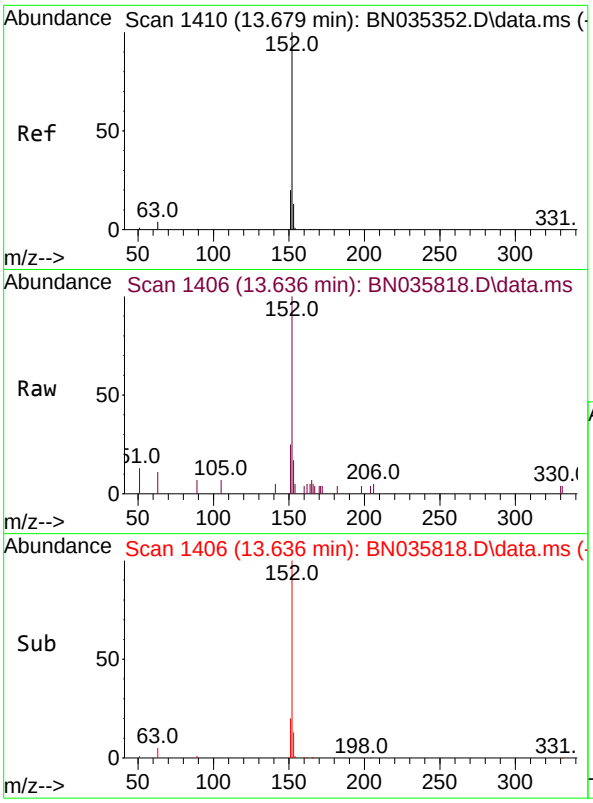


#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:172 Resp: 6868

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.6	19.8	29.8

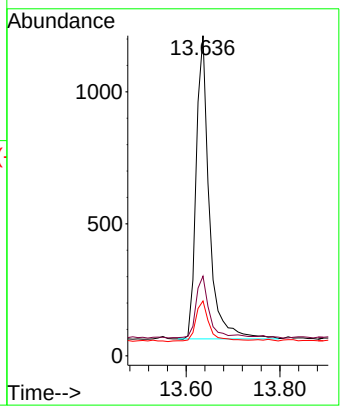




#16
Acenaphthylene
Concen: 0.111 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:152 Resp: 222

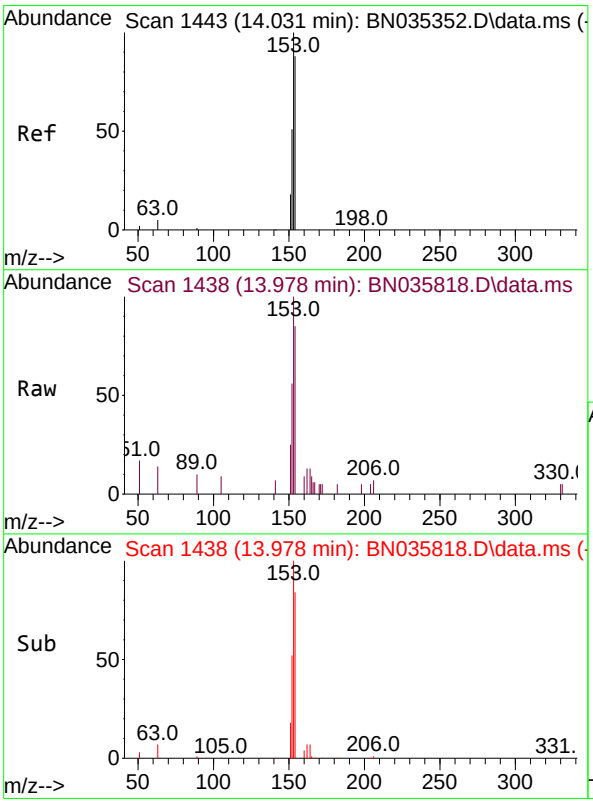
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	14.4	10.4	15.6



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations APPROVED

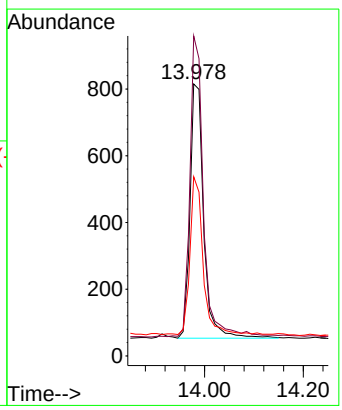
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

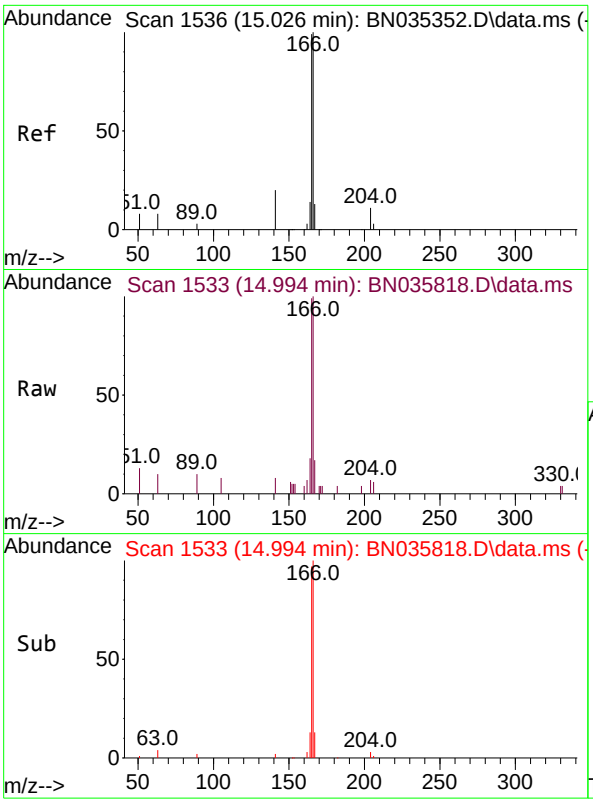


#17
Acenaphthene
Concen: 0.110 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:154 Resp: 1464

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	58.9	49.0	73.6

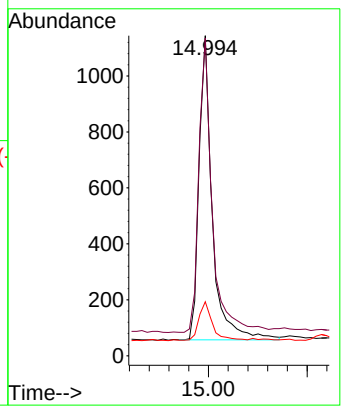




#18
Fluorene
Concen: 0.106 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:166 Resp: 202

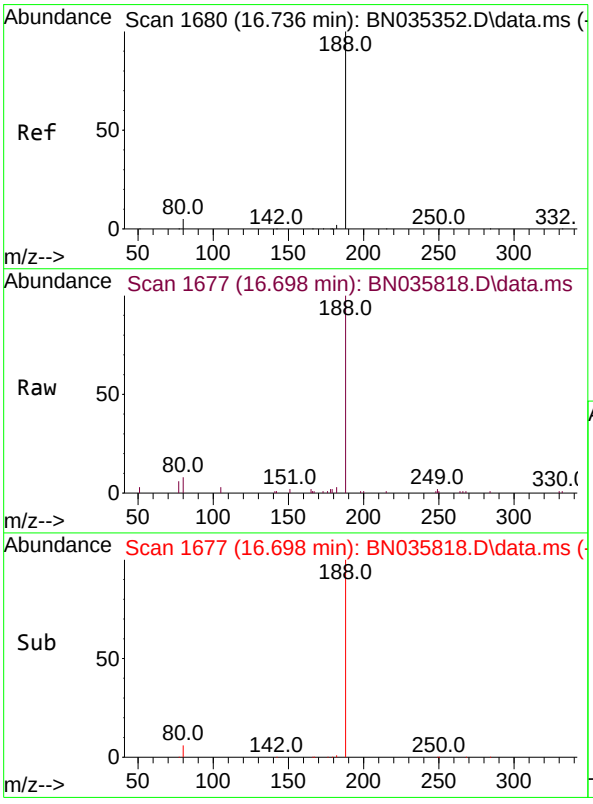
Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.7	119.5
167	13.4	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
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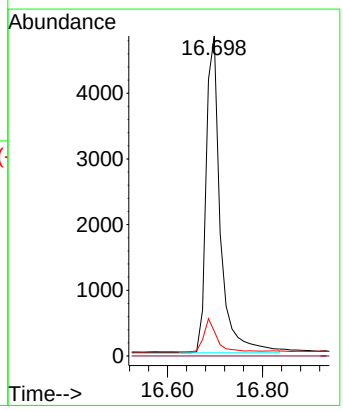
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

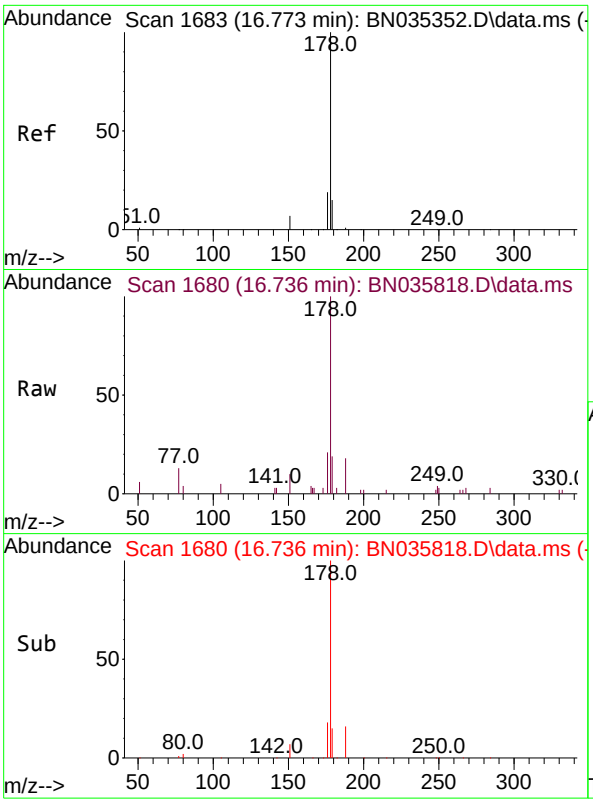


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:188 Resp: 10054

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#

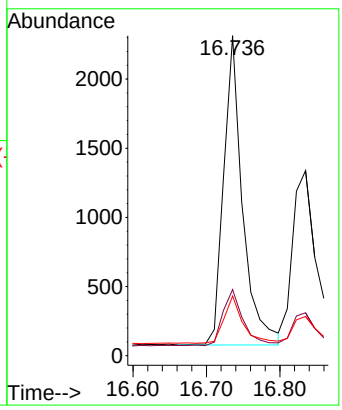




#25
Phenanthrene
Concen: 0.145 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:178 Resp: 399

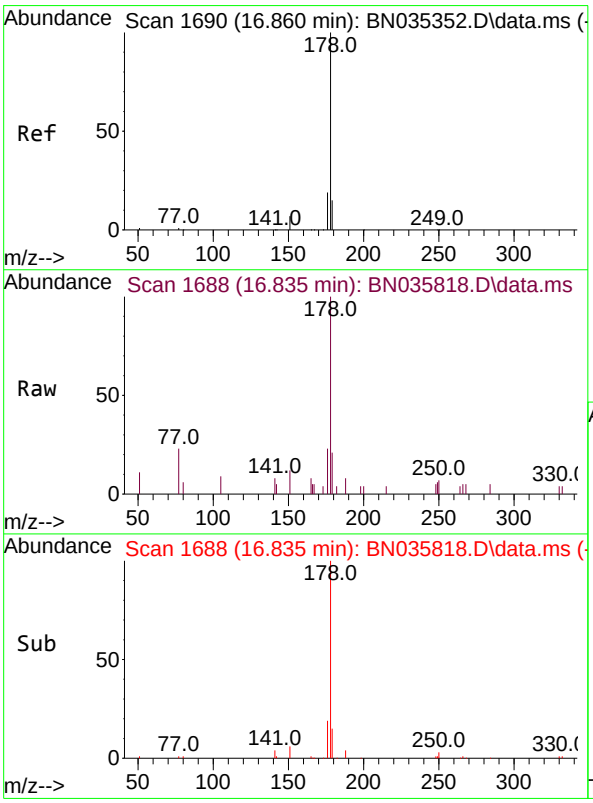
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.4	23.2
179	16.2	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
APPROVED

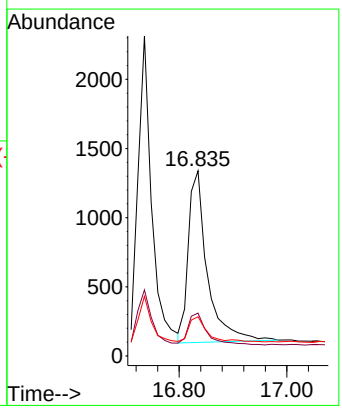
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

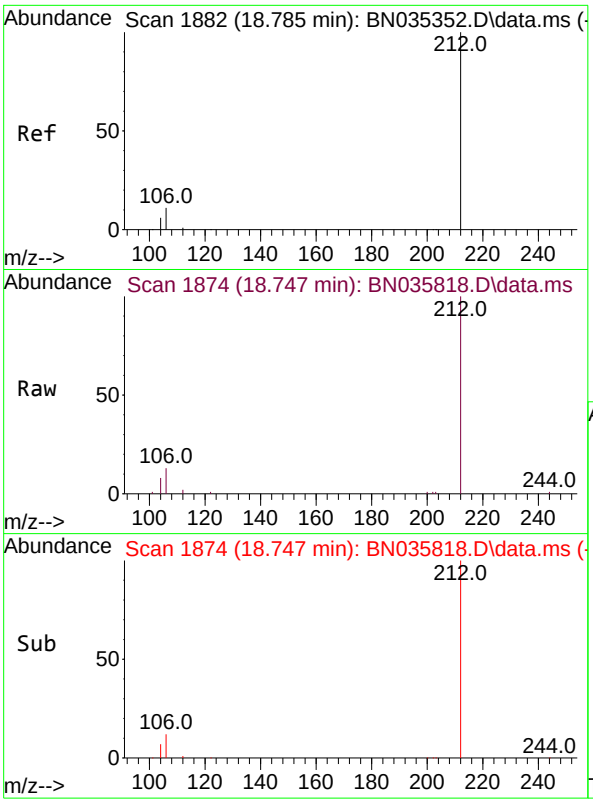


#26
Anthracene
Concen: 0.122 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:178 Resp: 3041

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.2	12.6	18.8

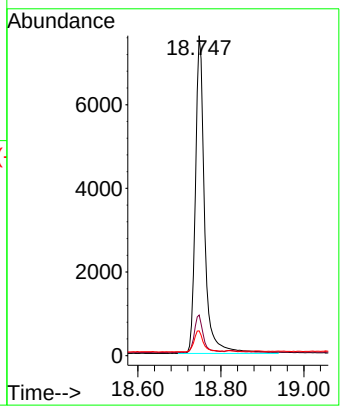




#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:212 Resp: 1170

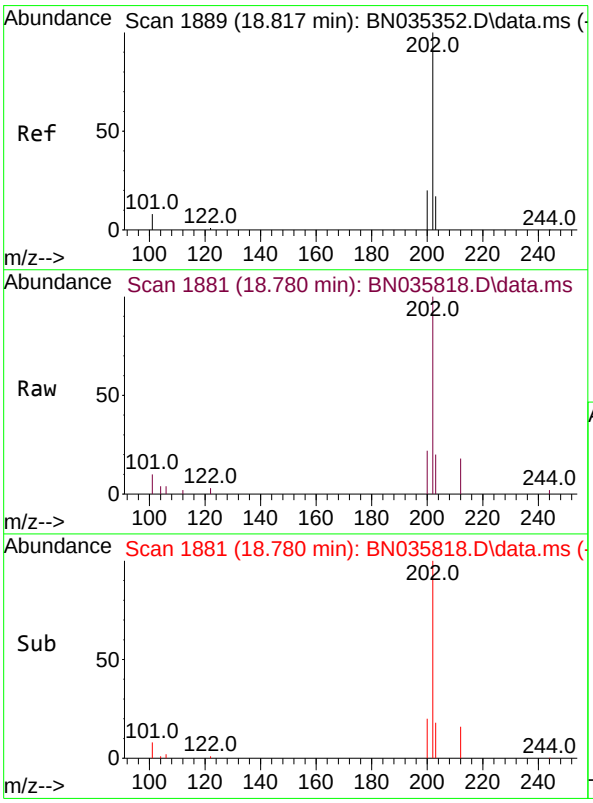
Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
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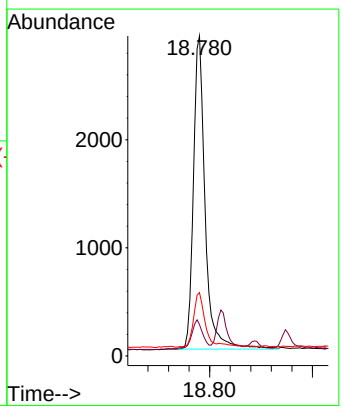
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

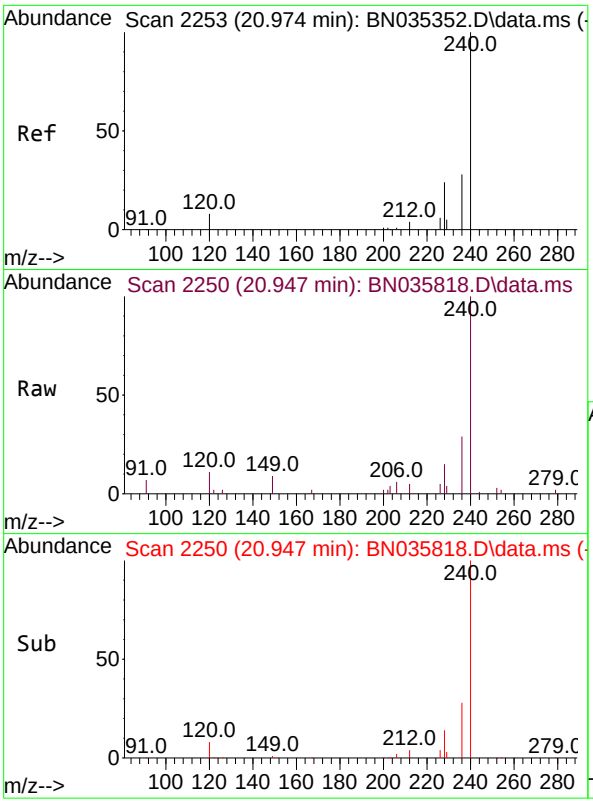


#28
Fluoranthene
Concen: 0.124 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:202 Resp: 4605

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.4	11.0
203	18.0	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

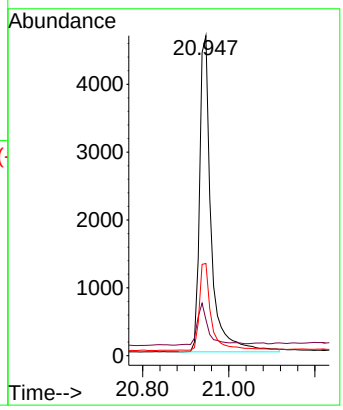
Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

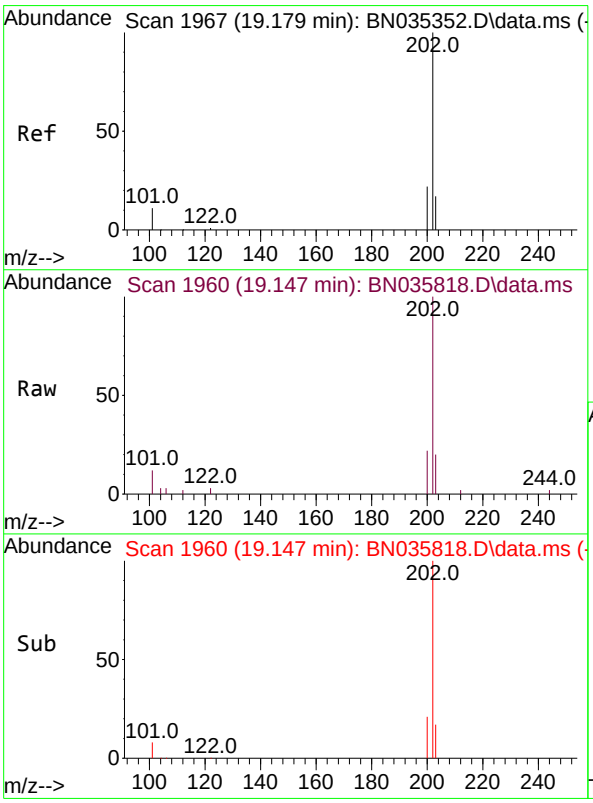
Tgt Ion:240 Resp: 873

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

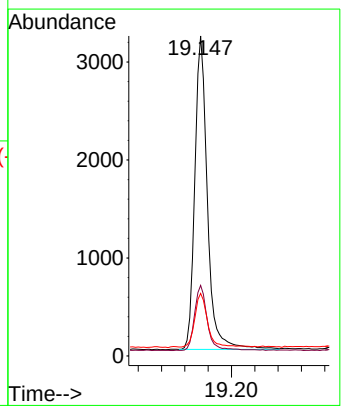


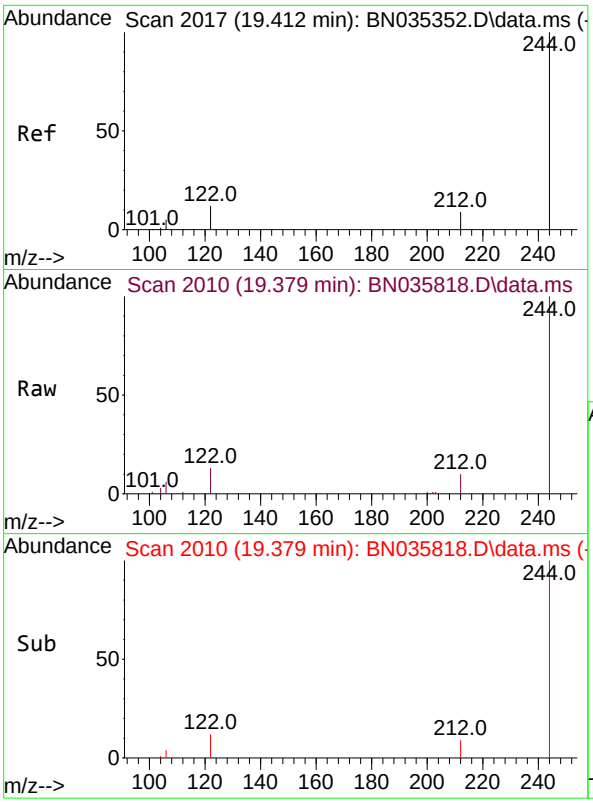


#30
Pyrene
Concen: 0.148 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:202 Resp: 4782

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.1	14.3	21.5

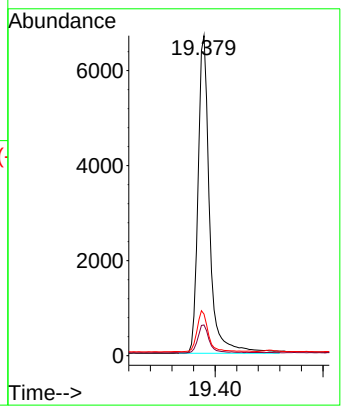




#31
Terphenyl-d14
Concen: 0.577 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:244 Resp: 993

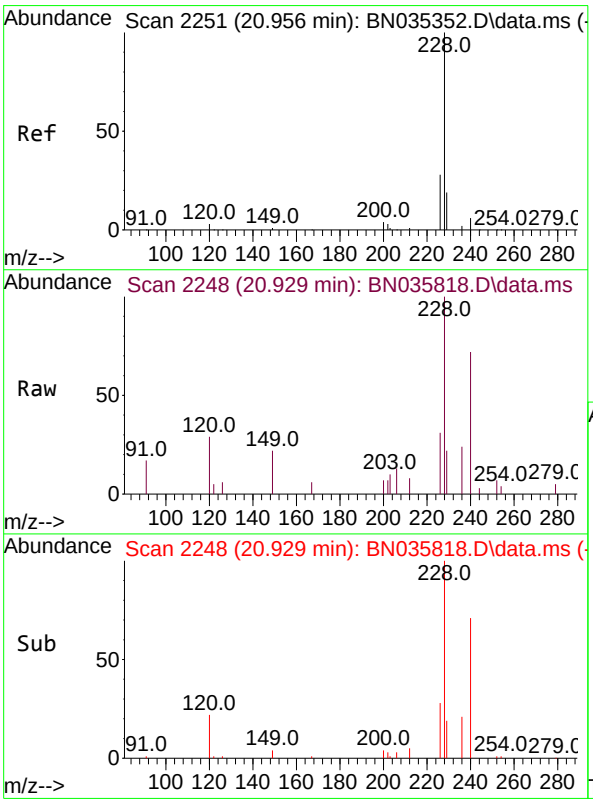
Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.0	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
APPROVED

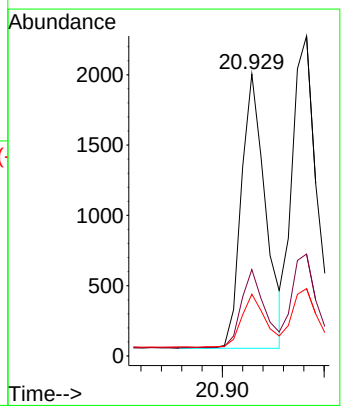
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

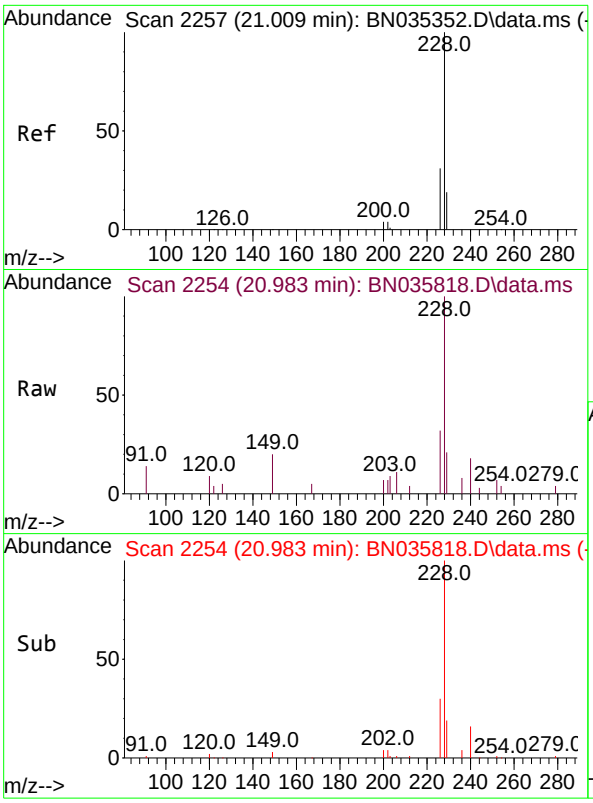


#32
Benzo(a)anthracene
Concen: 0.105 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:228 Resp: 3217

Ion	Ratio	Lower	Upper
228	100		
226	30.7	22.5	33.7
229	21.9	15.8	23.8

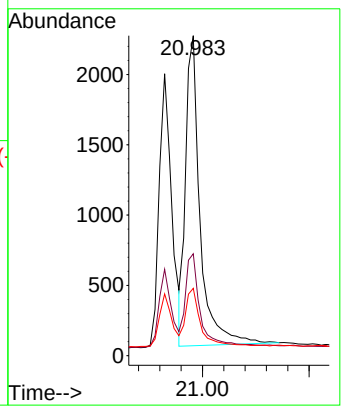




#33
Chrysene
Concen: 0.132 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:228 Resp: 415

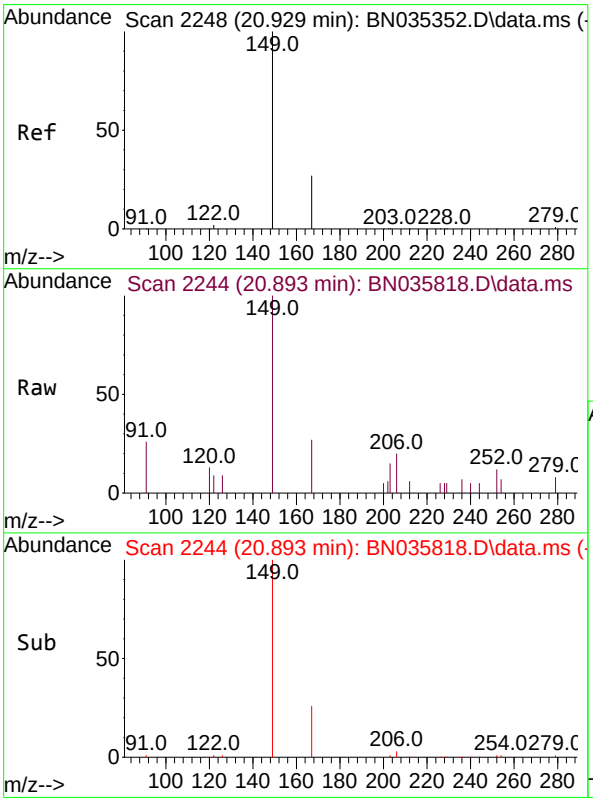
Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.6	37.0
229	21.0	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
APPROVED

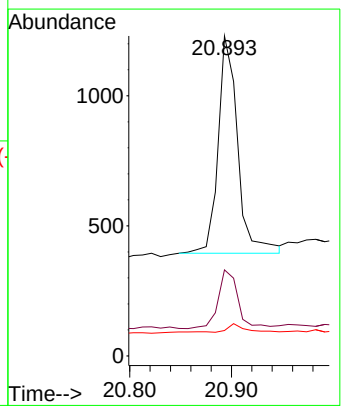
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

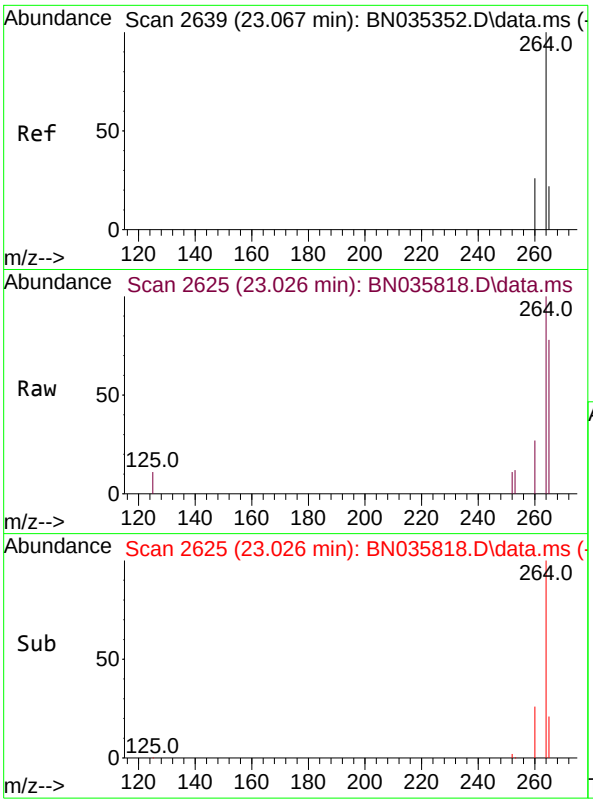


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.092 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:149 Resp: 1111

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.2	2.7	4.1

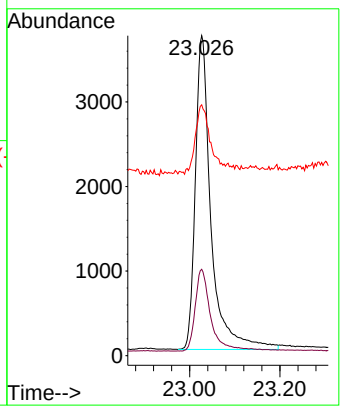




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:264 Resp: 894

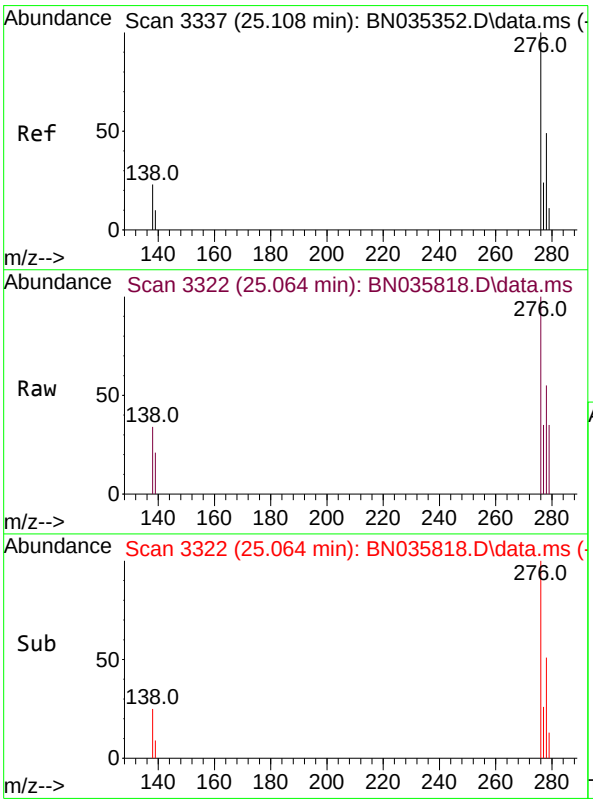
Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	78.4	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
APPROVED

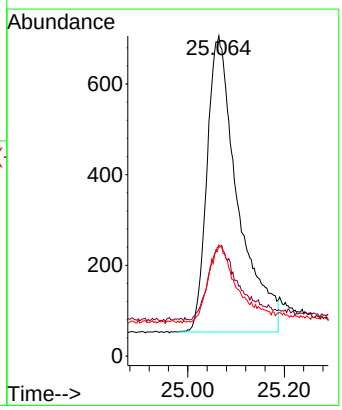
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

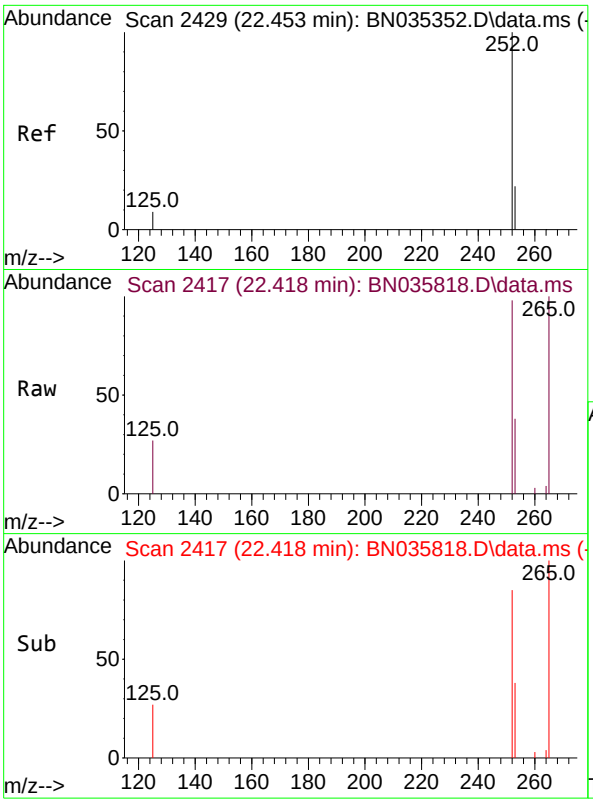


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.082 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:276 Resp: 2885

Ion	Ratio	Lower	Upper
276	100		
138	24.9	19.4	29.0
277	22.5	19.8	29.6

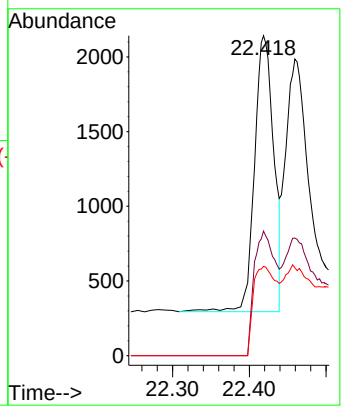




#37
Benzo(b)fluoranthene
Concen: 0.180 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 589

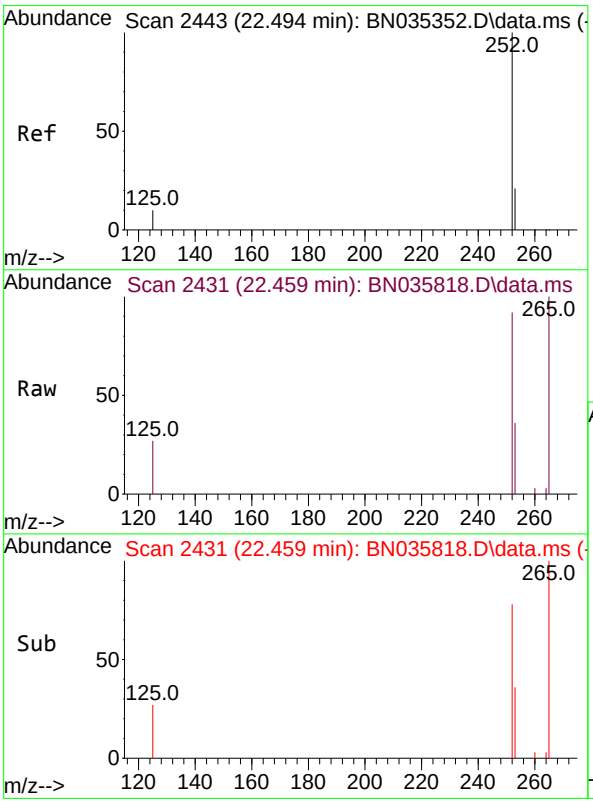
Ion	Ratio	Lower	Upper
252	100		
253	38.9	19.6	29.4#
125	27.9	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
APPROVED

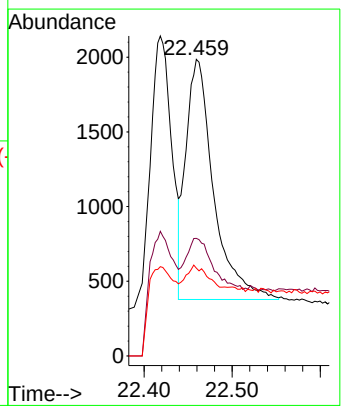
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

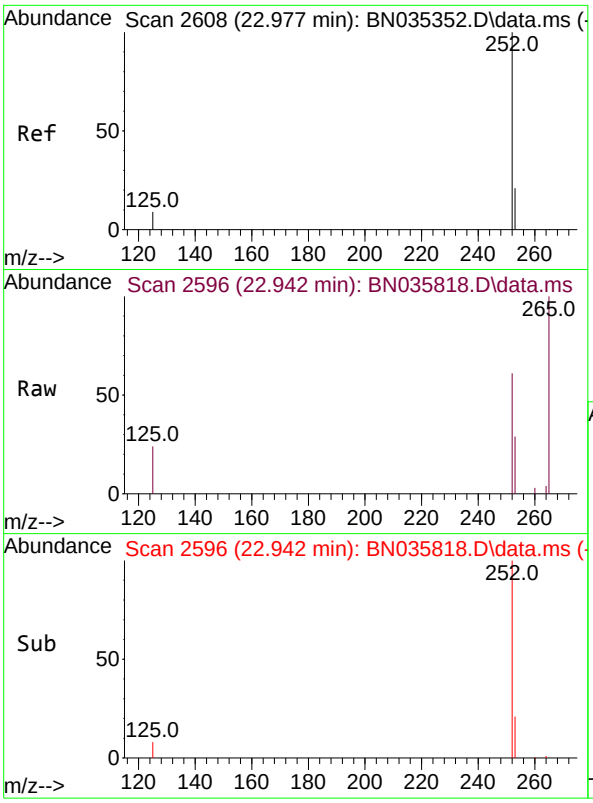


#38
Benzo(k)fluoranthene
Concen: 0.110 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 3531

Ion	Ratio	Lower	Upper
252	100		
253	39.6	19.5	29.3#
125	29.6	10.2	15.4#

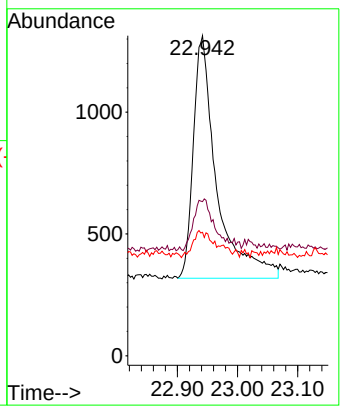




#39
Benzo(a)pyrene
Concen: 0.100 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 268

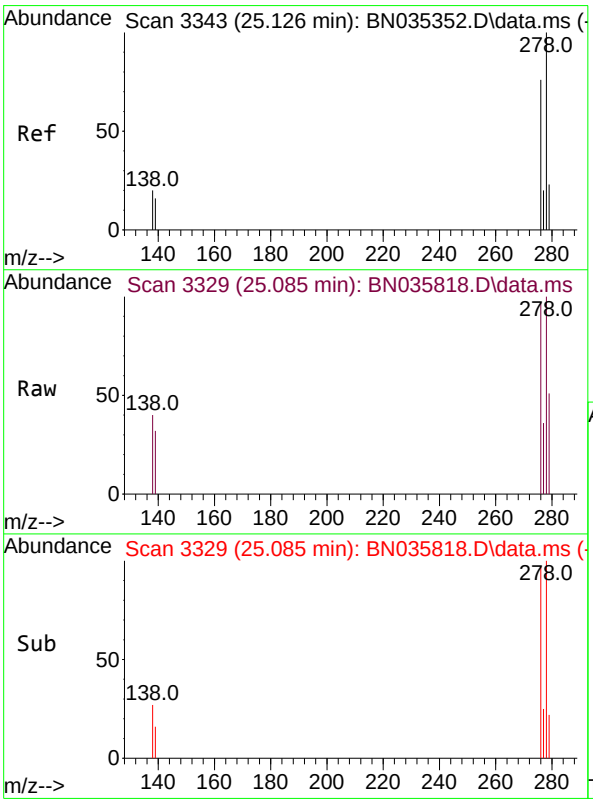
Ion	Ratio	Lower	Upper
252	100		
253	48.2	20.2	30.4#
125	38.6	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
APPROVED

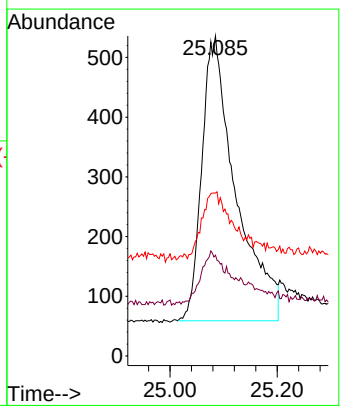
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

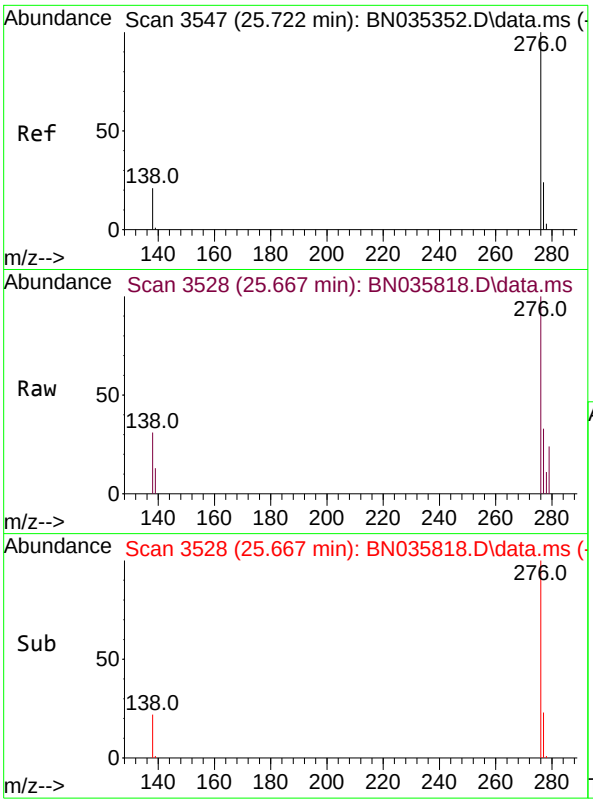


#40
Dibenzo(a,h)anthracene
Concen: 0.076 ng
RT: 25.085 min Scan# 3329
Delta R.T. 0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:278 Resp: 2103

Ion	Ratio	Lower	Upper
278	100		
139	31.5	14.2	21.4#
279	50.9	20.5	30.7#

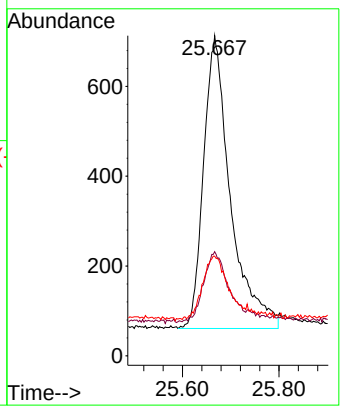




#41
Benzo(g,h,i)perylene
Concen: 0.087 ng
RT: 25.667 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:276 Resp: 251

Ion	Ratio	Lower	Upper
276	100		
277	32.5	19.9	29.9#
138	31.1	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT174I1-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035819.D	1	12/23/24 13:29	12/24/24 13:44	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.80		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		109%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		143%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3690	7.264				
1146-65-2	Naphthalene-d8	8470	10.009				
15067-26-2	Acenaphthene-d10	5270	13.924				
1517-22-2	Phenanthrene-d10	9420	16.698				
1719-03-5	Chrysene-d12	7350	20.947				
1520-96-3	Perylene-d12	7210	23.026				

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\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3689	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8470	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	5265	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9421	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7347	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7210	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	1128	0.122	ng	-0.01
5) Phenol-d6	6.484	99	578	0.052	ng	0.00
8) Nitrobenzene-d5	8.407	82	2260m	0.437	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4896	0.369	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	747	0.200	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	8403	0.422	ng	0.00
27) Fluoranthene-d10	18.752	212	11207	0.420	ng	0.00
31) Terphenyl-d14	19.379	244	8308	0.573	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	2834	0.804	ng	99
9) Naphthalene	10.052	128	2295	0.103	ng	# 90
12) 2-Methylnaphthalene	11.691	142	1434	0.090	ng	# 92
16) Acenaphthylene	13.636	152	2575	0.116	ng	99
17) Acenaphthene	13.988	154	1536	0.105	ng	96
18) Fluorene	14.993	166	1937	0.092	ng	99
25) Phenanthrene	16.735	178	3558	0.137	ng	99
26) Anthracene	16.835	178	2627	0.112	ng	99
28) Fluoranthene	18.780	202	3772	0.108	ng	99
30) Pyrene	19.147	202	3996	0.147	ng	100
32) Benzo(a)anthracene	20.929	228	2328	0.091	ng	95
33) Chrysene	20.982	228	3355	0.127	ng	96
34) Bis(2-ethylhexyl)phtha...	20.893	149	357	0.035	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.067	276	2032	0.072	ng	# 86
37) Benzo(b)fluoranthene	22.421	252	3012	0.114	ng	# 58
38) Benzo(k)fluoranthene	22.462	252	2589	0.100	ng	# 56
39) Benzo(a)pyrene	22.944	252	1842	0.085	ng	# 32
40) Dibenzo(a,h)anthracene	25.090	278	1565	0.070	ng	# 43
41) Benzo(g,h,i)perylene	25.672	276	1852	0.080	ng	# 78

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

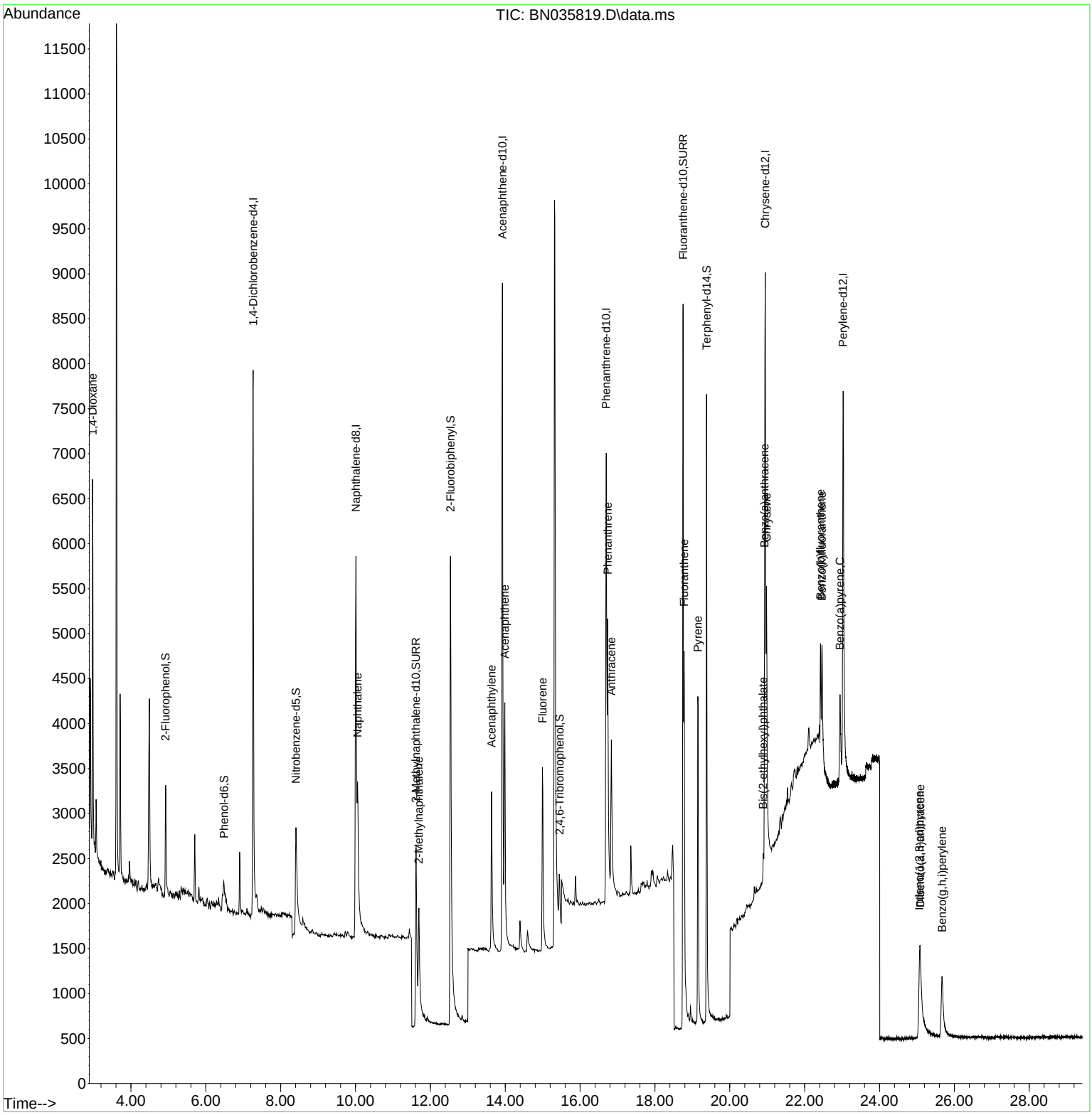
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

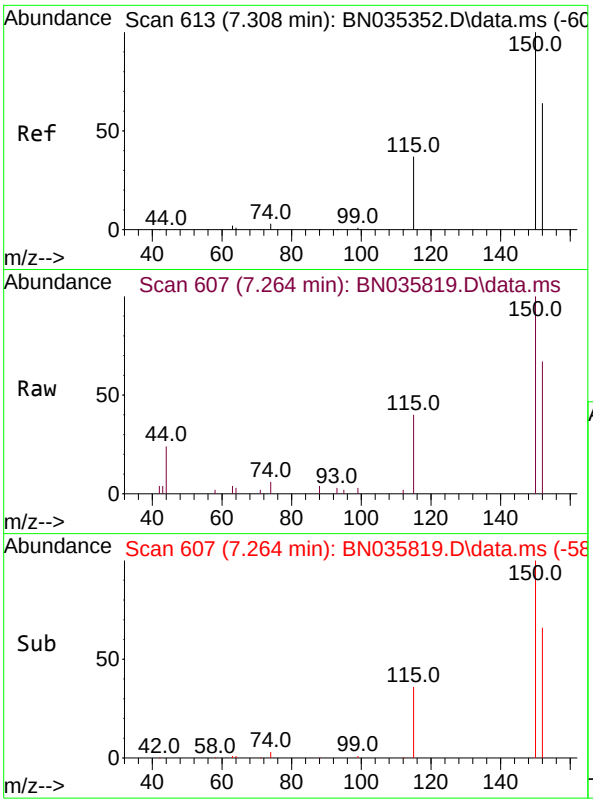
Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

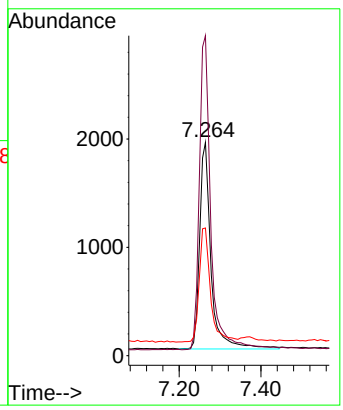




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:152 Resp: 368

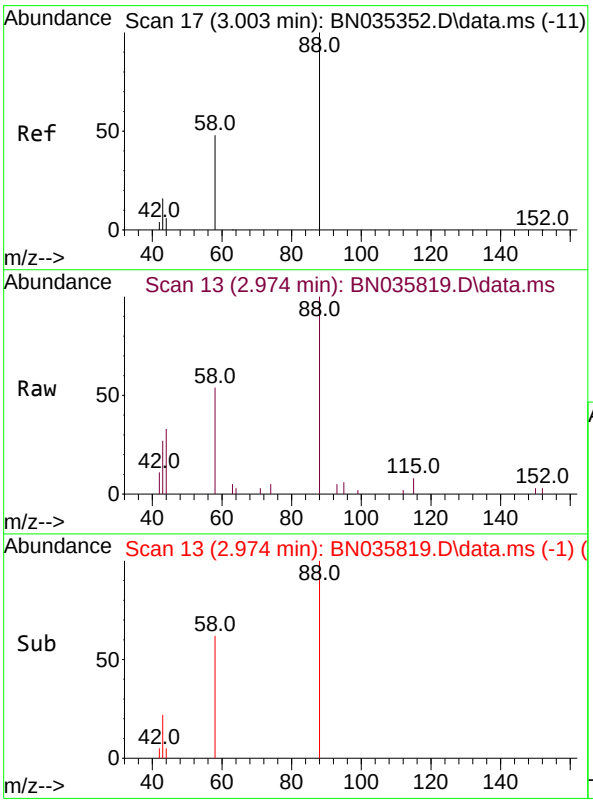
Ion	Ratio	Lower	Upper
152	100		
150	150.0	124.0	186.0
115	59.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations APPROVED

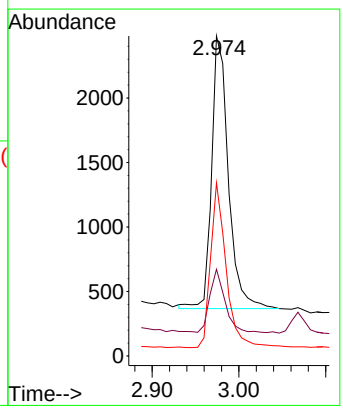
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

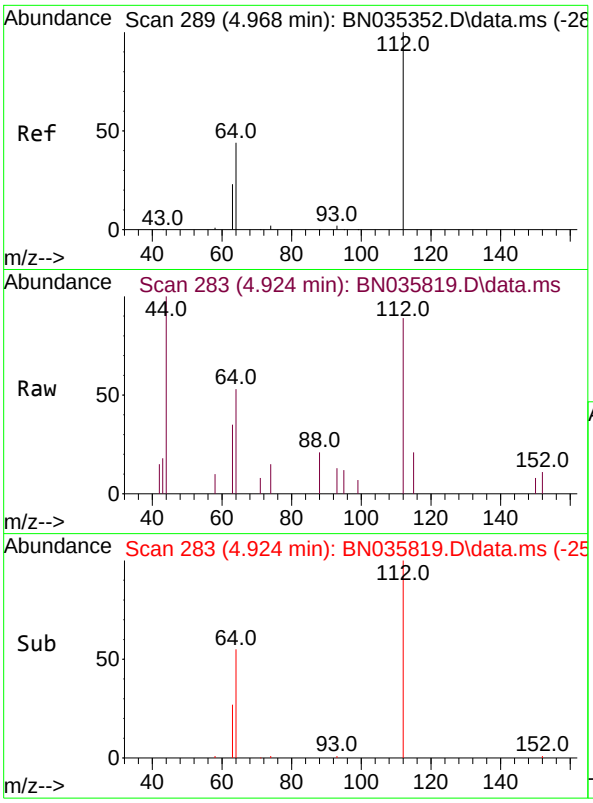


#2
1,4-Dioxane
Concen: 0.804 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 88 Resp: 2834

Ion	Ratio	Lower	Upper
88	100		
43	21.2	17.2	25.8
58	56.3	44.5	66.7





#4
2-Fluorophenol
Concen: 0.122 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

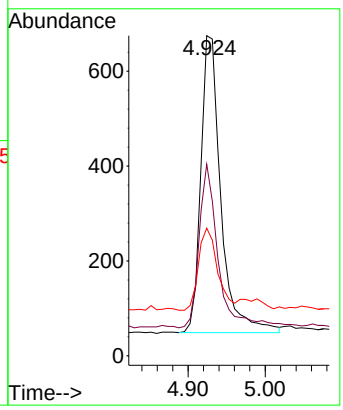
Tgt Ion:112 Resp: 112

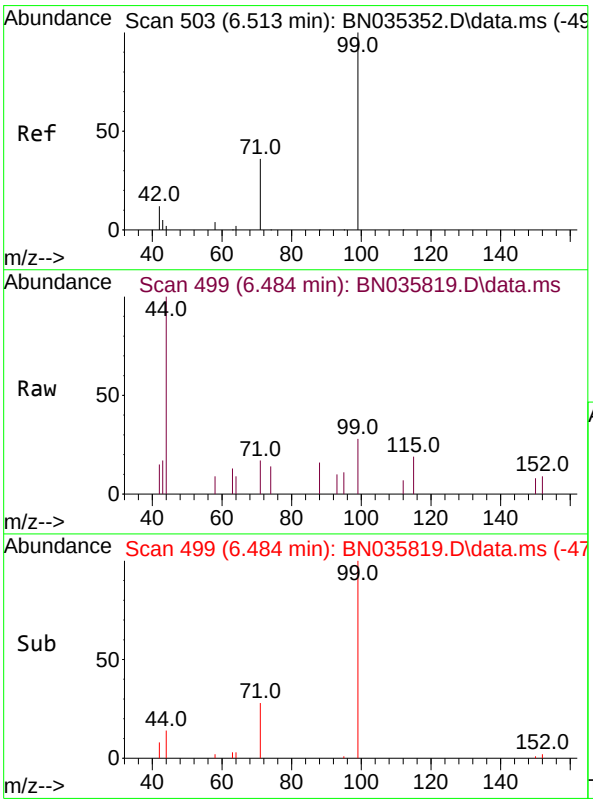
Ion	Ratio	Lower	Upper
112	100		
64	53.3	39.8	59.8
63	26.3	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

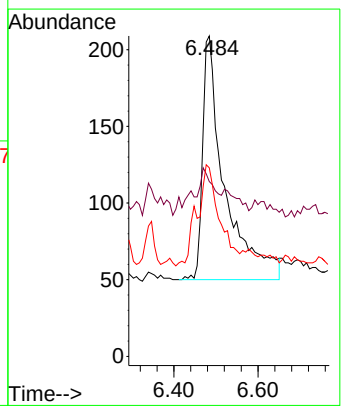


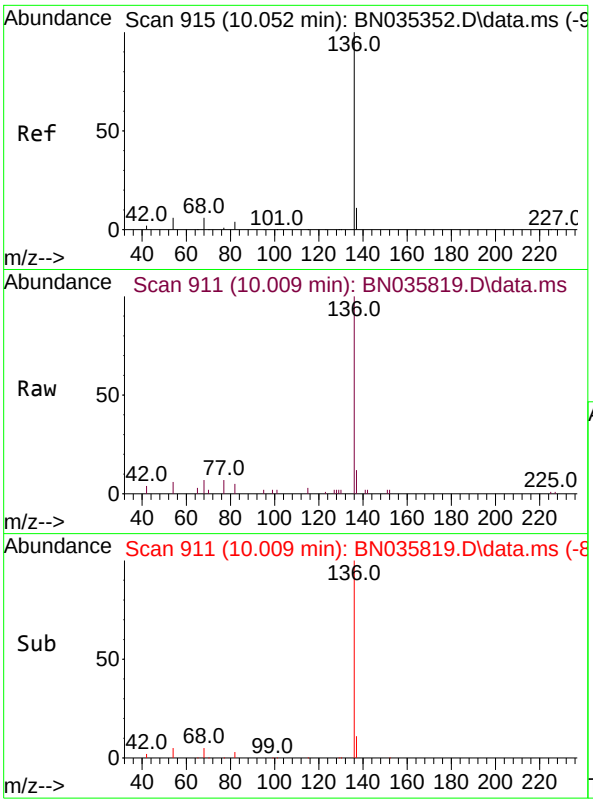


#5
Phenol-d6
Concen: 0.052 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 99 Resp: 578

Ion	Ratio	Lower	Upper
99	100		
42	5.5	11.4	17.2#
71	42.2	29.3	43.9

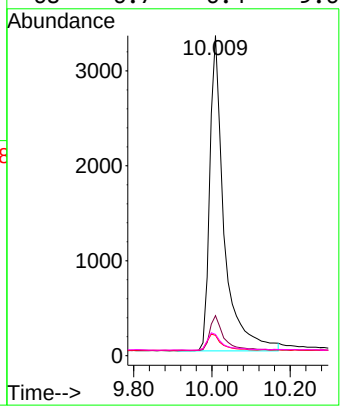




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

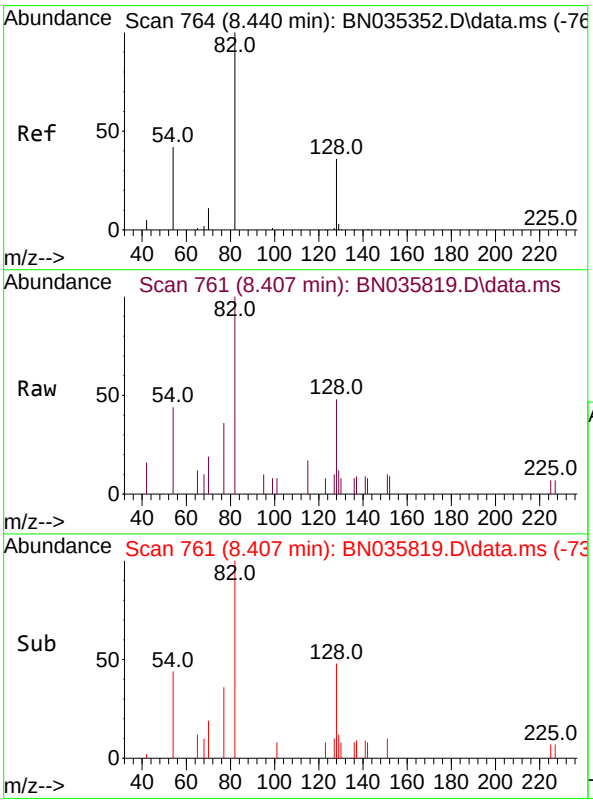
Tgt Ion:136 Resp: 847

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.4	6.1	9.1
68	6.7	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

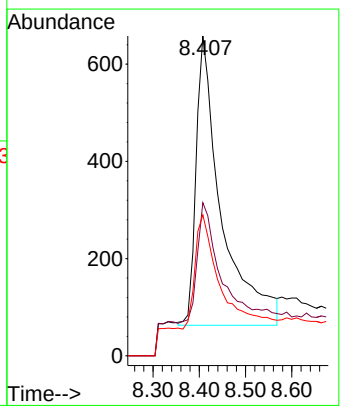
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

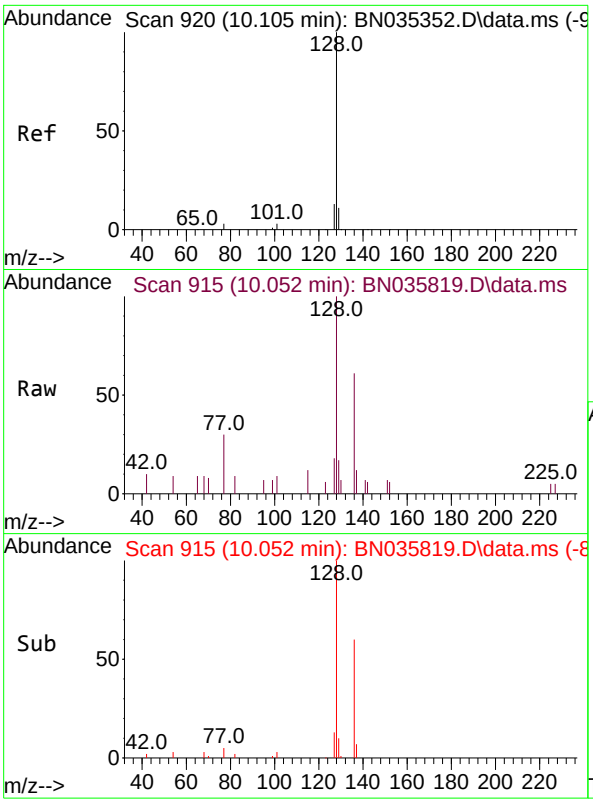


#8
Nitrobenzene-d5
Concen: 0.437 ng m
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 82 Resp: 2260

Ion	Ratio	Lower	Upper
82	100		
128	47.9	33.4	50.0
54	44.1	36.7	55.1

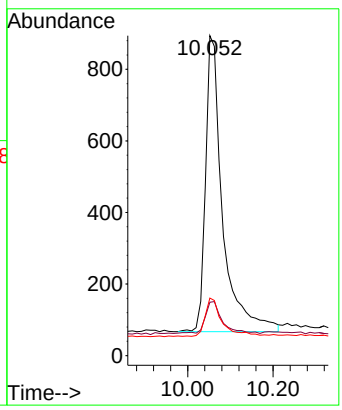




#9
Naphthalene
Concen: 0.103 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:128 Resp: 229

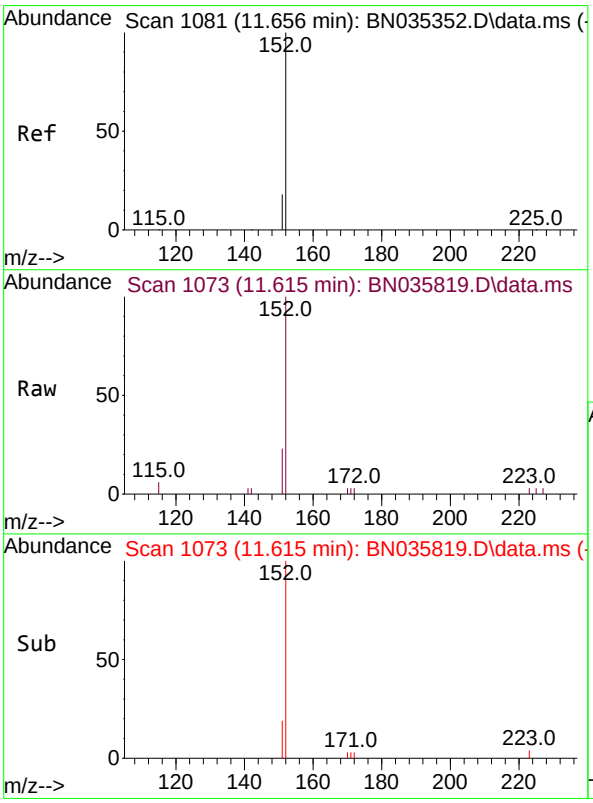
Ion	Ratio	Lower	Upper
128	100		
129	16.7	9.8	14.6#
127	18.0	11.4	17.2#



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
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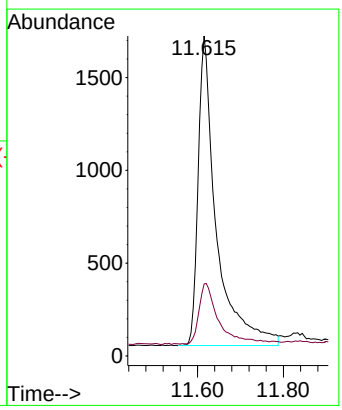
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

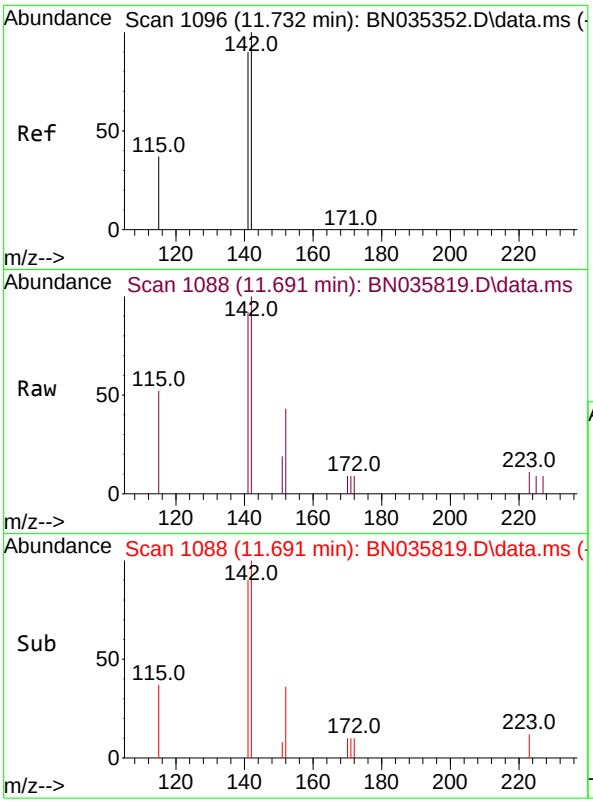


#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:152 Resp: 4896

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

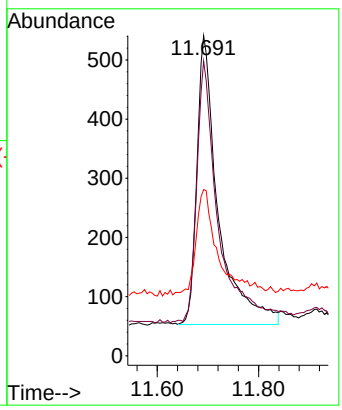




#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 11.691 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:142 Resp: 143

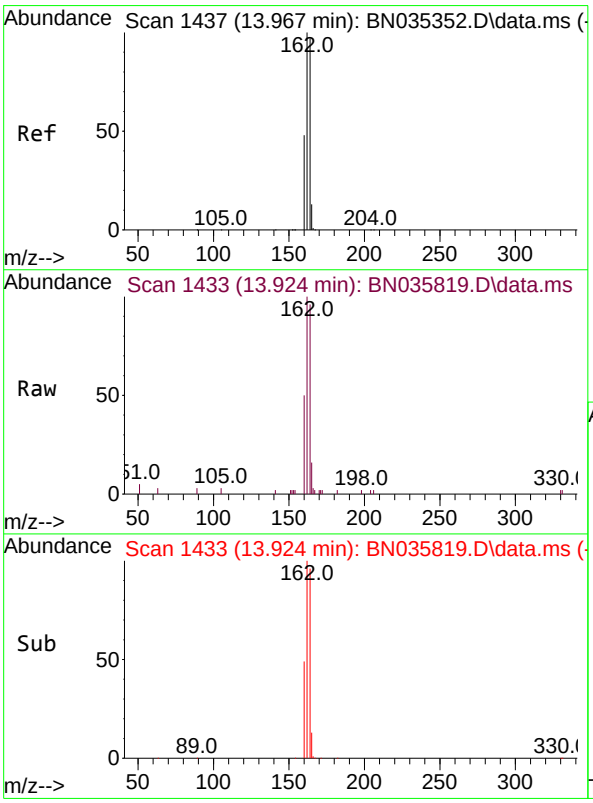
Ion	Ratio	Lower	Upper
142	100		
141	92.1	72.2	108.4
115	51.9	31.4	47.0



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

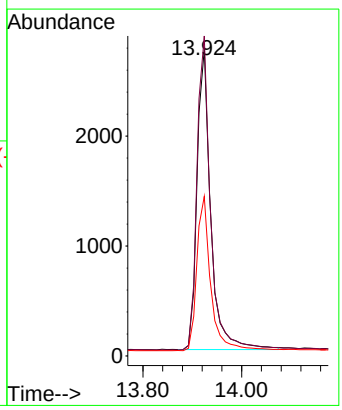
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

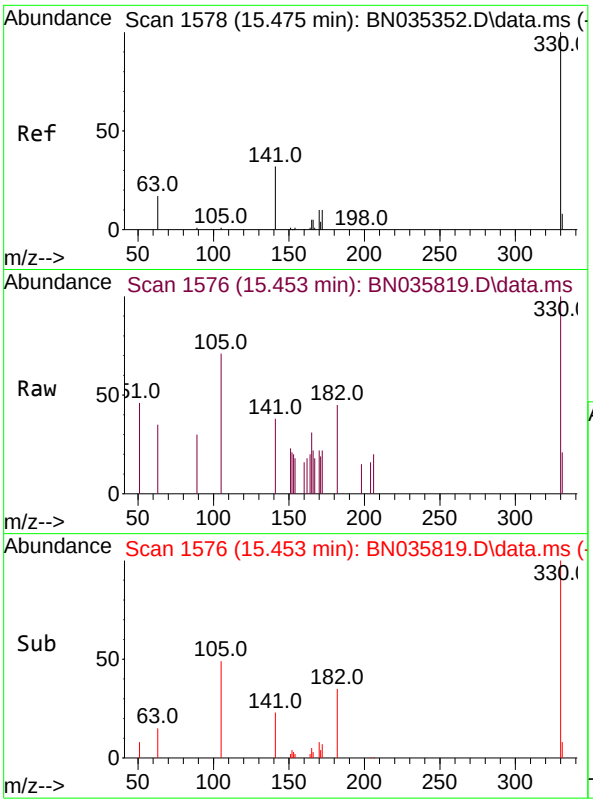


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:164 Resp: 5265

Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.2
160	52.0	40.1	60.1

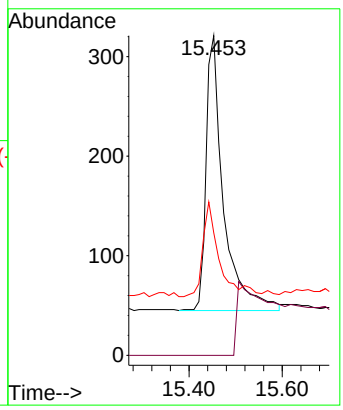




#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

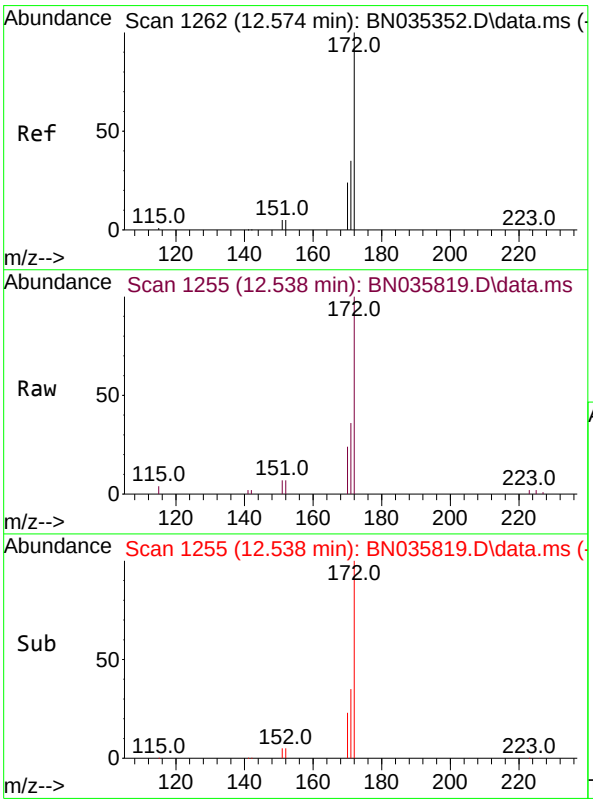
Tgt Ion:330 Resp: 74

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.3	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

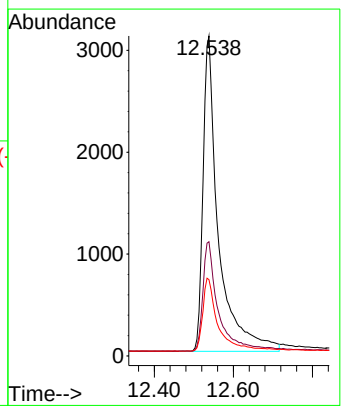
Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

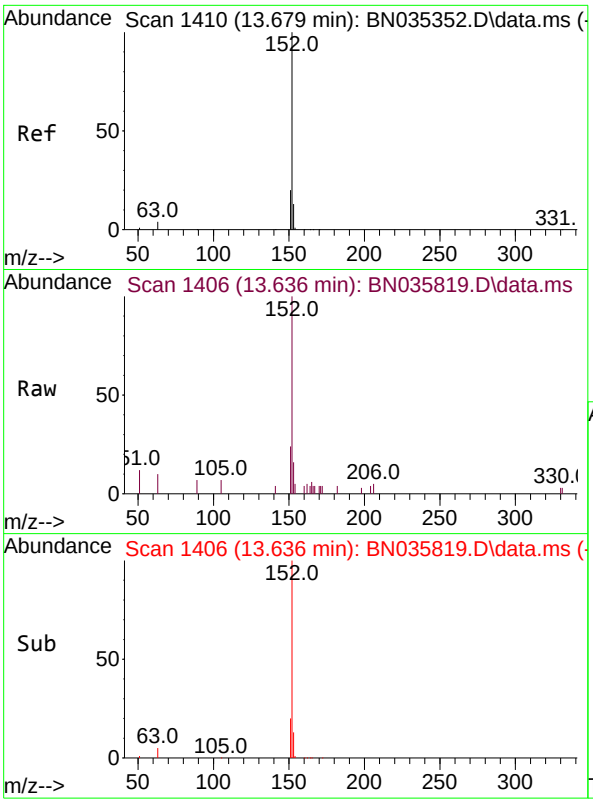


#15
2-Fluorobiphenyl
Concen: 0.422 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:172 Resp: 8403

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	23.8	19.8	29.8

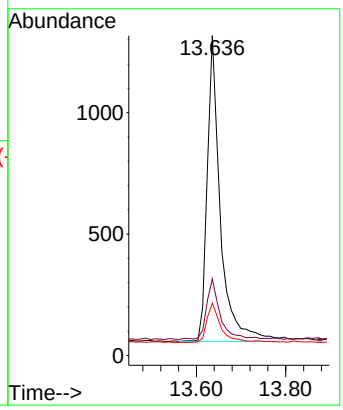




#16
Acenaphthylene
Concen: 0.116 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:152 Resp: 257

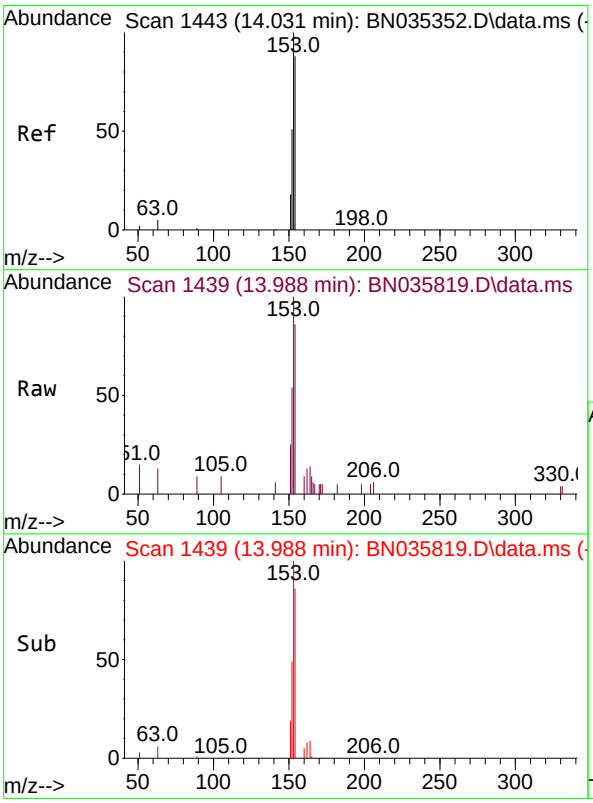
Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.2
153	13.3	10.4	15.6



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

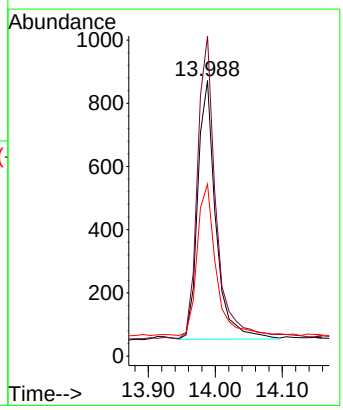
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

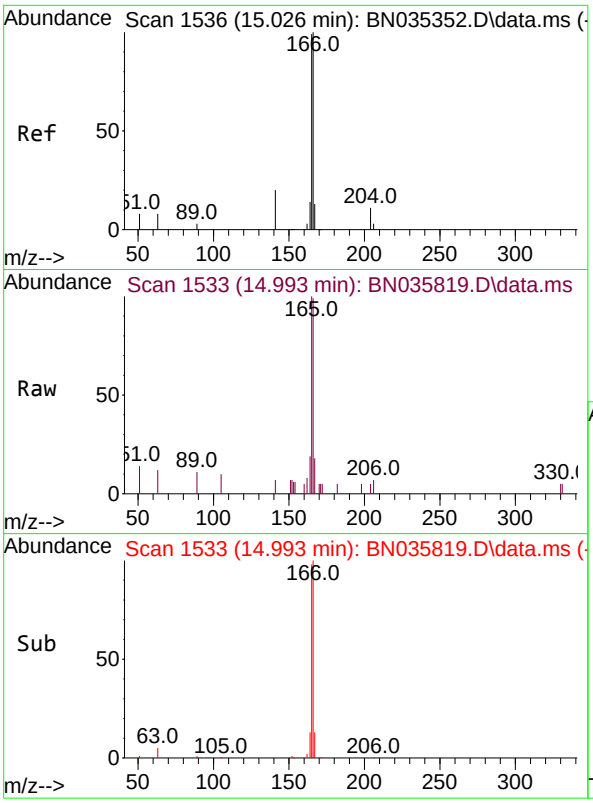


#17
Acenaphthene
Concen: 0.105 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:154 Resp: 1536

Ion	Ratio	Lower	Upper
154	100		
153	122.4	92.6	139.0
152	61.7	49.0	73.6

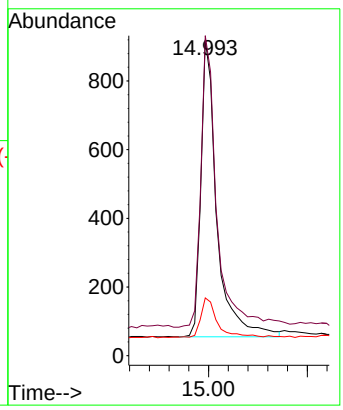




#18
Fluorene
Concen: 0.092 ng
RT: 14.993 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:166 Resp: 193

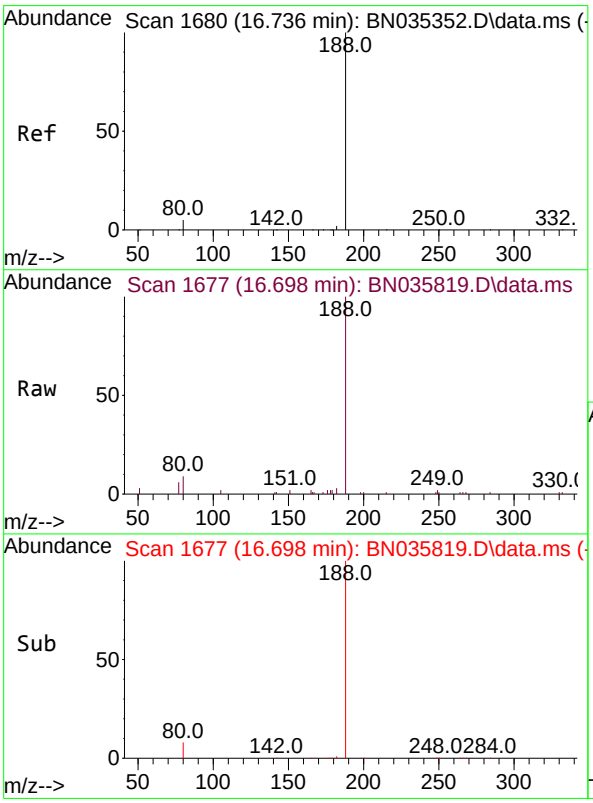
Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.7	119.5
167	13.8	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

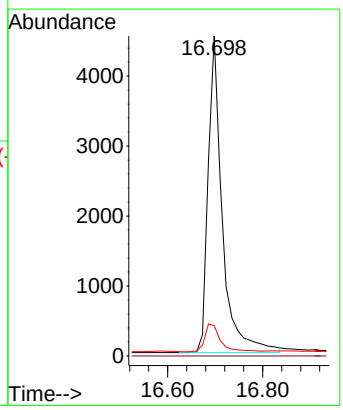
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

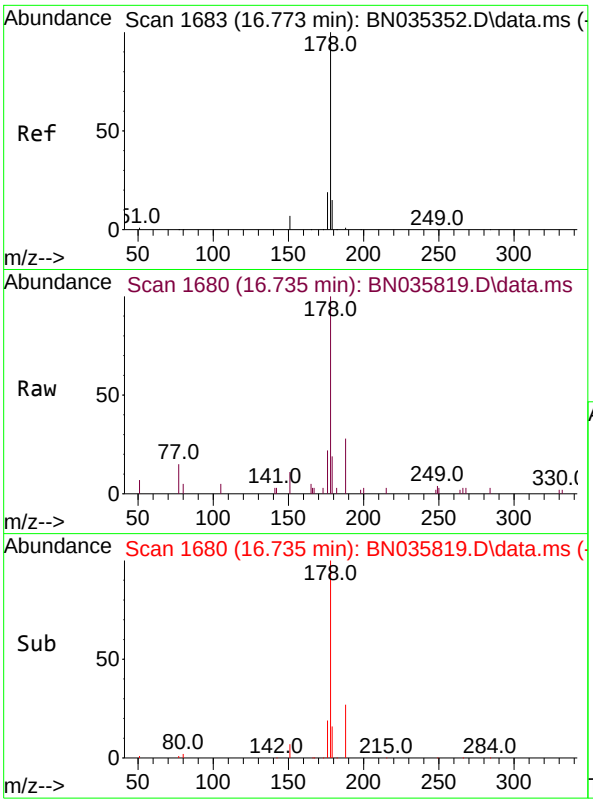


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:188 Resp: 9421

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.4	4.6	6.8#

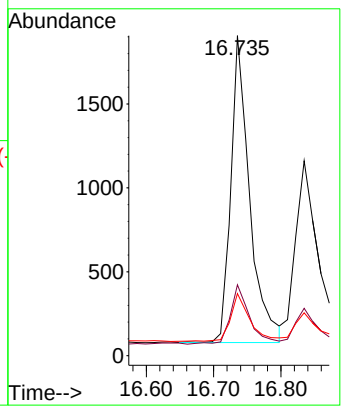




#25
Phenanthrene
Concen: 0.137 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:178 Resp: 355

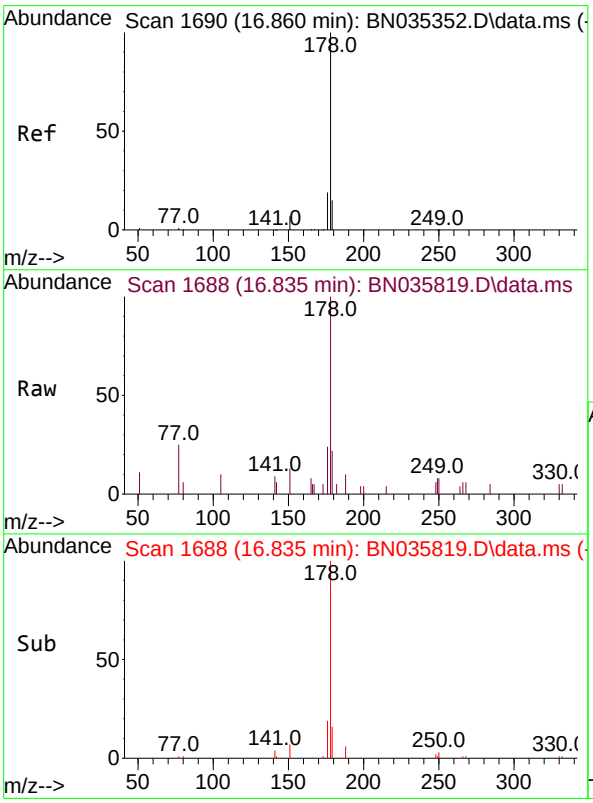
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.2
179	16.1	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

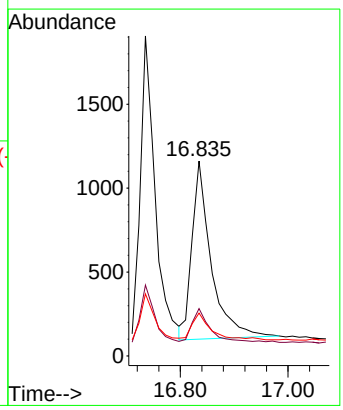
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

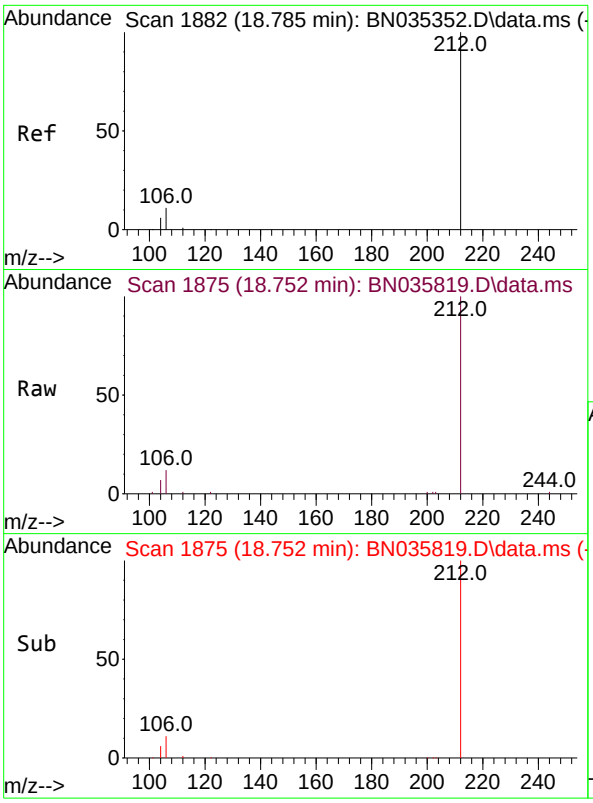


#26
Anthracene
Concen: 0.112 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:178 Resp: 2627

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.0	22.6
179	15.8	12.6	18.8

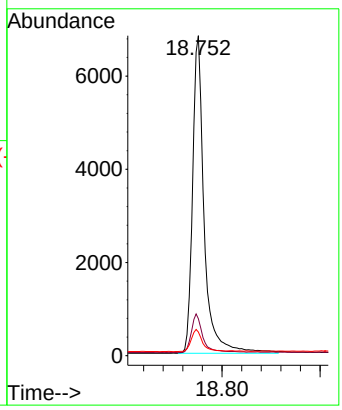




#27
Fluoranthene-d10
Concen: 0.420 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:212 Resp: 1120

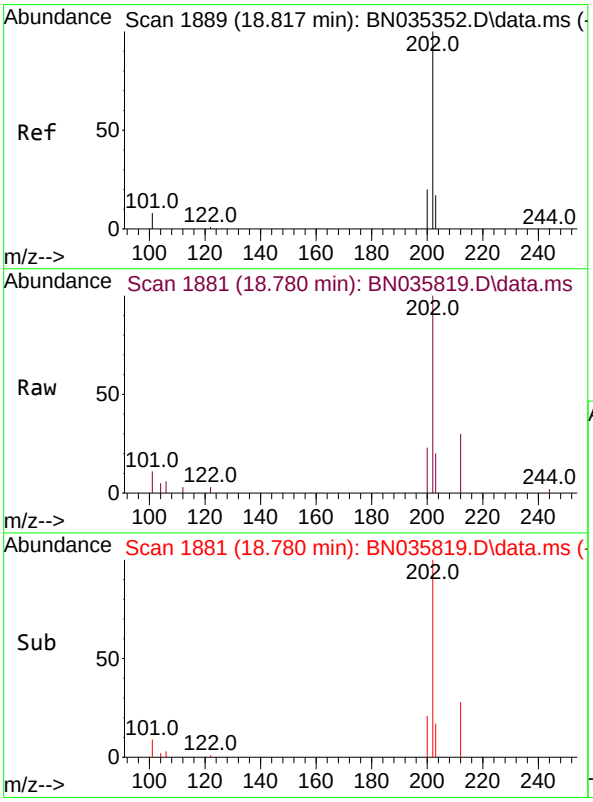
Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	6.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

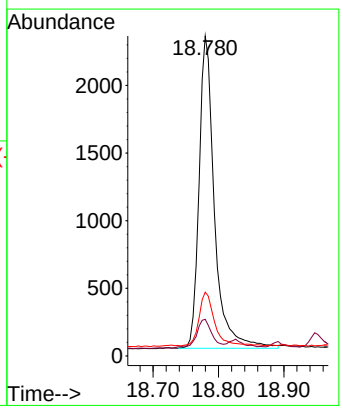
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

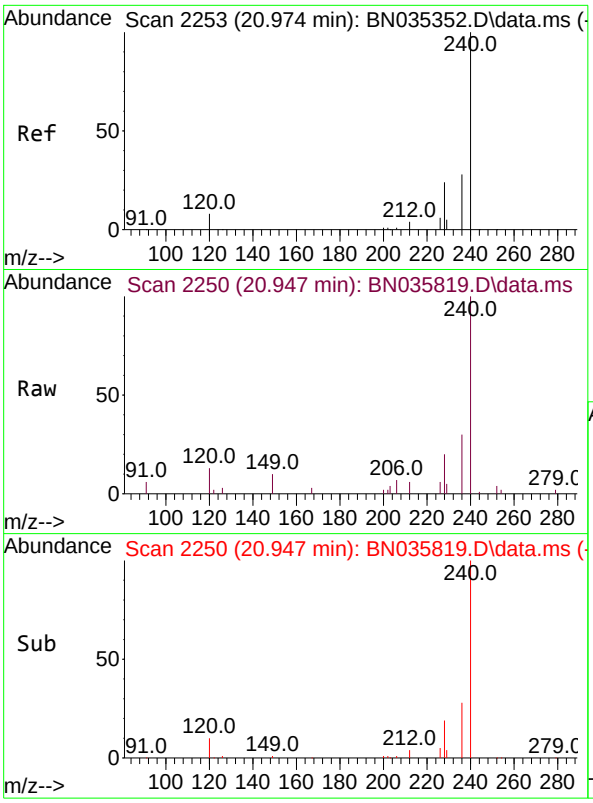


#28
Fluoranthene
Concen: 0.108 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3772

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.9	13.7	20.5

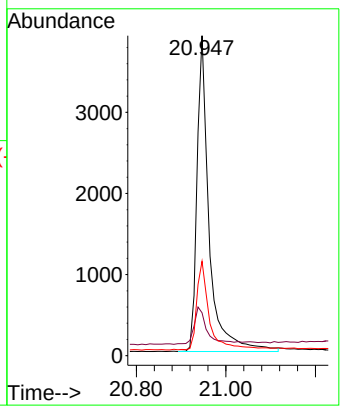




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:240 Resp: 734

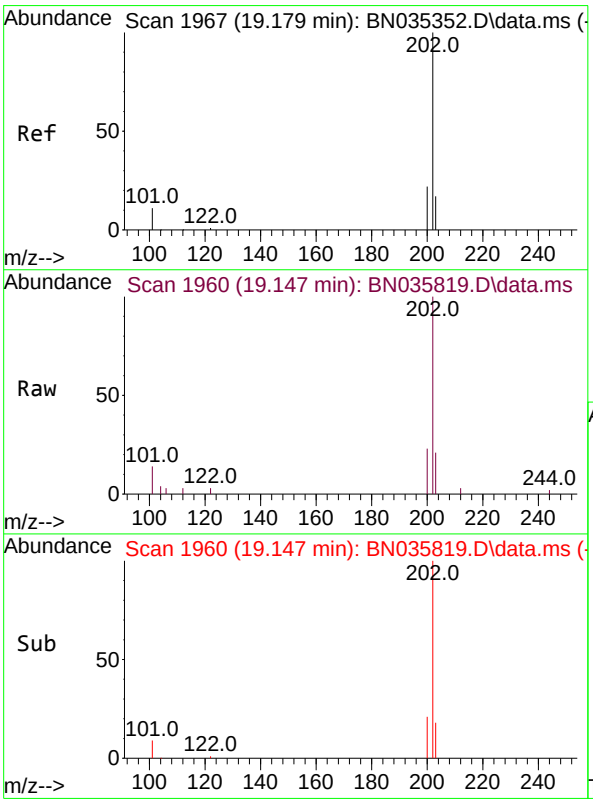
Ion	Ratio	Lower	Upper
240	100		
120	13.4	7.9	11.9
236	29.5	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

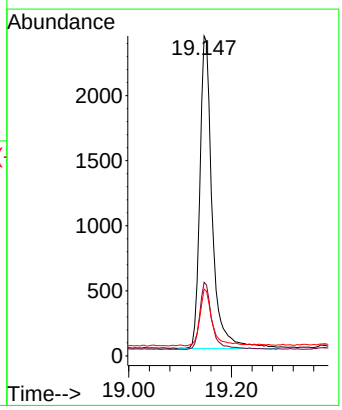
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

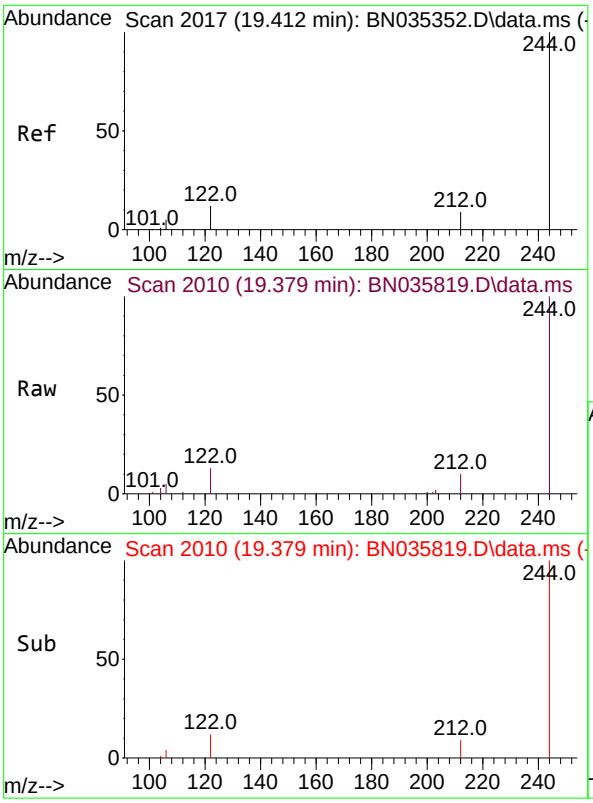


#30
Pyrene
Concen: 0.147 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3996

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.7	14.3	21.5

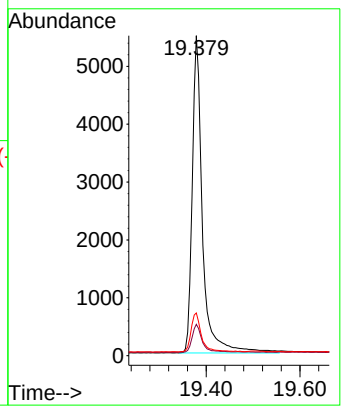




#31
Terphenyl-d14
Concen: 0.573 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:244 Resp: 830

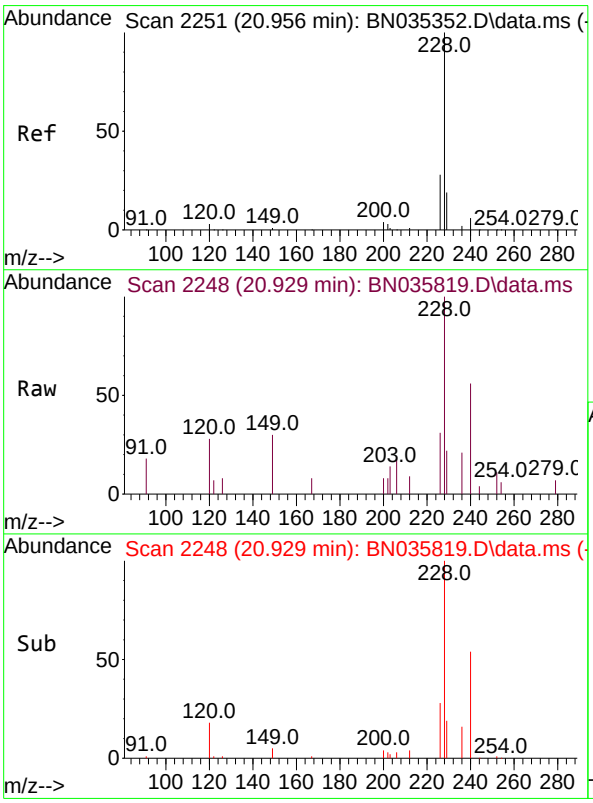
Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	13.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations APPROVED

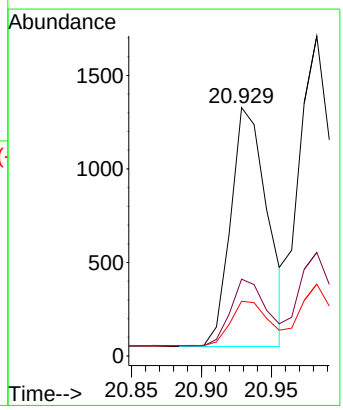
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

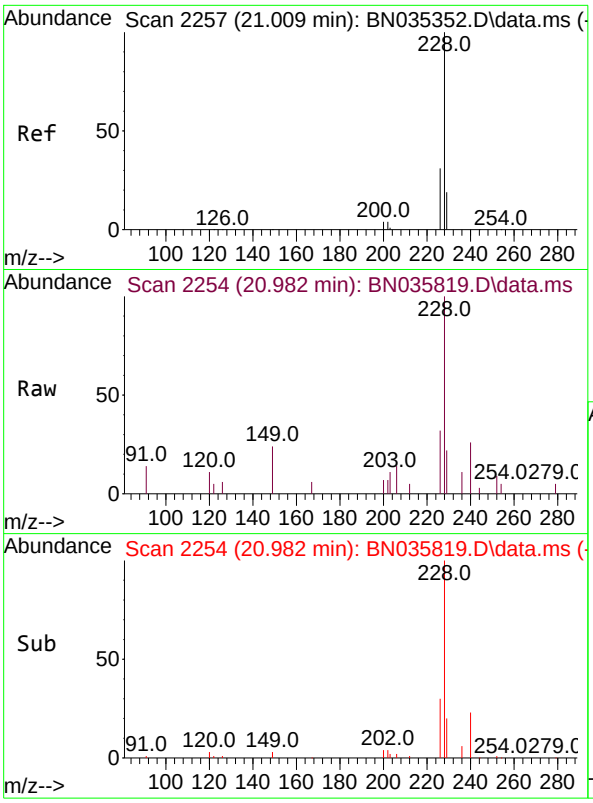


#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:228 Resp: 2328

Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.5	33.7
229	22.1	15.8	23.8

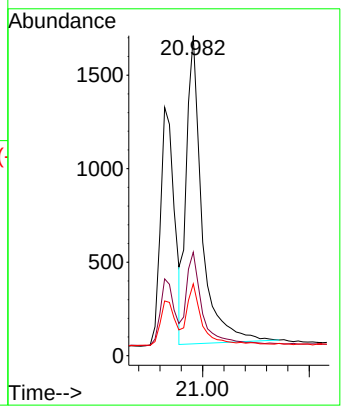




#33
Chrysene
Concen: 0.127 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:228 Resp: 335

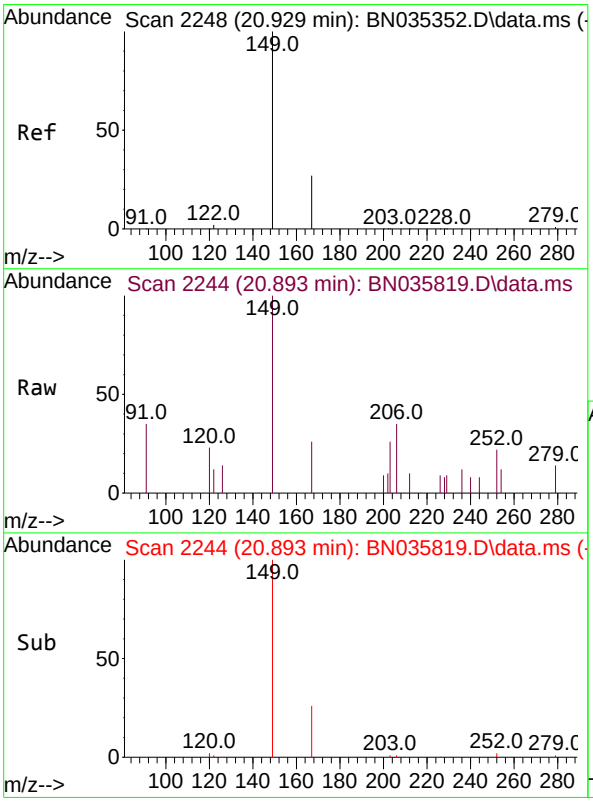
Ion	Ratio	Lower	Upper
228	100		
226	32.4	24.6	37.0
229	22.4	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Manual Integrations APPROVED

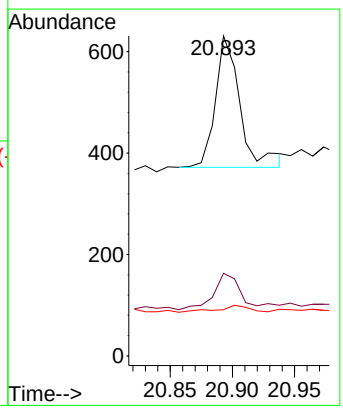
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

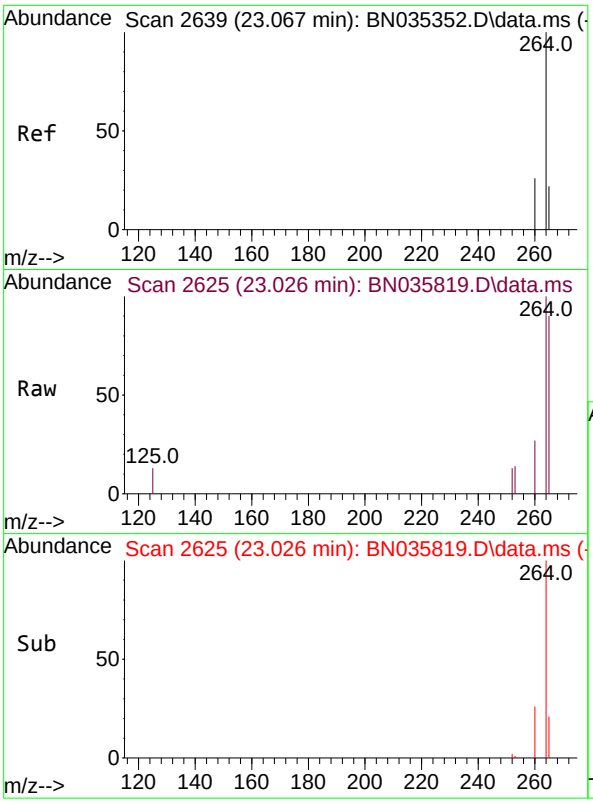


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.035 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:149 Resp: 357

Ion	Ratio	Lower	Upper
149	100		
167	29.4	22.2	33.4
279	6.7	2.7	4.1#

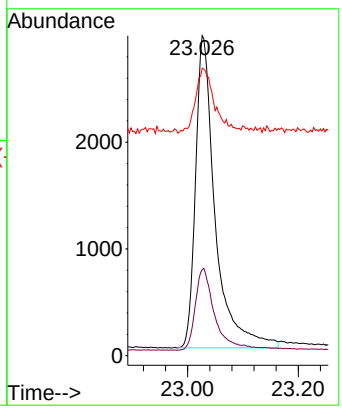




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:264 Resp: 721

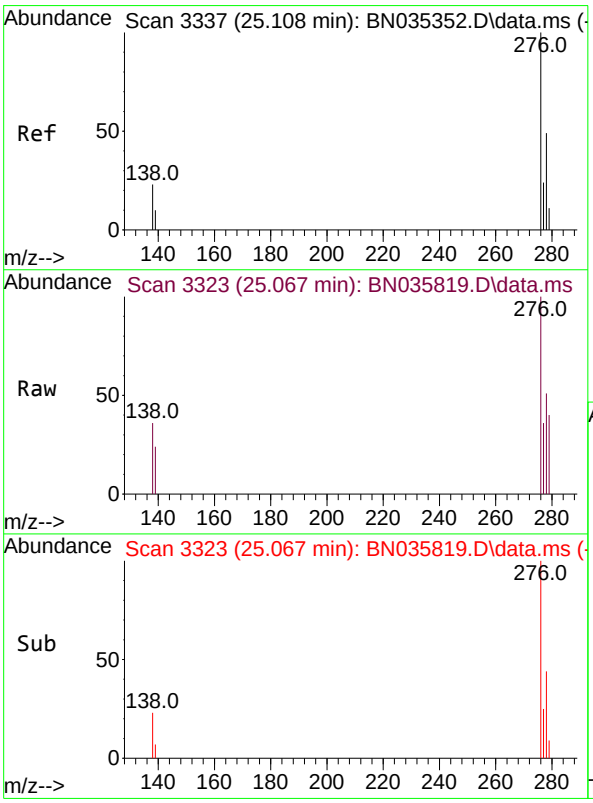
Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	89.9	40.2	60.4#



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

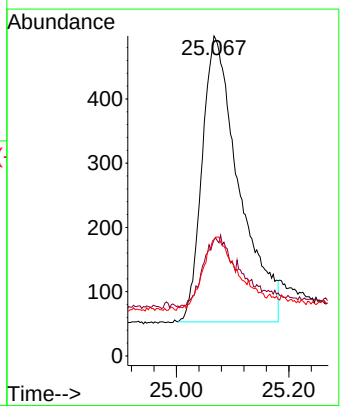
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

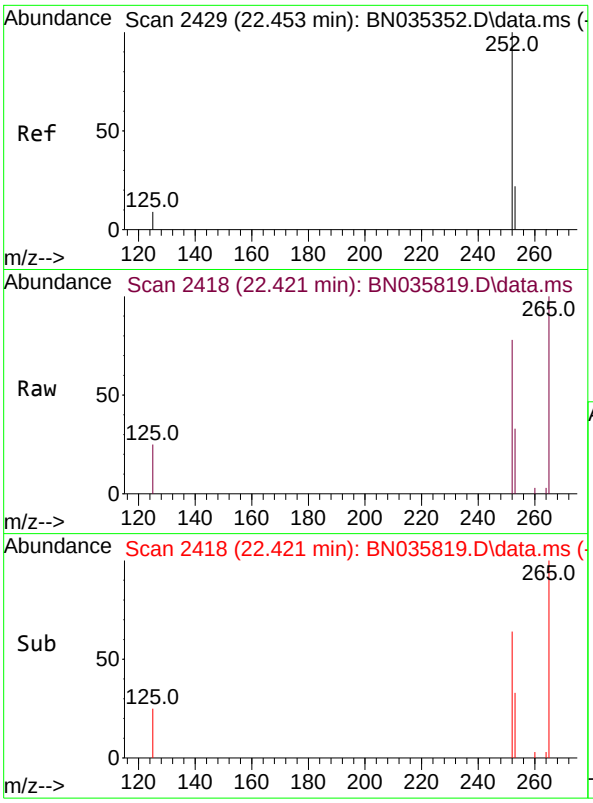


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.072 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:276 Resp: 2032

Ion	Ratio	Lower	Upper
276	100		
138	10.6	19.4	29.0#
277	24.9	19.8	29.6

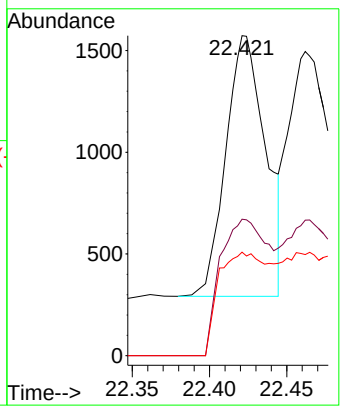




#37
Benzo(b)fluoranthene
Concen: 0.114 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:252 Resp: 301

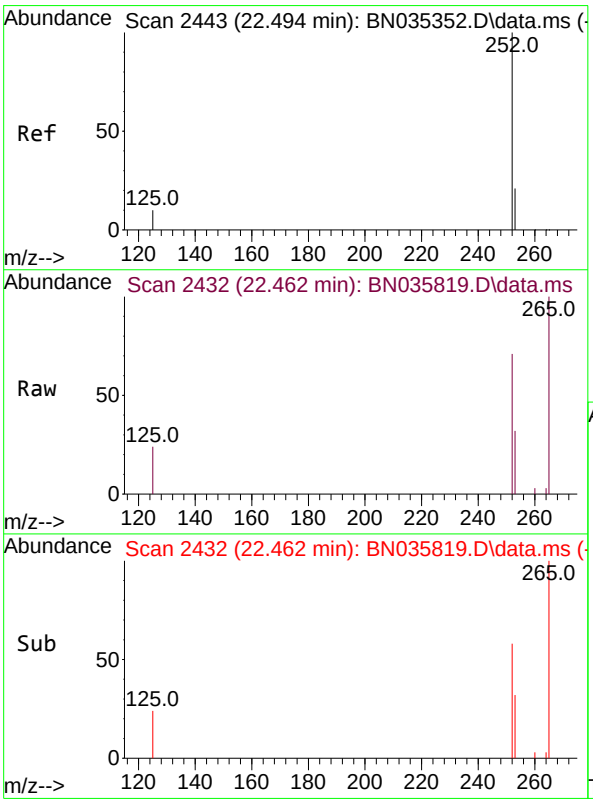
Ion	Ratio	Lower	Upper
252	100		
253	42.7	19.6	29.4#
125	32.4	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

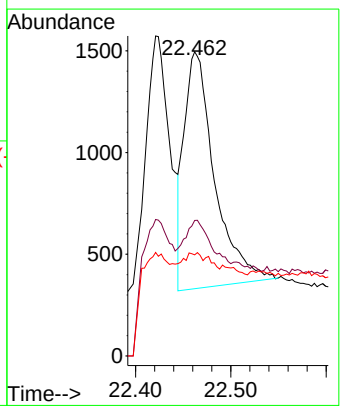
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

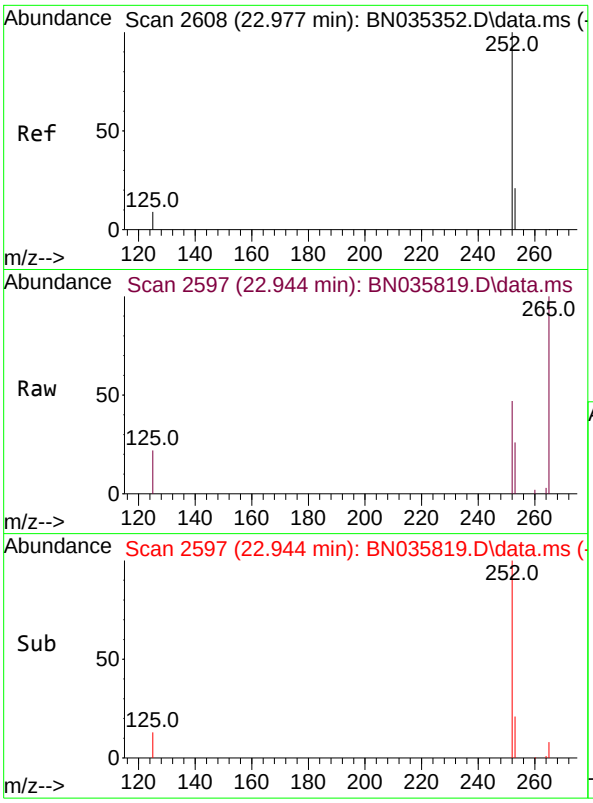


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:252 Resp: 2589

Ion	Ratio	Lower	Upper
252	100		
253	44.5	19.5	29.3#
125	33.2	10.2	15.4#

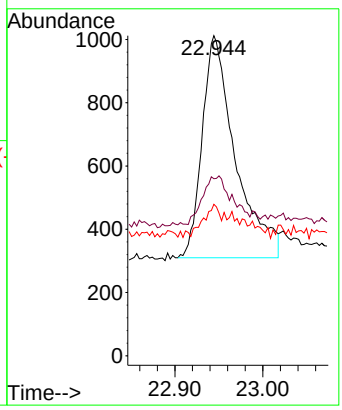




#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:252 Resp: 184

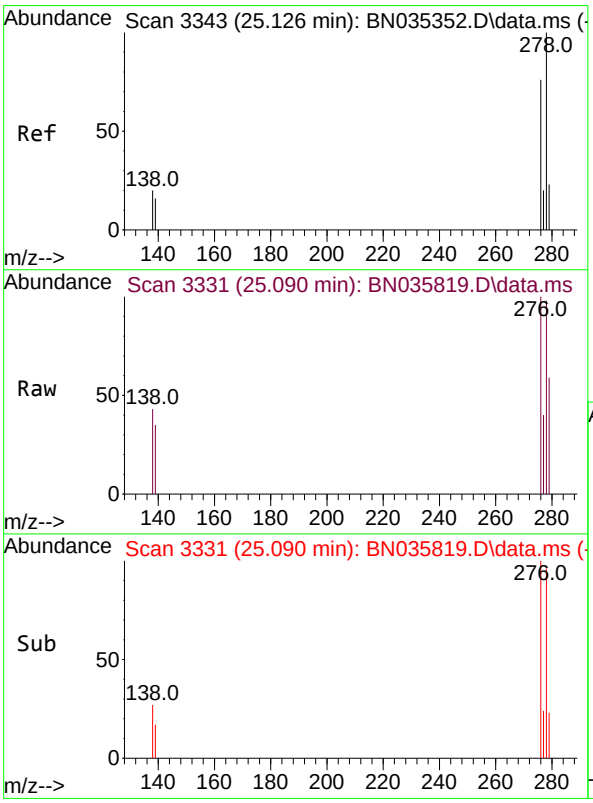
Ion	Ratio	Lower	Upper
252	100		
253	55.3	20.2	30.4#
125	47.3	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

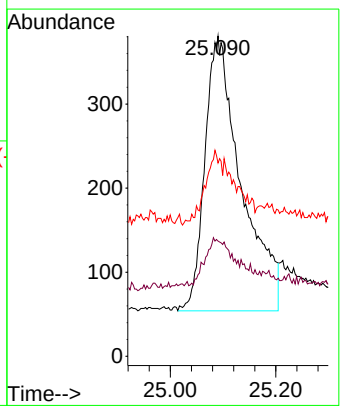
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

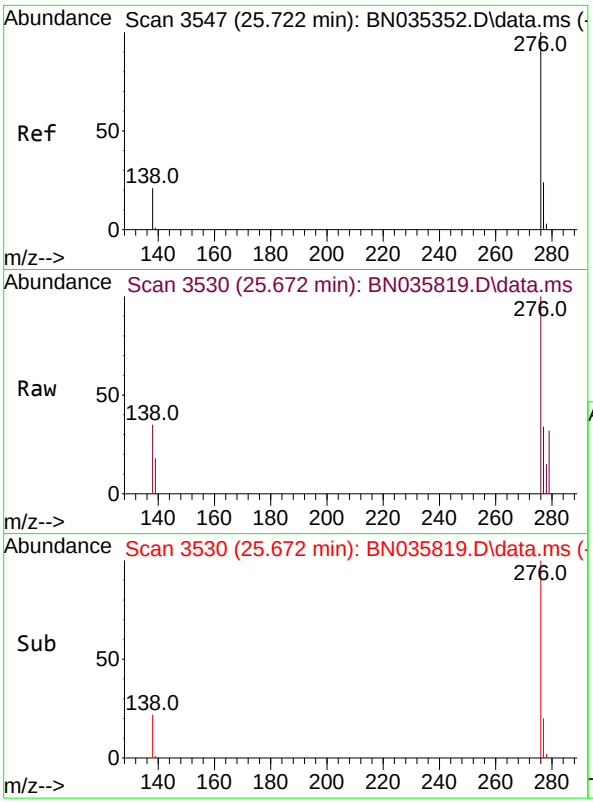


#40
Dibenzo(a,h)anthracene
Concen: 0.070 ng
RT: 25.090 min Scan# 3331
Delta R.T. 0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:278 Resp: 1565

Ion	Ratio	Lower	Upper
278	100		
139	36.0	14.2	21.4#
279	60.4	20.5	30.7#

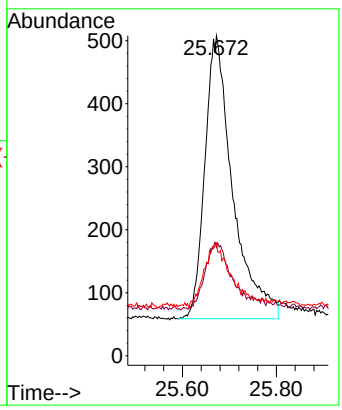




#41
Benzo(g,h,i)perylene
Concen: 0.080 ng
RT: 25.672 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:276 Resp: 185

Ion	Ratio	Lower	Upper
276	100		
277	33.9	19.9	29.9#
138	35.2	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10-MW01S-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-07	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035820.D	1	12/23/24 13:29	12/24/24 14:19	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.10	JM	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		107%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		137%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3140	7.264				
1146-65-2	Naphthalene-d8	7180	10.009				
15067-26-2	Acenaphthene-d10	4460	13.924				
1517-22-2	Phenanthrene-d10	8920	16.698				
1719-03-5	Chrysene-d12	7050	20.947				
1520-96-3	Perylene-d12	6960	23.029				

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\BN122324\
Data File : BN035820.D
Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3143	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7176	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4458	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8922	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7054	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6962	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	917	0.117	ng	0.00
5) Phenol-d6	6.484	99	441	0.047	ng	0.00
8) Nitrobenzene-d5	8.408	82	1881m	0.429	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4238	0.377	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	621	0.196	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6805	0.404	ng	0.00
27) Fluoranthene-d10	18.752	212	10147	0.401	ng	0.00
31) Terphenyl-d14	19.379	244	7626	0.548	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	288	0.096	ng	# 82
9) Naphthalene	10.062	128	1741	0.092	ng	# 85
12) 2-Methylnaphthalene	11.692	142	1119	0.083	ng	# 90
16) Acenaphthylene	13.636	152	1929	0.103	ng	99
17) Acenaphthene	13.988	154	1200	0.097	ng	99
18) Fluorene	15.004	166	1564	0.088	ng	100
25) Phenanthrene	16.735	178	2911	0.119	ng	98
26) Anthracene	16.835	178	2107	0.095	ng	97
28) Fluoranthene	18.780	202	3244	0.098	ng	100
30) Pyrene	19.151	202	3281	0.126	ng	99
32) Benzo(a)anthracene	20.938	228	2057	0.083	ng	94
33) Chrysene	20.982	228	2719	0.107	ng	95
34) Bis(2-ethylhexyl)phtha...	20.902	149	426	0.044	ng	# 88
36) Indeno(1,2,3-cd)pyrene	25.076	276	1756	0.065	ng	# 79
37) Benzo(b)fluoranthene	22.427	252	2679	0.105	ng	# 52
38) Benzo(k)fluoranthene	22.465	252	2525m	0.101	ng	
39) Benzo(a)pyrene	22.947	252	1551	0.074	ng	# 24
40) Dibenzo(a,h)anthracene	25.093	278	1312	0.061	ng	# 29
41) Benzo(g,h,i)perylene	25.675	276	1511	0.067	ng	# 72

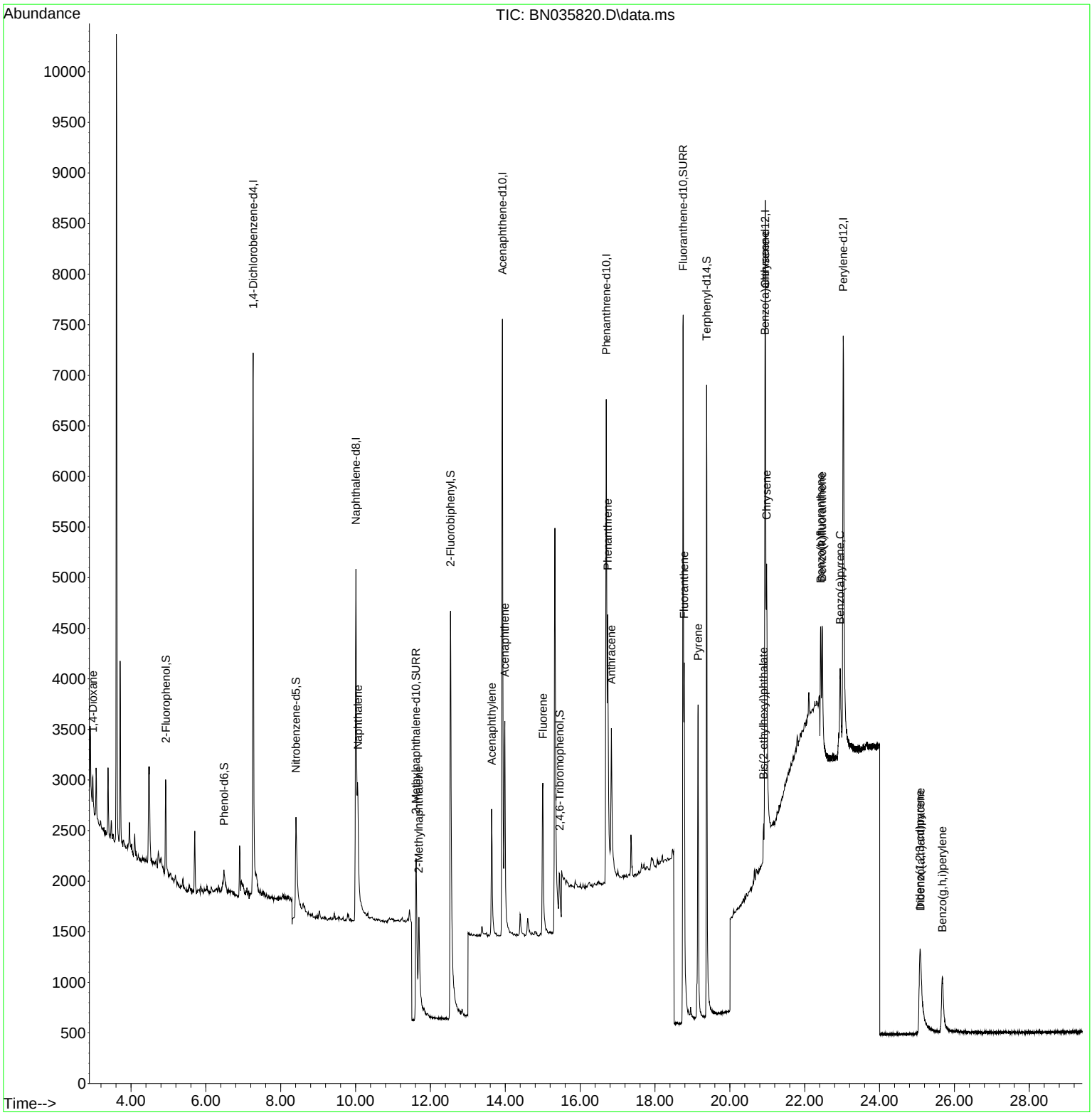
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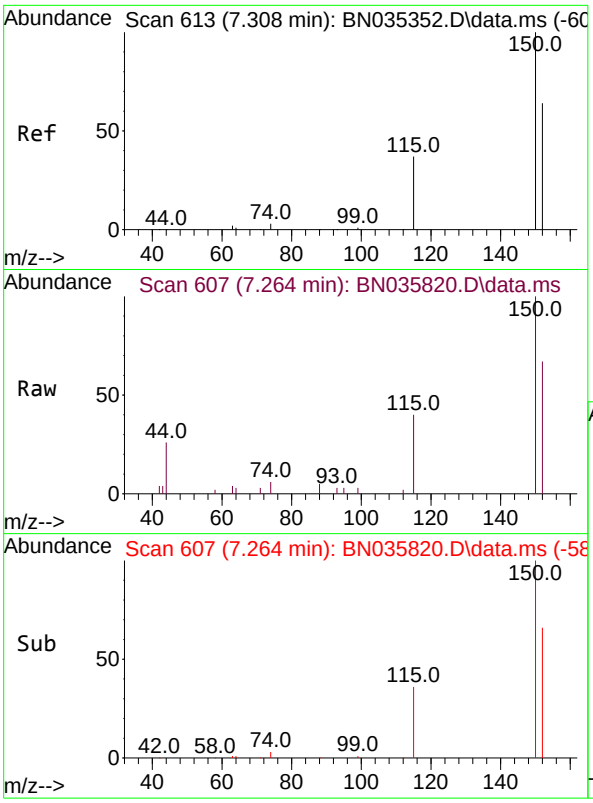
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Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

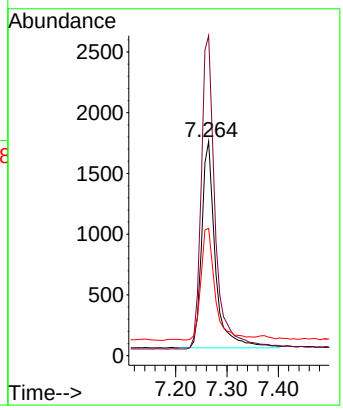




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:152 Resp: 314

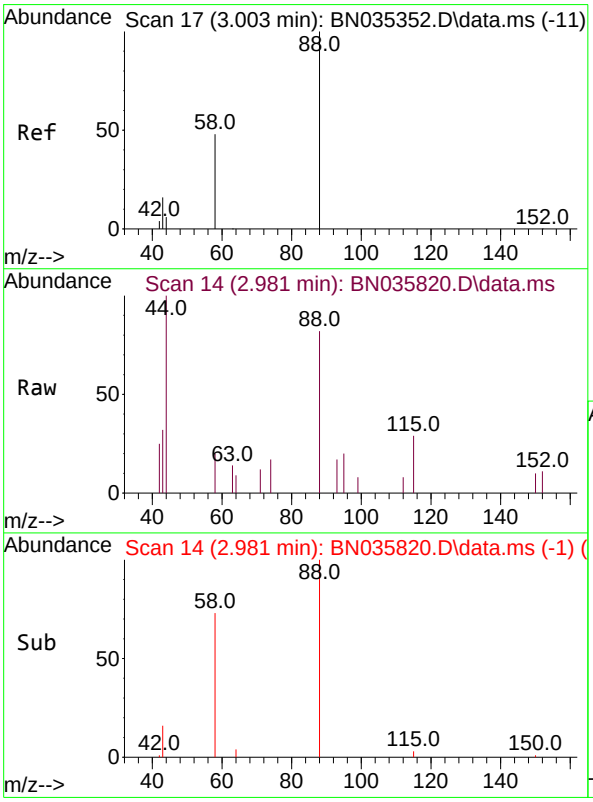
Ion	Ratio	Lower	Upper
152	100		
150	149.4	124.0	186.0
115	59.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
APPROVED

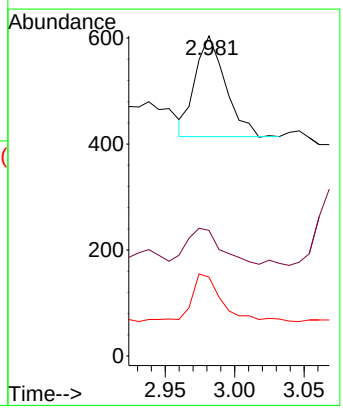
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

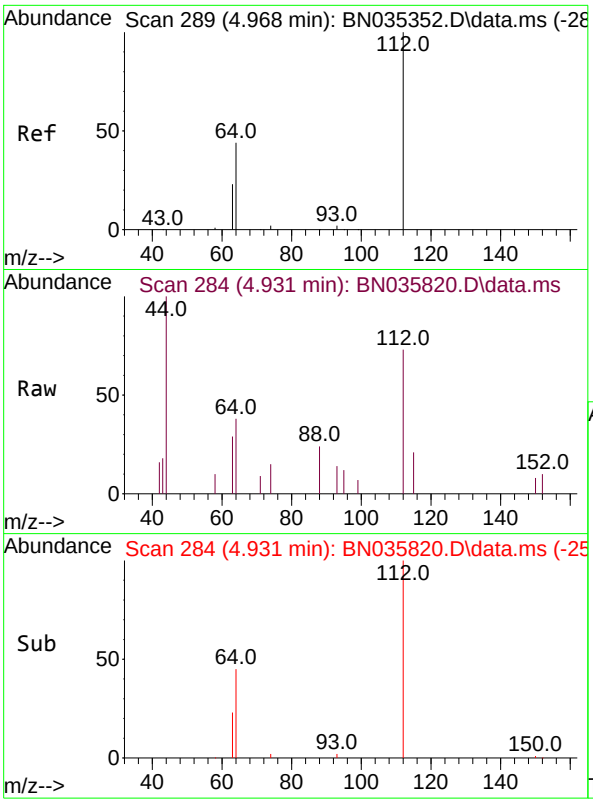


#2
1,4-Dioxane
Concen: 0.096 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 88 Resp: 288

Ion	Ratio	Lower	Upper
88	100		
43	39.6	17.2	25.8#
58	48.3	44.5	66.7





#4
2-Fluorophenol
Concen: 0.117 ng
RT: 4.931 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

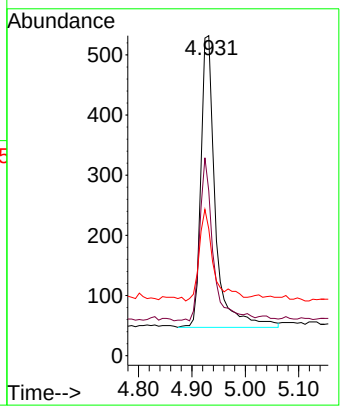
Tgt Ion:112 Resp: 91

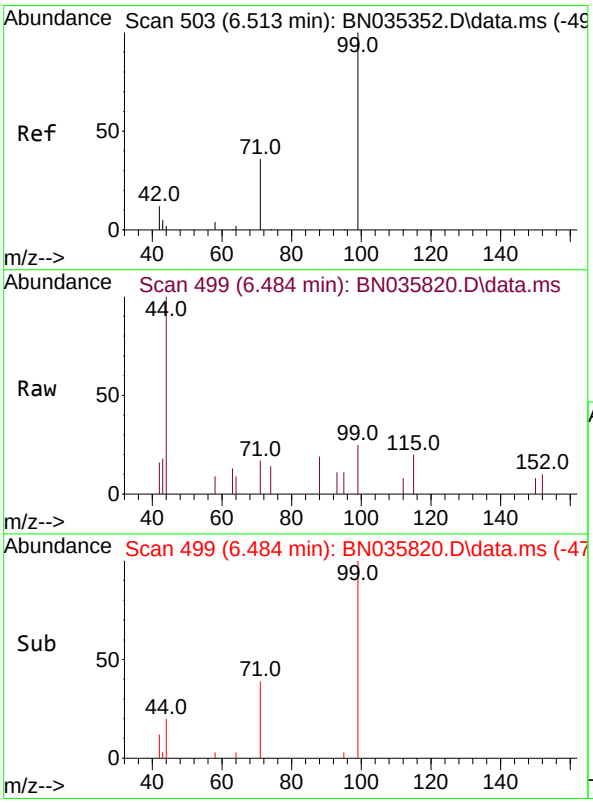
Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	31.2	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

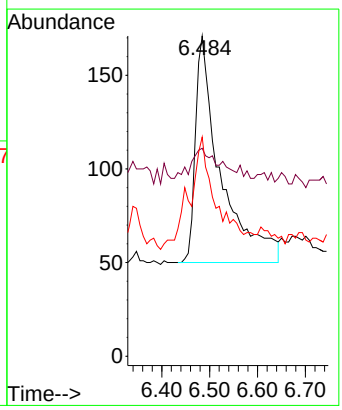


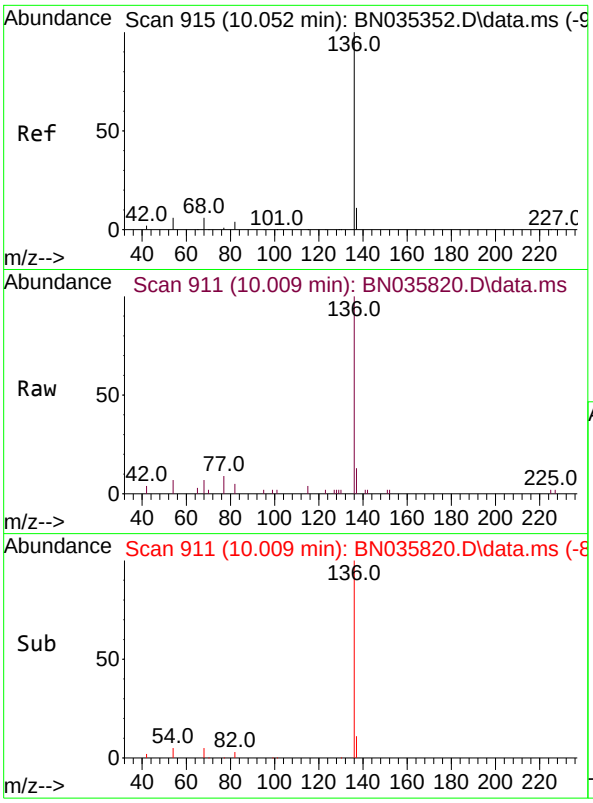


#5
Phenol-d6
Concen: 0.047 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 99 Resp: 441

Ion	Ratio	Lower	Upper
99	100		
42	13.8	11.4	17.2
71	54.9	29.3	43.9#

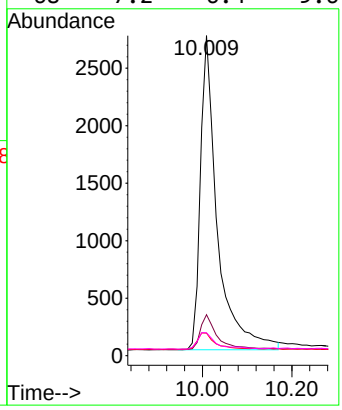




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:136 Resp: 717

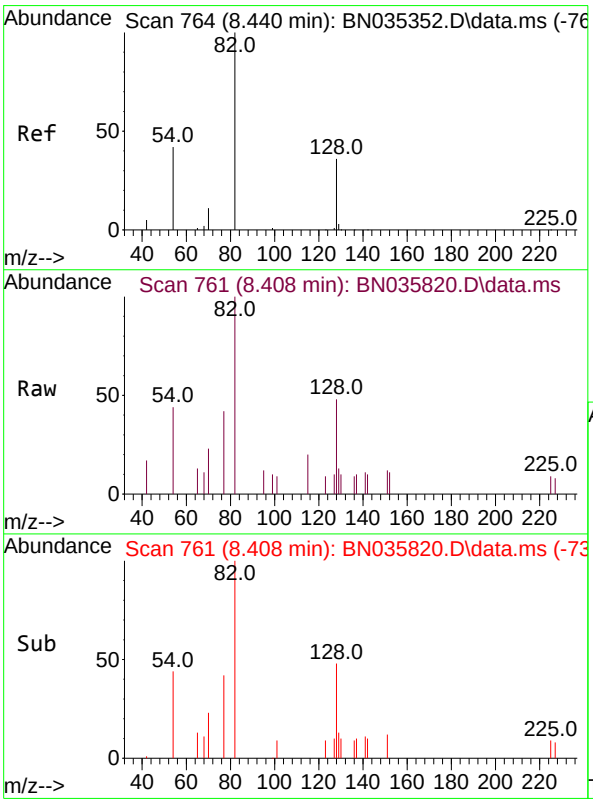
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	7.1	6.1	9.1
68	7.2	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
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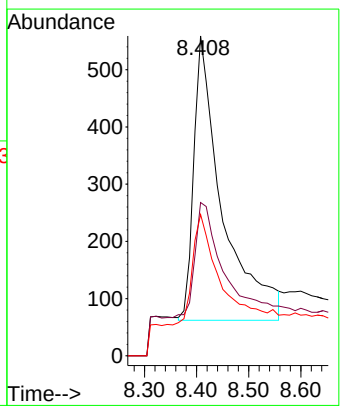
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

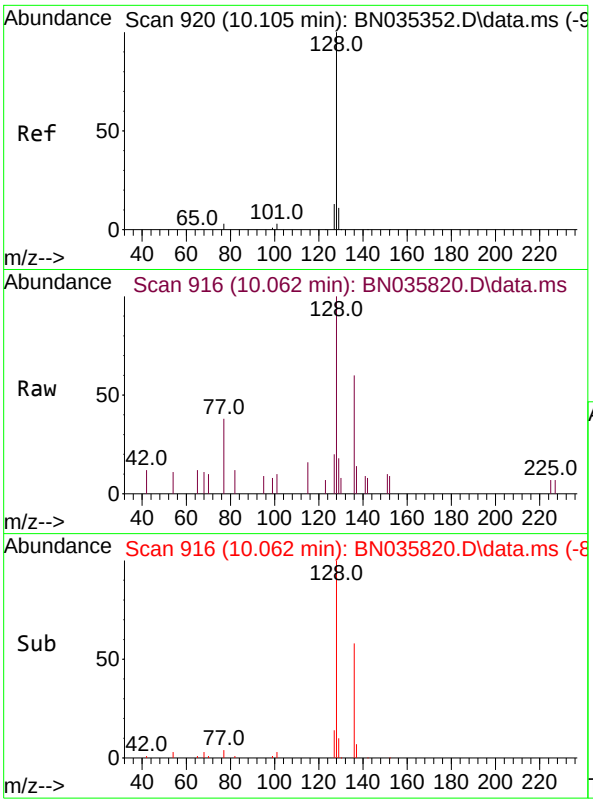


#8
Nitrobenzene-d5
Concen: 0.429 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 82 Resp: 1881

Ion	Ratio	Lower	Upper
82	100		
128	47.9	33.4	50.0
54	44.2	36.7	55.1

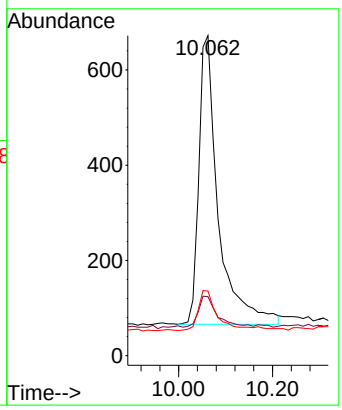




#9
Naphthalene
Concen: 0.092 ng
RT: 10.062 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:128 Resp: 174

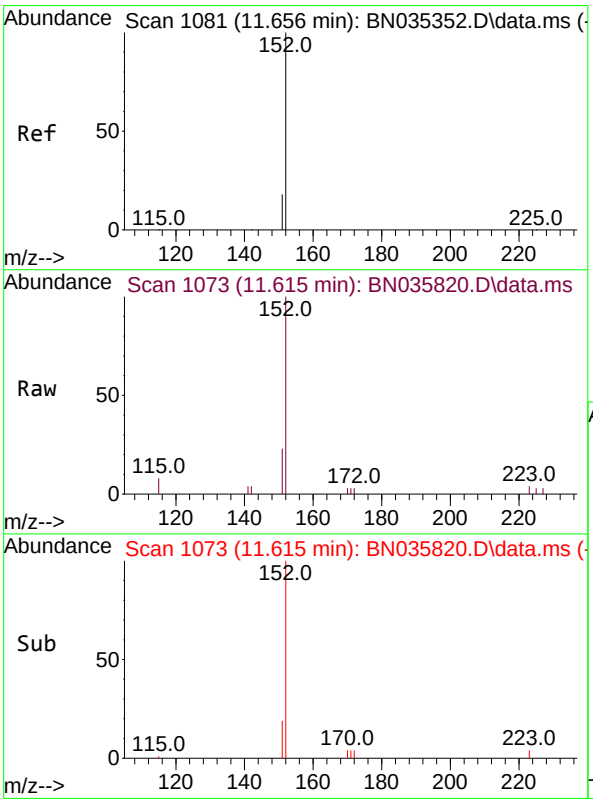
Ion	Ratio	Lower	Upper
128	100		
129	18.5	9.8	14.6#
127	20.2	11.4	17.2#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
APPROVED

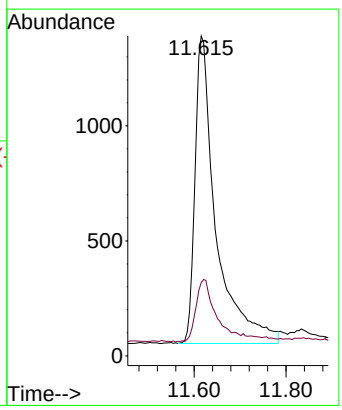
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

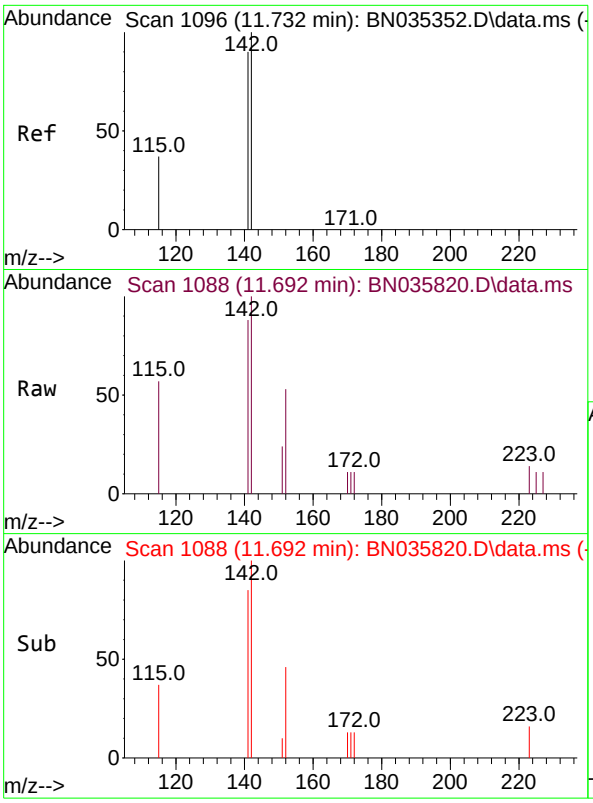


#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:152 Resp: 4238

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	25.0

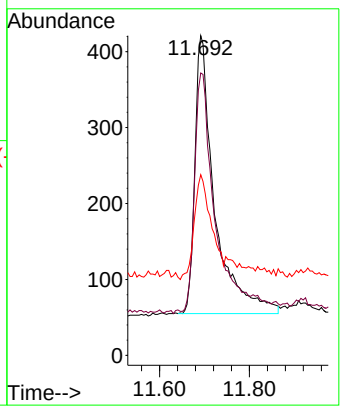




#12
2-Methylnaphthalene
Concen: 0.083 ng
RT: 11.692 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

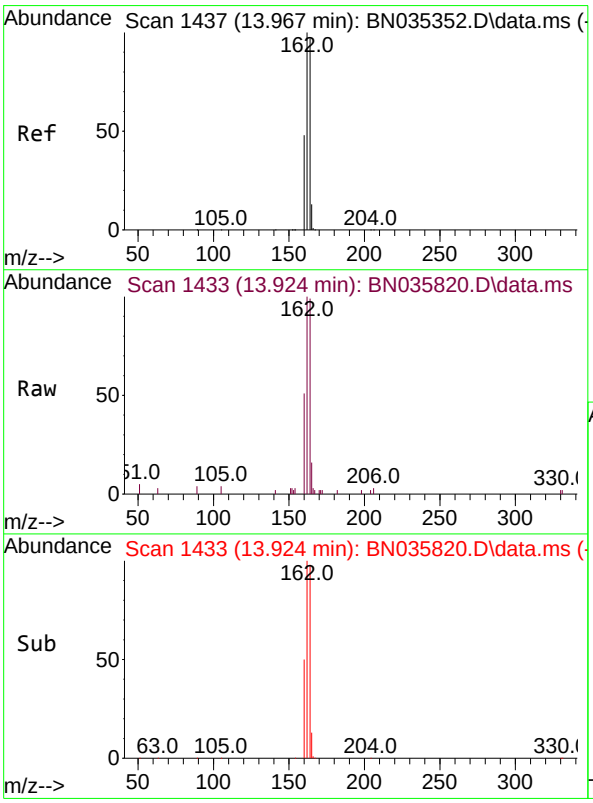
Tgt Ion:142 Resp: 111

Ion	Ratio	Lower	Upper
142	100		
141	88.4	72.2	108.4
115	56.5	31.4	47.0#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

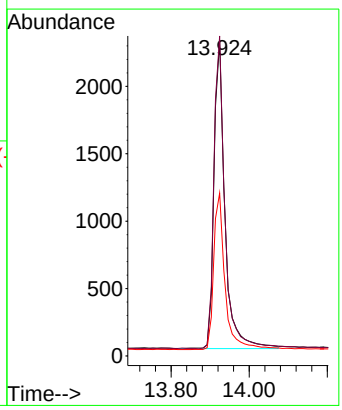
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

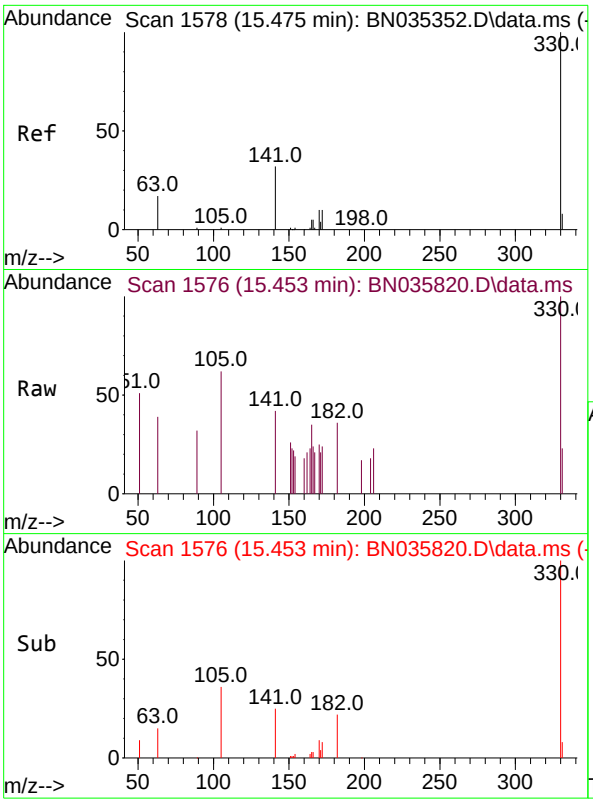


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:164 Resp: 4458

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	51.7	40.1	60.1

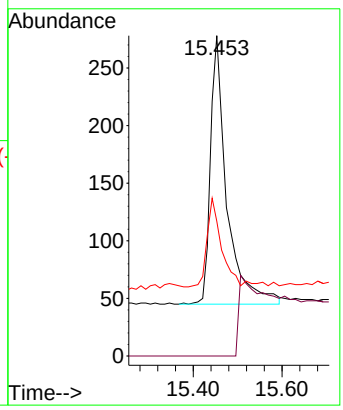




#14
2,4,6-Tribromophenol
Concen: 0.196 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

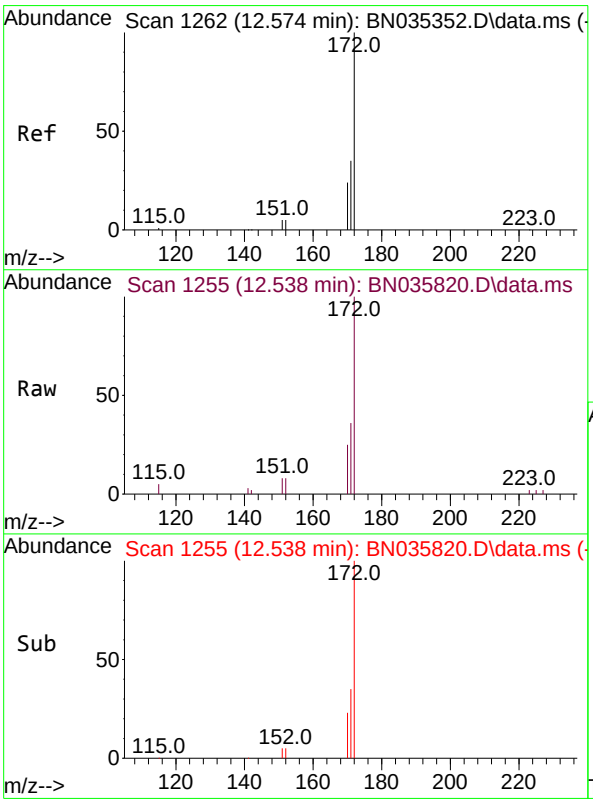
Tgt Ion:330 Resp: 62

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.7	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

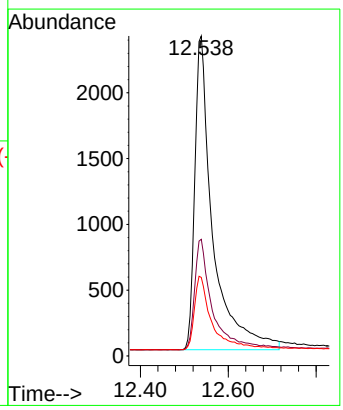
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

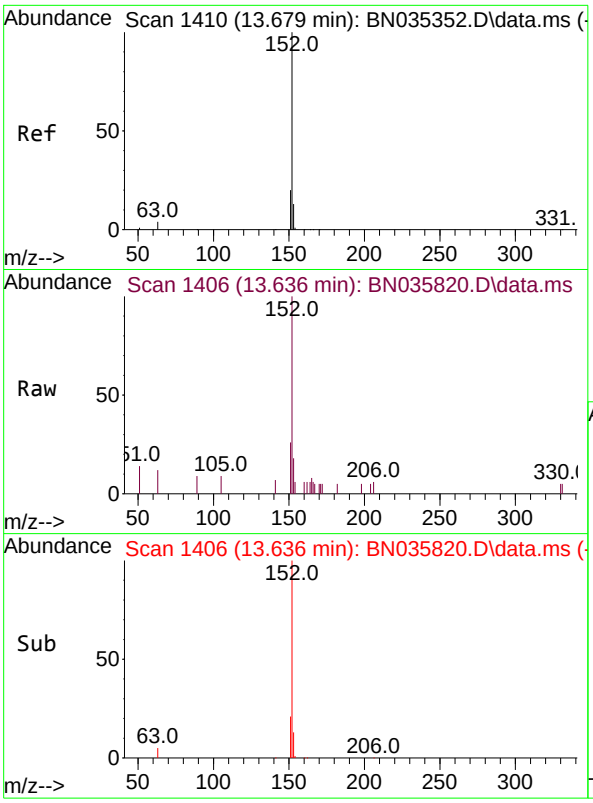


#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:172 Resp: 6805

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.5	19.8	29.8

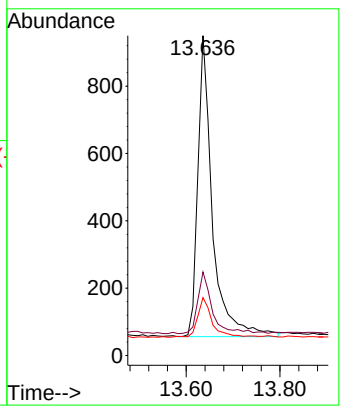




#16
Acenaphthylene
Concen: 0.103 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:152 Resp: 192

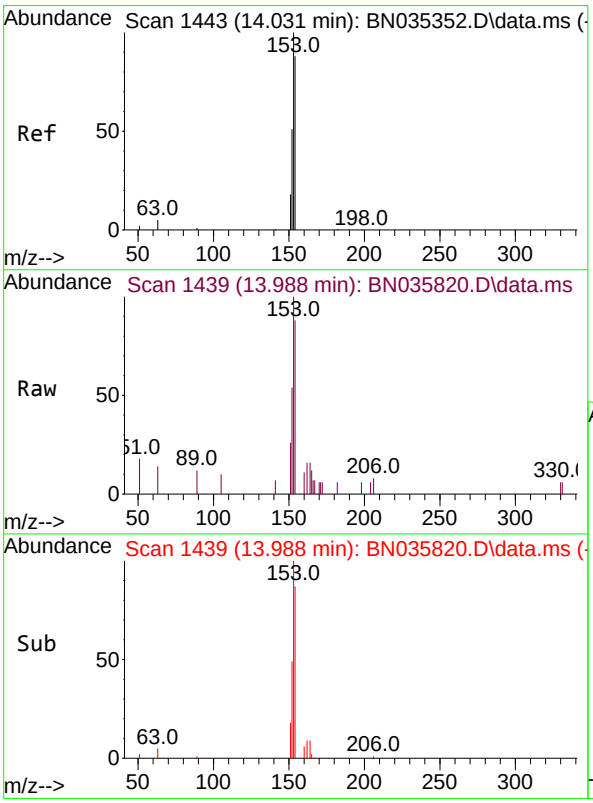
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.3	10.4	15.6



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
APPROVED

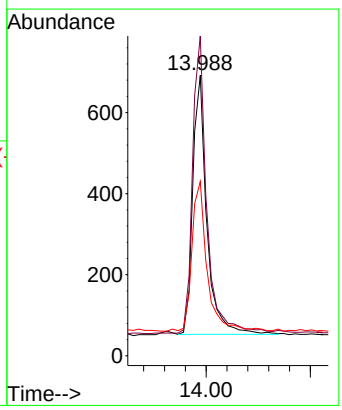
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

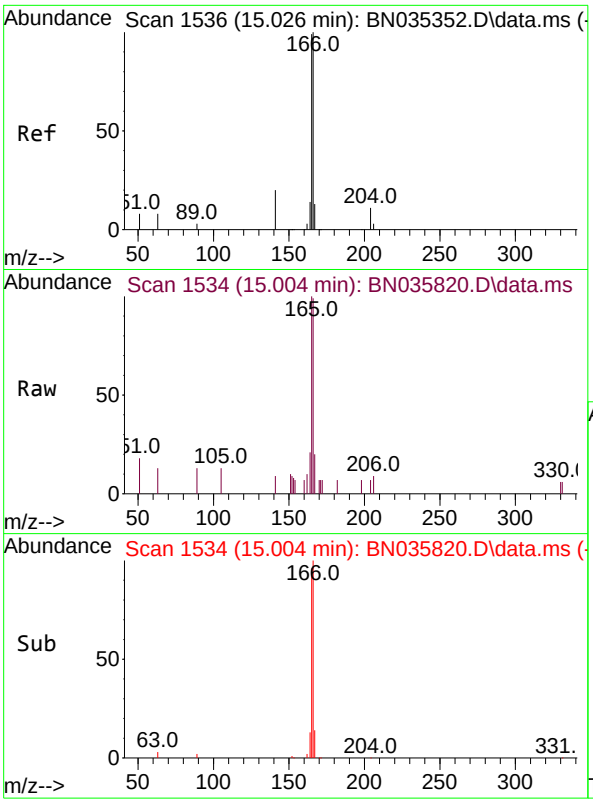


#17
Acenaphthene
Concen: 0.097 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:154 Resp: 1200

Ion	Ratio	Lower	Upper
154	100		
153	115.5	92.6	139.0
152	62.3	49.0	73.6

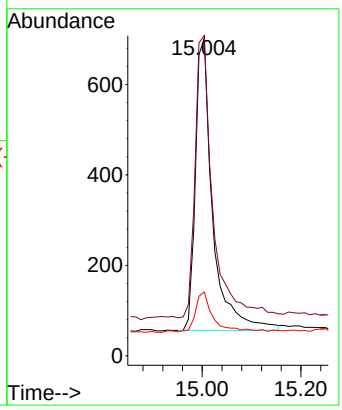




#18
Fluorene
Concen: 0.088 ng
RT: 15.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:166 Resp: 156

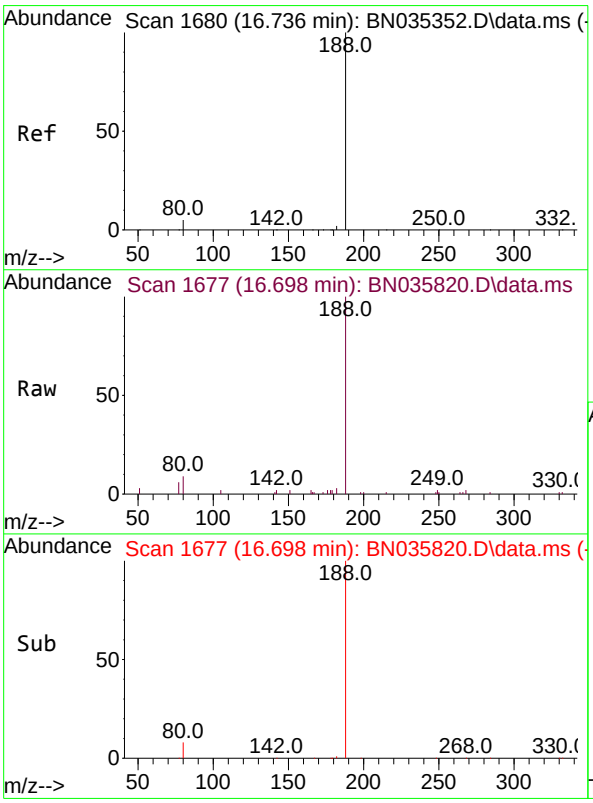
Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.7	119.5
167	13.8	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

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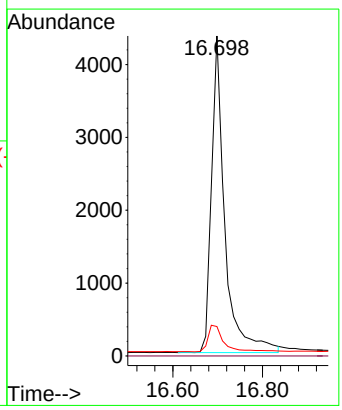
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

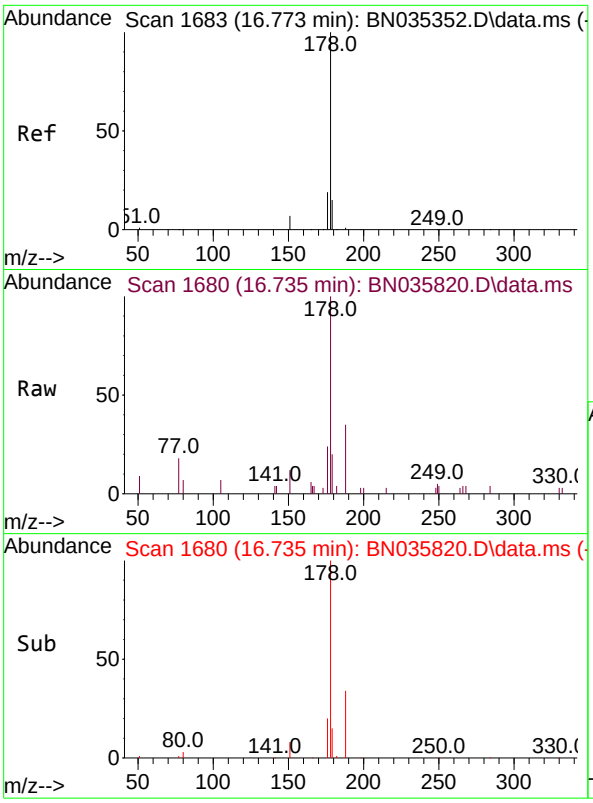


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:188 Resp: 8922

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8#





#25
Phenanthrene
Concen: 0.119 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

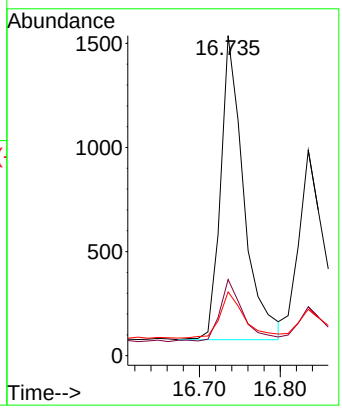
Tgt Ion:178 Resp: 291

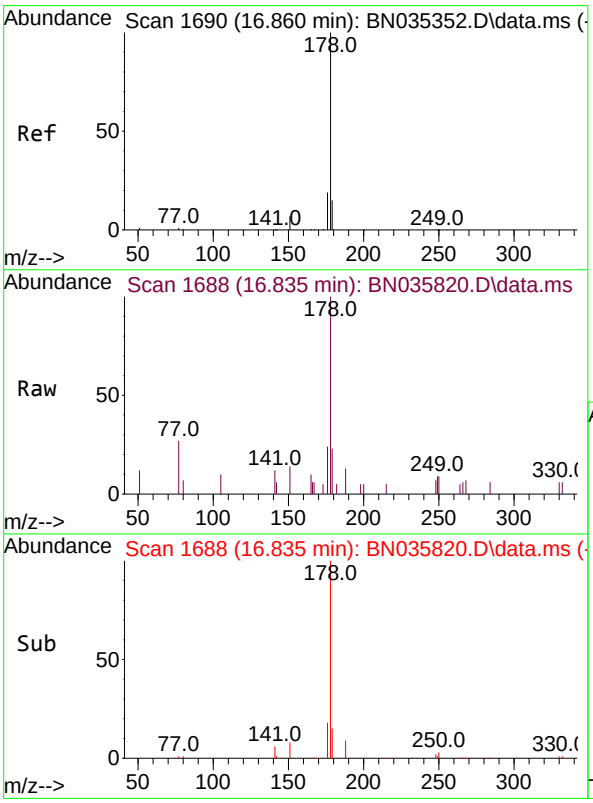
Ion	Ratio	Lower	Upper
178	100		
176	20.8	15.4	23.2
179	15.9	12.3	18.5

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

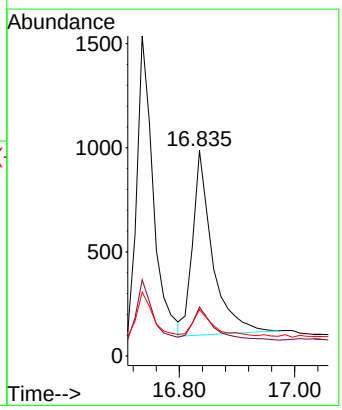


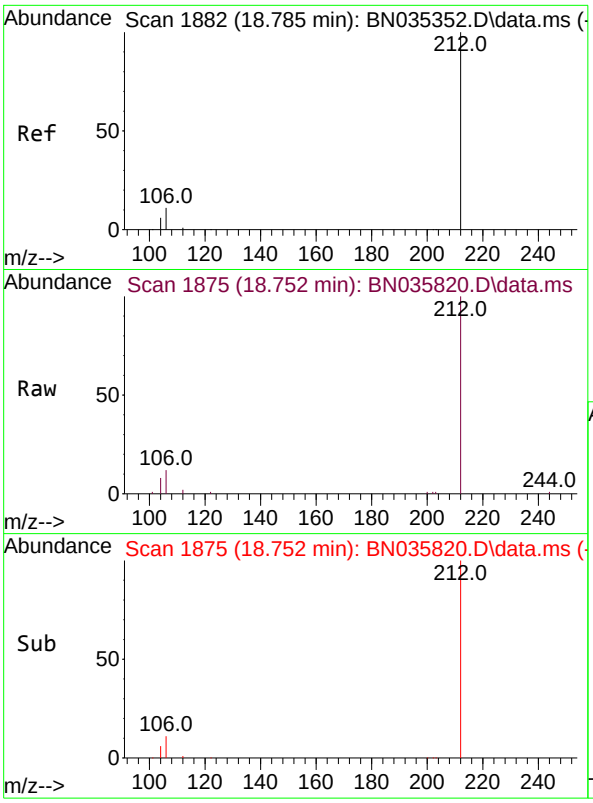


#26
Anthracene
Concen: 0.095 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:178 Resp: 2107

Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.0	22.6
179	16.5	12.6	18.8

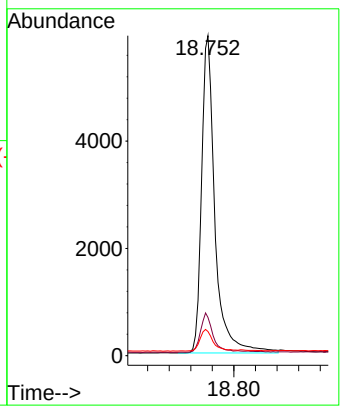




#27
Fluoranthene-d10
Concen: 0.401 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:212 Resp: 1014

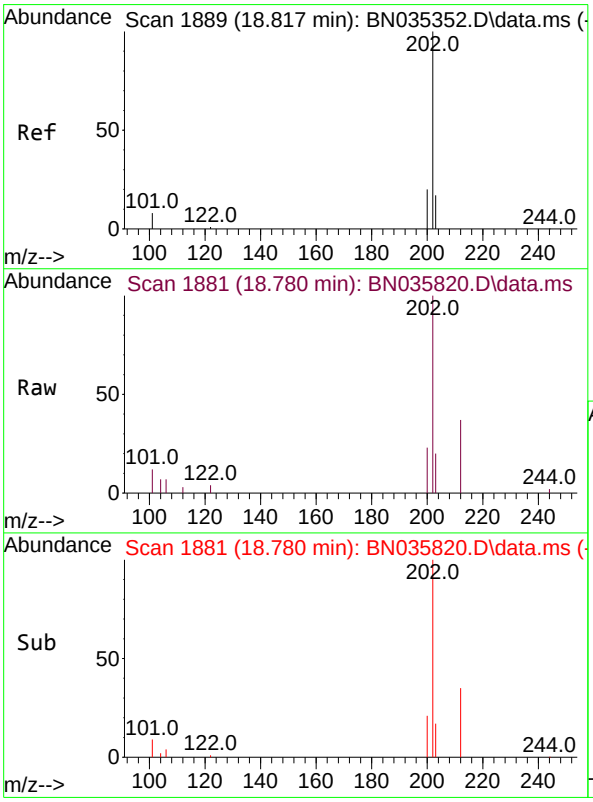
Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
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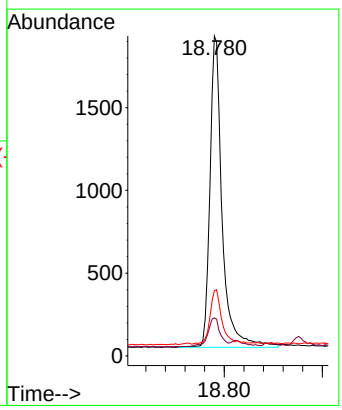
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

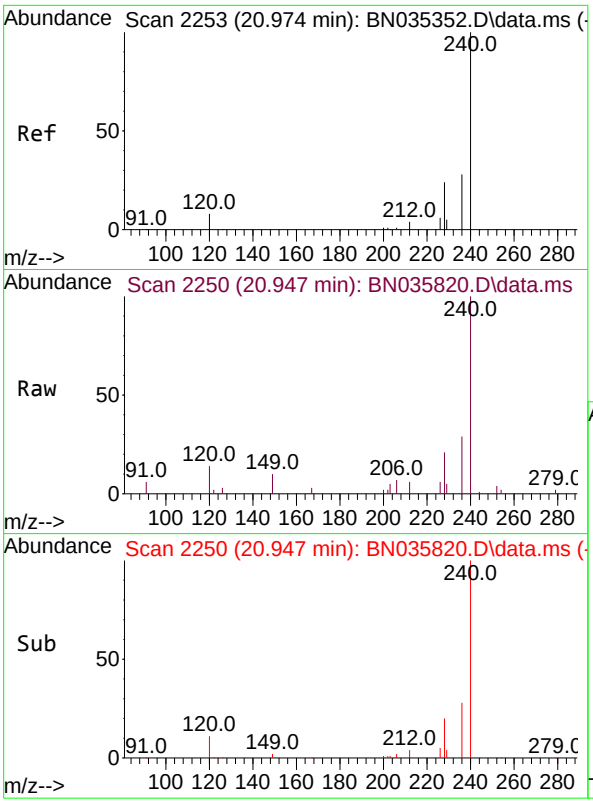


#28
Fluoranthene
Concen: 0.098 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:202 Resp: 3244

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.2	13.7	20.5

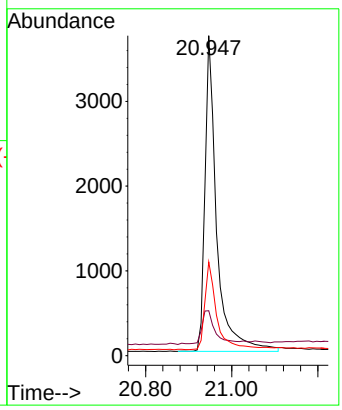




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:240 Resp: 705

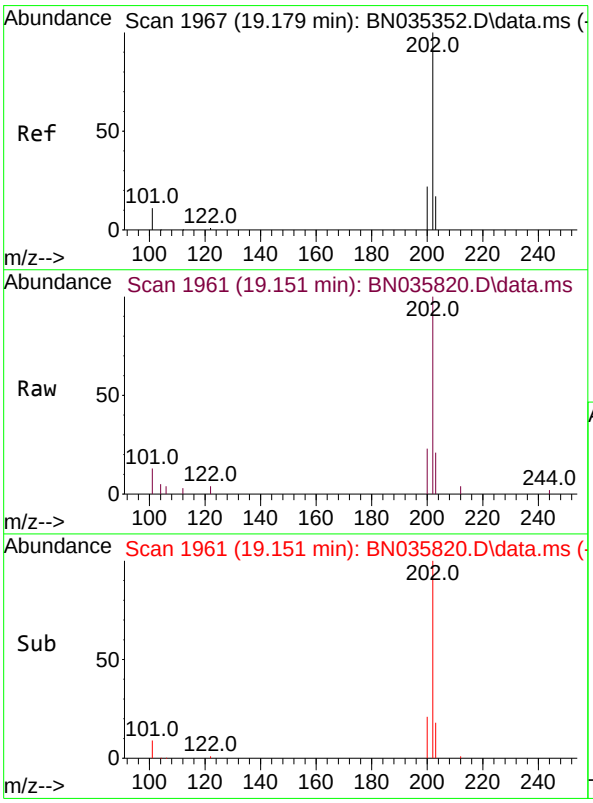
Ion	Ratio	Lower	Upper
240	100		
120	14.1	7.9	11.9
236	29.3	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations APPROVED

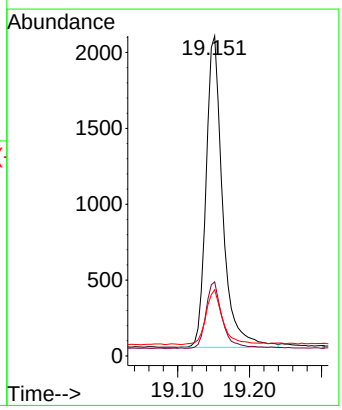
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

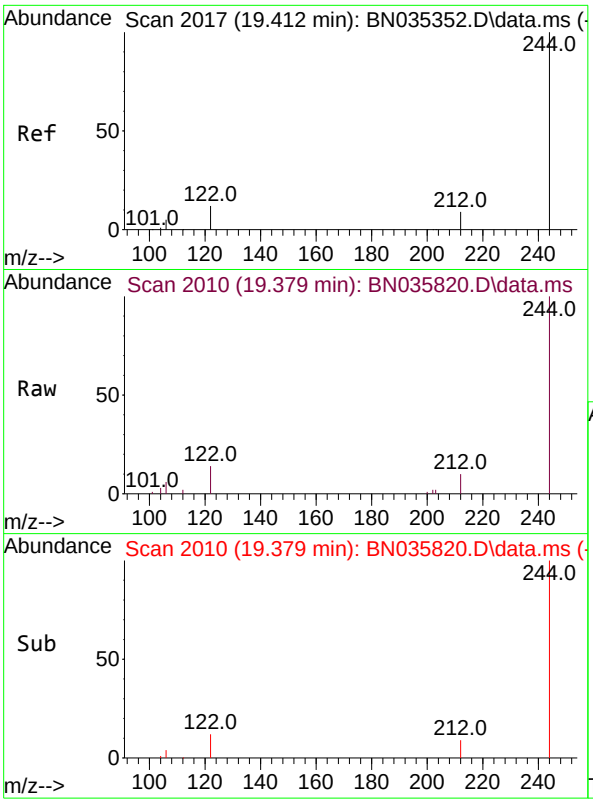


#30
Pyrene
Concen: 0.126 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:202 Resp: 3281

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.1	14.3	21.5

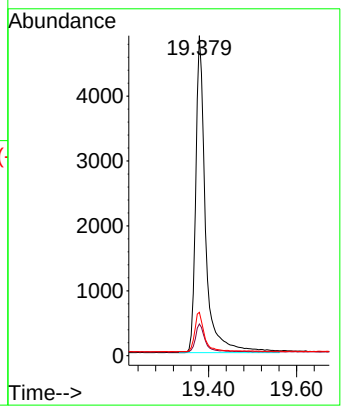




#31
Terphenyl-d14
Concen: 0.548 ng
RT: 19.379 min Scan# 2(
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:244 Resp: 762(

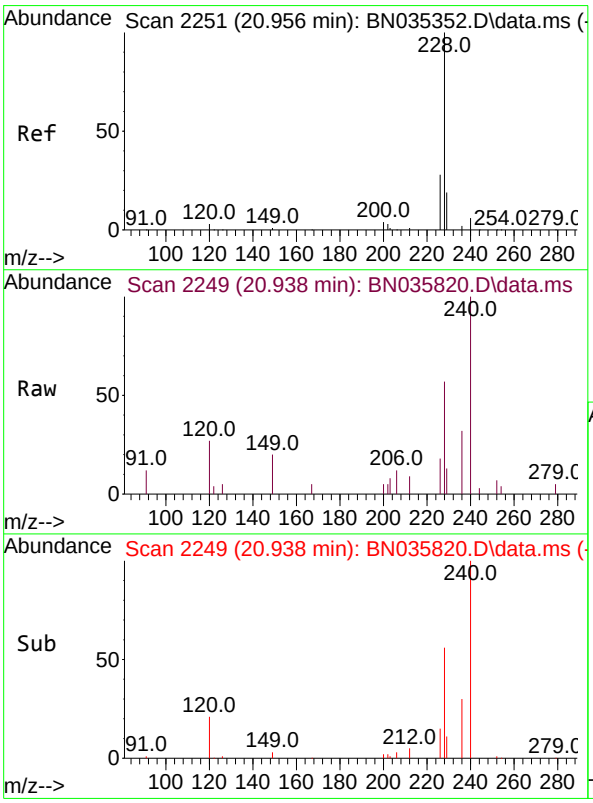
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.5	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

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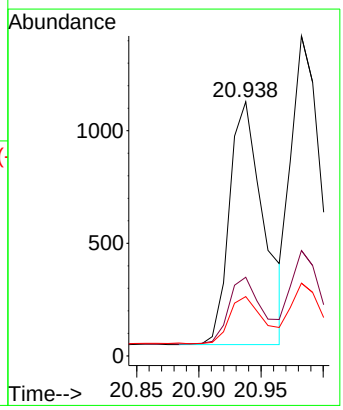
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

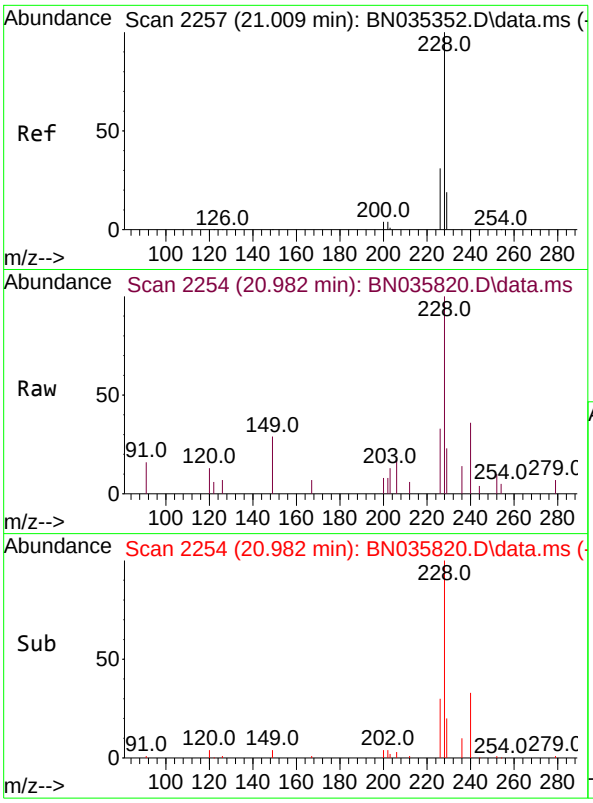


#32
Benzo(a)anthracene
Concen: 0.083 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:228 Resp: 2057

Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.5	33.7
229	23.3	15.8	23.8

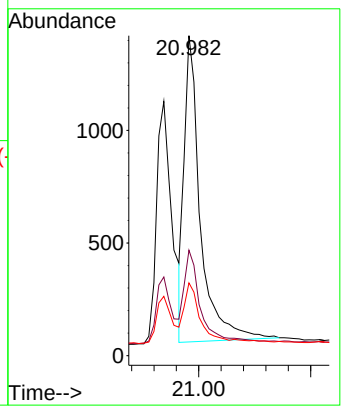




#33
Chrysene
Concen: 0.107 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:228 Resp: 271

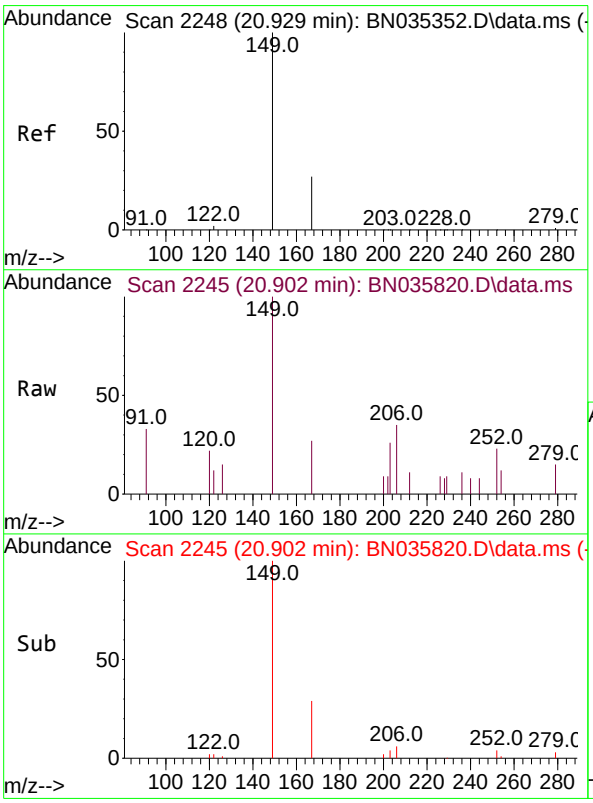
Ion	Ratio	Lower	Upper
228	100		
226	32.9	24.6	37.0
229	22.7	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
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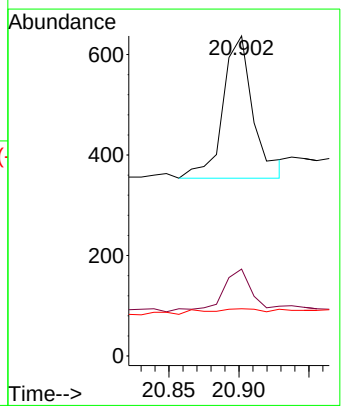
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

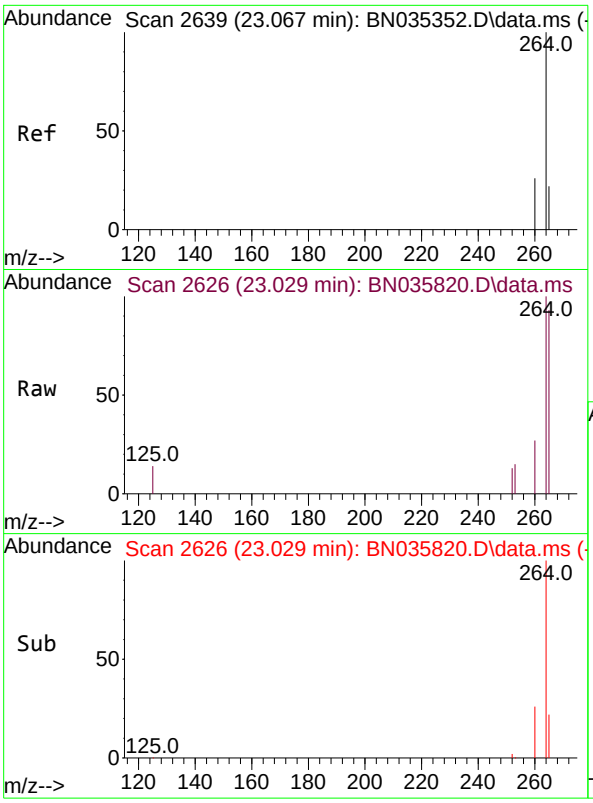


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.044 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:149 Resp: 426

Ion	Ratio	Lower	Upper
149	100		
167	34.0	22.2	33.4#
279	7.3	2.7	4.1#

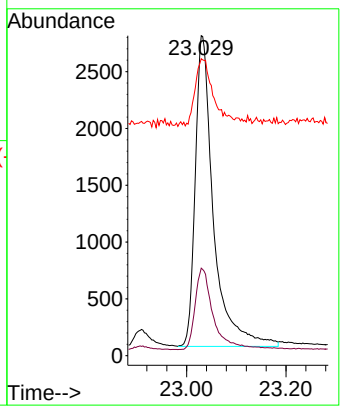




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:264 Resp: 696

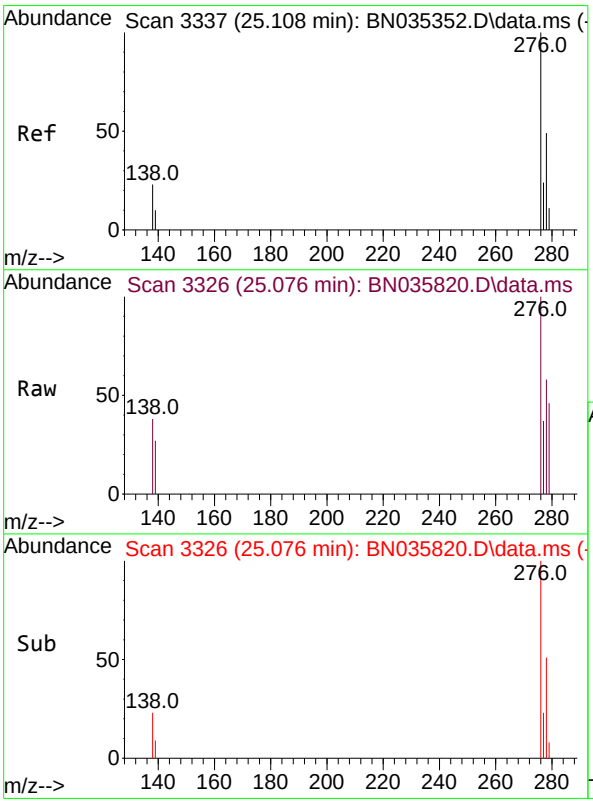
Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.4	32.2
265	92.8	40.2	60.4#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

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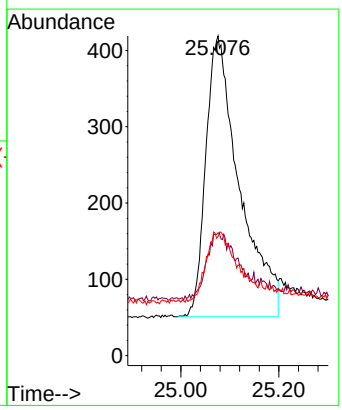
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

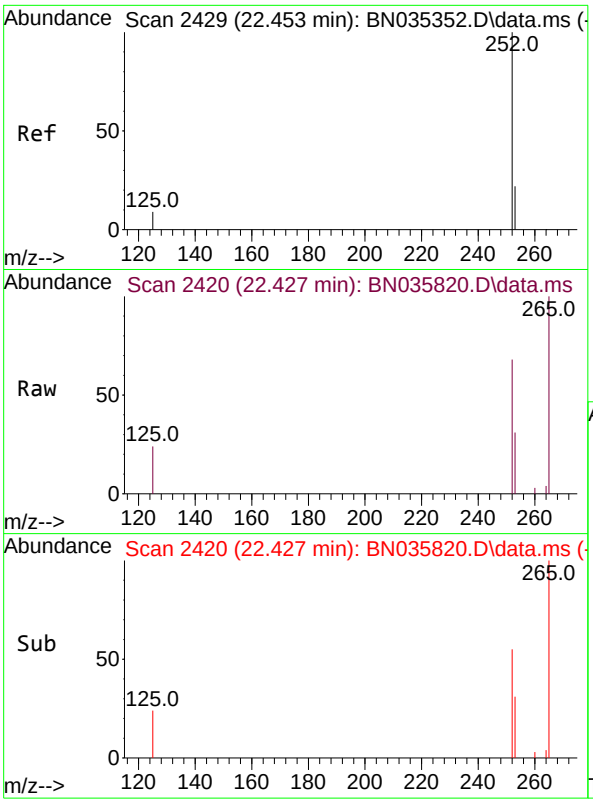


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.065 ng
RT: 25.076 min Scan# 3326
Delta R.T. 0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:276 Resp: 1756

Ion	Ratio	Lower	Upper
276	100		
138	20.6	19.4	29.0
277	7.7	19.8	29.6#

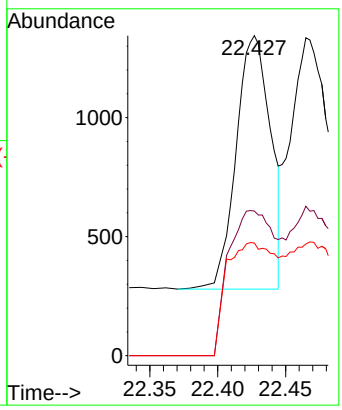




#37
Benzo(b)fluoranthene
Concen: 0.105 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:252 Resp: 267

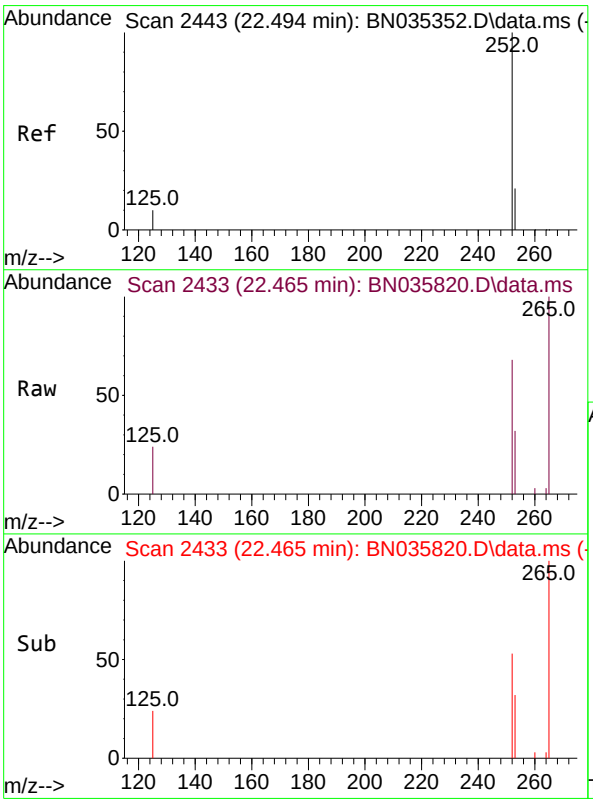
Ion	Ratio	Lower	Upper
252	100		
253	45.2	19.6	29.4#
125	35.2	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
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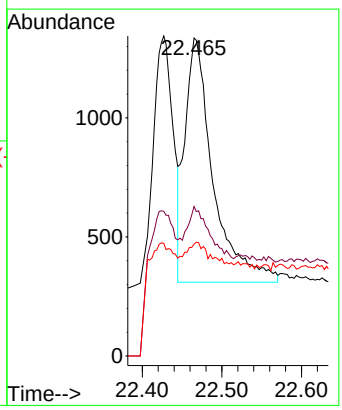
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

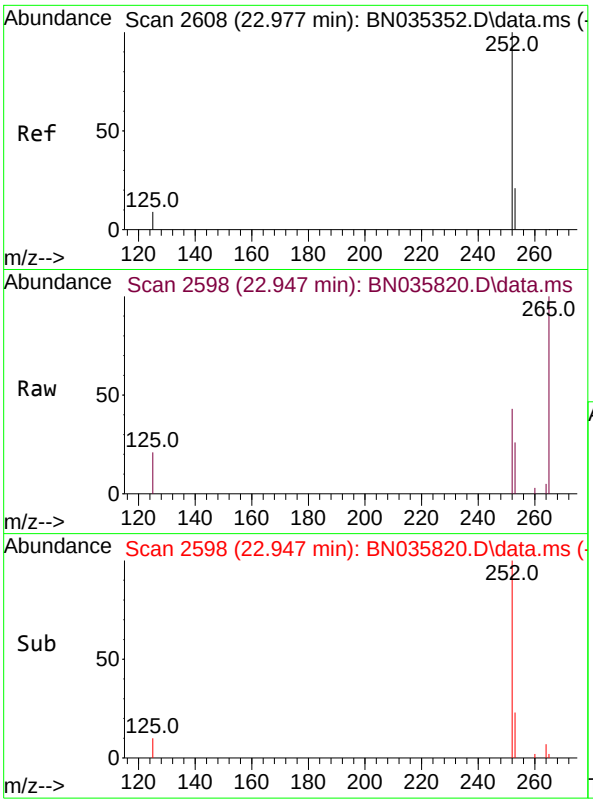


#38
Benzo(k)fluoranthene
Concen: 0.101 ng m
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:252 Resp: 2525

Ion	Ratio	Lower	Upper
252	100		
253	47.0	19.5	29.3#
125	35.1	10.2	15.4#

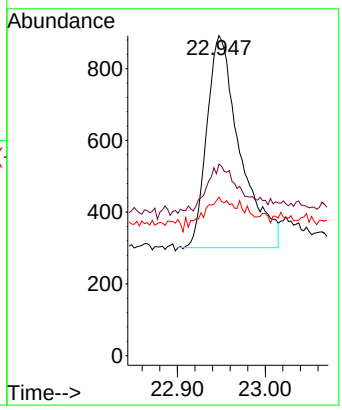




#39
Benzo(a)pyrene
Concen: 0.074 ng
RT: 22.947 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:252 Resp: 155

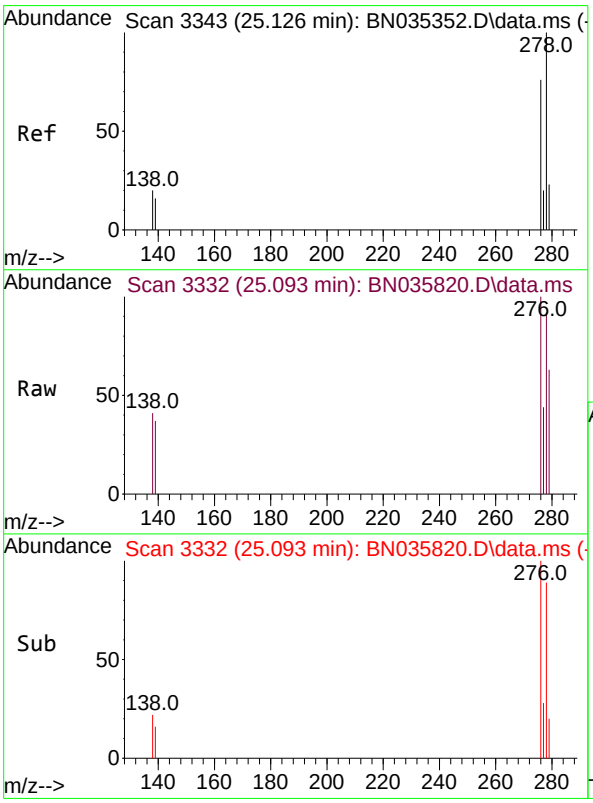
Ion	Ratio	Lower	Upper
252	100		
253	59.9	20.2	30.4#
125	49.6	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
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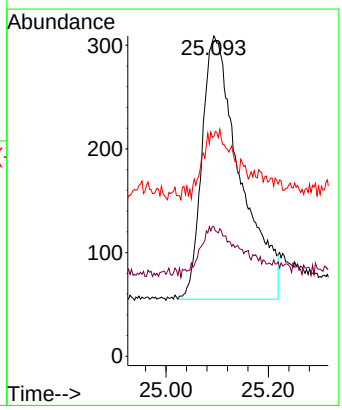
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

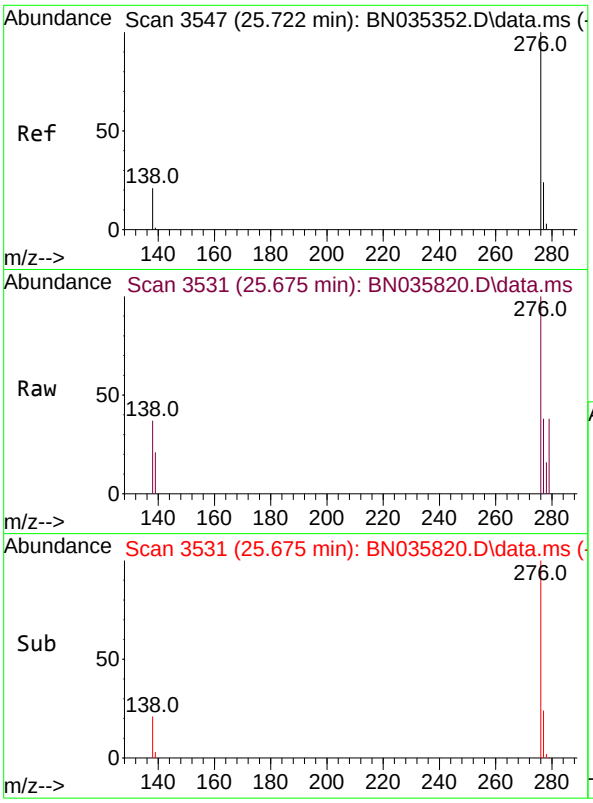


#40
Dibenzo(a,h)anthracene
Concen: 0.061 ng
RT: 25.093 min Scan# 3332
Delta R.T. 0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:278 Resp: 1312

Ion	Ratio	Lower	Upper
278	100		
139	40.5	14.2	21.4#
279	68.6	20.5	30.7#

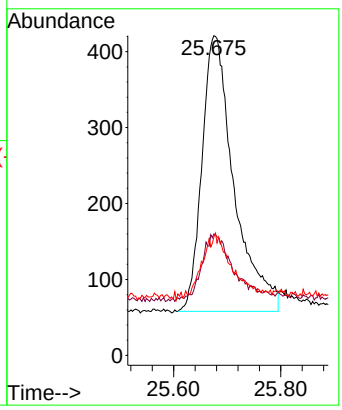




#41
Benzo(g,h,i)perylene
Concen: 0.067 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:276 Resp: 151

Ion	Ratio	Lower	Upper
276	100		
277	38.0	19.9	29.9#
138	37.1	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10-MW01D-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035823.D	1	12/23/24 13:29	12/24/24 16:06	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3350	7.264				
1146-65-2	Naphthalene-d8	8450	10.009				
15067-26-2	Acenaphthene-d10	5460	13.925				
1517-22-2	Phenanthrene-d10	11800	16.698				
1719-03-5	Chrysene-d12	9970	20.947				
1520-96-3	Perylene-d12	9570	23.026				

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\BN122324\
Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3352	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8445	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	5463	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11816	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9968	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	9568	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	842	0.100	ng	-0.01
5) Phenol-d6	6.477	99	482	0.048	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1955m	0.379	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	4421	0.335	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	799	0.206	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	6936	0.336	ng	-0.01
27) Fluoranthene-d10	18.747	212	13295	0.397	ng	-0.01
31) Terphenyl-d14	19.379	244	9869	0.502	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.052	128	964	0.043	ng	# 77
12) 2-Methylnaphthalene	11.692	142	597	0.037	ng	# 76
16) Acenaphthylene	13.636	152	1063	0.046	ng	# 93
17) Acenaphthene	13.989	154	693	0.045	ng	99
18) Fluorene	14.994	166	956	0.044	ng	96
25) Phenanthrene	16.736	178	2183	0.067	ng	98
26) Anthracene	16.835	178	1383	0.047	ng	98
28) Fluoranthene	18.780	202	2251	0.051	ng	# 96
30) Pyrene	19.147	202	2504	0.068	ng	98
32) Benzo(a)anthracene	20.929	228	1508	0.043	ng	# 91
33) Chrysene	20.983	228	2026	0.056	ng	# 93
34) Bis(2-ethylhexyl)phtha...	20.893	149	1059	0.077	ng	# 95
36) Indeno(1,2,3-cd)pyrene	25.073	276	1384	0.037	ng	# 82
37) Benzo(b)fluoranthene	22.424	252	1754	0.050	ng	# 28
38) Benzo(k)fluoranthene	22.465	252	1557	0.045	ng	# 29
39) Benzo(a)pyrene	22.945	252	959	0.033	ng	# 1
40) Dibenzo(a,h)anthracene	25.085	278	1067	0.036	ng	# 11
41) Benzo(g,h,i)perylene	25.675	276	1130	0.037	ng	# 64

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

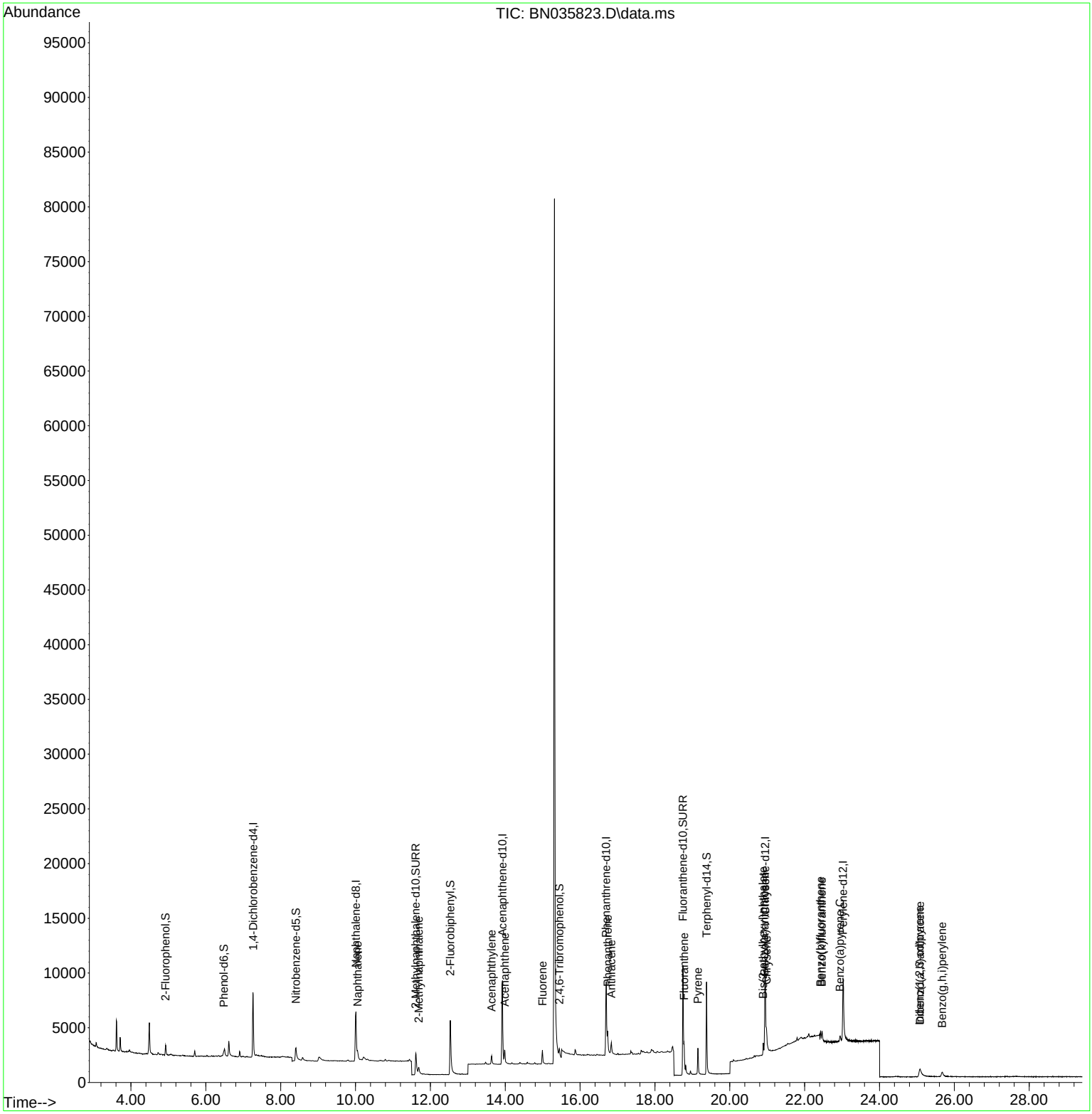
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Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

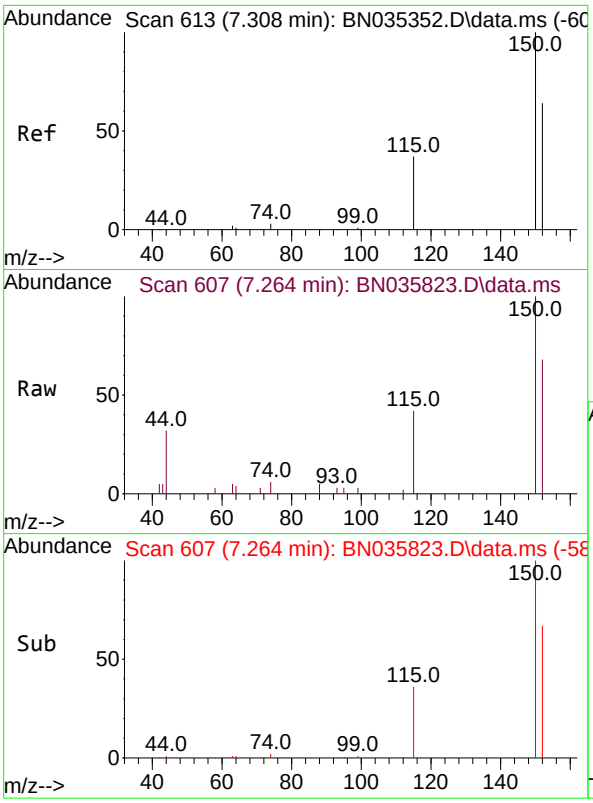
Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

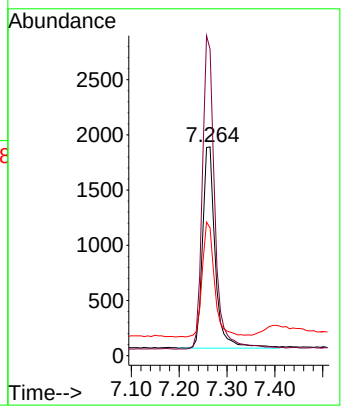
Tgt Ion:152 Resp: 335

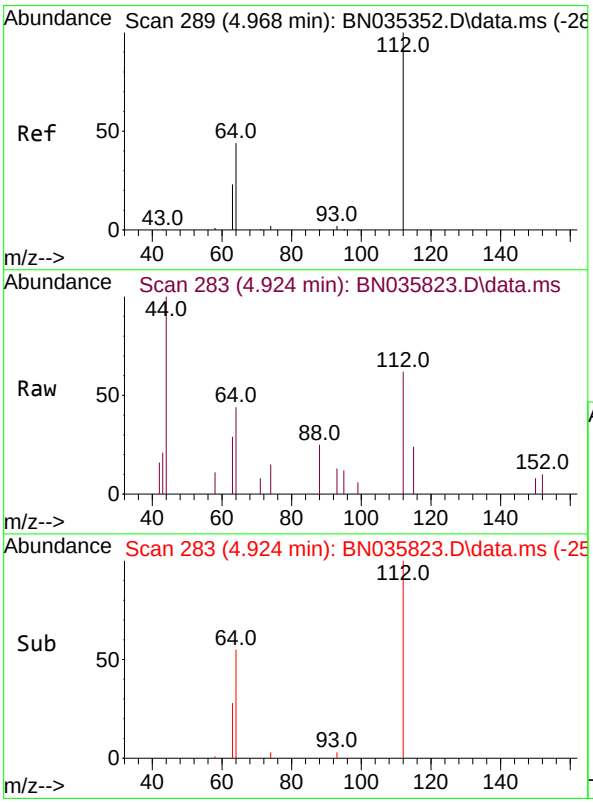
Ion	Ratio	Lower	Upper
152	100		
150	146.7	124.0	186.0
115	61.2	49.6	74.4

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

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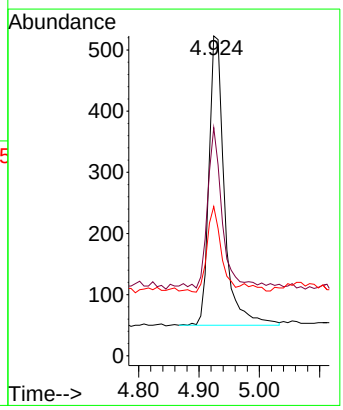


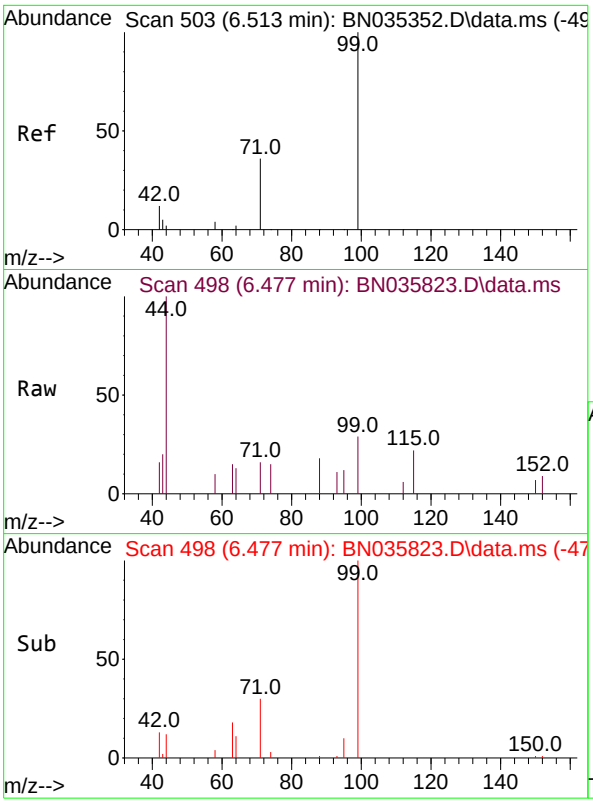


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:112 Resp: 842

Ion	Ratio	Lower	Upper
112	100		
64	52.5	39.8	59.8
63	27.2	21.0	31.6

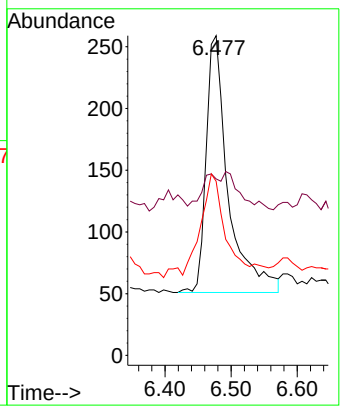




#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion: 99 Resp: 48

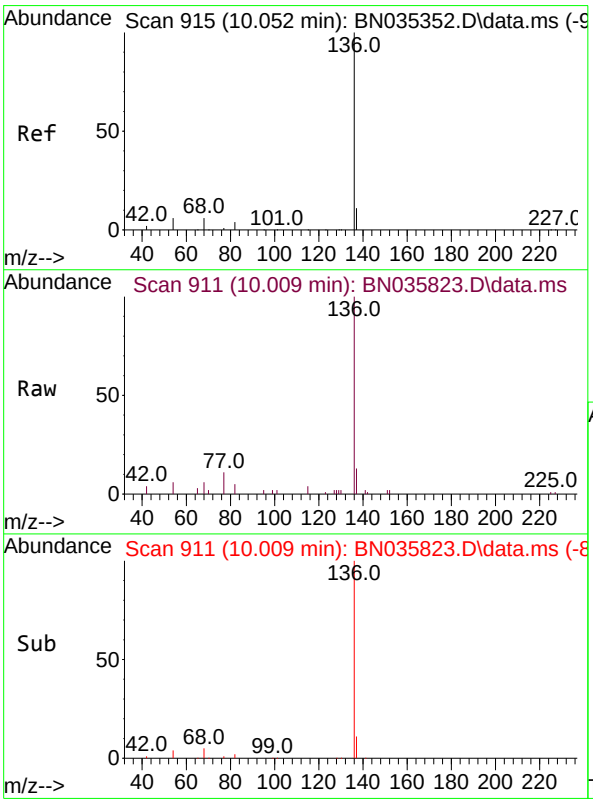
Ion	Ratio	Lower	Upper
99	100		
42	10.2	11.4	17.2#
71	41.9	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
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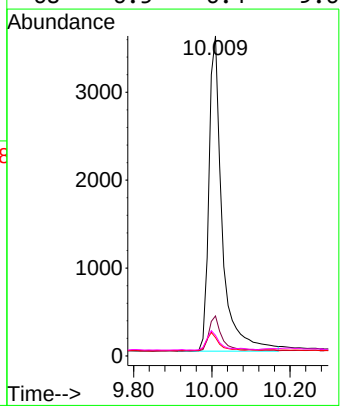
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

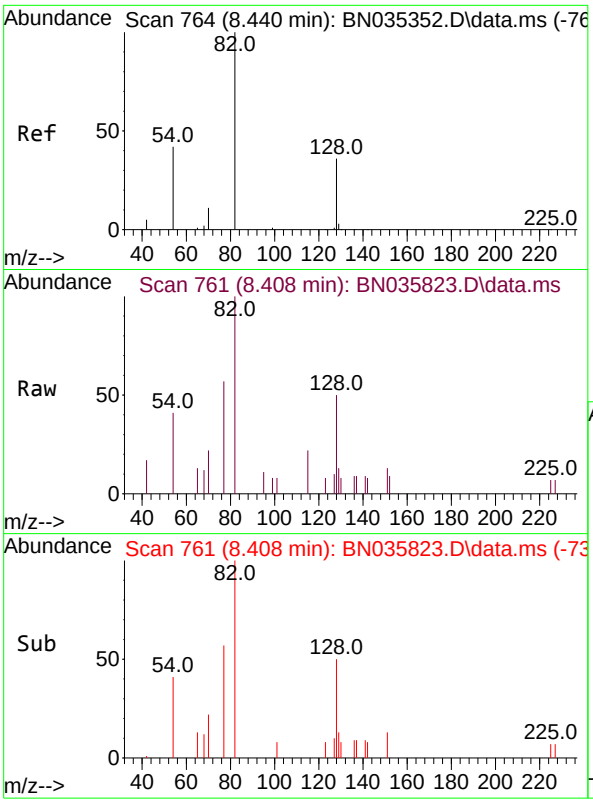


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:136 Resp: 8445

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	5.7	6.1	9.1#
68	6.5	6.4	9.6

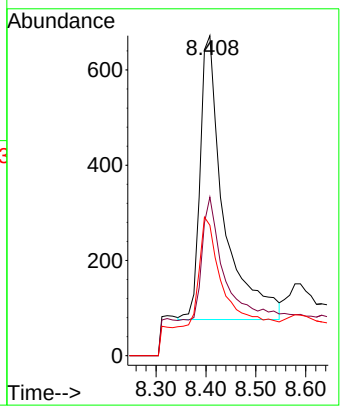




#8
Nitrobenzene-d5
Concen: 0.379 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion: 82 Resp: 195

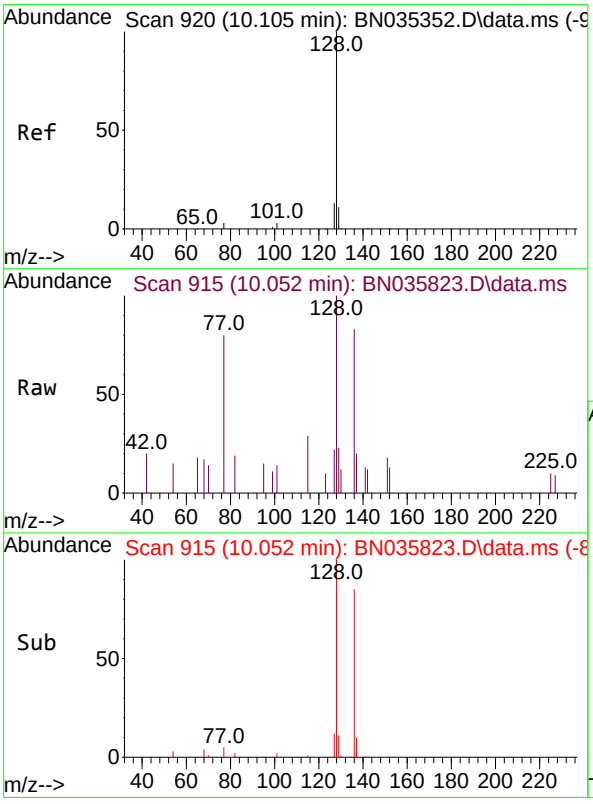
Ion	Ratio	Lower	Upper
82	100		
128	49.6	33.4	50.0
54	40.8	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
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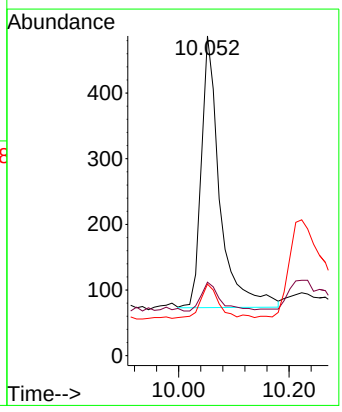
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

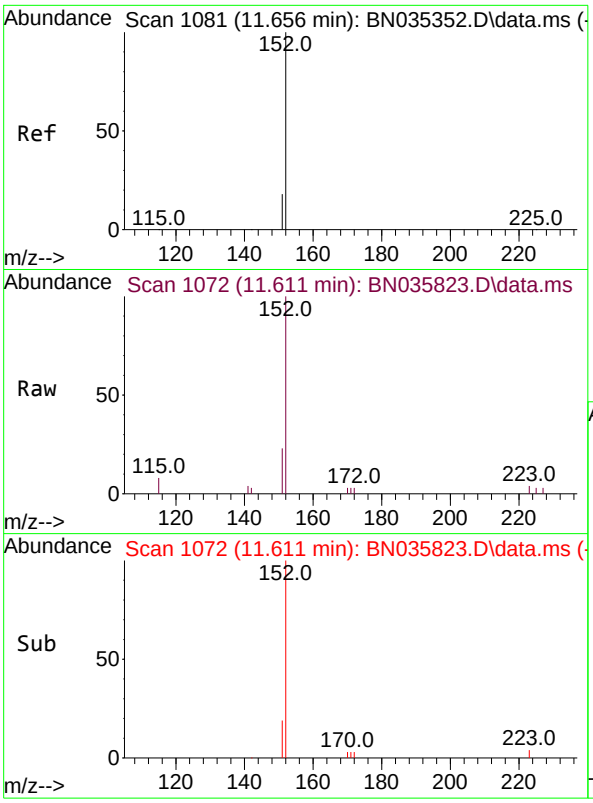


#9
Naphthalene
Concen: 0.043 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:128 Resp: 964

Ion	Ratio	Lower	Upper
128	100		
129	23.0	9.8	14.6#
127	22.4	11.4	17.2#

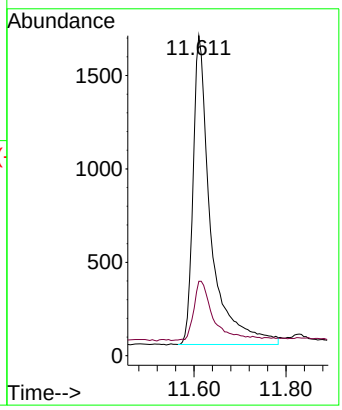




#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:152 Resp: 442

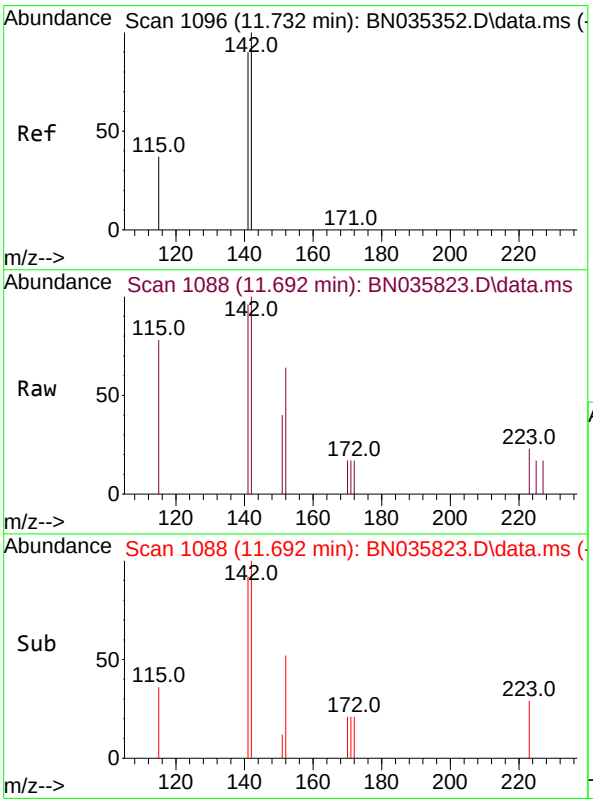
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
APPROVED

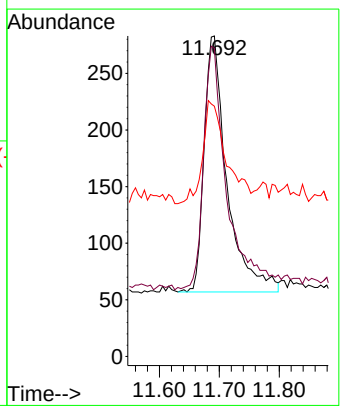
Reviewed By :Yogesh Patel 12/25/2024
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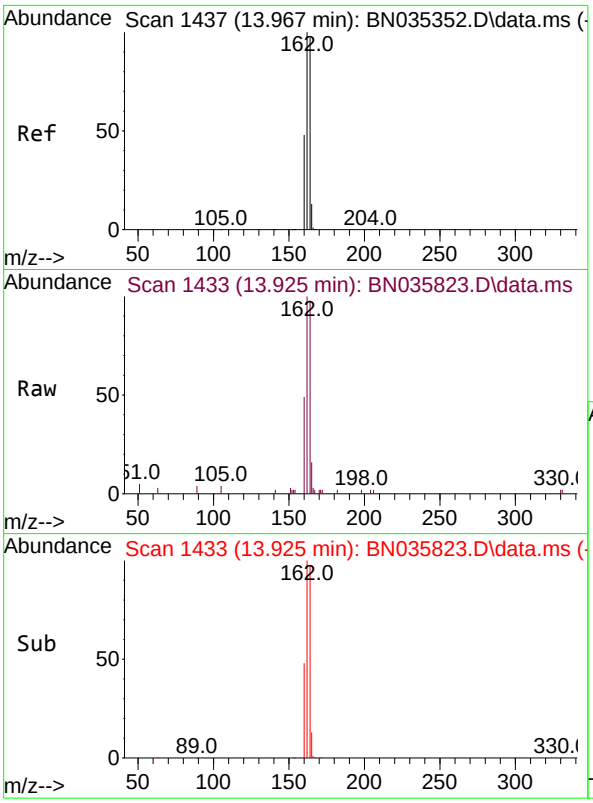


#12
2-Methylnaphthalene
Concen: 0.037 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:142 Resp: 597

Ion	Ratio	Lower	Upper
142	100		
141	96.1	72.2	108.4
115	78.1	31.4	47.0#

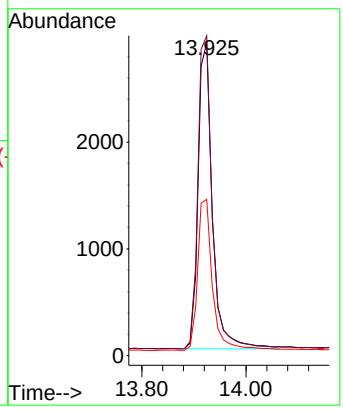




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:164 Resp: 546

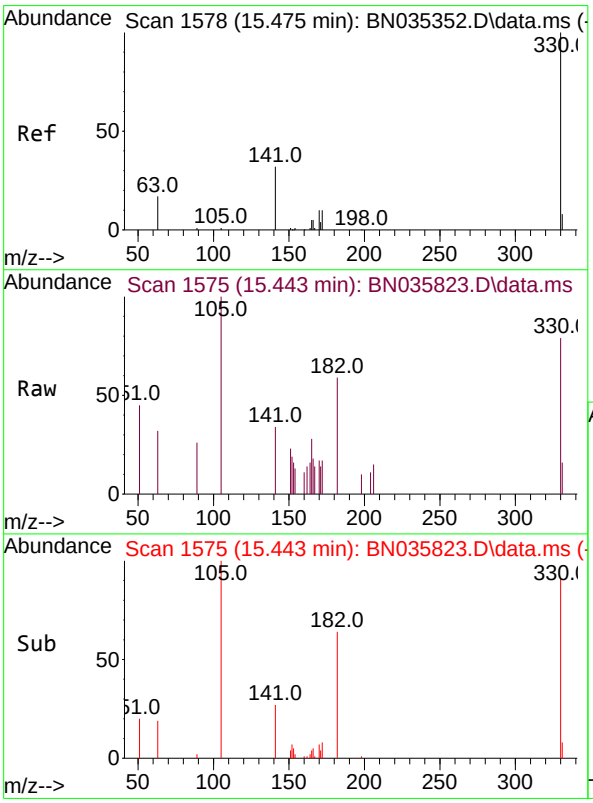
Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	50.0	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
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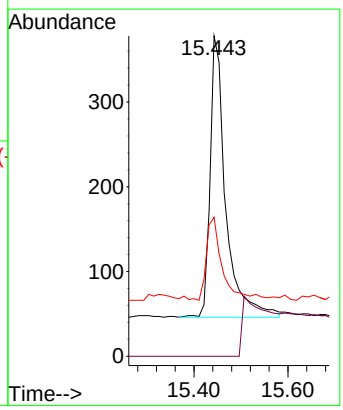
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

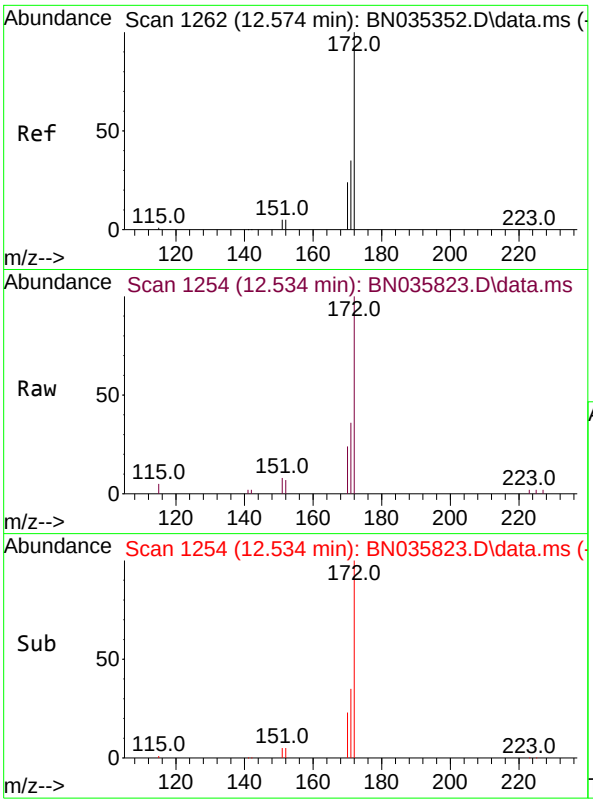


#14
2,4,6-Tribromophenol
Concen: 0.206 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:330 Resp: 799

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.9	26.6	40.0

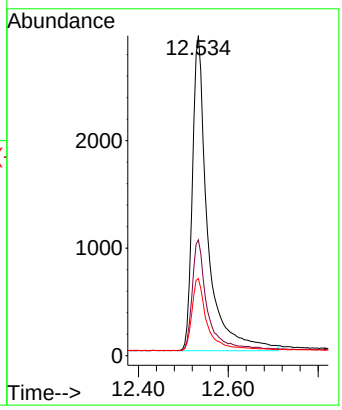




#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:172 Resp: 693

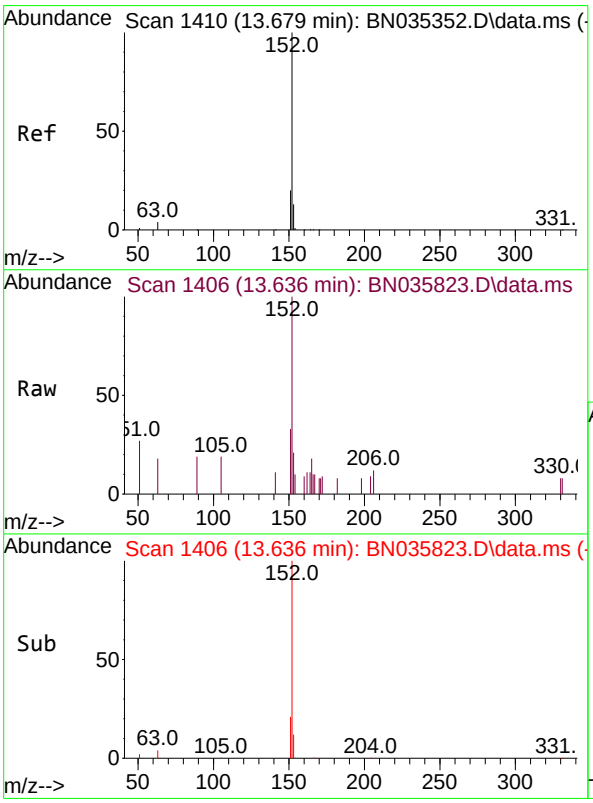
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.1	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
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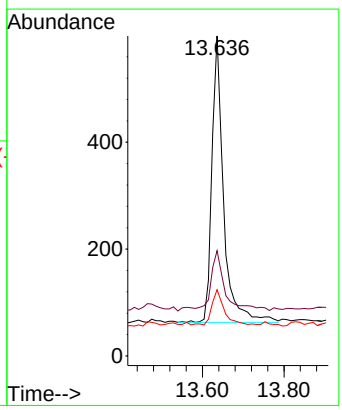
Reviewed By :Yogesh Patel 12/25/2024
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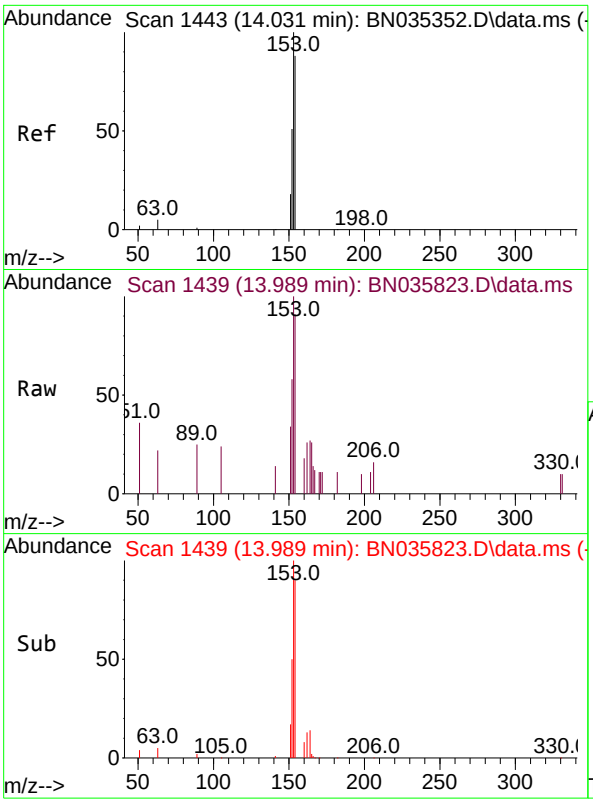


#16
Acenaphthylene
Concen: 0.046 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:152 Resp: 1063

Ion	Ratio	Lower	Upper
152	100		
151	24.4	16.2	24.2#
153	14.4	10.4	15.6

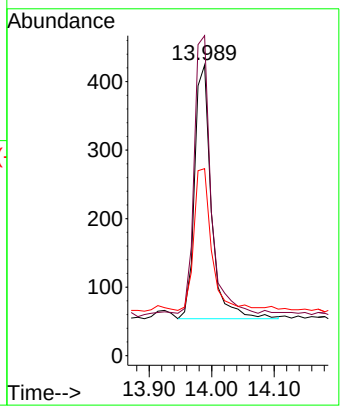




#17
Acenaphthene
Concen: 0.045 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:154 Resp: 69

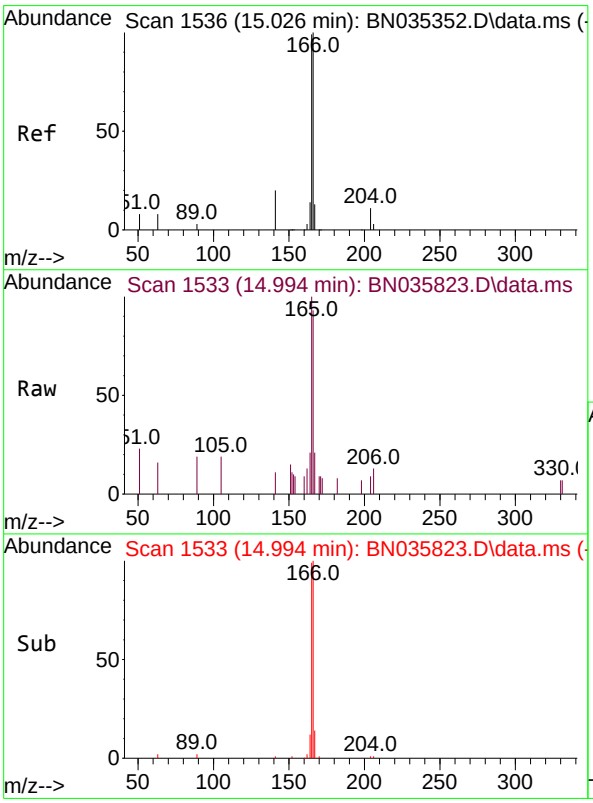
Ion	Ratio	Lower	Upper
154	100		
153	115.9	92.6	139.0
152	58.9	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
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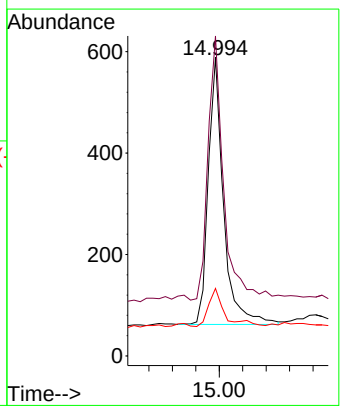
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

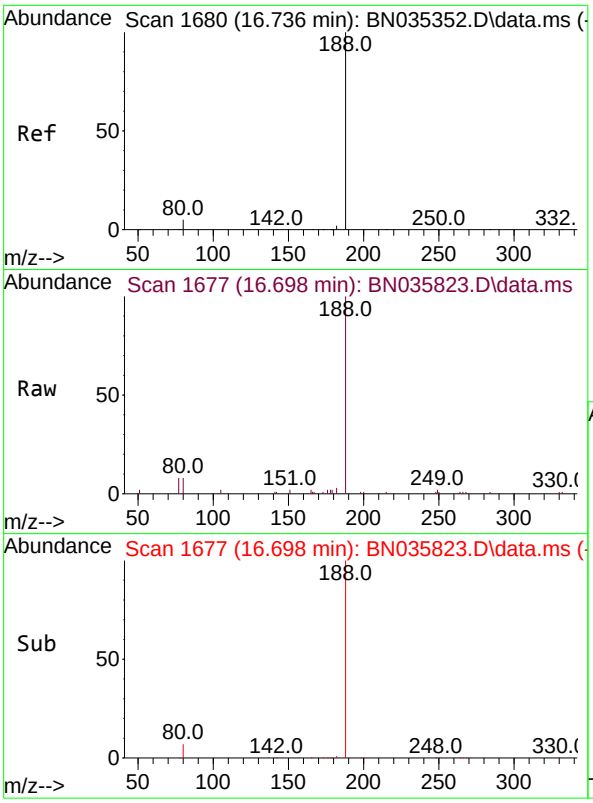


#18
Fluorene
Concen: 0.044 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:166 Resp: 956

Ion	Ratio	Lower	Upper
166	100		
165	103.7	79.7	119.5
167	14.9	10.8	16.2

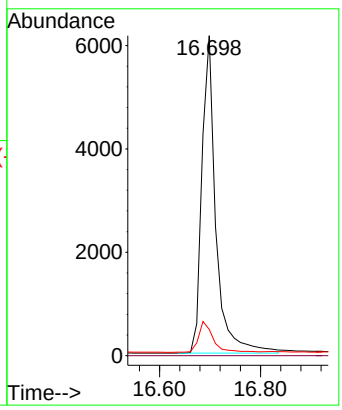




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:188 Resp: 1181(

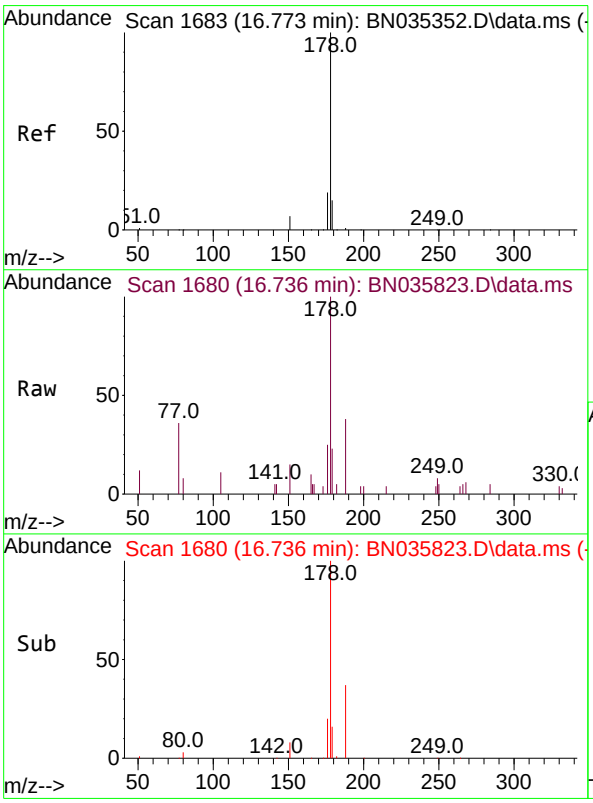
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.2	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
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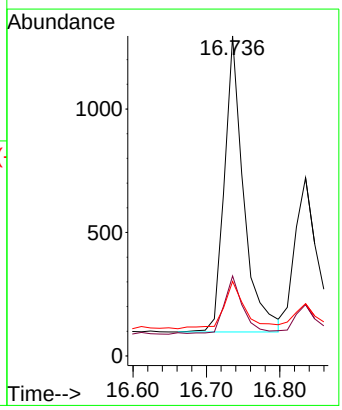
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

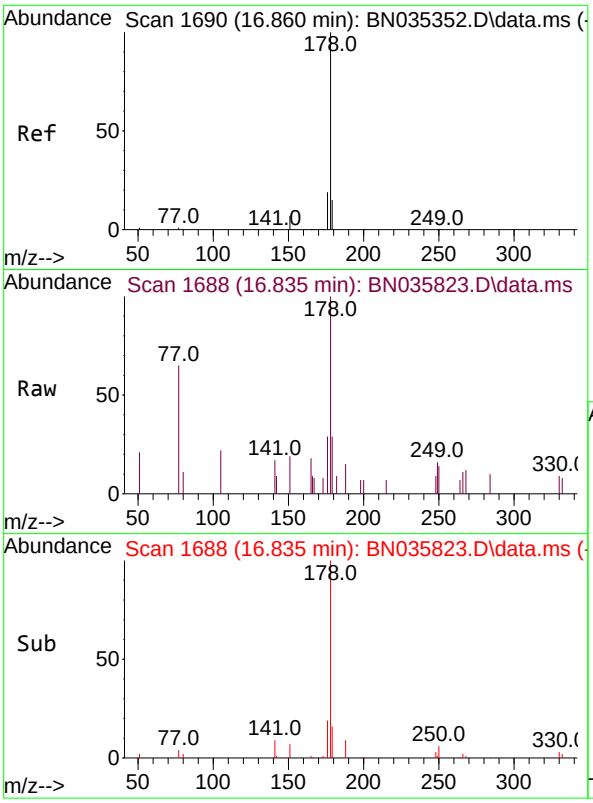


#25
Phenanthrene
Concen: 0.067 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:178 Resp: 2183

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.2
179	16.8	12.3	18.5





#26
Anthracene
Concen: 0.047 ng
RT: 16.835 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

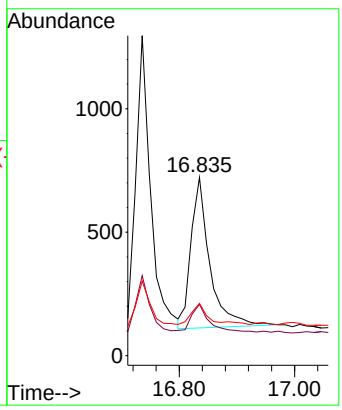
Tgt Ion:178 Resp: 138

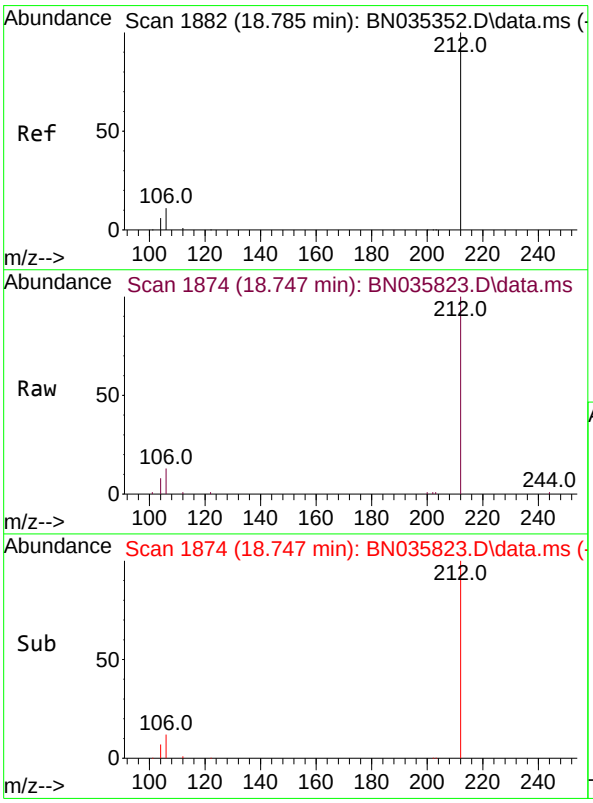
Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.0	22.6
179	14.6	12.6	18.8

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

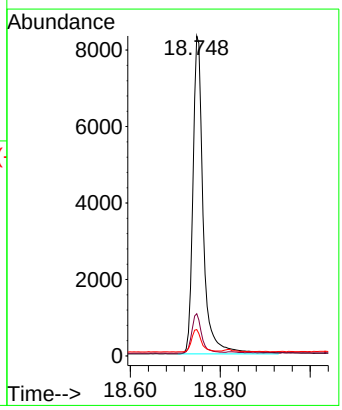


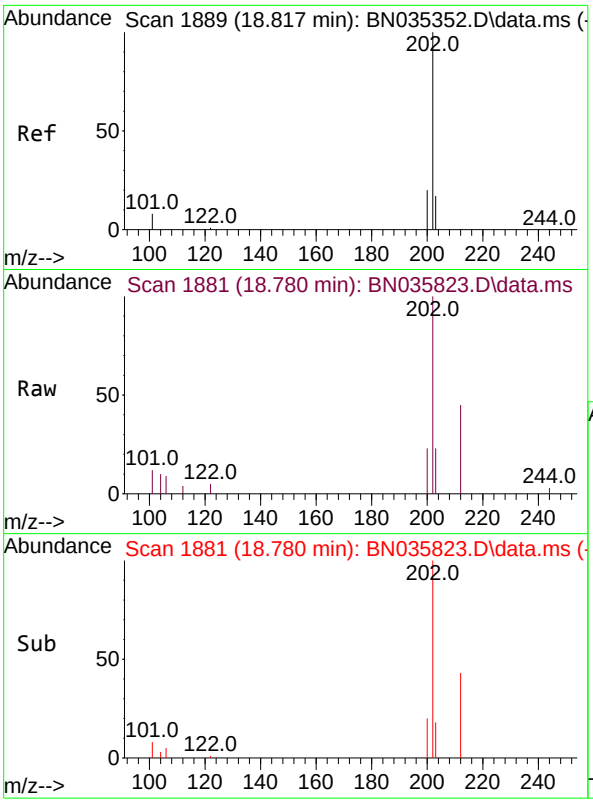


#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:212 Resp: 13295

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	6.7	5.3	7.9





#28
Fluoranthene
Concen: 0.051 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

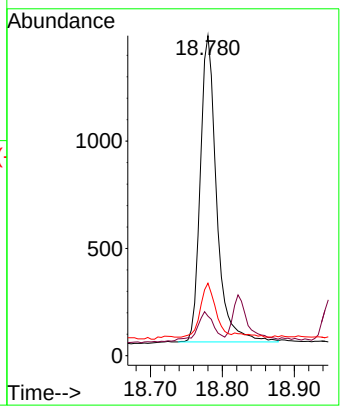
Tgt Ion:202 Resp: 225

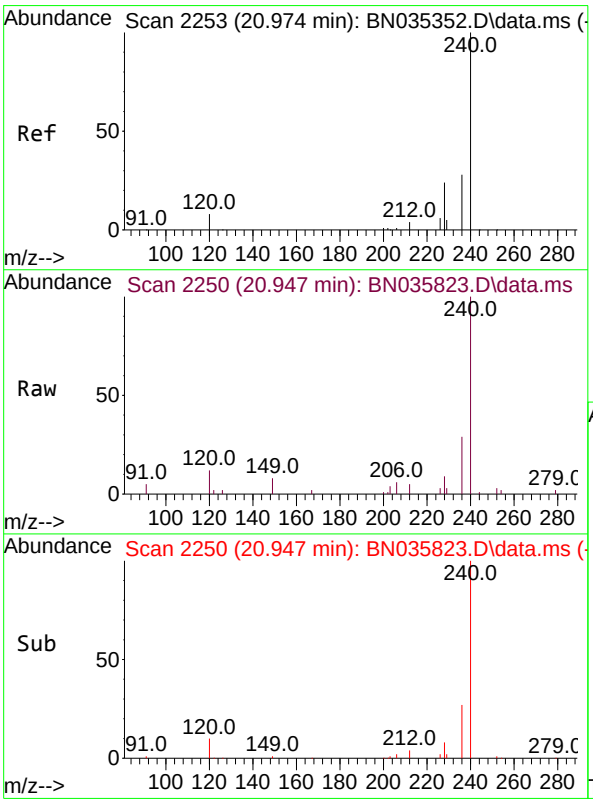
Ion	Ratio	Lower	Upper
202	100		
101	11.8	7.4	11.0#
203	16.3	13.7	20.5

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

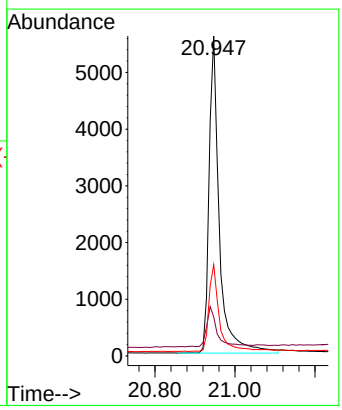


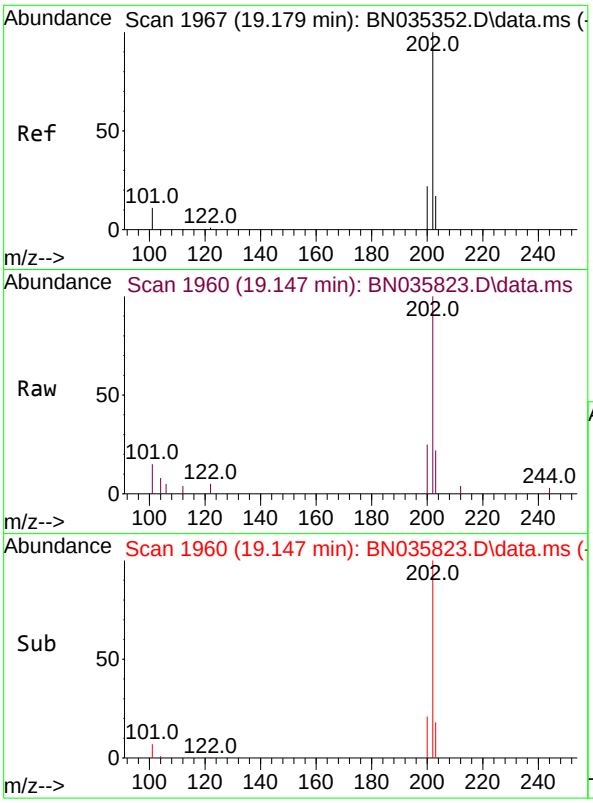


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:240 Resp: 9968

Ion	Ratio	Lower	Upper
240	100		
120	12.2	7.9	11.9#
236	28.5	22.9	34.3

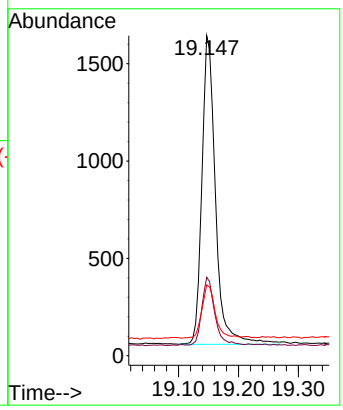




#30
Pyrene
Concen: 0.068 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:202 Resp: 250

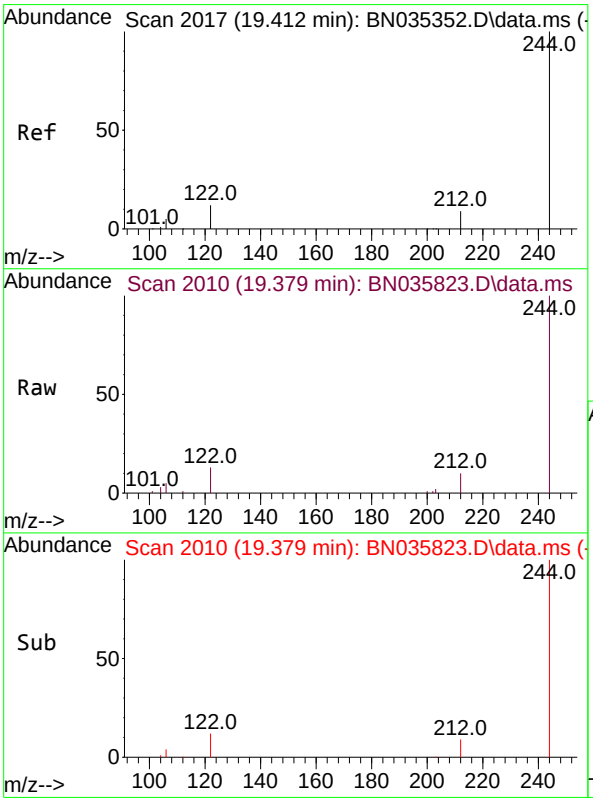
Ion	Ratio	Lower	Upper
202	100		
200	20.4	17.0	25.4
203	17.0	14.3	21.5



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
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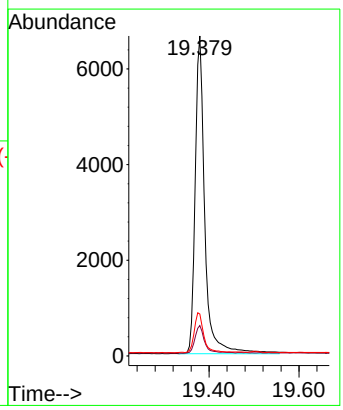
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

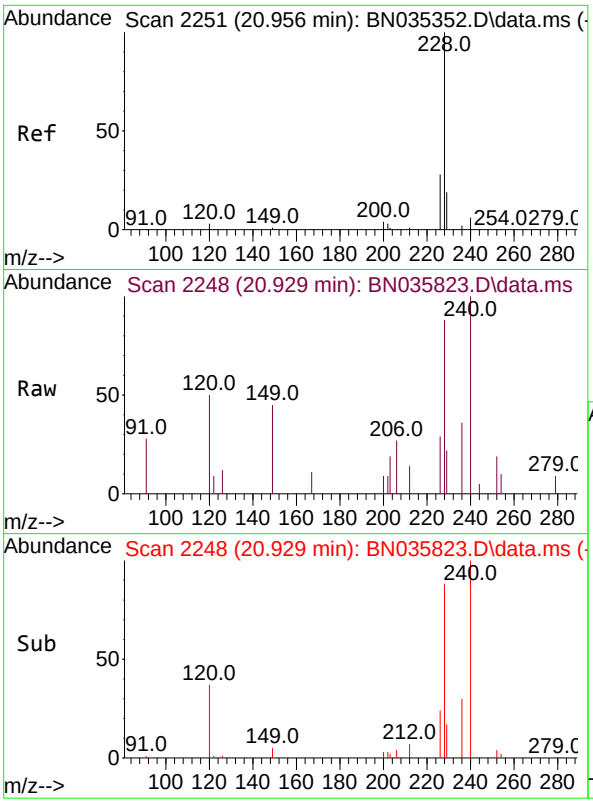


#31
Terphenyl-d14
Concen: 0.502 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:244 Resp: 9869

Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.1	12.1
122	13.1	10.3	15.5

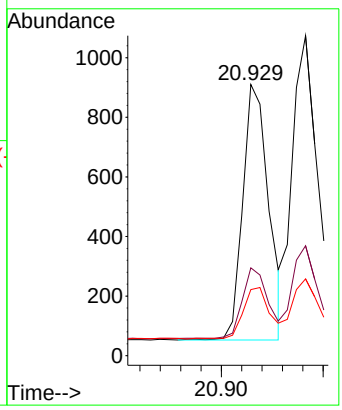




#32
Benzo(a)anthracene
Concen: 0.043 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

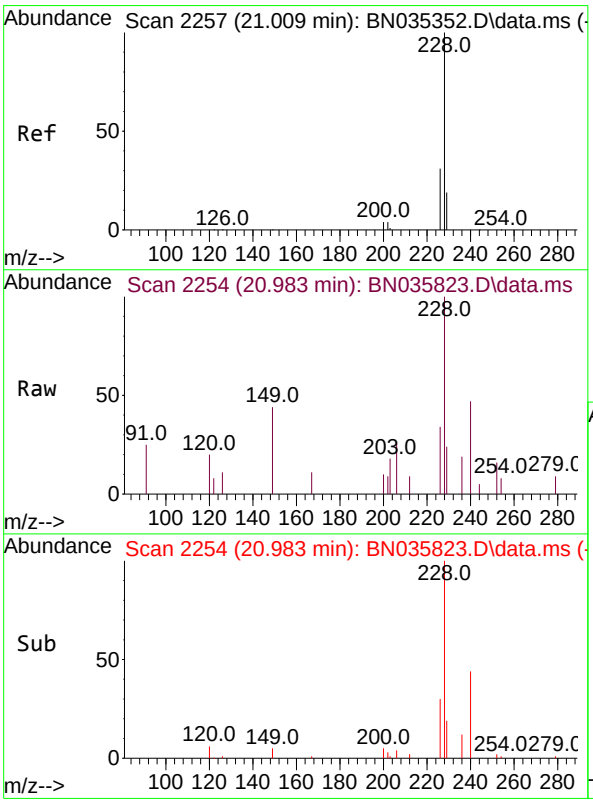
Tgt Ion:228 Resp: 150

Ion	Ratio	Lower	Upper
228	100		
226	32.4	22.5	33.7
229	24.4	15.8	23.8#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

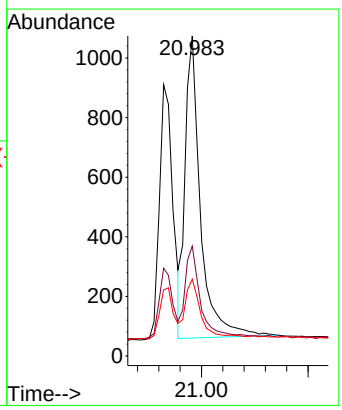
Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

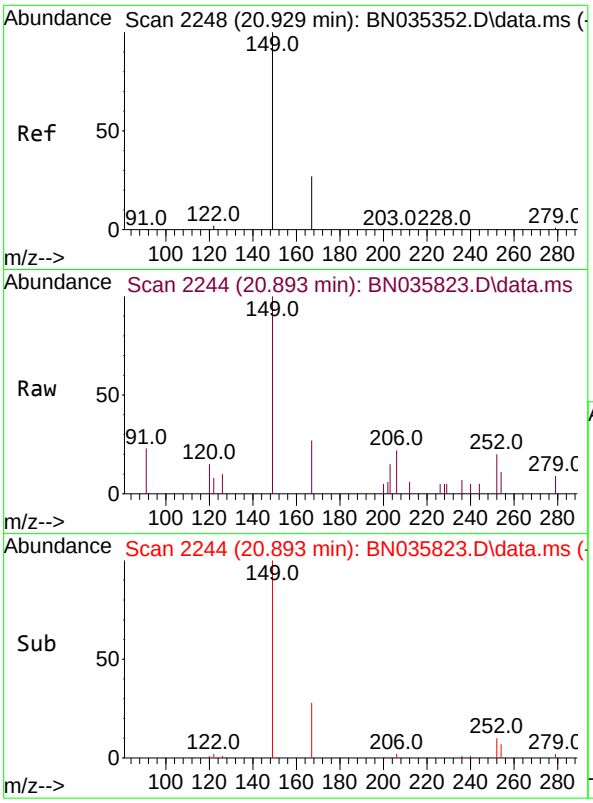


#33
Chrysene
Concen: 0.056 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:228 Resp: 2026

Ion	Ratio	Lower	Upper
228	100		
226	34.4	24.6	37.0
229	24.0	15.9	23.9#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

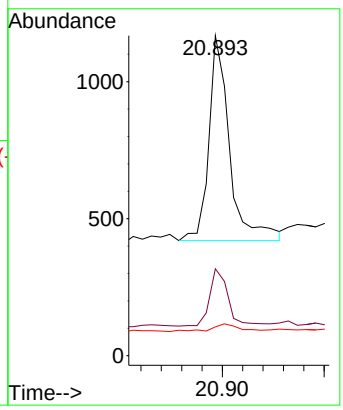
Tgt Ion:149 Resp: 105

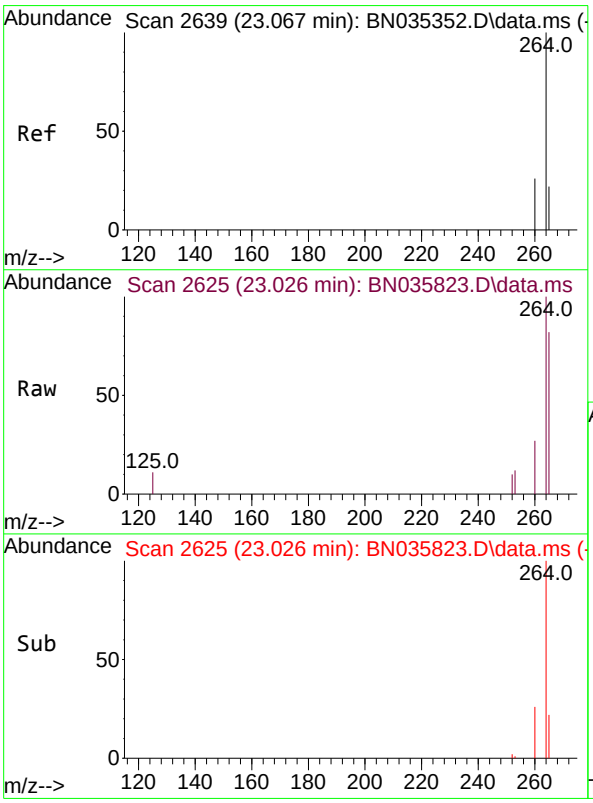
Ion	Ratio	Lower	Upper
149	100		
167	24.9	22.2	33.4
279	5.1	2.7	4.1#

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

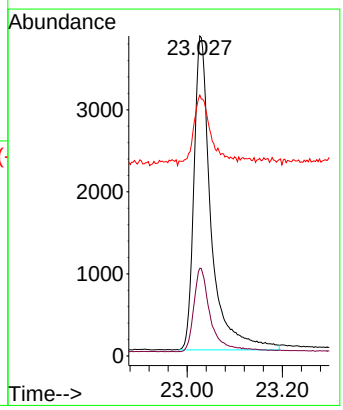


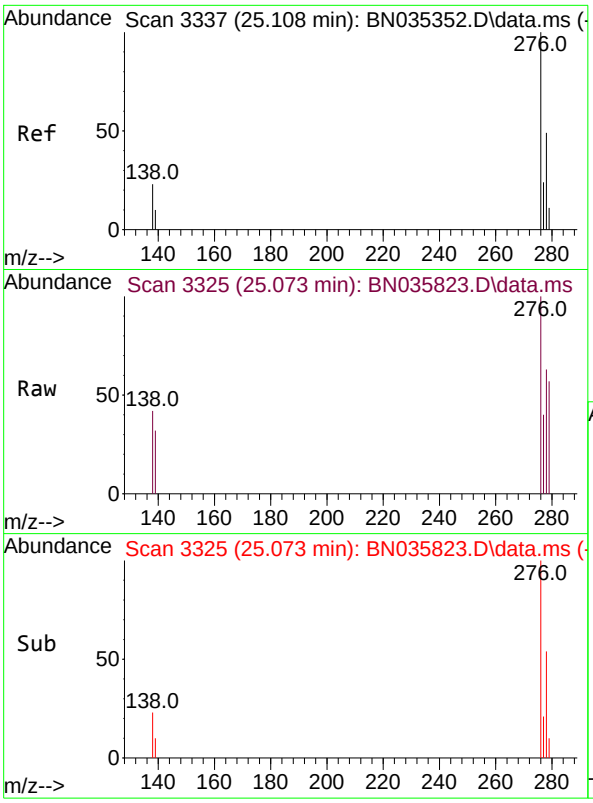


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:264 Resp: 9568

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.4	32.2
265	81.5	40.2	60.4#

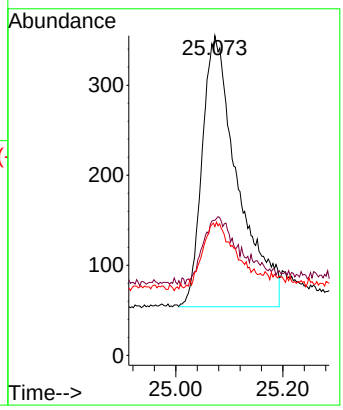




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.037 ng
RT: 25.073 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:276 Resp: 138

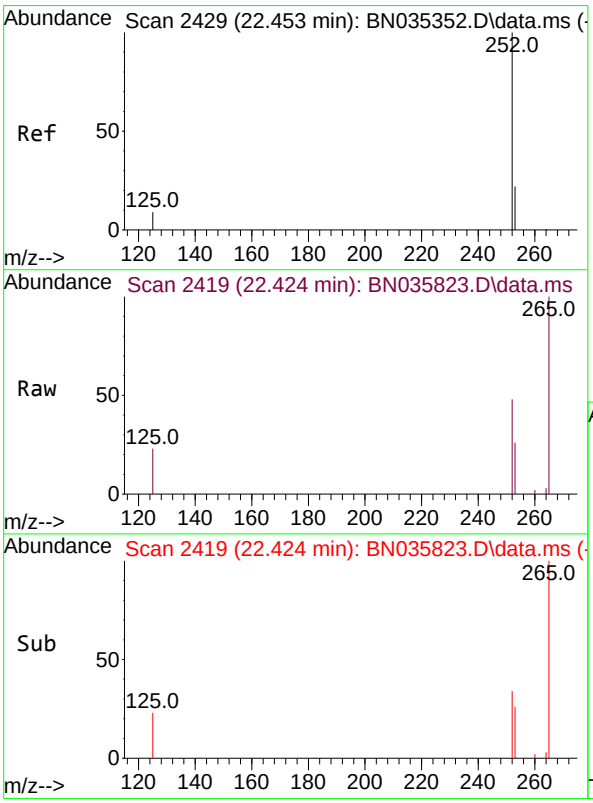
Ion	Ratio	Lower	Upper
276	100		
138	22.6	19.4	29.0
277	8.7	19.8	29.6#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
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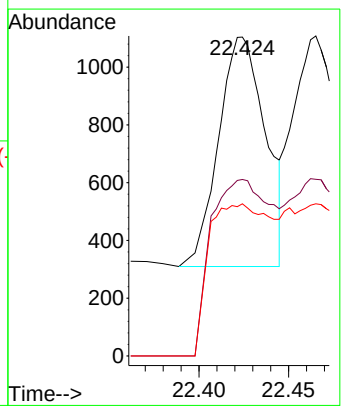
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

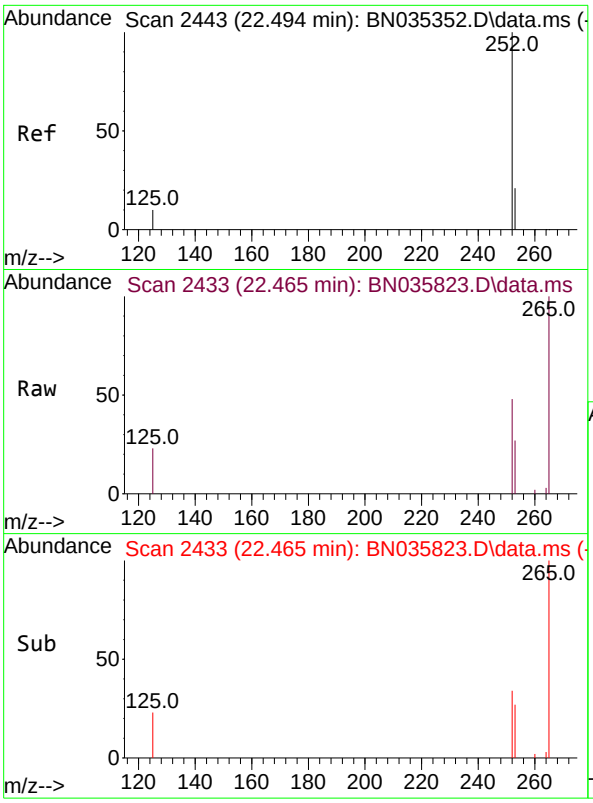


#37
Benzo(b)fluoranthene
Concen: 0.050 ng
RT: 22.424 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:252 Resp: 1754

Ion	Ratio	Lower	Upper
252	100		
253	55.3	19.6	29.4#
125	47.7	9.6	14.4#

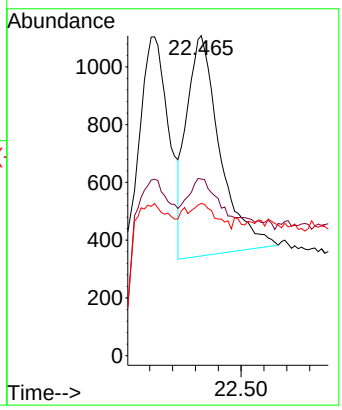




#38
Benzo(k)fluoranthene
Concen: 0.045 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:252 Resp: 155

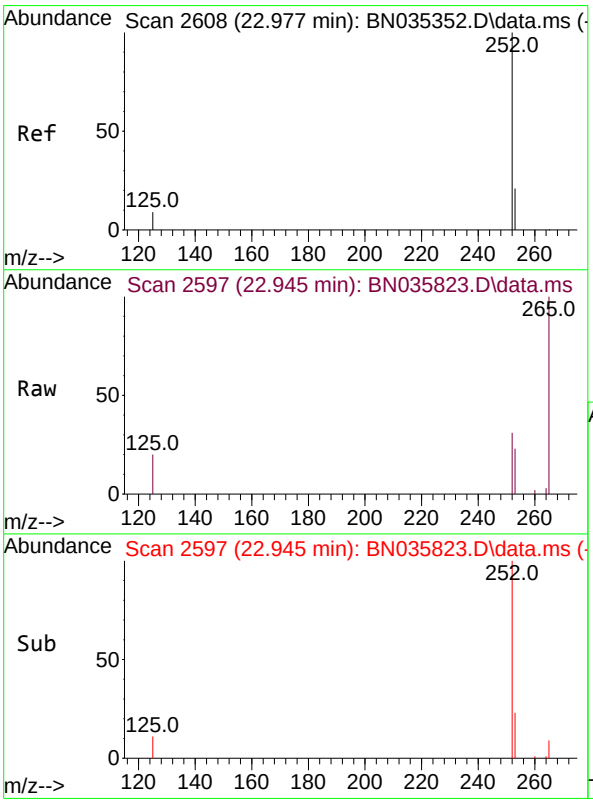
Ion	Ratio	Lower	Upper
252	100		
253	55.2	19.5	29.3#
125	47.6	10.2	15.4#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
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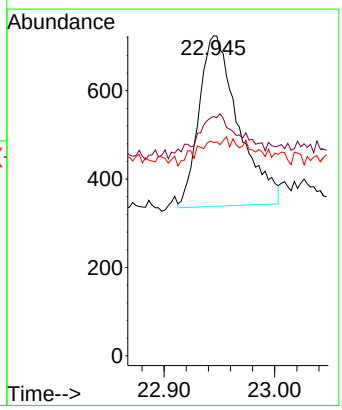
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

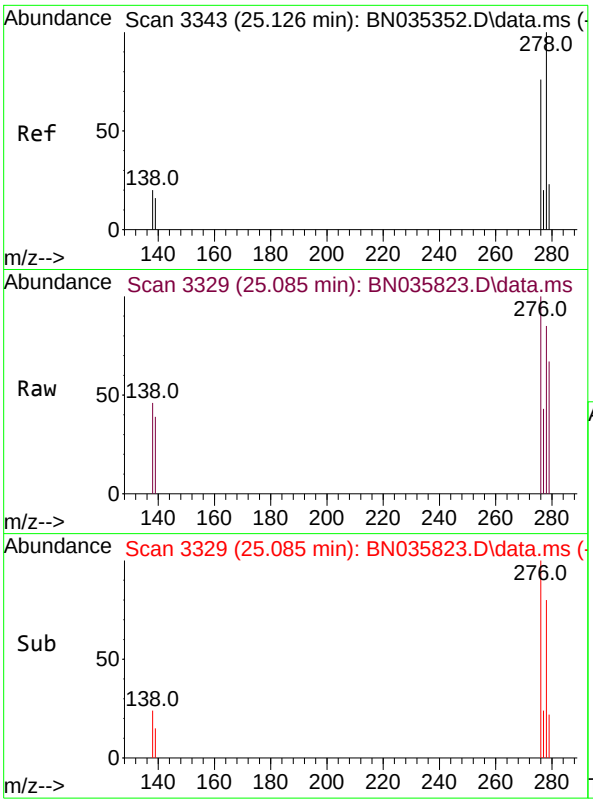


#39
Benzo(a)pyrene
Concen: 0.033 ng
RT: 22.945 min Scan# 2597
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:252 Resp: 959

Ion	Ratio	Lower	Upper
252	100		
253	74.9	20.2	30.4#
125	66.7	10.9	16.3#





#40
Dibenzo(a,h)anthracene
Concen: 0.036 ng
RT: 25.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

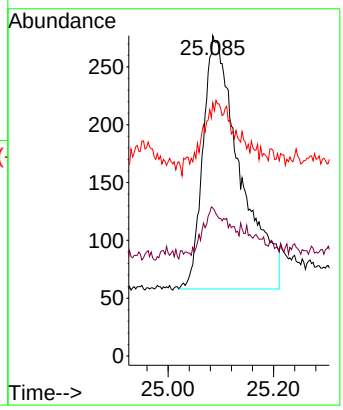
Tgt Ion:278 Resp: 106

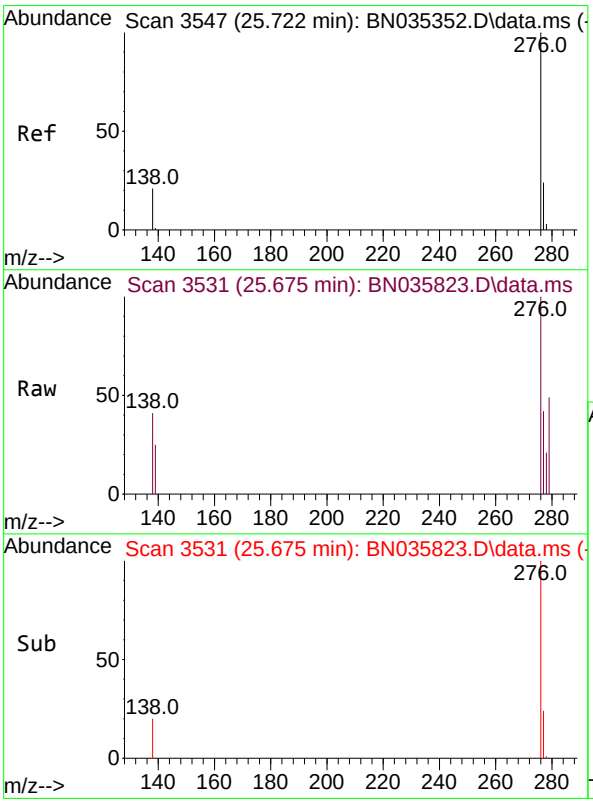
Ion	Ratio	Lower	Upper
278	100		
139	46.2	14.2	21.4#
279	79.1	20.5	30.7#

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

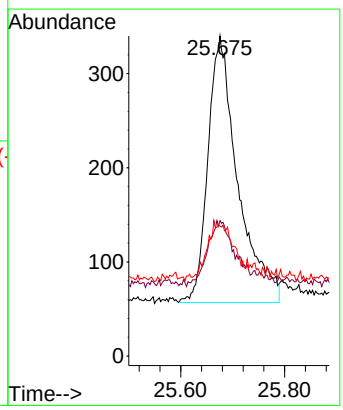




#41
Benzo(g,h,i)perylene
Concen: 0.037 ng
RT: 25.675 min Scan# 3531
Delta R.T. -0.003 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:276 Resp: 1130

Ion	Ratio	Lower	Upper
276	100		
277	42.4	19.9	29.9#
138	40.6	17.8	26.8#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10A-MW01S-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-11	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035824.D	1	12/23/24 13:29	12/24/24 16:42	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.15	J	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		130%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3540	7.257				
1146-65-2	Naphthalene-d8	8580	10.009				
15067-26-2	Acenaphthene-d10	5530	13.925				
1517-22-2	Phenanthrene-d10	11300	16.698				
1719-03-5	Chrysene-d12	9270	20.947				
1520-96-3	Perylene-d12	9120	23.029				

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\BN122324\
Data File : BN035824.D
Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 24 23:19:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3542	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	8575	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	5533	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11307	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9270	0.400	ng	0.00
35) Perylene-d12	23.029	264	9119	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	827	0.093	ng	-0.01
5) Phenol-d6	6.477	99	397	0.037	ng	-0.01
8) Nitrobenzene-d5	8.397	82	1948m	0.372	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4576	0.341	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	766	0.195	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7209	0.345	ng	-0.02
27) Fluoranthene-d10	18.747	212	12883	0.402	ng	-0.01
31) Terphenyl-d14	19.379	244	9501	0.520	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	493	0.146	ng	# 73
9) Naphthalene	10.052	128	803	0.036	ng	# 72
12) 2-Methylnaphthalene	11.687	142	502	0.031	ng	# 79
16) Acenaphthylene	13.636	152	877	0.038	ng	96
17) Acenaphthene	13.978	154	539	0.035	ng	98
18) Fluorene	14.994	166	778	0.035	ng	96
25) Phenanthrene	16.736	178	1755	0.057	ng	100
26) Anthracene	16.835	178	1113	0.040	ng	97
28) Fluoranthene	18.780	202	1804	0.043	ng	# 97
30) Pyrene	19.147	202	1807	0.053	ng	99
32) Benzo(a)anthracene	20.929	228	1100	0.034	ng	# 87
33) Chrysene	20.983	228	1514	0.045	ng	# 91
34) Bis(2-ethylhexyl)phtha...	20.893	149	988	0.077	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.073	276	1031m	0.029	ng	
37) Benzo(b)fluoranthene	22.424	252	1409	0.042	ng	# 22
38) Benzo(k)fluoranthene	22.465	252	1028	0.031	ng	# 18
39) Benzo(a)pyrene	22.945	252	820	0.030	ng	# 1
40) Dibenzo(a,h)anthracene	25.096	278	685	0.024	ng	# 1
41) Benzo(g,h,i)perylene	25.675	276	816	0.028	ng	# 50

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

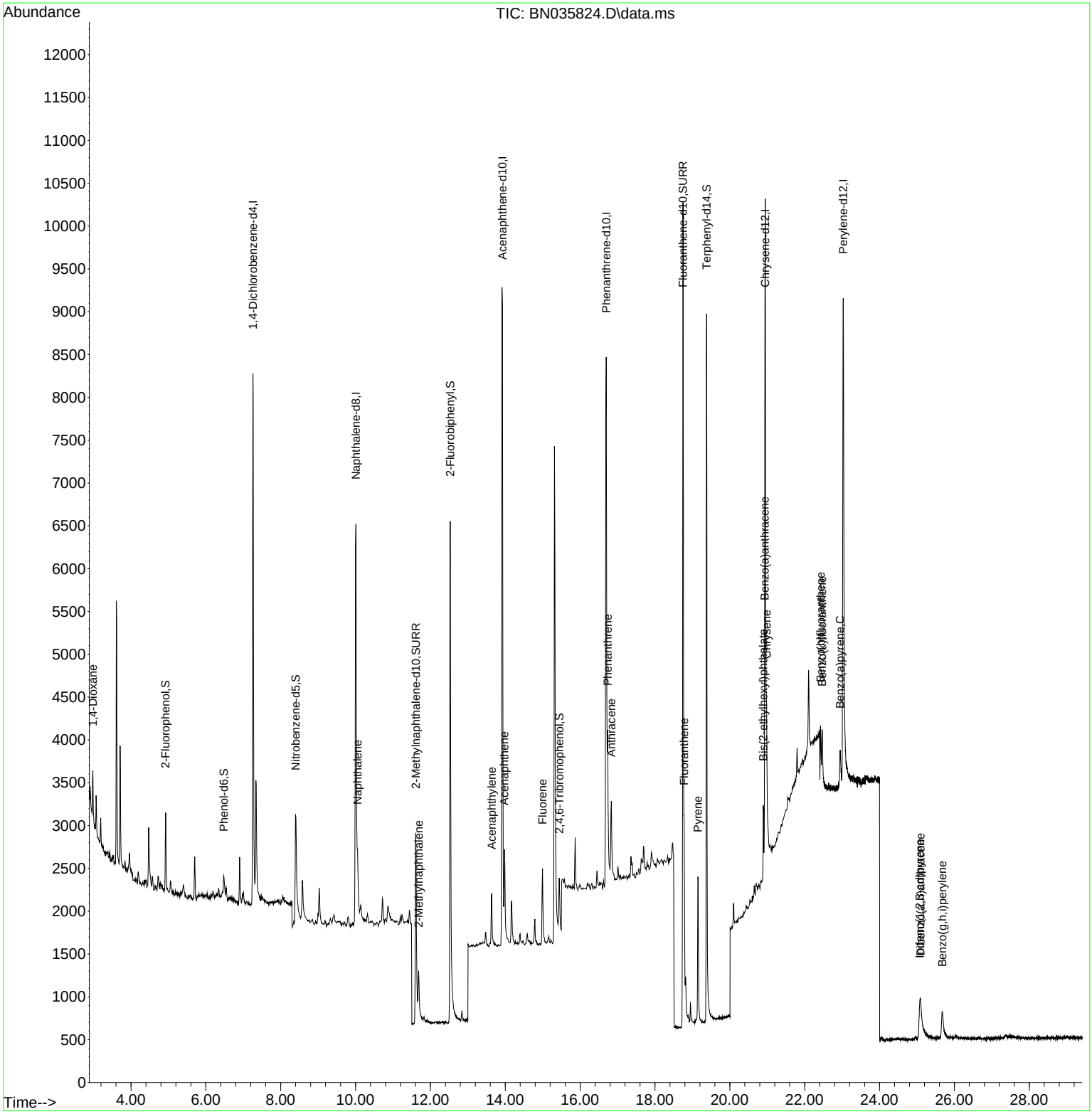
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Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

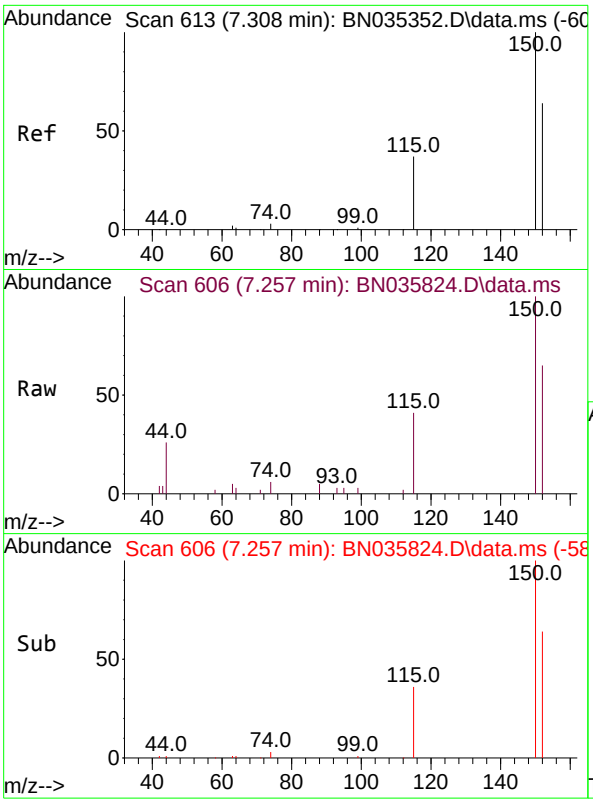
Quant Time: Dec 24 23:19:48 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
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ClientSampleId :
RW10A-MW01S-20241218

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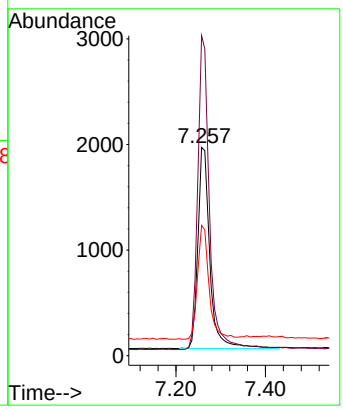




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:152 Resp: 354

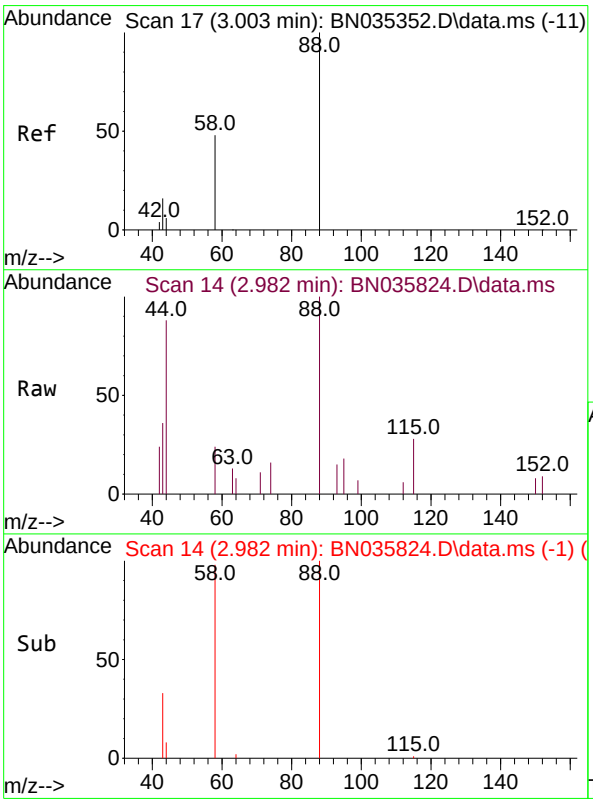
Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
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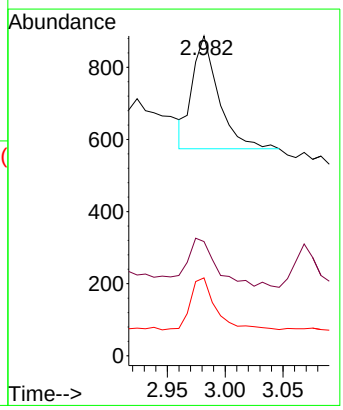
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

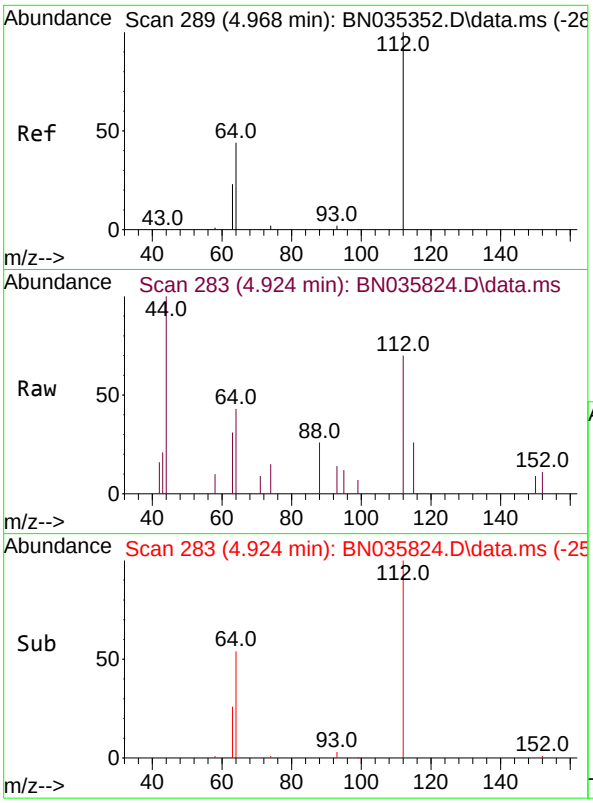


#2
1,4-Dioxane
Concen: 0.146 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 88 Resp: 493

Ion	Ratio	Lower	Upper
88	100		
43	49.5	17.2	25.8#
58	44.6	44.5	66.7





#4
2-Fluorophenol
Concen: 0.093 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

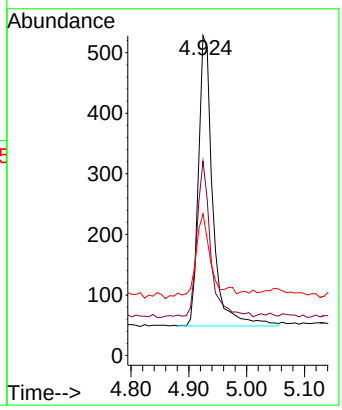
Tgt Ion:112 Resp: 82

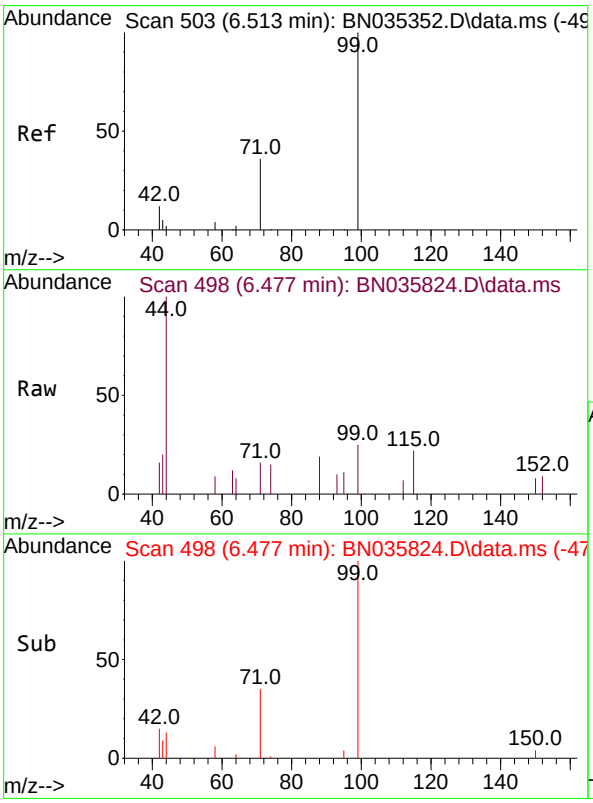
Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	29.9	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

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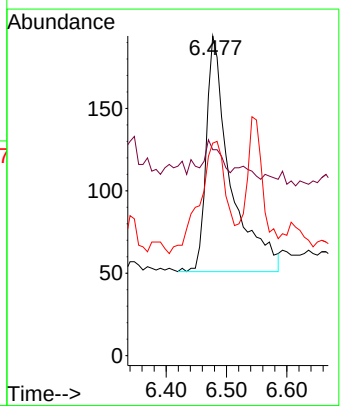


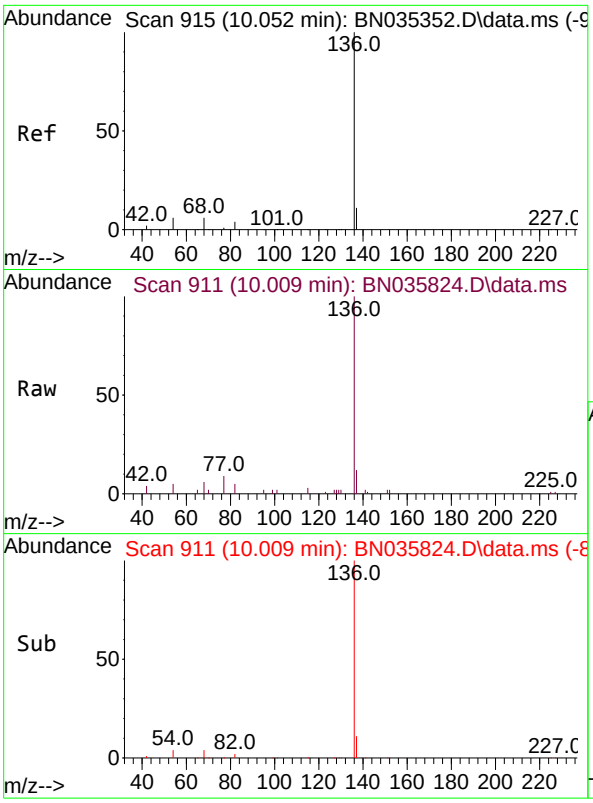


#5
Phenol-d6
Concen: 0.037 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 99 Resp: 397

Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	52.1	29.3	43.9#

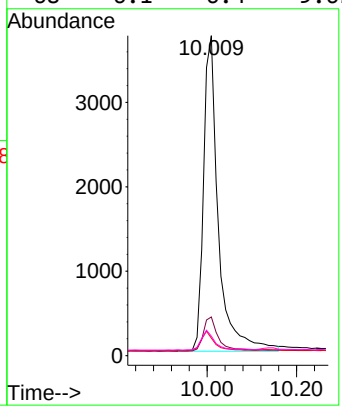




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

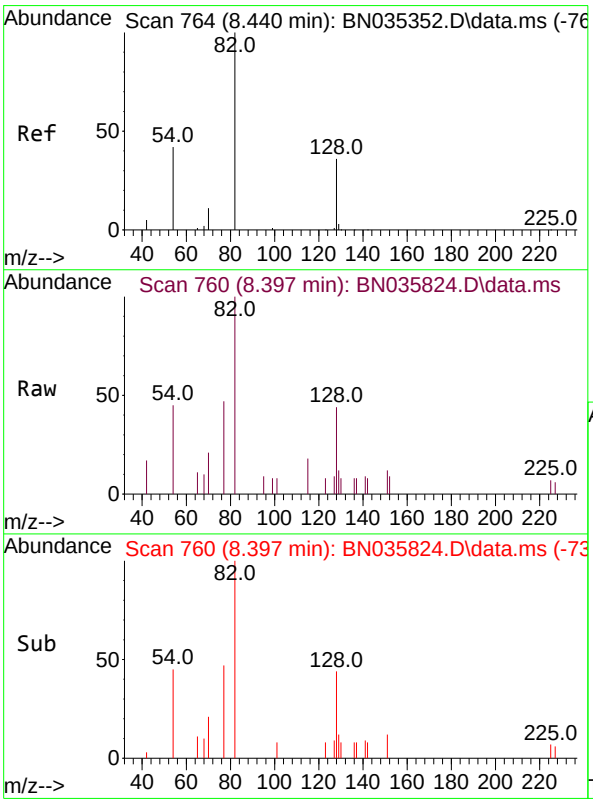
Tgt Ion:136 Resp: 857

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	5.5	6.1	9.1#
68	6.1	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

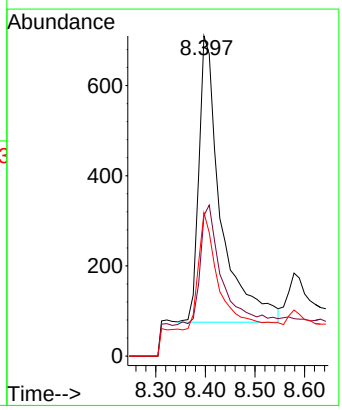
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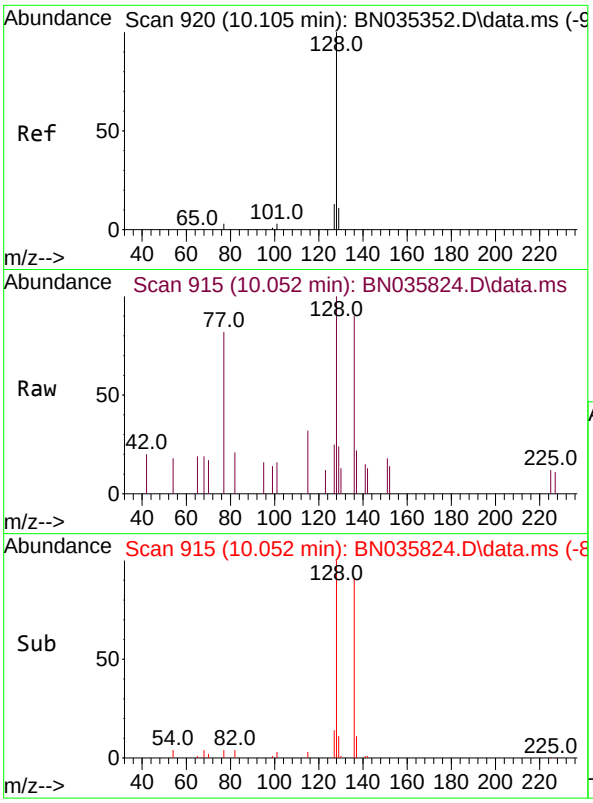


#8
Nitrobenzene-d5
Concen: 0.372 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 82 Resp: 1948

Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.4	50.0
54	44.8	36.7	55.1





#9
Naphthalene
Concen: 0.036 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

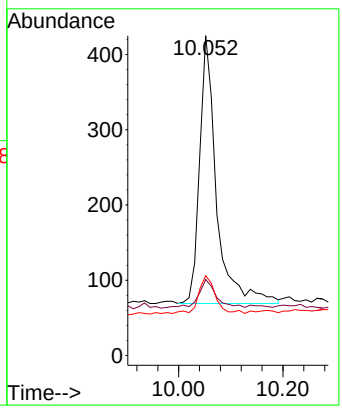
Tgt Ion:128 Resp: 80

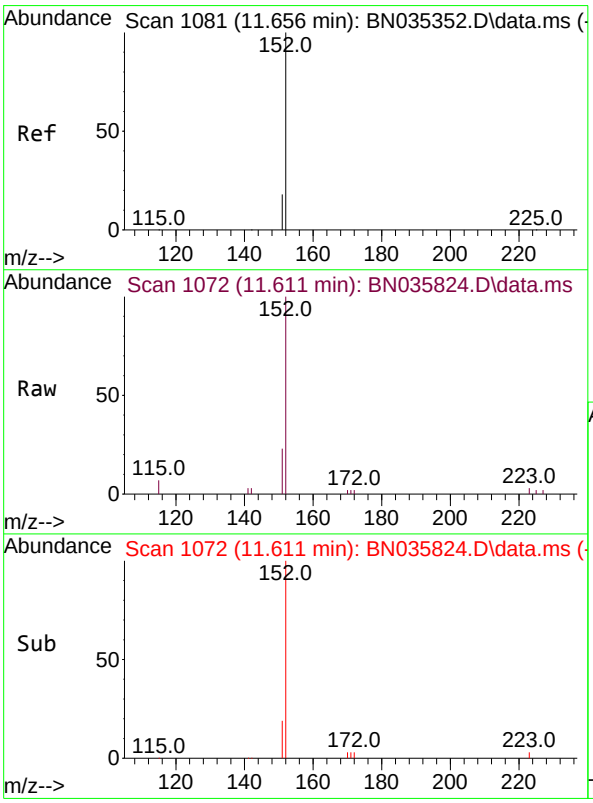
Ion	Ratio	Lower	Upper
128	100		
129	23.8	9.8	14.6#
127	24.9	11.4	17.2#

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

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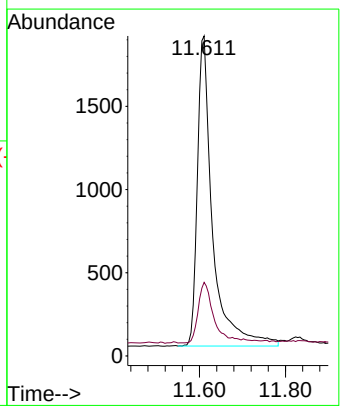


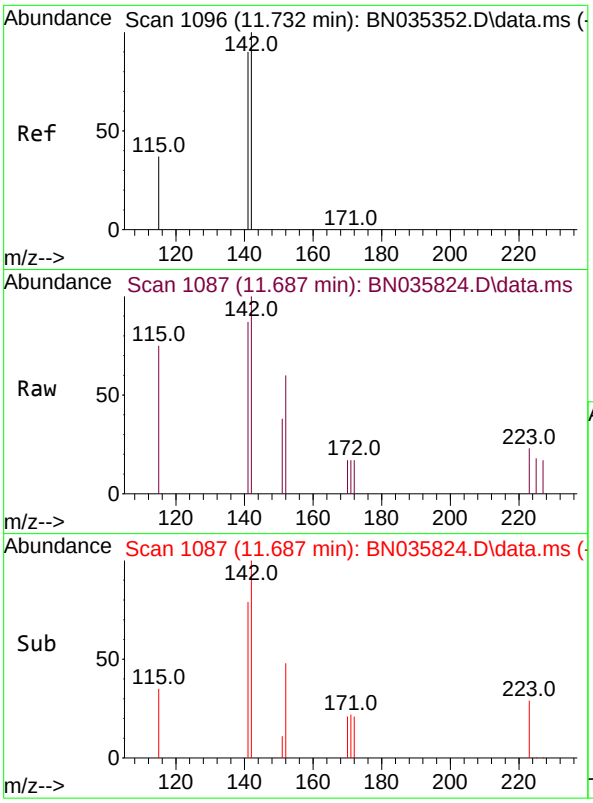


#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:152 Resp: 4576

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.6	25.0

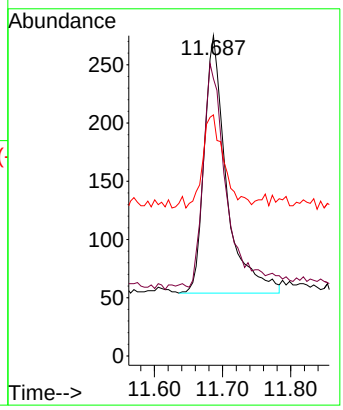




#12
2-Methylnaphthalene
Concen: 0.031 ng
RT: 11.687 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

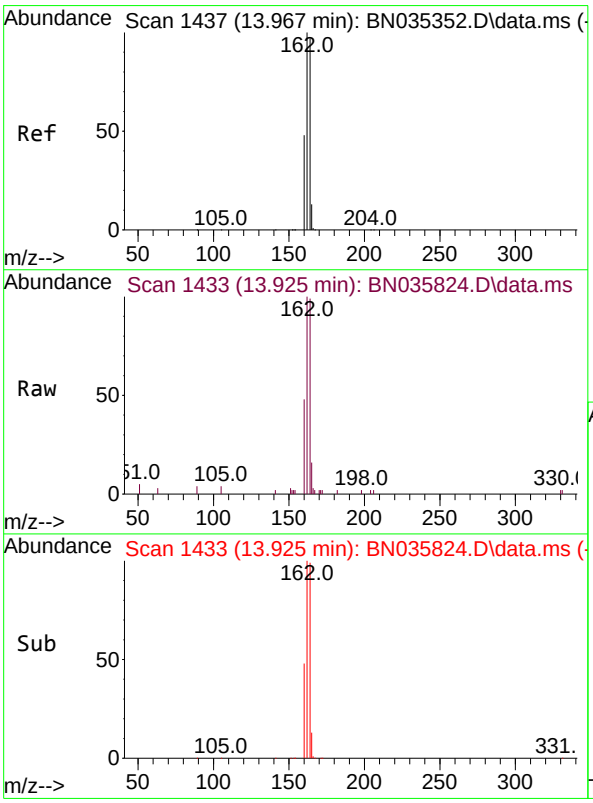
Tgt Ion:142 Resp: 50

Ion	Ratio	Lower	Upper
142	100		
141	86.5	72.2	108.4
115	75.3	31.4	47.0#



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

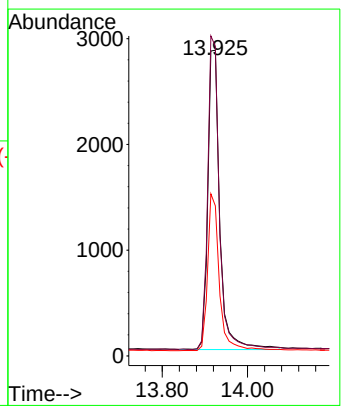
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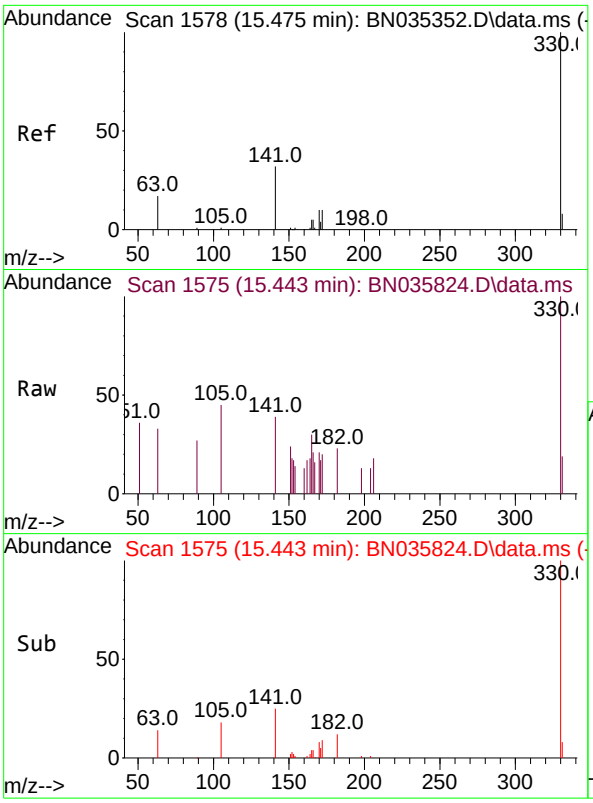


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:164 Resp: 5533

Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.2	123.2
160	49.1	40.1	60.1

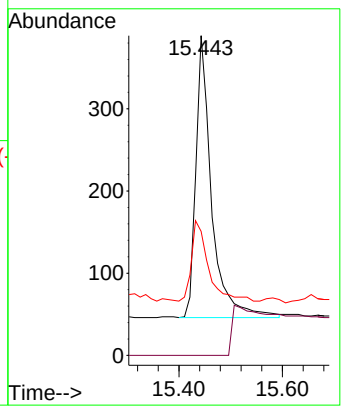




#14
2,4,6-Tribromophenol
Concen: 0.195 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

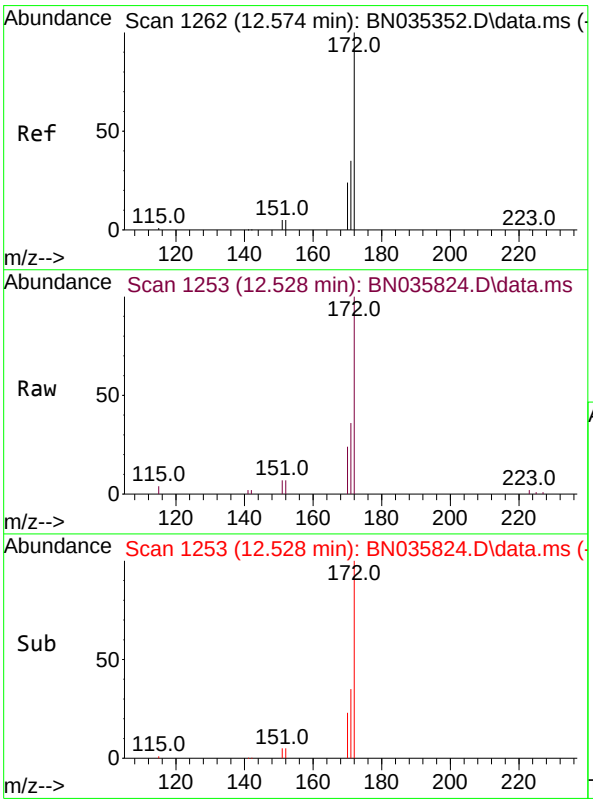
Tgt Ion:330 Resp: 76

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.8	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

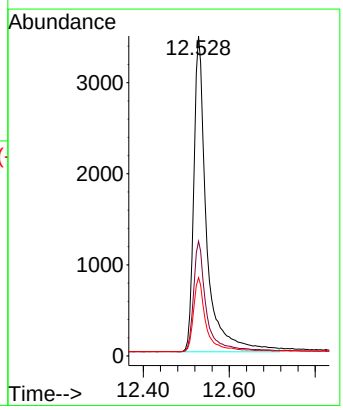
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

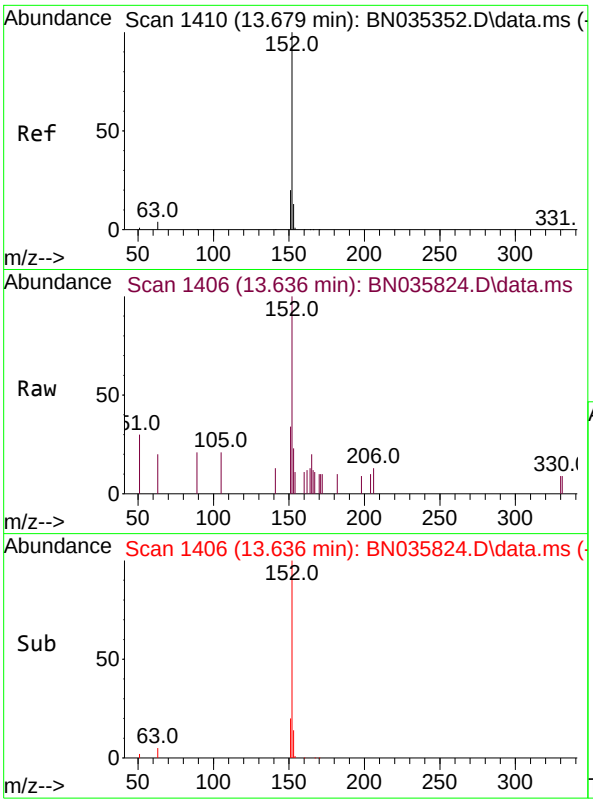


#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:172 Resp: 7209

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	24.5	19.8	29.8

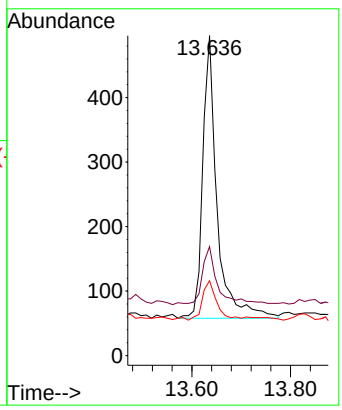




#16
Acenaphthylene
Concen: 0.038 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:152 Resp: 87

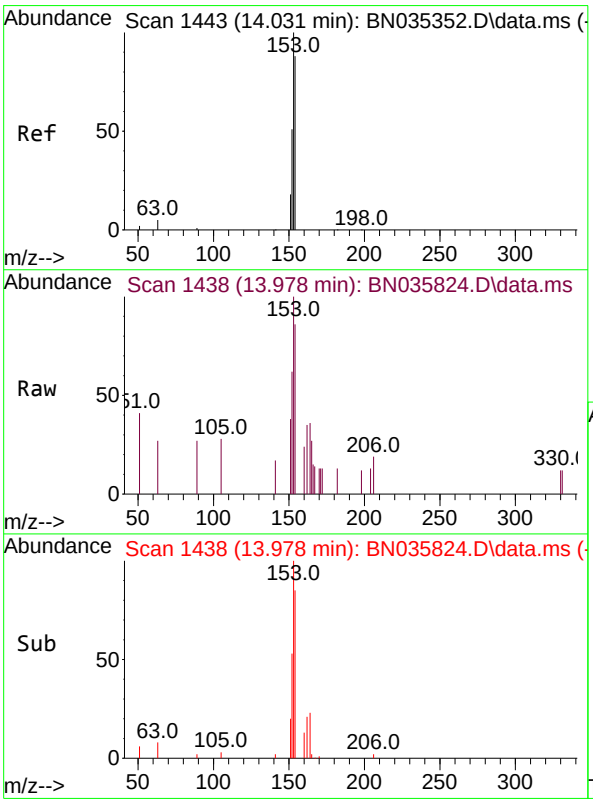
Ion	Ratio	Lower	Upper
152	100		
151	22.6	16.2	24.2
153	13.7	10.4	15.6



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
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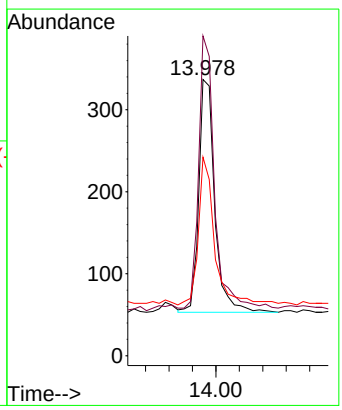
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

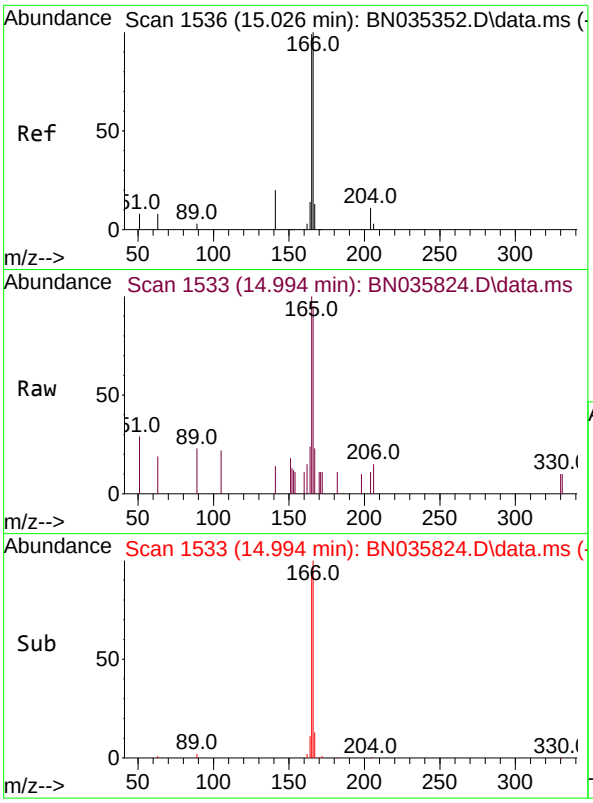


#17
Acenaphthene
Concen: 0.035 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:154 Resp: 539

Ion	Ratio	Lower	Upper
154	100		
153	115.6	92.6	139.0
152	64.9	49.0	73.6

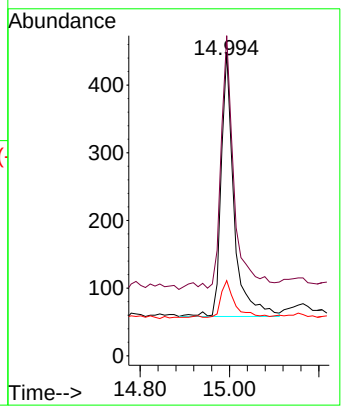




#18
Fluorene
Concen: 0.035 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:166 Resp: 77

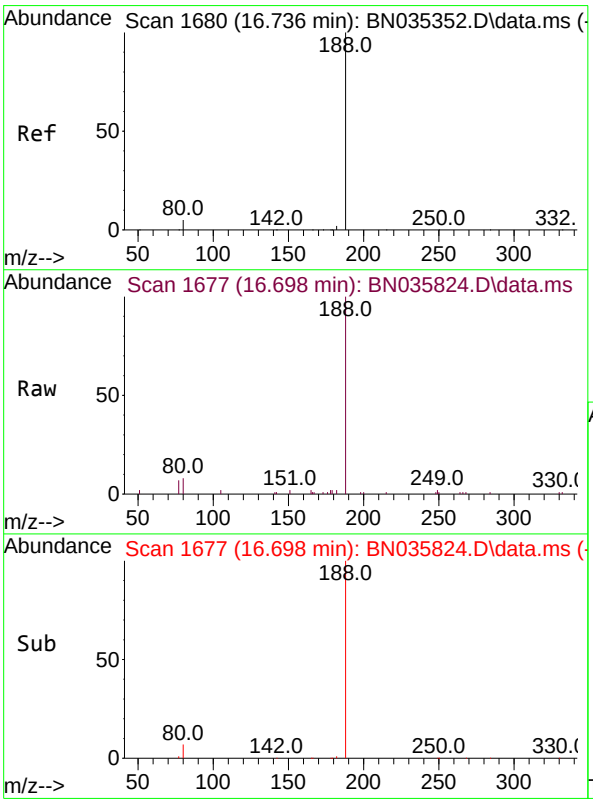
Ion	Ratio	Lower	Upper
166	100		
165	95.8	79.7	119.5
167	15.2	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
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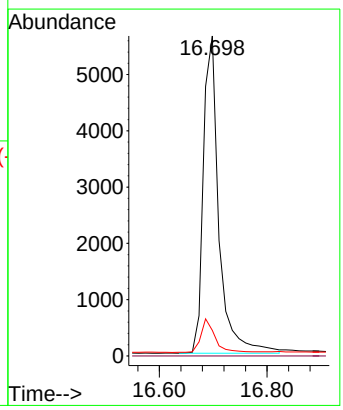
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

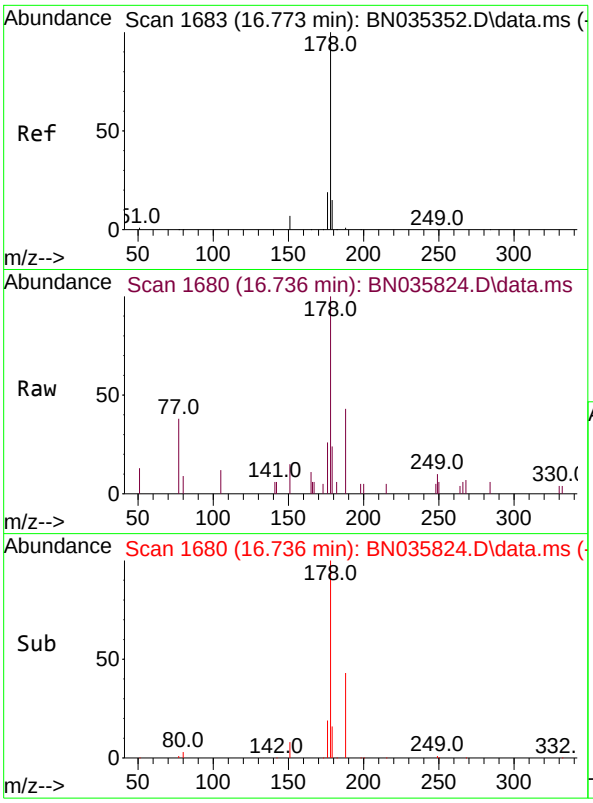


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:188 Resp: 11307

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	4.6	6.8#

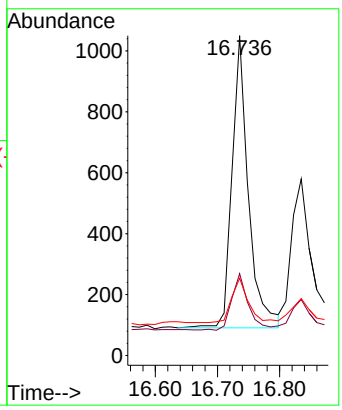




#25
Phenanthrene
Concen: 0.057 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:178 Resp: 175

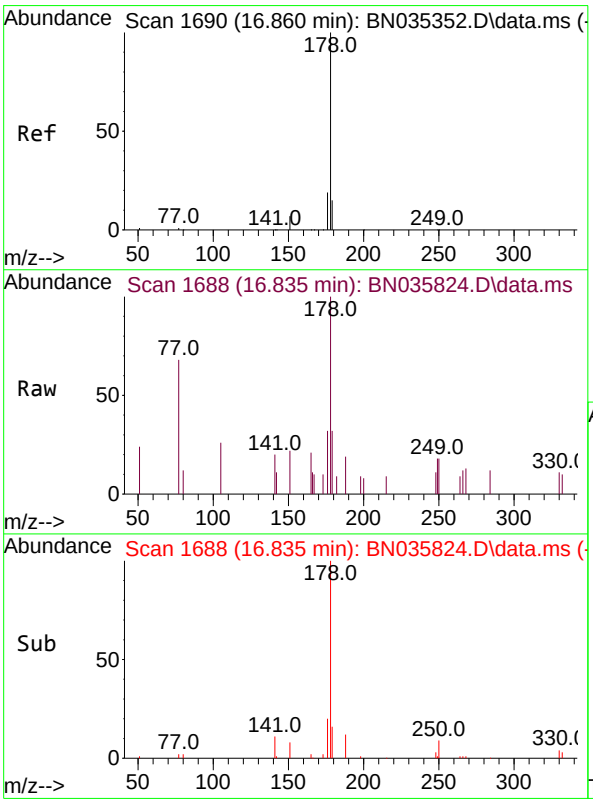
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
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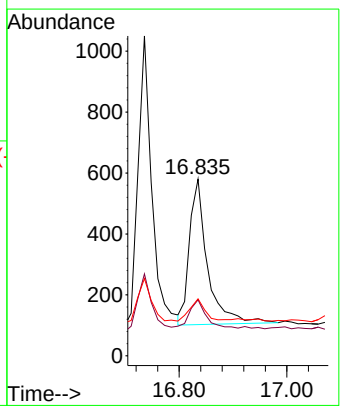
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

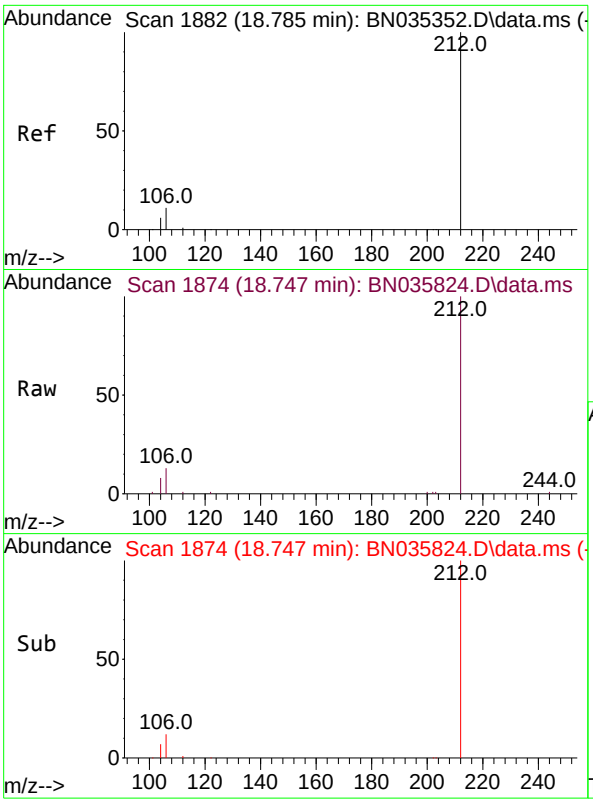


#26
Anthracene
Concen: 0.040 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:178 Resp: 1113

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	12.8	12.6	18.8

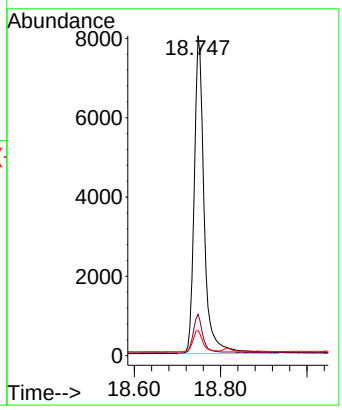




#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:212 Resp: 1288

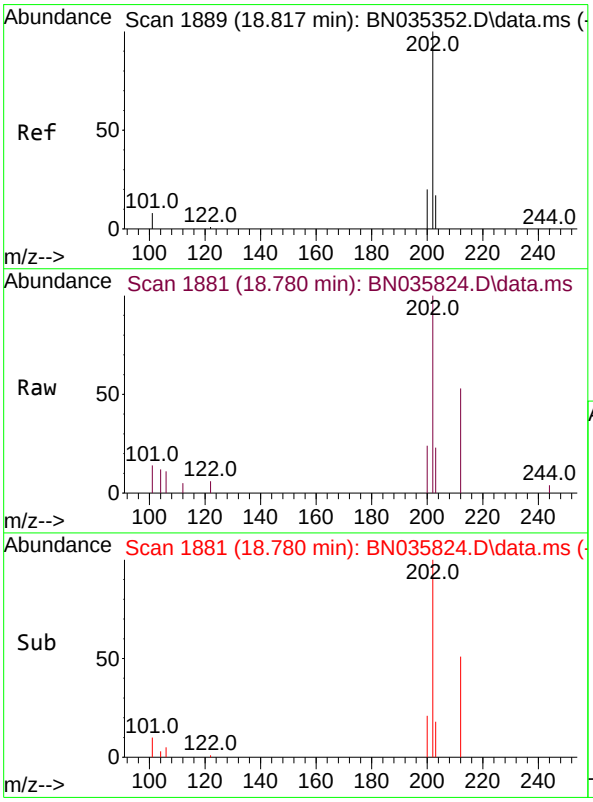
Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	6.7	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
APPROVED

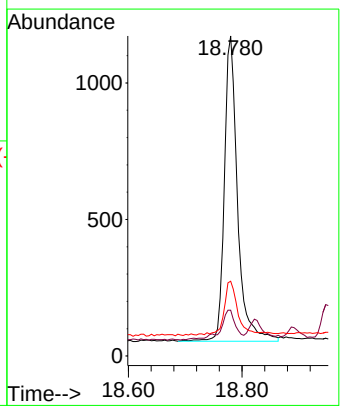
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

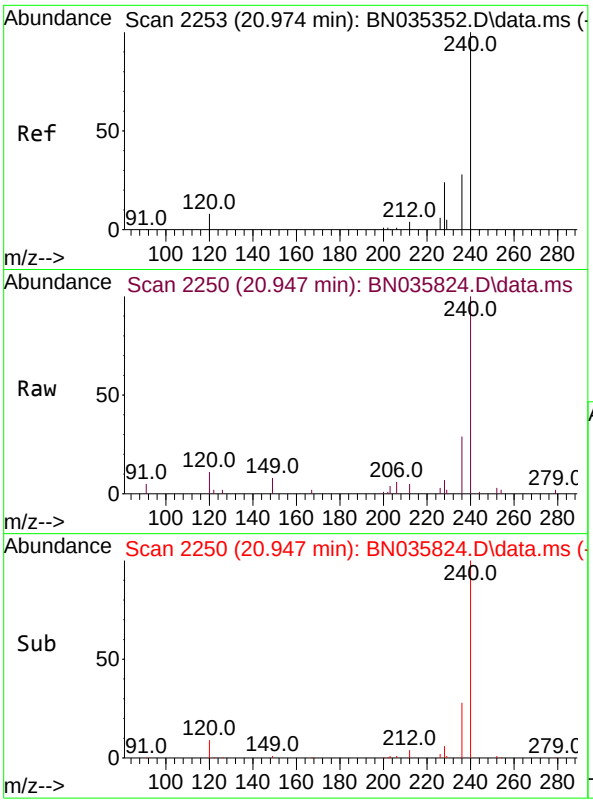


#28
Fluoranthene
Concen: 0.043 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1804

Ion	Ratio	Lower	Upper
202	100		
101	11.1	7.4	11.0#
203	18.0	13.7	20.5

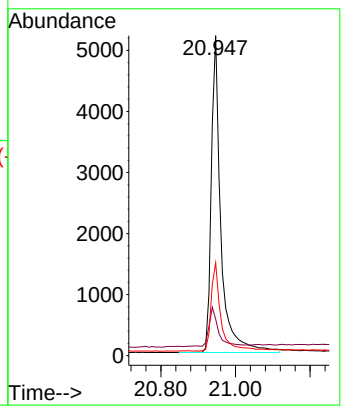




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:240 Resp: 927

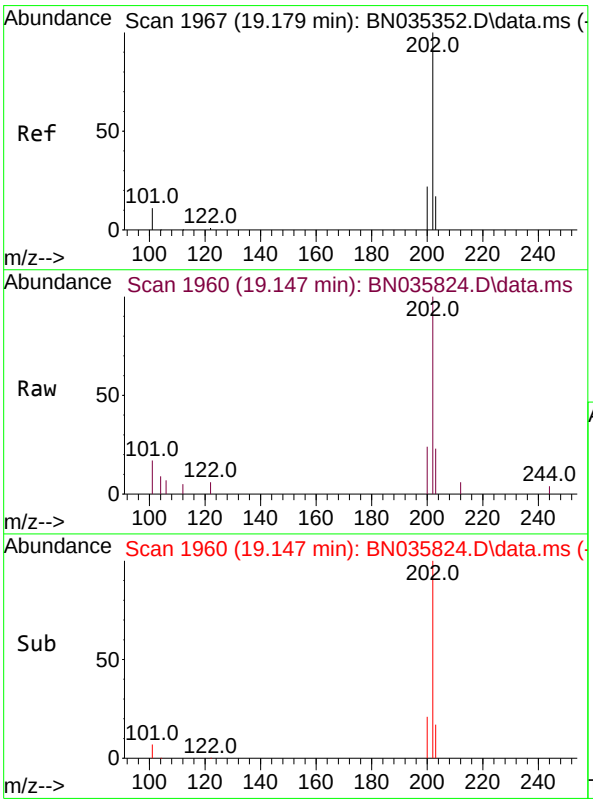
Ion	Ratio	Lower	Upper
240	100		
120	11.4	7.9	11.9
236	29.0	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations APPROVED

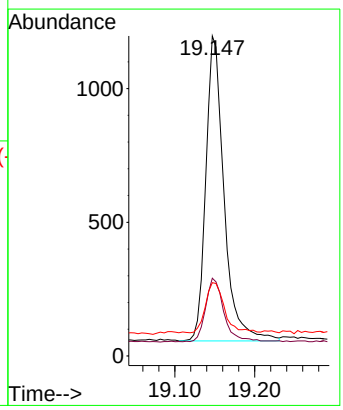
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

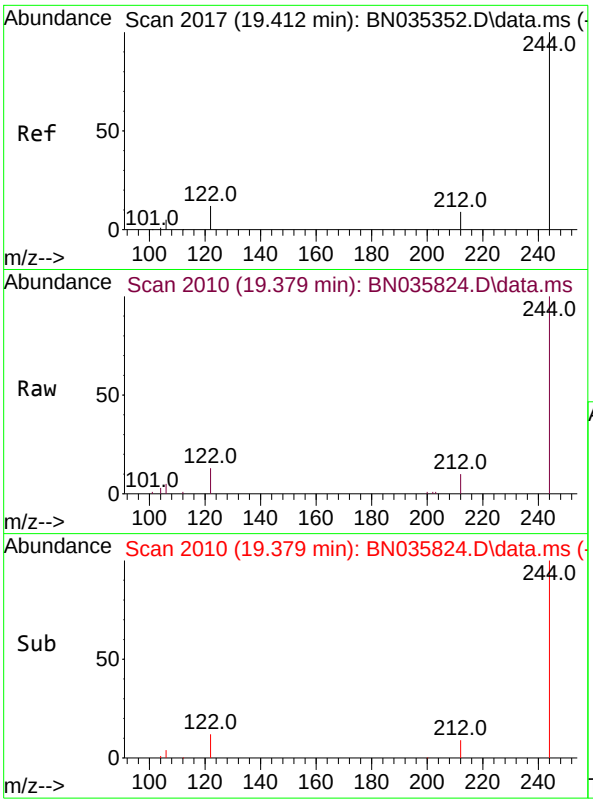


#30
Pyrene
Concen: 0.053 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1807

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.7	14.3	21.5

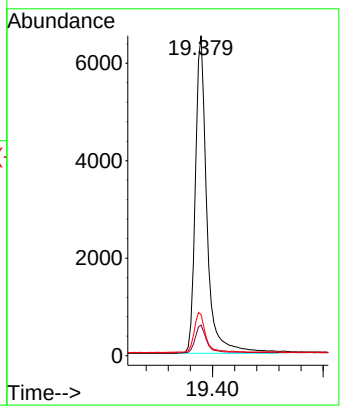




#31
Terphenyl-d14
Concen: 0.520 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:244 Resp: 950

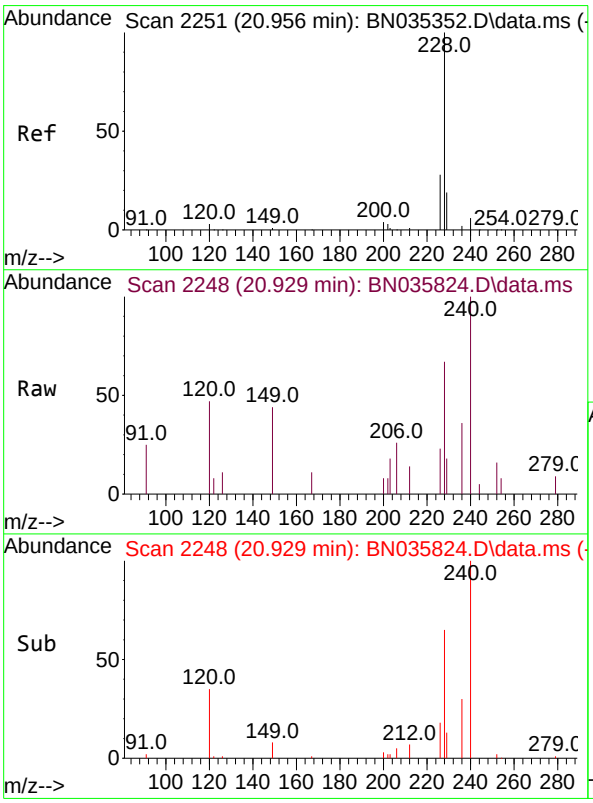
Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.1	12.1
122	12.8	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
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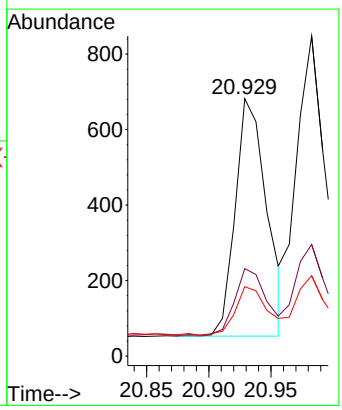
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

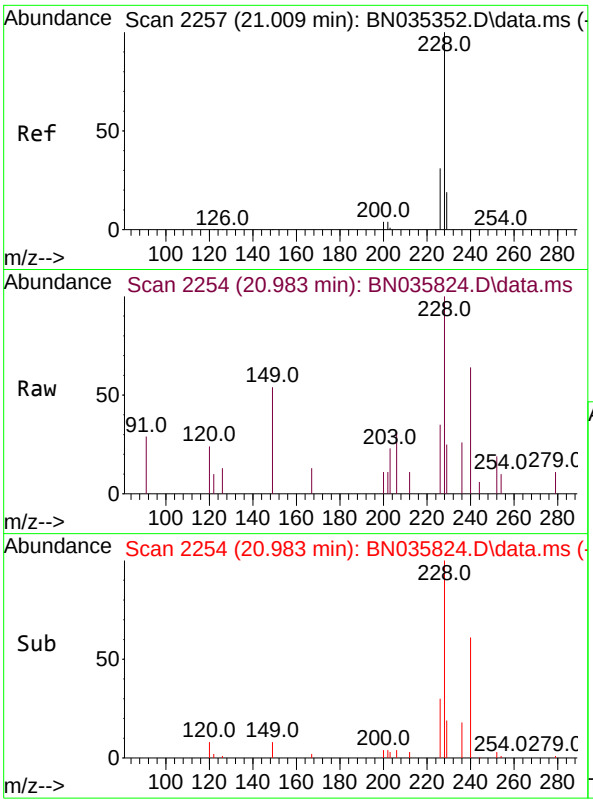


#32
Benzo(a)anthracene
Concen: 0.034 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:228 Resp: 1100

Ion	Ratio	Lower	Upper
228	100		
226	34.0	22.5	33.7#
229	27.0	15.8	23.8#

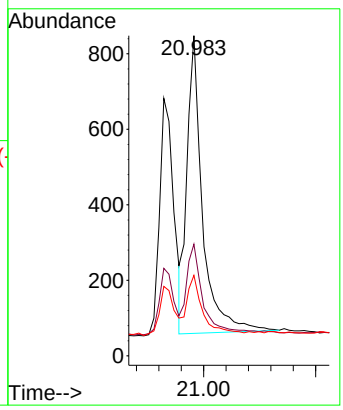




#33
Chrysene
Concen: 0.045 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:228 Resp: 151

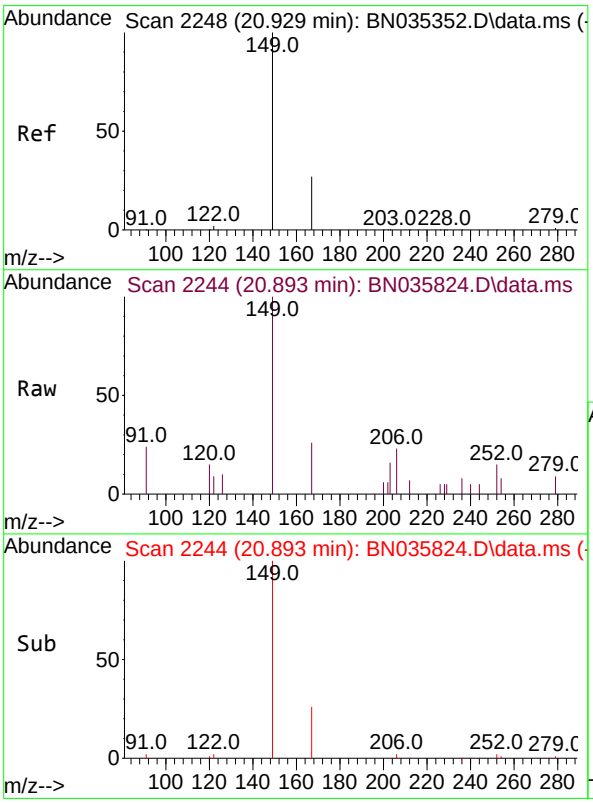
Ion	Ratio	Lower	Upper
228	100		
226	34.9	24.6	37.0
229	25.1	15.9	23.9#



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
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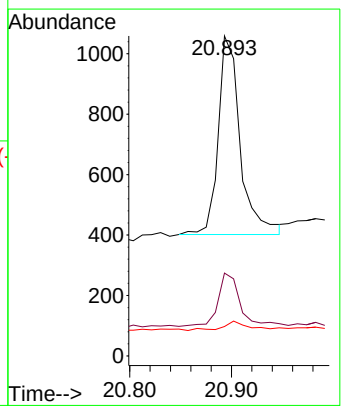
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

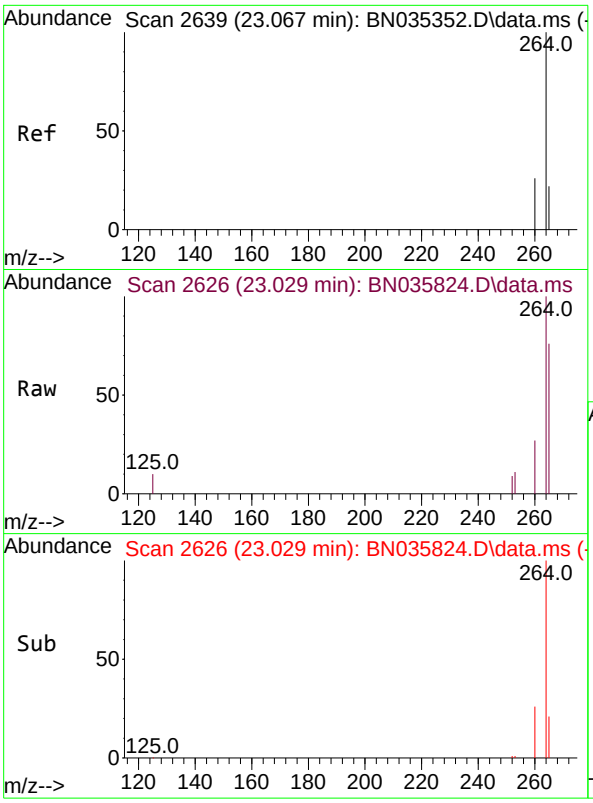


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:149 Resp: 988

Ion	Ratio	Lower	Upper
149	100		
167	26.7	22.2	33.4
279	5.5	2.7	4.1#

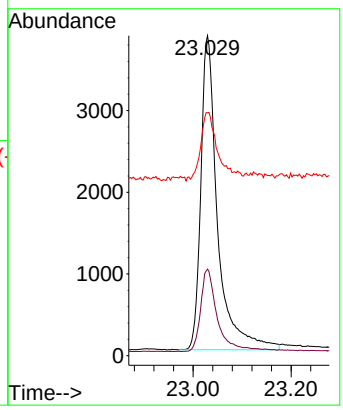




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:264 Resp: 911

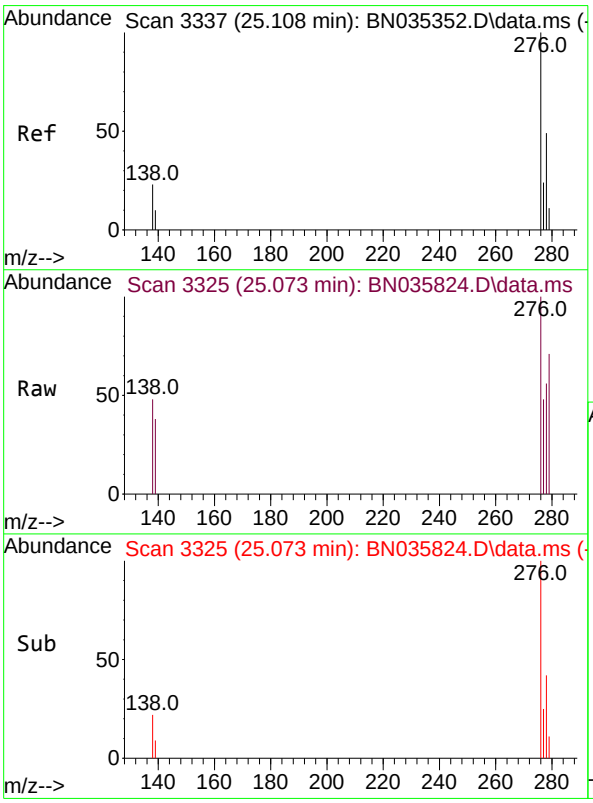
Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	75.9	40.2	60.4#



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
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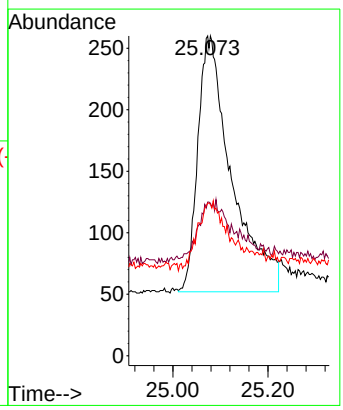
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

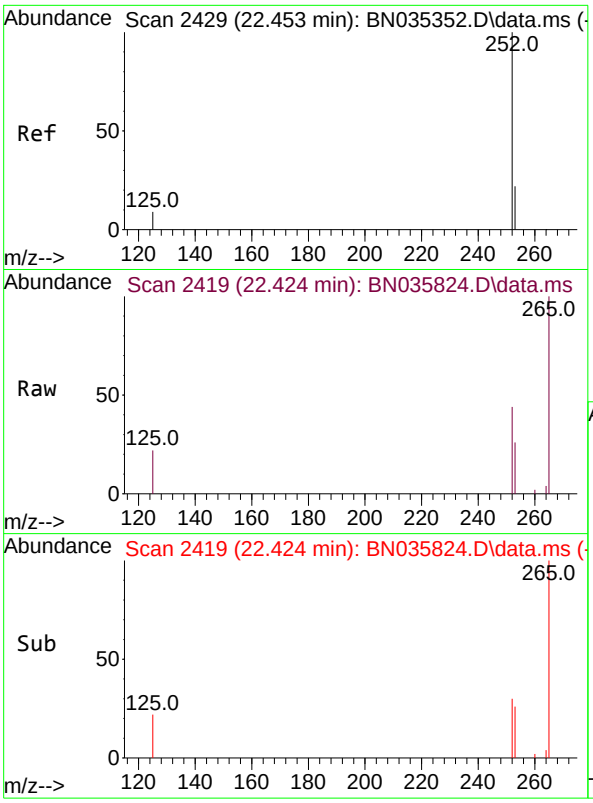


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.029 ng m
RT: 25.073 min Scan# 3325
Delta R.T. 0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:276 Resp: 1031

Ion	Ratio	Lower	Upper
276	100		
138	8.7	19.4	29.0#
277	10.7	19.8	29.6#

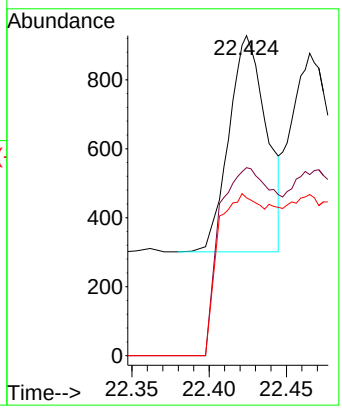




#37
Benzo(b)fluoranthene
Concen: 0.042 ng
RT: 22.424 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 140

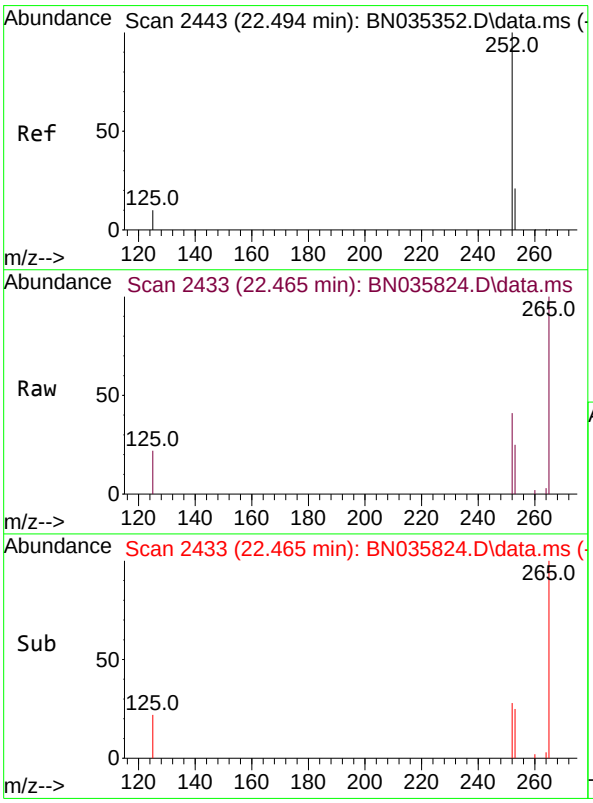
Ion	Ratio	Lower	Upper
252	100		
253	58.7	19.6	29.4#
125	49.4	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
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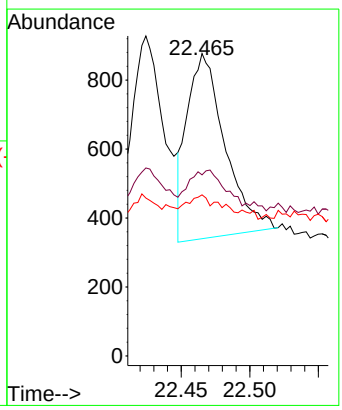
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

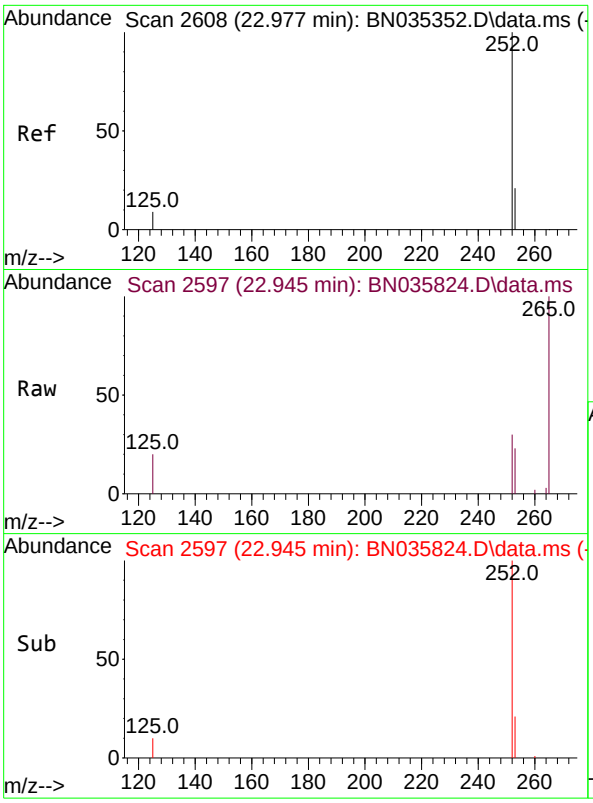


#38
Benzo(k)fluoranthene
Concen: 0.031 ng
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 1028

Ion	Ratio	Lower	Upper
252	100		
253	59.9	19.5	29.3#
125	53.2	10.2	15.4#

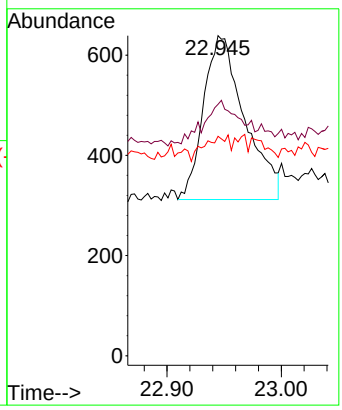




#39
Benzo(a)pyrene
Concen: 0.030 ng
RT: 22.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 82

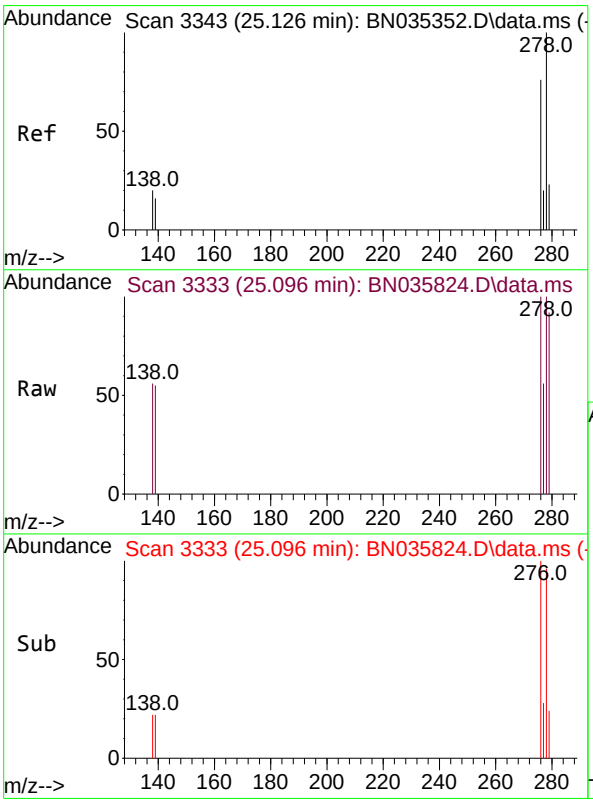
Ion	Ratio	Lower	Upper
252	100		
253	78.6	20.2	30.4#
125	68.5	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
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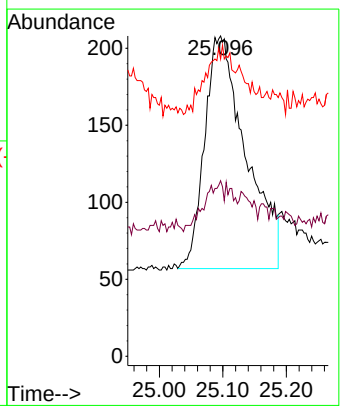
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

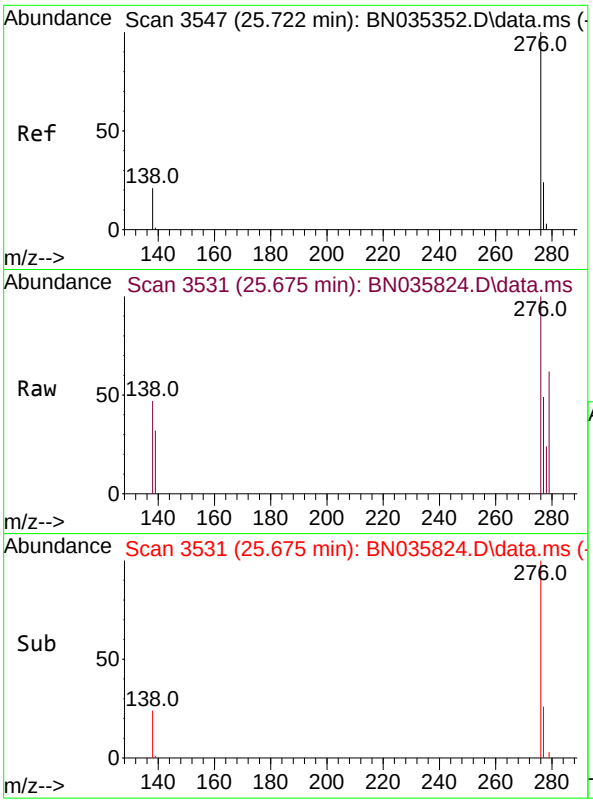


#40
Dibenzo(a,h)anthracene
Concen: 0.024 ng
RT: 25.096 min Scan# 3333
Delta R.T. 0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:278 Resp: 685

Ion	Ratio	Lower	Upper
278	100		
139	54.8	14.2	21.4#
279	92.8	20.5	30.7#

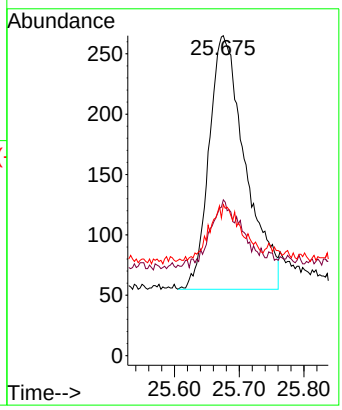




#41
Benzo(g,h,i)perylene
Concen: 0.028 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:276 Resp: 81

Ion	Ratio	Lower	Upper
276	100		
277	48.7	19.9	29.9#
138	47.2	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10A-MW01I-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-12	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035825.D	1	12/23/24 13:29	12/24/24 17:18	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3190	7.264				
1146-65-2	Naphthalene-d8	7280	10.009				
15067-26-2	Acenaphthene-d10	4570	13.924				
1517-22-2	Phenanthrene-d10	9050	16.698				
1719-03-5	Chrysene-d12	6940	20.947				
1520-96-3	Perylene-d12	6790	23.029				

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\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:20:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3186	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7275	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4568	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9048	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6943	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6791	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	881	0.110	ng	-0.01
5) Phenol-d6	6.484	99	395	0.041	ng	0.00
8) Nitrobenzene-d5	8.408	82	1883m	0.424	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4263	0.374	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	626	0.193	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6668	0.386	ng	-0.02
27) Fluoranthene-d10	18.752	212	10051	0.392	ng	0.00
31) Terphenyl-d14	19.379	244	7353	0.537	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.052	128	451	0.024	ng	# 49
16) Acenaphthylene	13.636	152	407	0.021	ng	# 89
17) Acenaphthene	13.989	154	278	0.022	ng	94
26) Anthracene	16.835	178	519	0.023	ng	# 88
28) Fluoranthene	18.780	202	792	0.024	ng	# 98
30) Pyrene	19.152	202	780	0.030	ng	99
33) Chrysene	20.983	228	620	0.025	ng	# 78
34) Bis(2-ethylhexyl)phtha...	20.893	149	598	0.062	ng	# 95

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

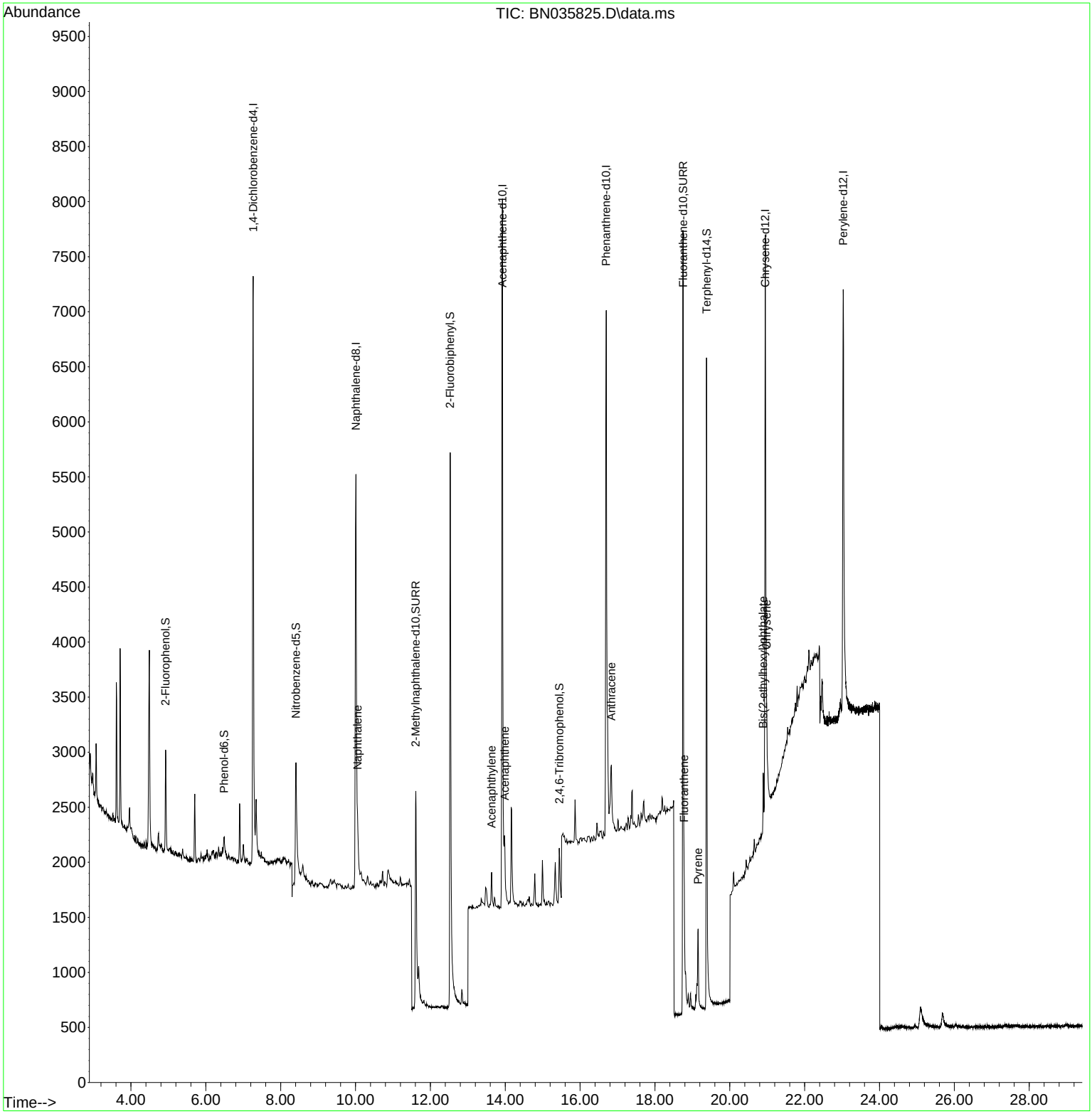
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

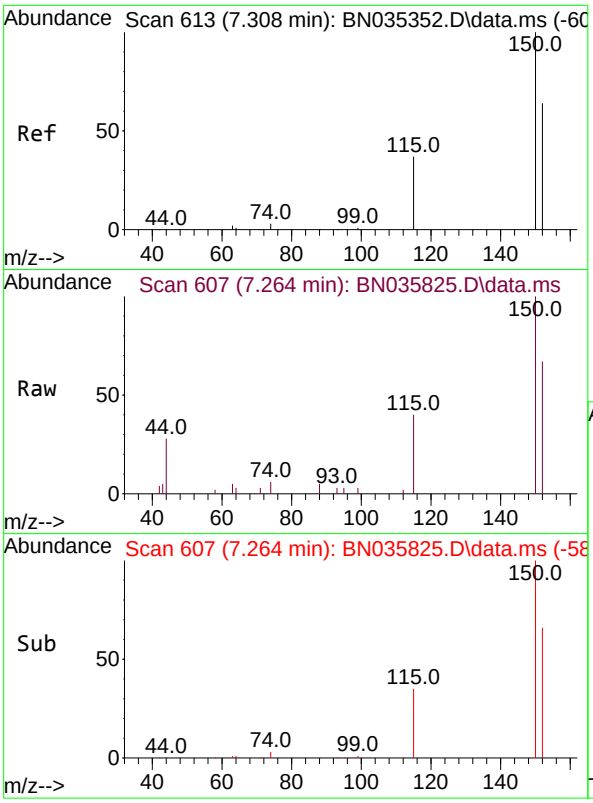
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

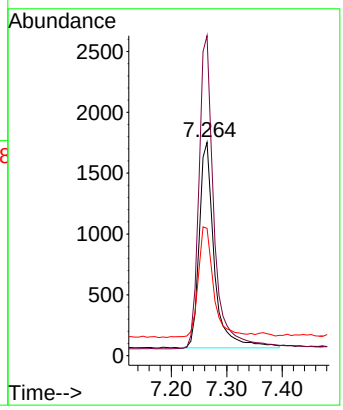




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 318(

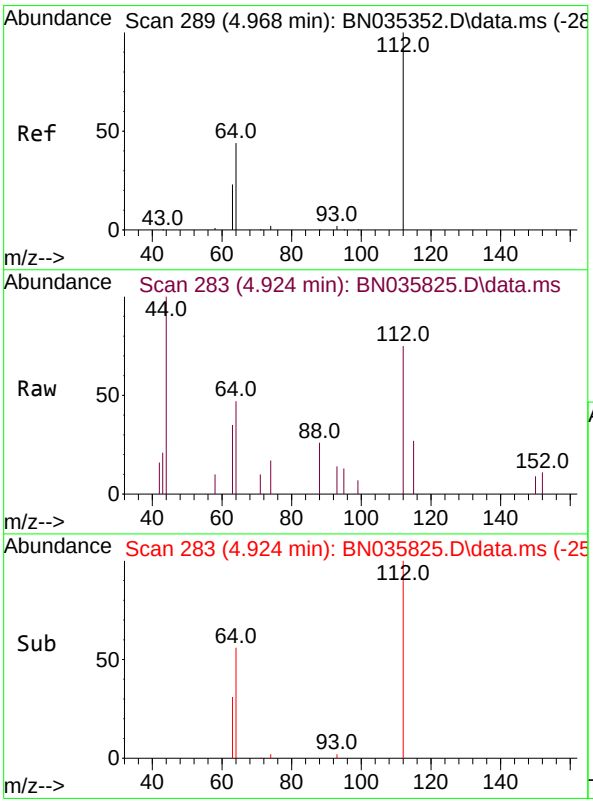
Ion	Ratio	Lower	Upper
152	100		
150	150.0	124.0	186.0
115	59.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations
APPROVED

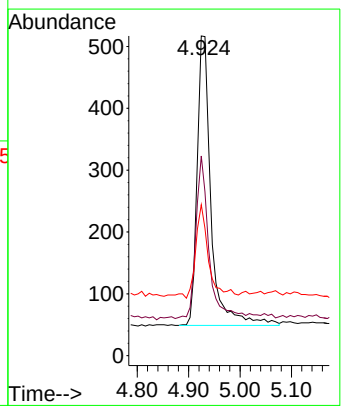
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

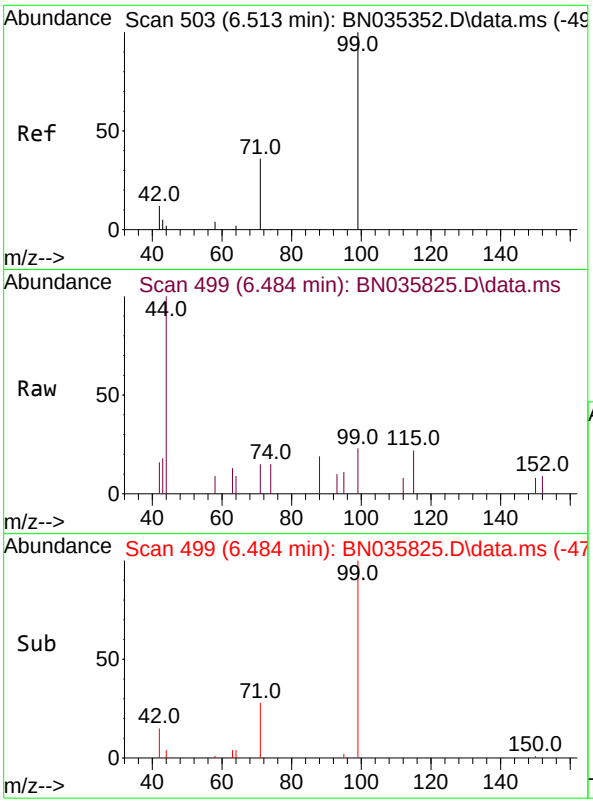


#4
2-Fluorophenol
Concen: 0.110 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:112 Resp: 881

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.1	21.0	31.6

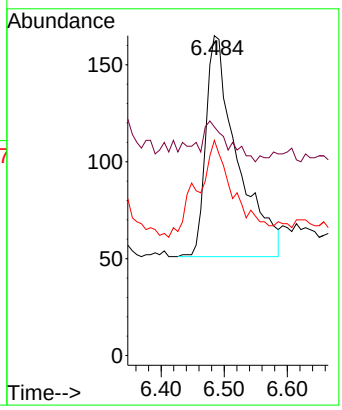




#5
Phenol-d6
Concen: 0.041 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 99 Resp: 39

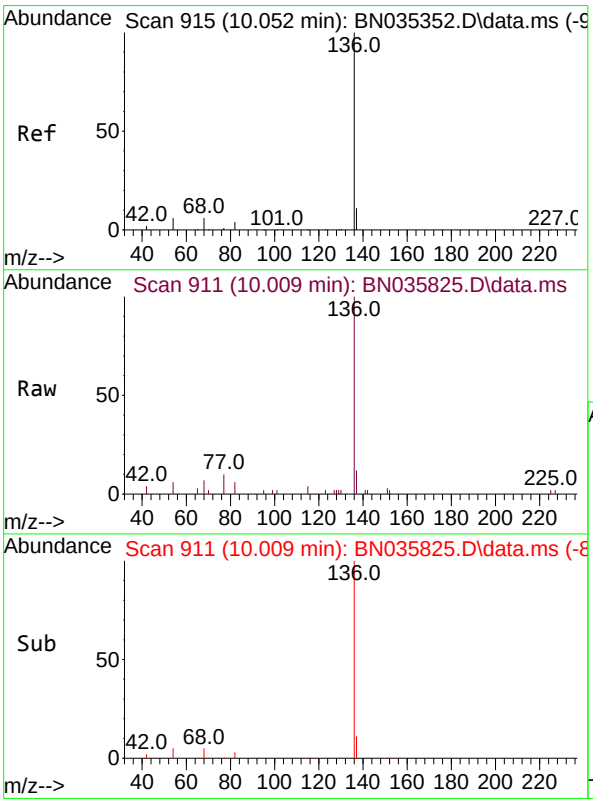
Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	31.4	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations
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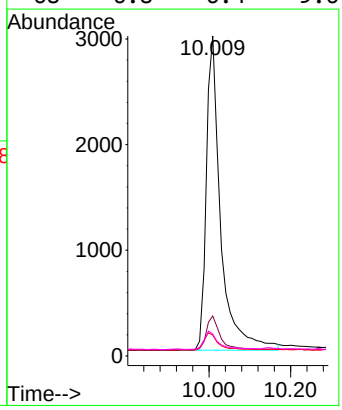
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

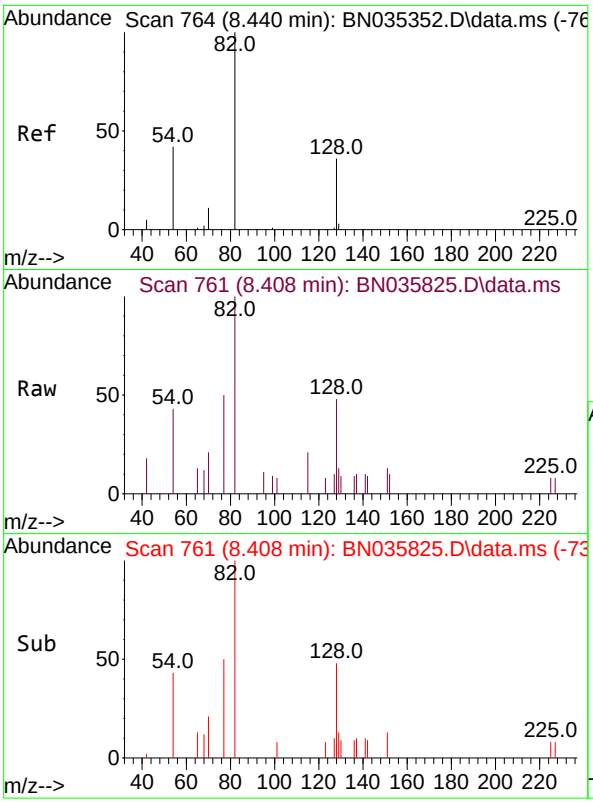


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:136 Resp: 7275

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.5	6.1	9.1
68	6.8	6.4	9.6

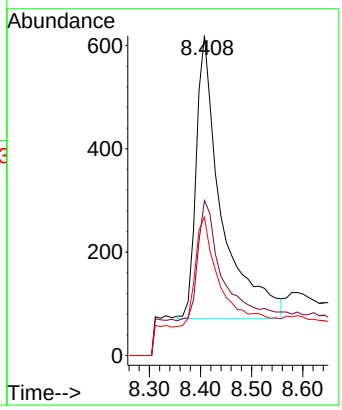




#8
Nitrobenzene-d5
Concen: 0.424 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 82 Resp: 188

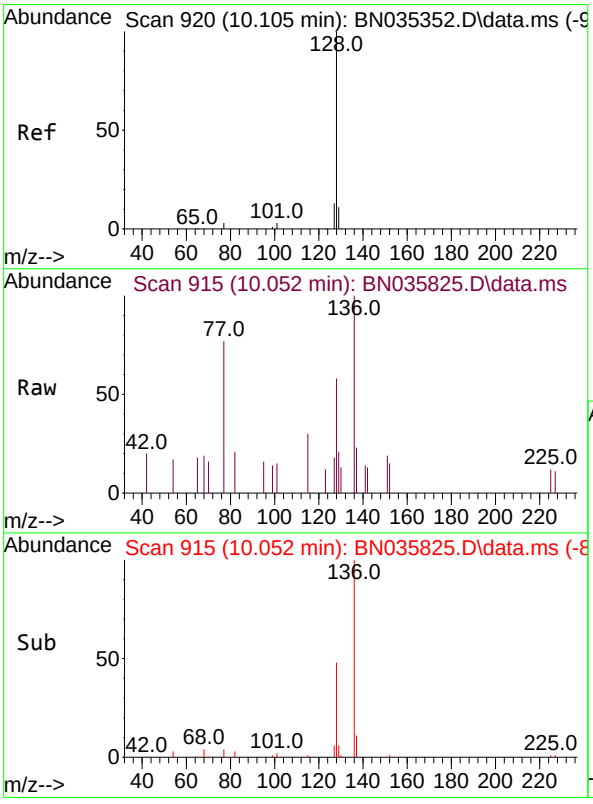
Ion	Ratio	Lower	Upper
82	100		
128	48.5	33.4	50.0
54	43.3	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations
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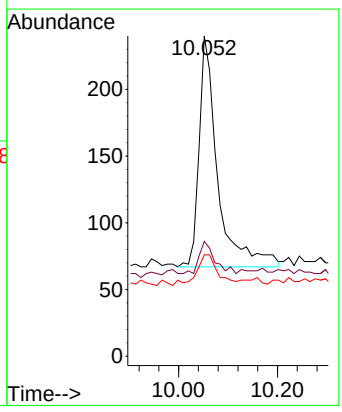
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

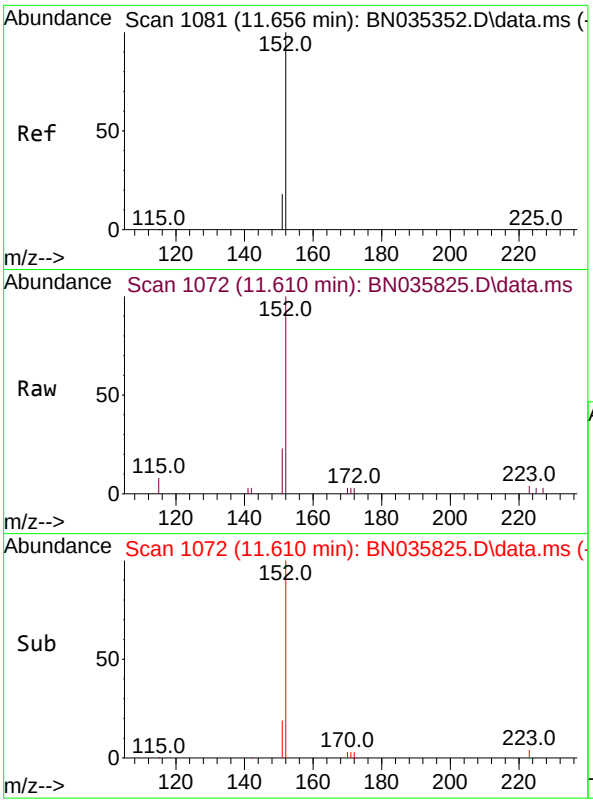


#9
Naphthalene
Concen: 0.024 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:128 Resp: 451

Ion	Ratio	Lower	Upper
128	100		
129	35.8	9.8	14.6#
127	31.7	11.4	17.2#

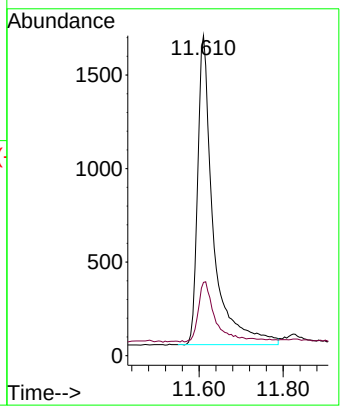




#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 426

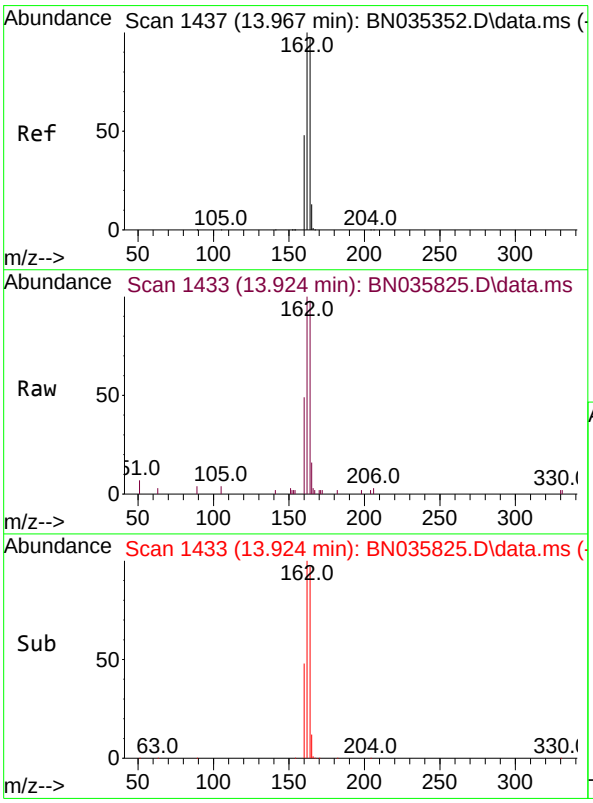
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations
APPROVED

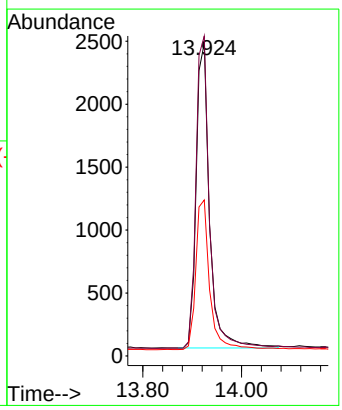
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

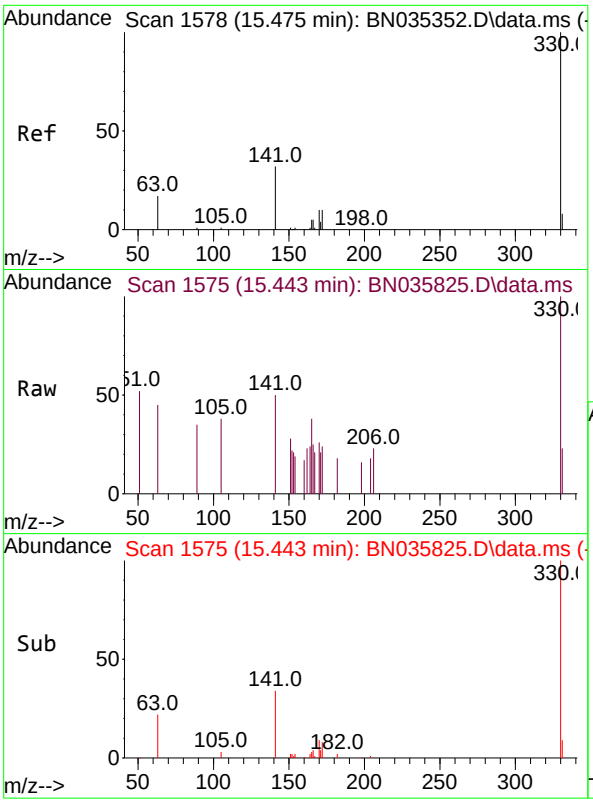


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:164 Resp: 4568

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	49.9	40.1	60.1

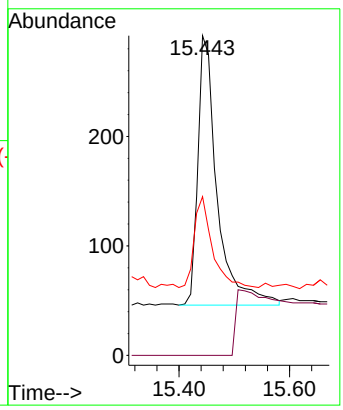




#14
2,4,6-Tribromophenol
Concen: 0.193 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

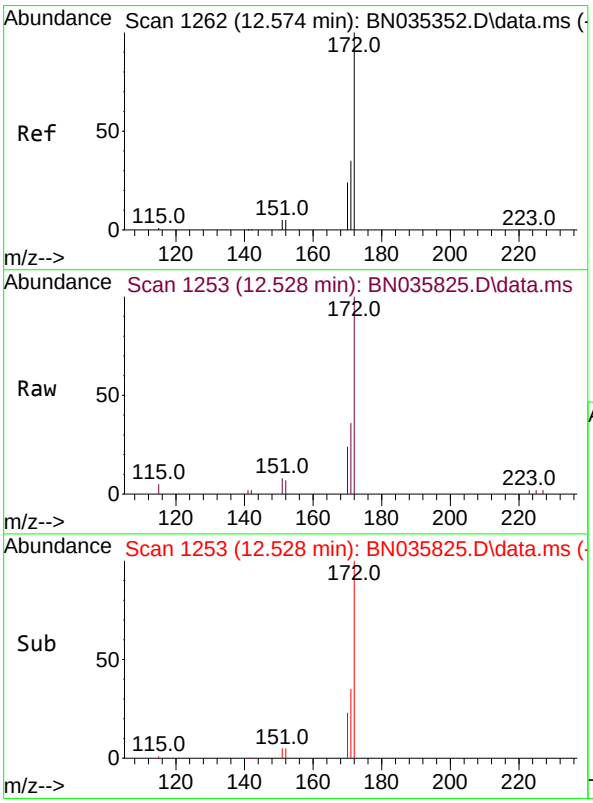
Tgt Ion:330 Resp: 62

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.7	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

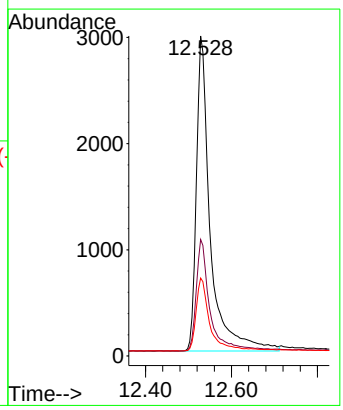
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

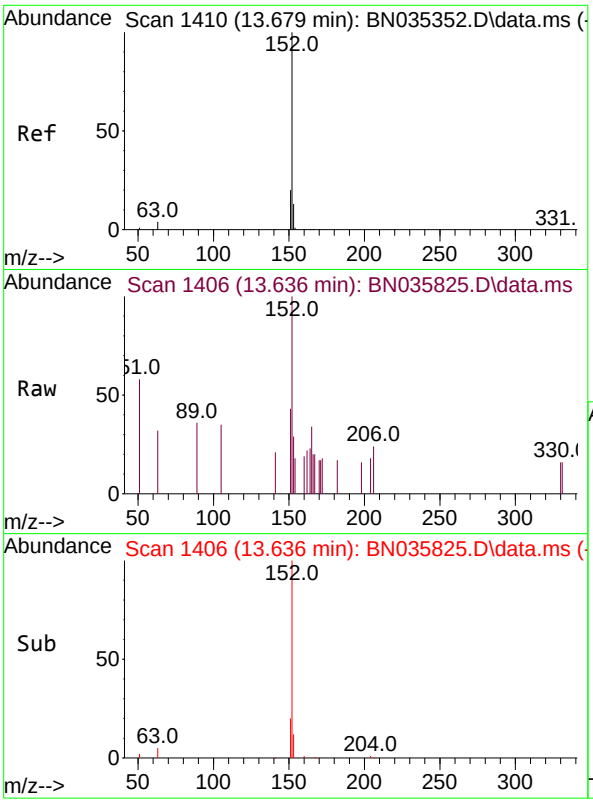


#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:172 Resp: 6668

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8

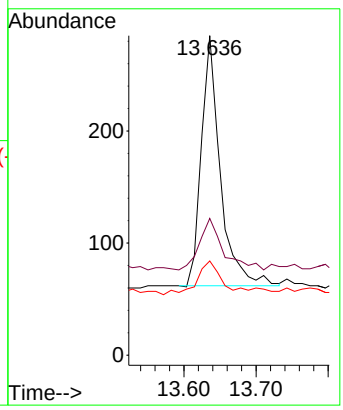




#16
Acenaphthylene
Concen: 0.021 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 40

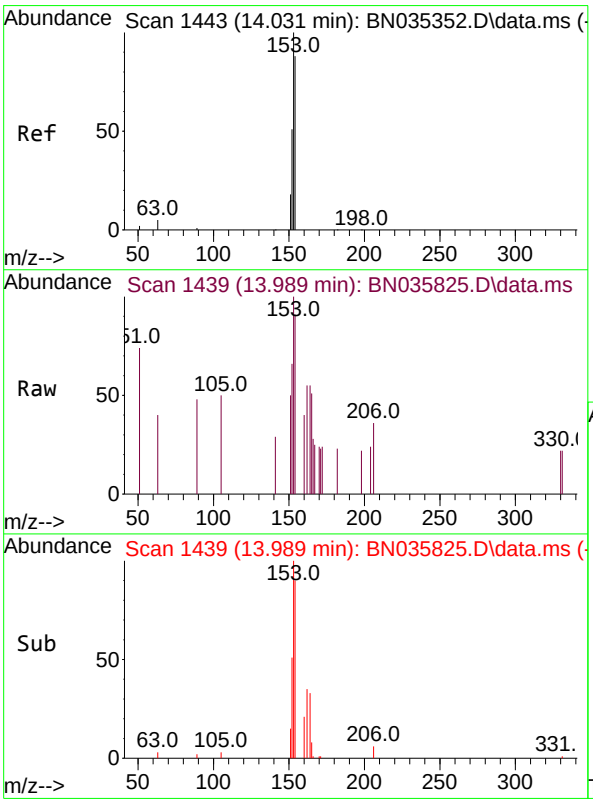
Ion	Ratio	Lower	Upper
152	100		
151	25.3	16.2	24.2#
153	17.7	10.4	15.6#



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations
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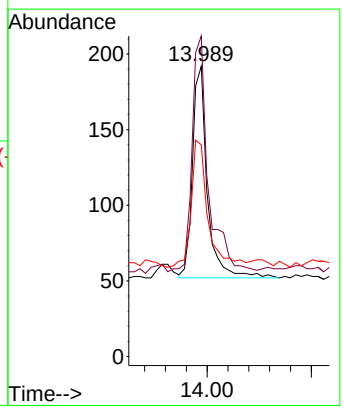
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

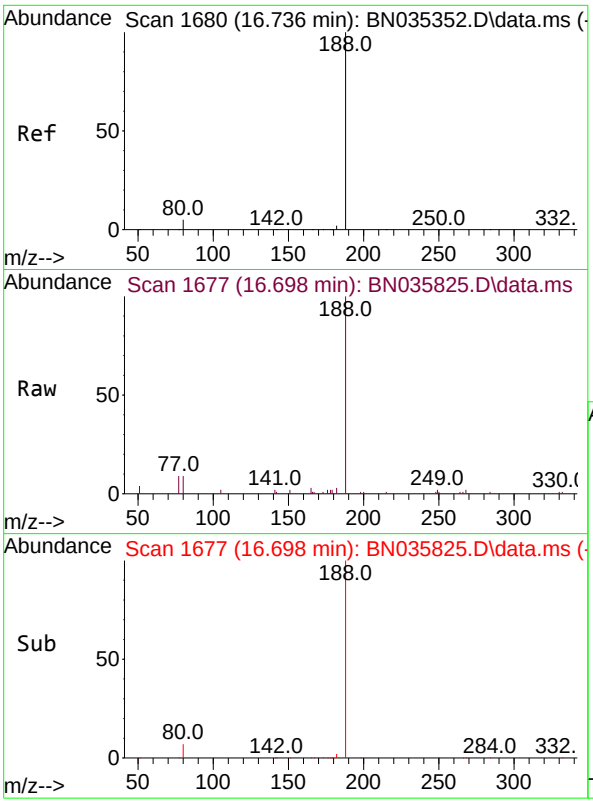


#17
Acenaphthene
Concen: 0.022 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:154 Resp: 278

Ion	Ratio	Lower	Upper
154	100		
153	121.9	92.6	139.0
152	67.3	49.0	73.6

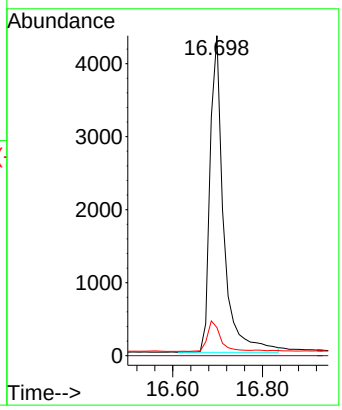




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

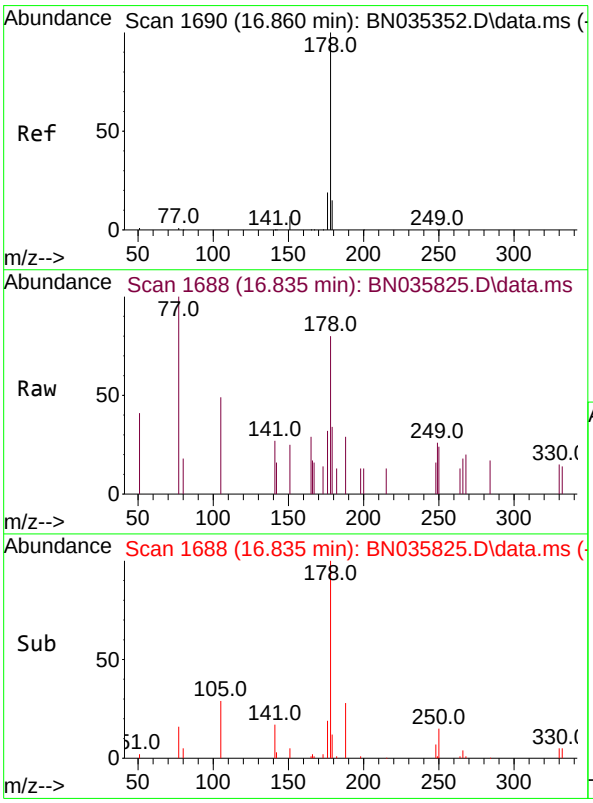
Tgt Ion:188 Resp: 904

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

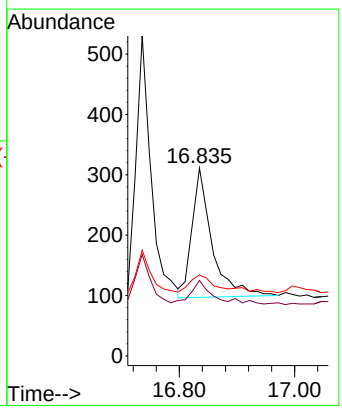
Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

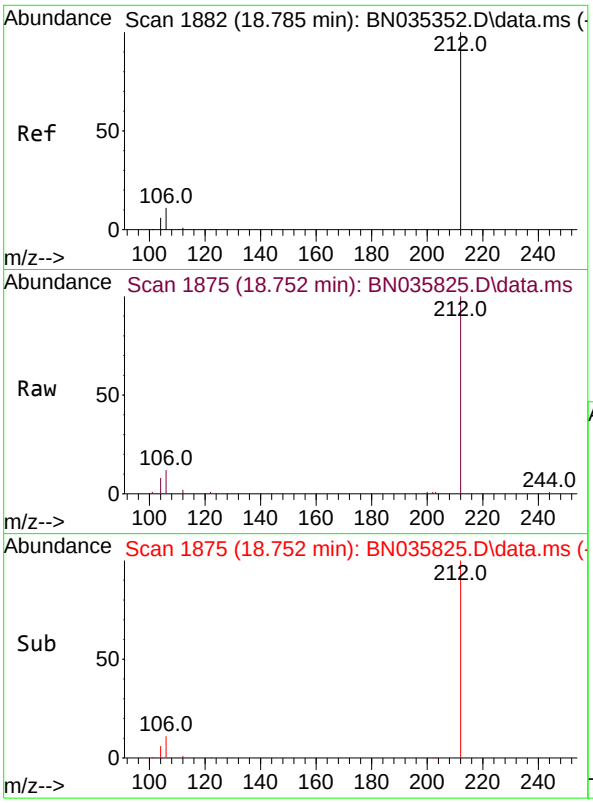


#26
Anthracene
Concen: 0.023 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:178 Resp: 519

Ion	Ratio	Lower	Upper
178	100		
176	15.4	15.0	22.6
179	23.1	12.6	18.8#

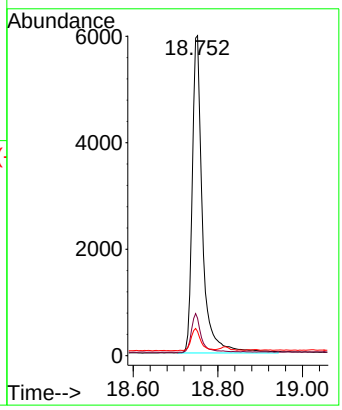




#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:212 Resp: 1005

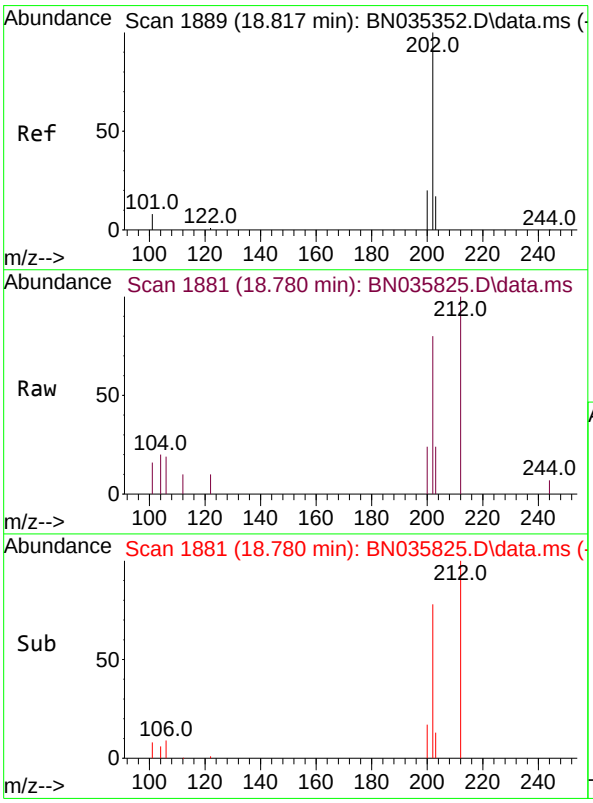
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.5	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations
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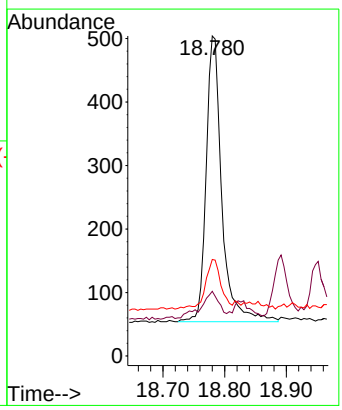
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

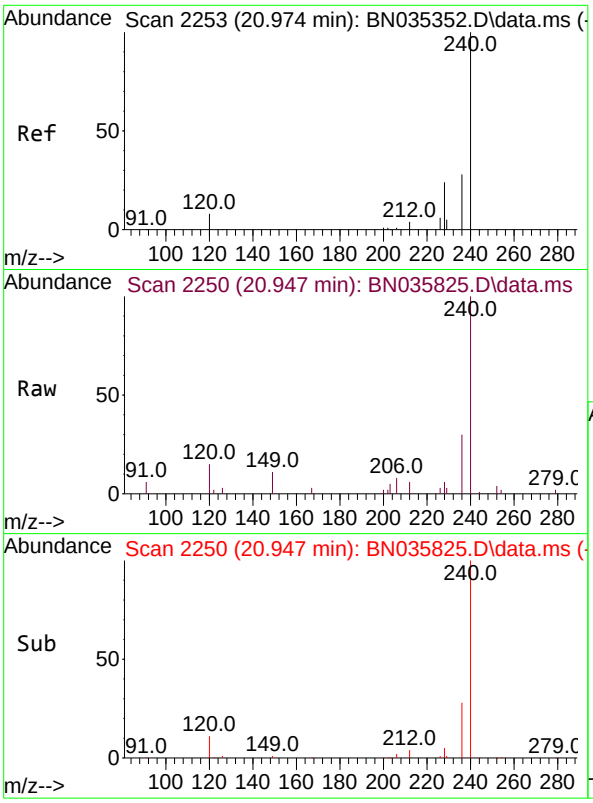


#28
Fluoranthene
Concen: 0.024 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:202 Resp: 792

Ion	Ratio	Lower	Upper
202	100		
101	11.1	7.4	11.0#
203	17.2	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

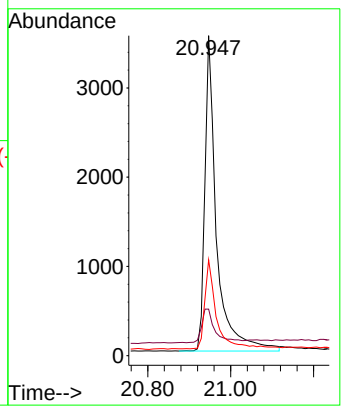
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

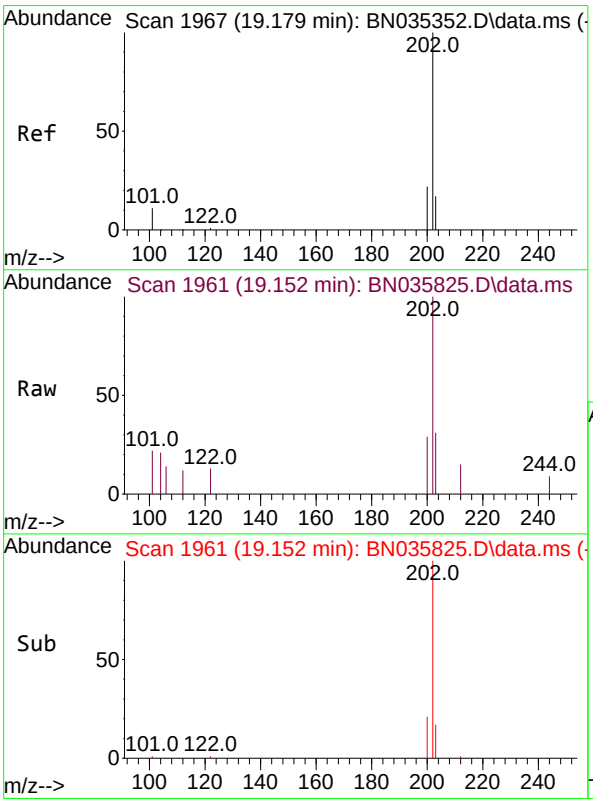
Tgt Ion:240 Resp: 694

Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9
236	29.9	22.9	34.3

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

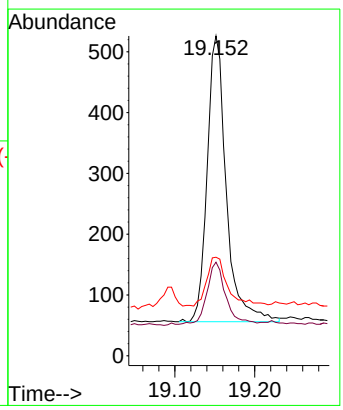


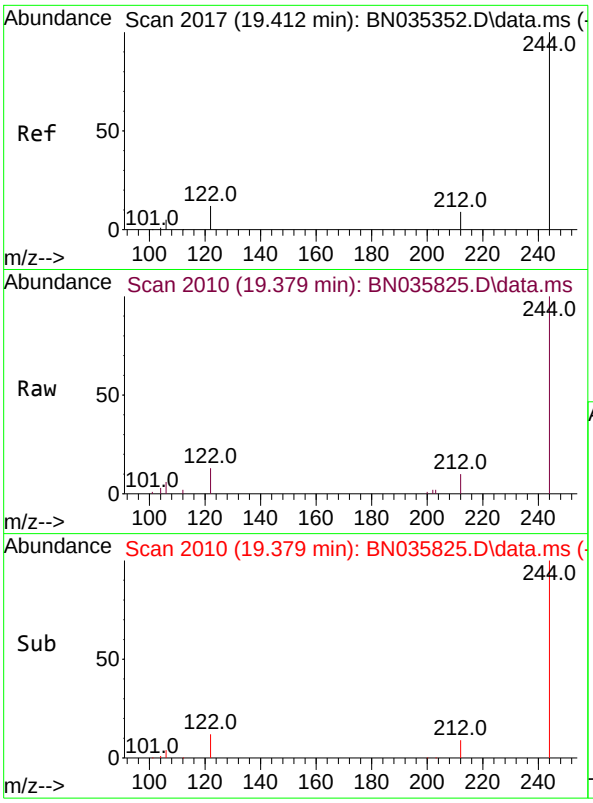


#30
Pyrene
Concen: 0.030 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:202 Resp: 780

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	18.5	14.3	21.5

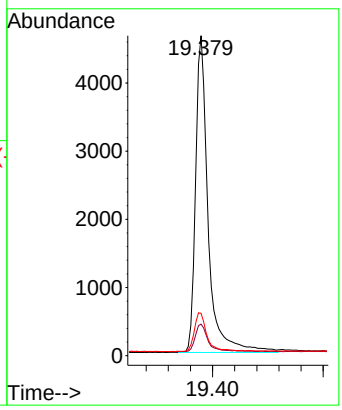




#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:244 Resp: 735

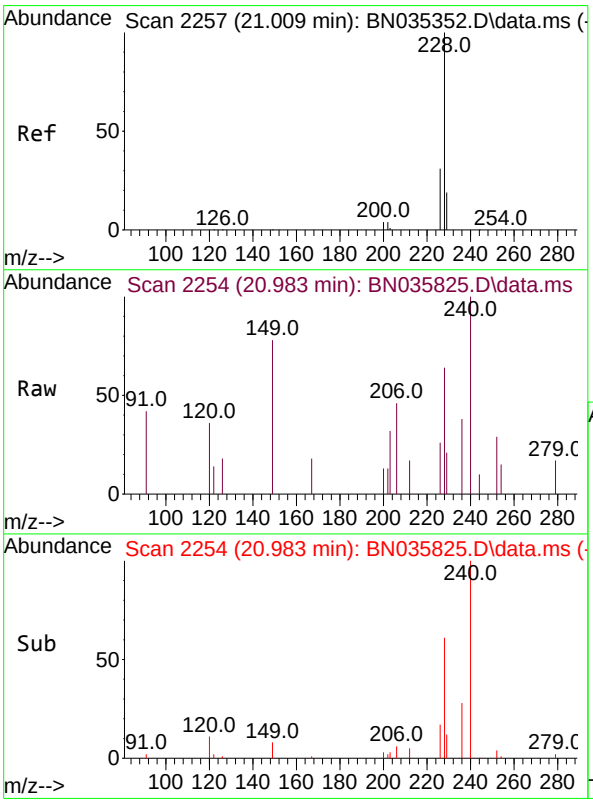
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations APPROVED

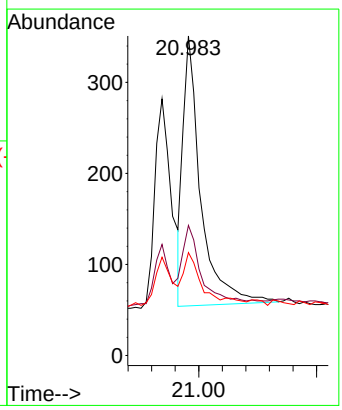
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

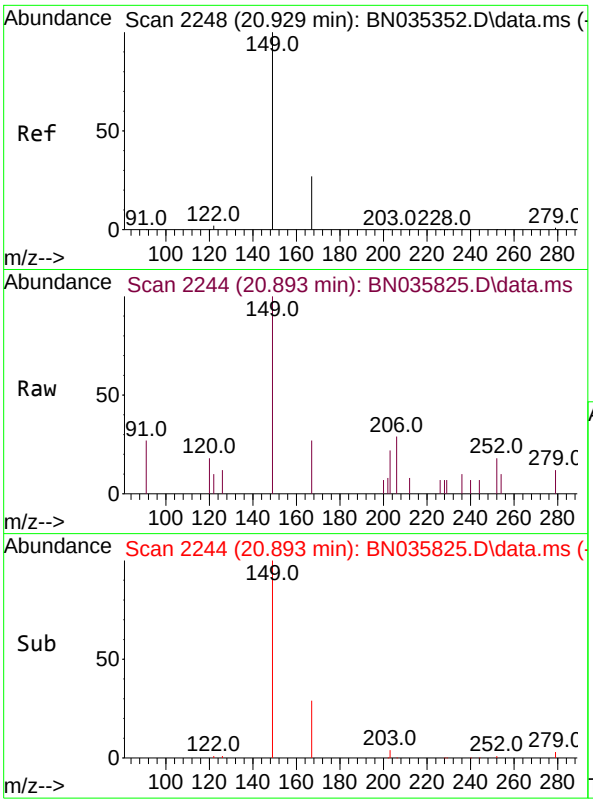


#33
Chrysene
Concen: 0.025 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:228 Resp: 620

Ion	Ratio	Lower	Upper
228	100		
226	40.7	24.6	37.0#
229	32.2	15.9	23.9#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.062 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

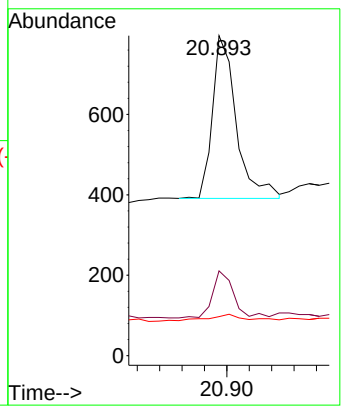
Tgt Ion:149 Resp: 59

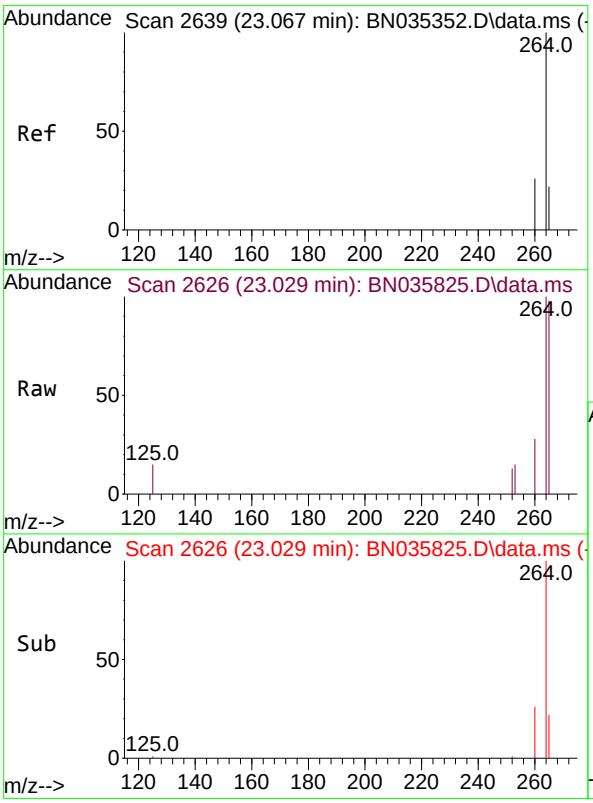
Ion	Ratio	Lower	Upper
149	100		
167	25.4	22.2	33.4
279	5.5	2.7	4.1#

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

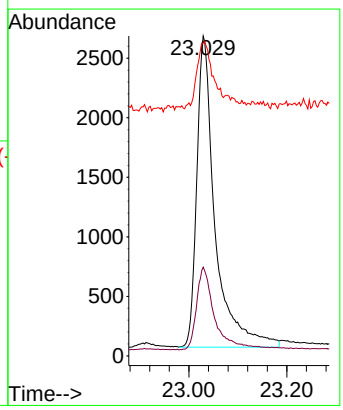




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:264 Resp: 6791

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.4	32.2
265	97.8	40.2	60.4#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RE117D2-20241218	SDG No.:	P5376
Lab Sample ID:	P5376-13	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035826.D	1	12/23/24 13:29	12/24/24 17:53	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		141%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3380	7.264				
1146-65-2	Naphthalene-d8	7930	10.009				
15067-26-2	Acenaphthene-d10	4970	13.924				
1517-22-2	Phenanthrene-d10	10400	16.698				
1719-03-5	Chrysene-d12	8530	20.947				
1520-96-3	Perylene-d12	8300	23.029				

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\BN122324\
Data File : BN035826.D
Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:20:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3378	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7925	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4973	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10383	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8532	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	8295	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	971	0.115	ng	-0.01
5) Phenol-d6	6.477	99	466	0.046	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1954m	0.404	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4563	0.368	ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	723	0.205	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7227	0.384	ng	-0.02
27) Fluoranthene-d10	18.747	212	12295	0.418	ng	-0.01
31) Terphenyl-d14	19.379	244	9489	0.564	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.052	128	457	0.022	ng	# 56
28) Fluoranthene	18.780	202	782	0.020	ng	# 95
30) Pyrene	19.151	202	811	0.026	ng	98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1313	0.111	ng	93

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

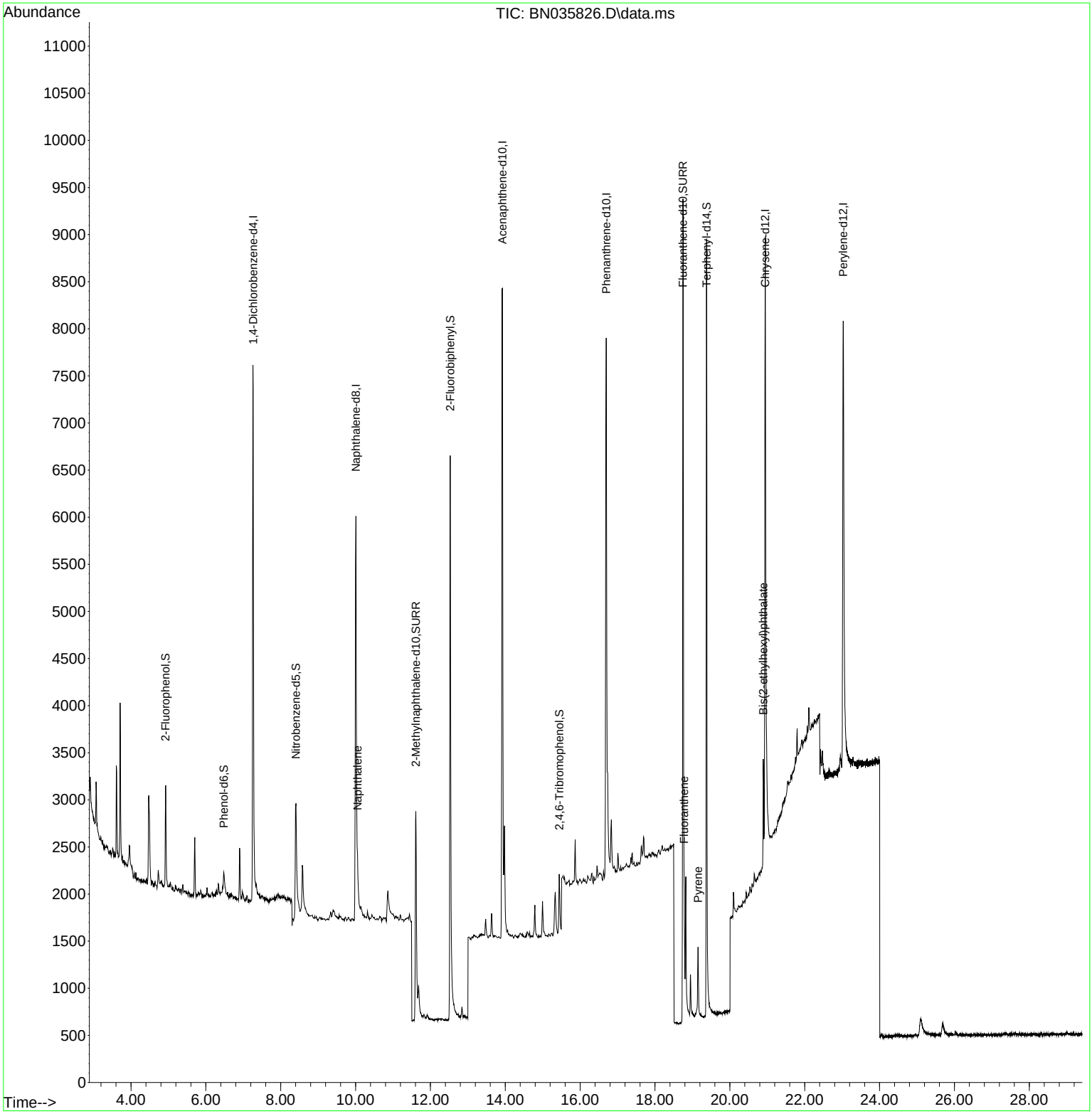
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035826.D
Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

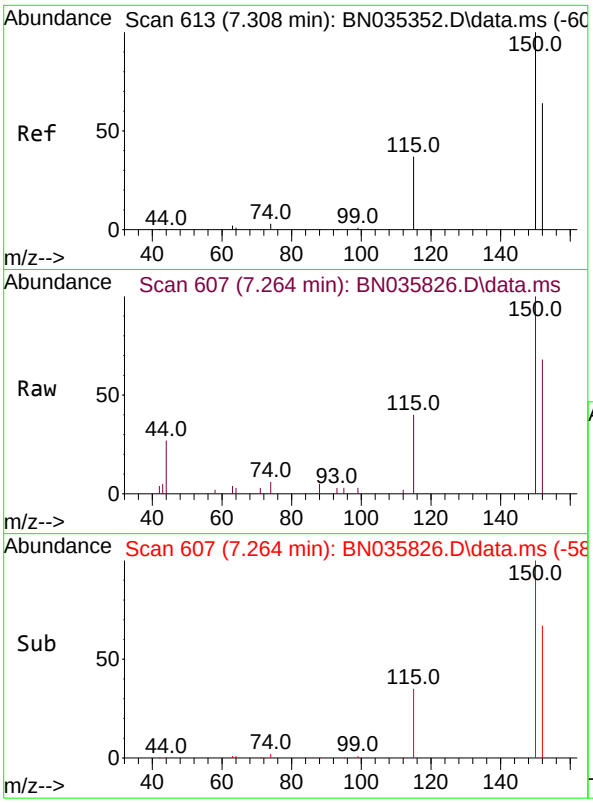
Quant Time: Dec 24 23:20:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

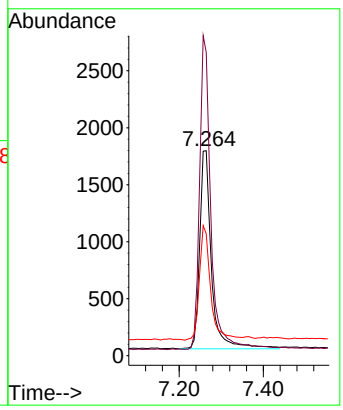




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:152 Resp: 337

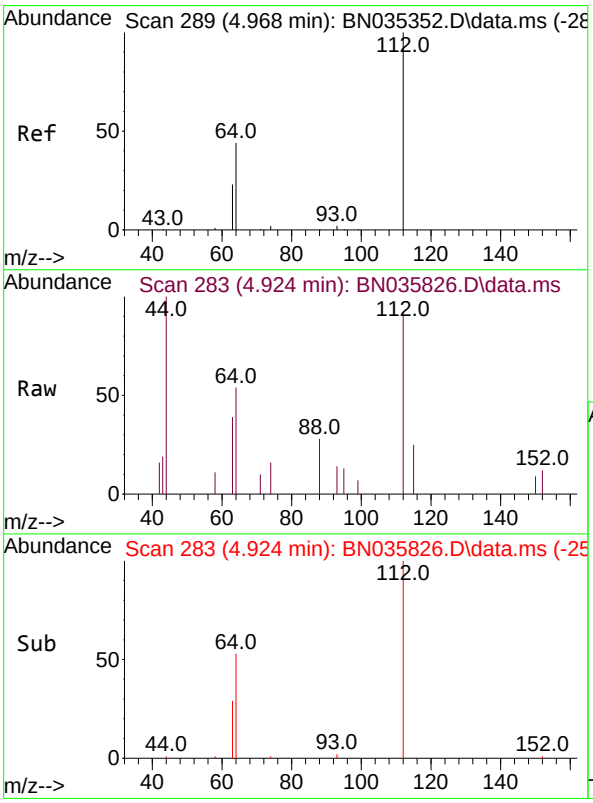
Ion	Ratio	Lower	Upper
152	100		
150	148.1	124.0	186.0
115	59.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Manual Integrations
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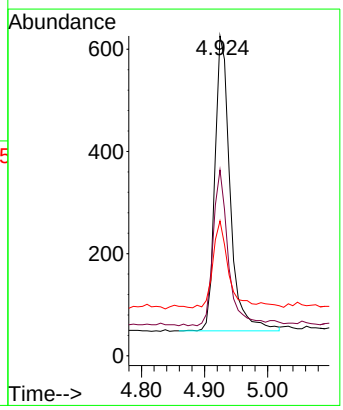
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

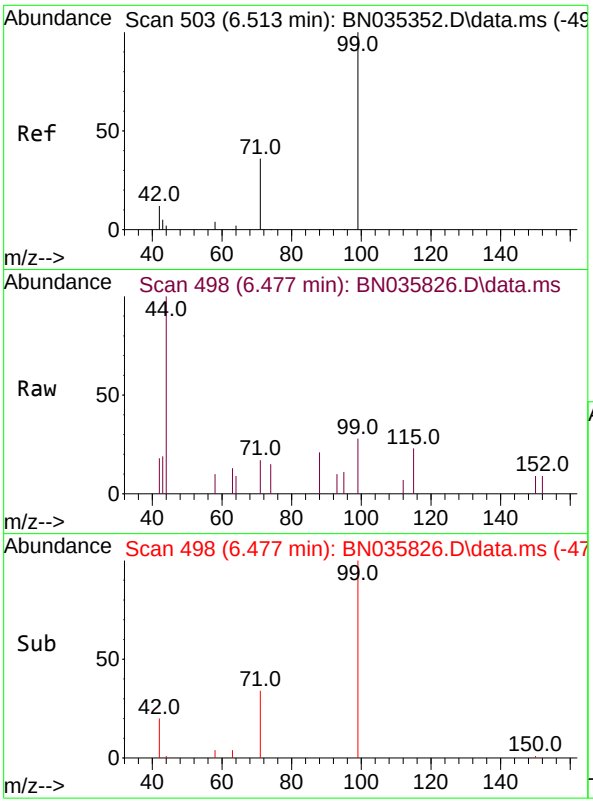


#4
2-Fluorophenol
Concen: 0.115 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:112 Resp: 971

Ion	Ratio	Lower	Upper
112	100		
64	52.3	39.8	59.8
63	29.4	21.0	31.6

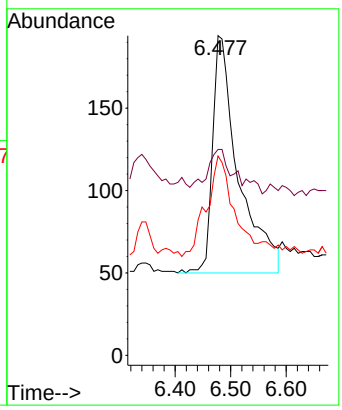




#5
Phenol-d6
Concen: 0.046 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

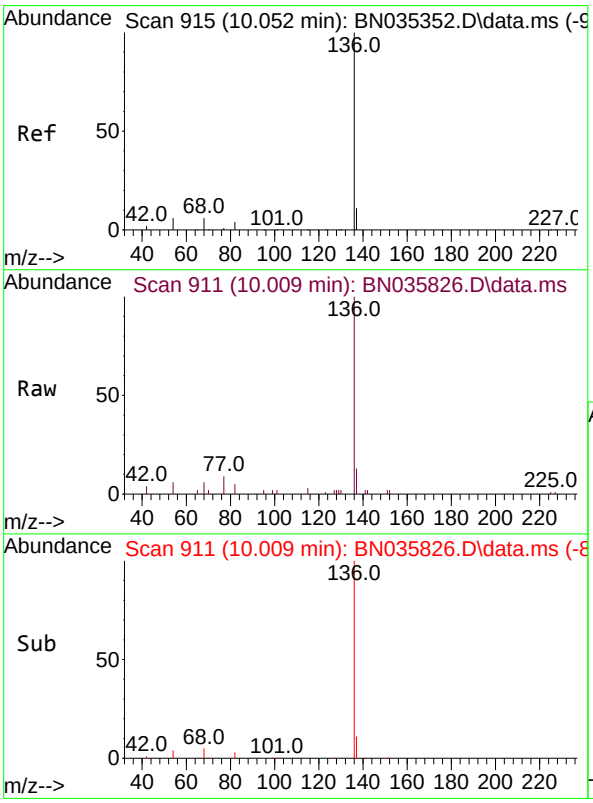
Tgt Ion: 99 Resp: 46

Ion	Ratio	Lower	Upper
99	100		
42	20.2	11.4	17.2#
71	44.6	29.3	43.9#



Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

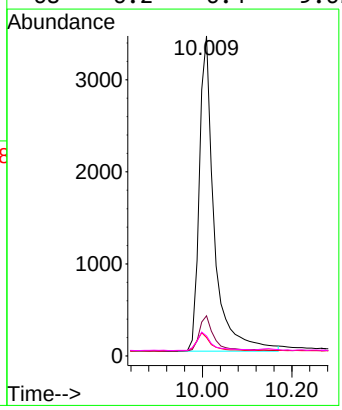
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APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

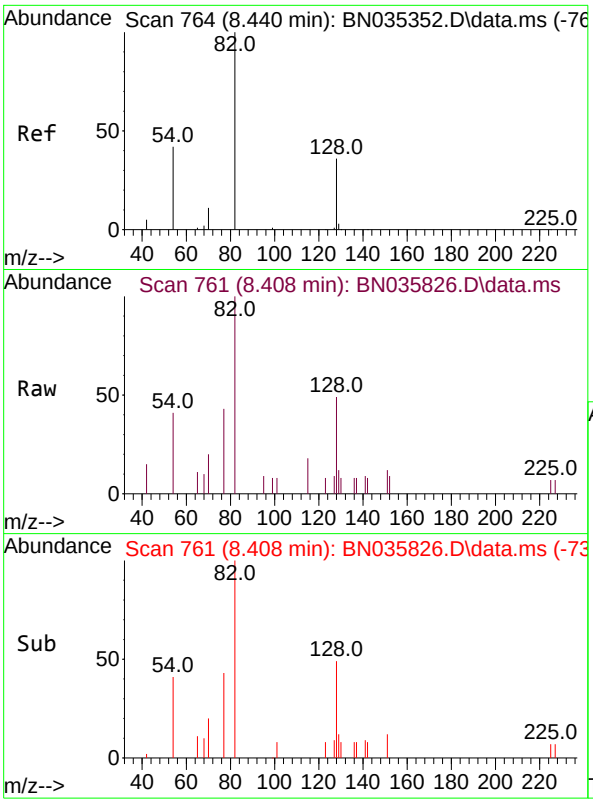


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:136 Resp: 7925

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	5.8	6.1	9.1#
68	6.2	6.4	9.6#

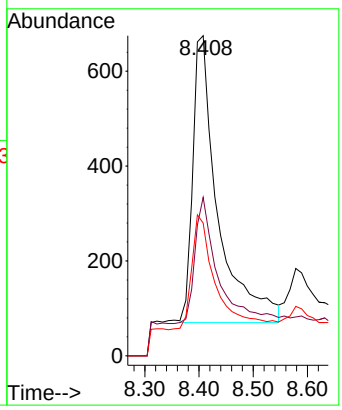




#8
Nitrobenzene-d5
Concen: 0.404 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion: 82 Resp: 195

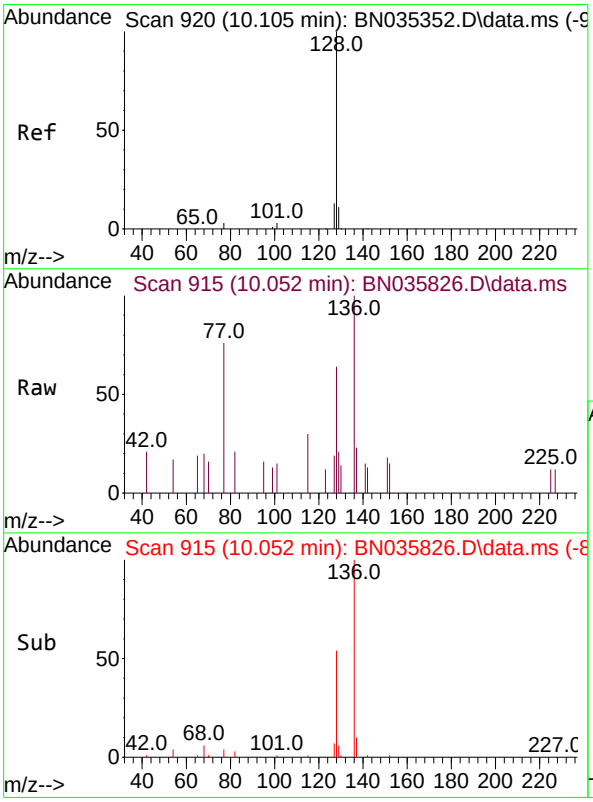
Ion	Ratio	Lower	Upper
82	100		
128	49.5	33.4	50.0
54	41.5	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

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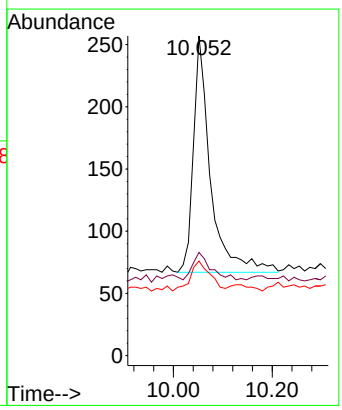
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

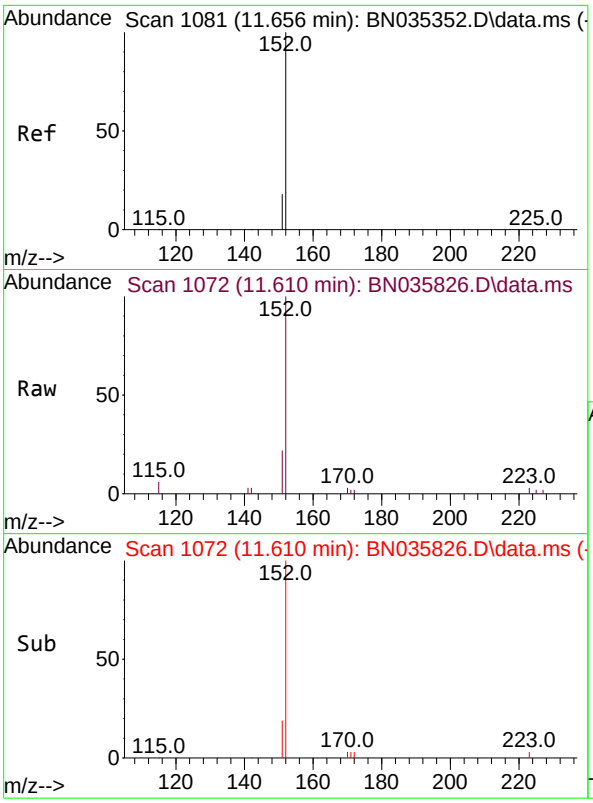


#9
Naphthalene
Concen: 0.022 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:128 Resp: 457

Ion	Ratio	Lower	Upper
128	100		
129	32.3	9.8	14.6#
127	29.6	11.4	17.2#

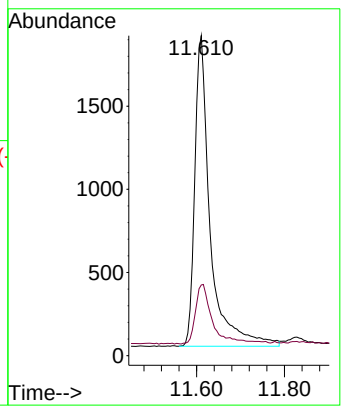




#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.610 min Scan# 1(
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:152 Resp: 456

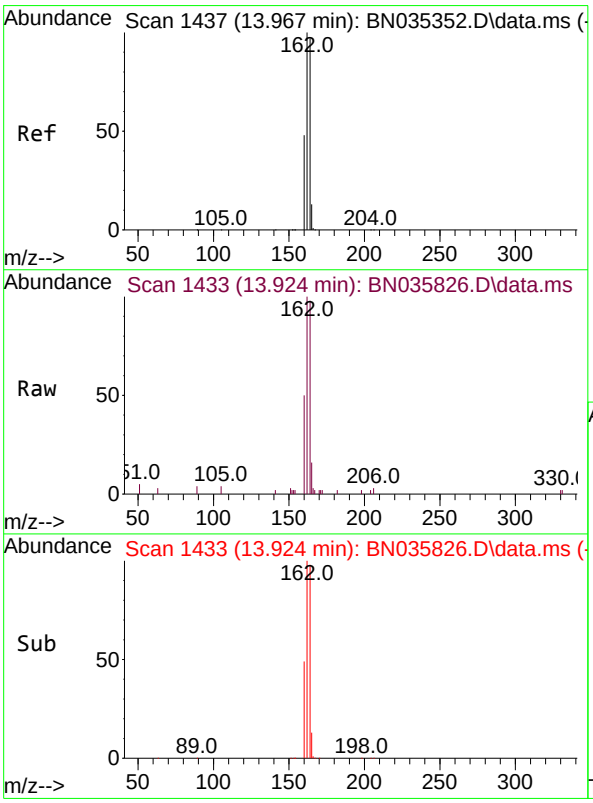
Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Manual Integrations
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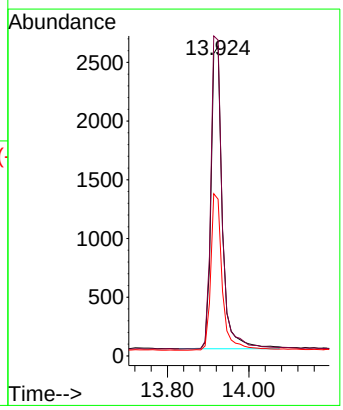
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

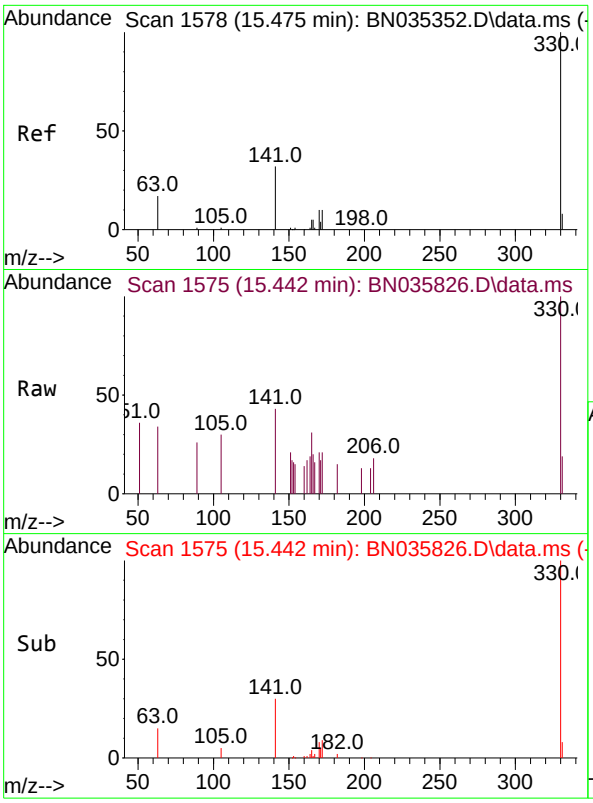


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:164 Resp: 4973

Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.2	123.2
160	50.6	40.1	60.1





#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.442 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

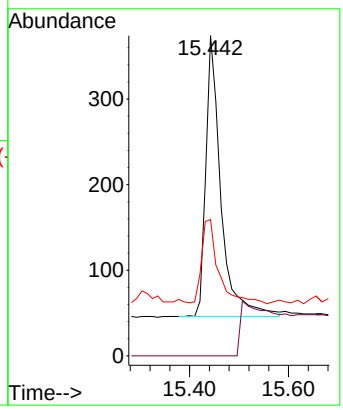
Tgt Ion:330 Resp: 72

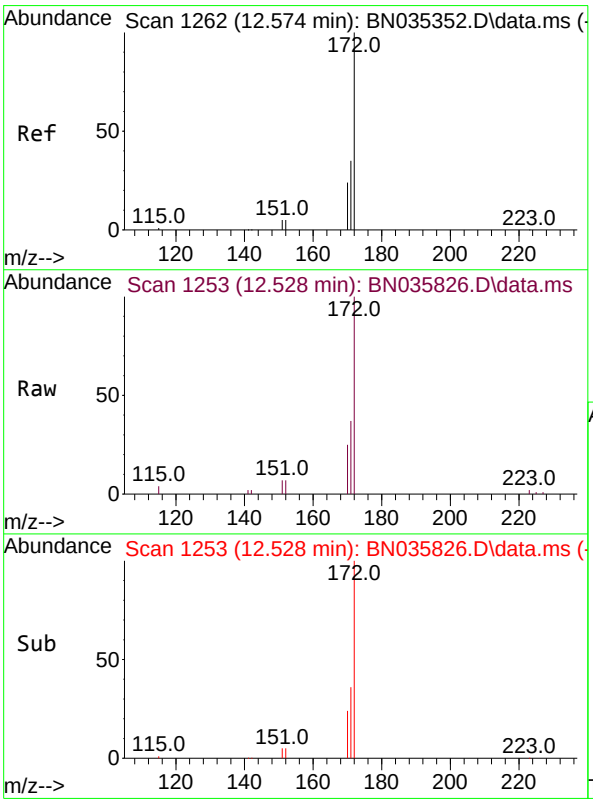
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.2	26.6	40.0

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

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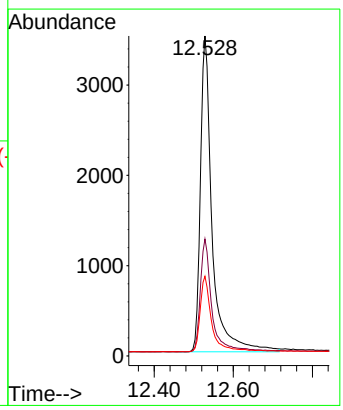


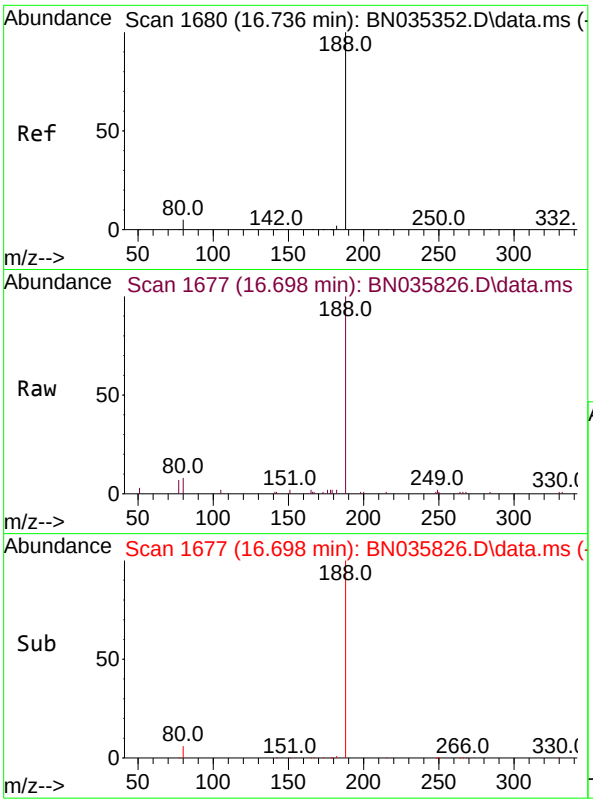


#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:172 Resp: 7227

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.0	43.4
170	24.9	19.8	29.8

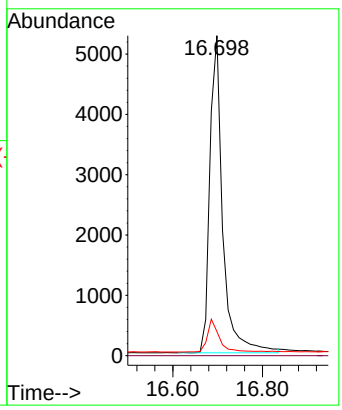




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:188 Resp: 1038

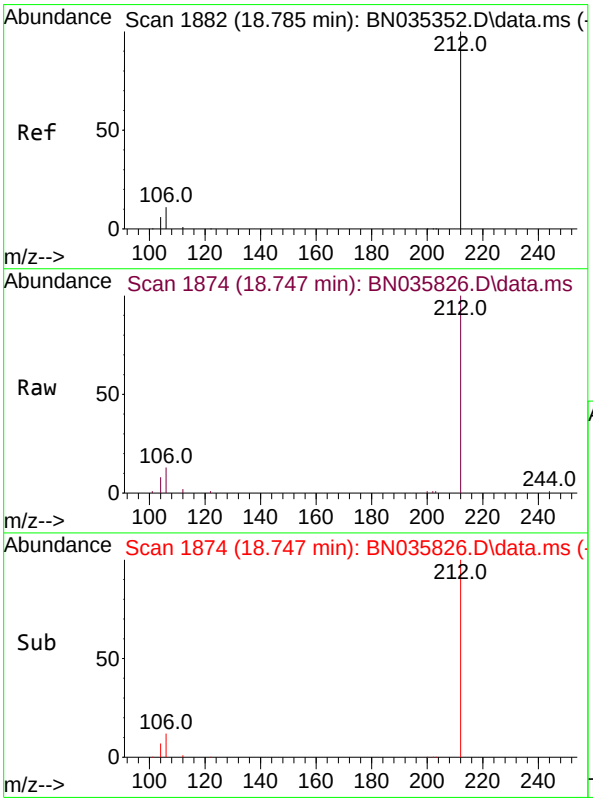
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.6	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

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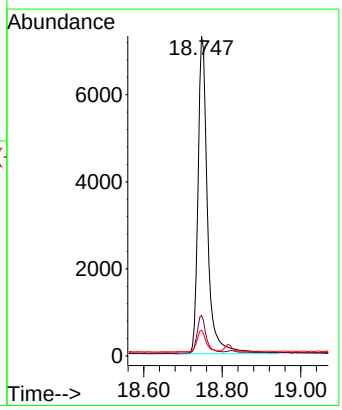
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

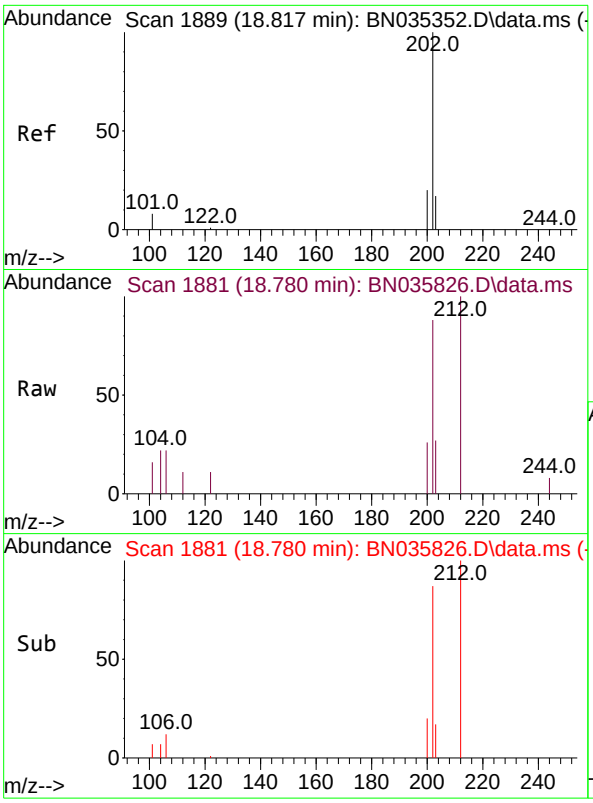


#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:212 Resp: 12295

Ion	Ratio	Lower	Upper
212	100		
106	11.2	9.2	13.8
104	6.3	5.3	7.9





#28
Fluoranthene
Concen: 0.020 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

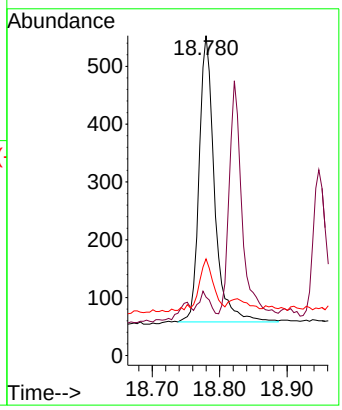
Tgt Ion:202 Resp: 78

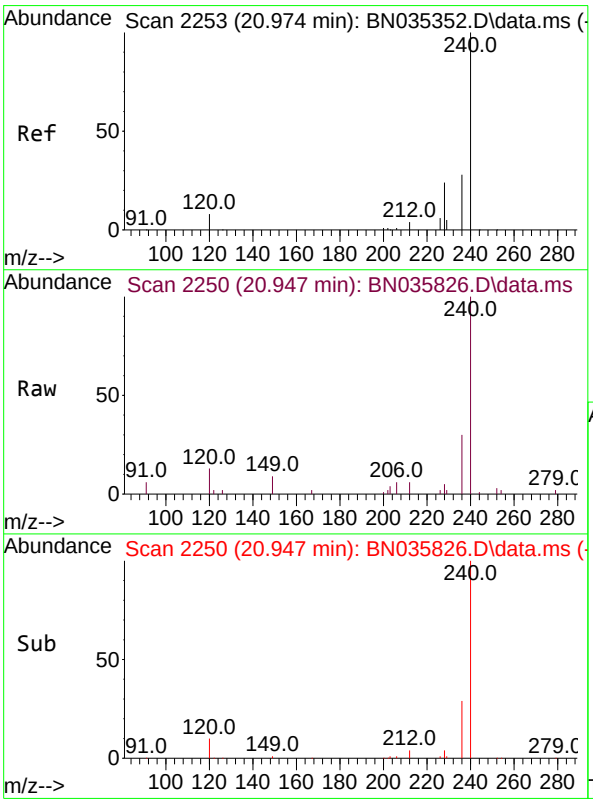
Ion	Ratio	Lower	Upper
202	100		
101	5.5	7.4	11.0#
203	18.2	13.7	20.5

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

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Supervised By :mohammad ahmed 12/26/2024

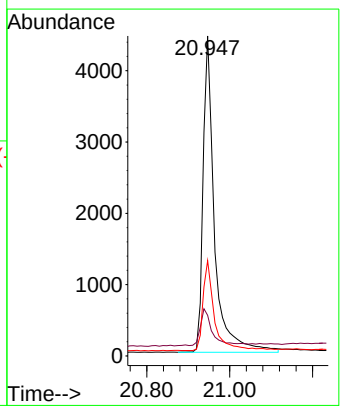


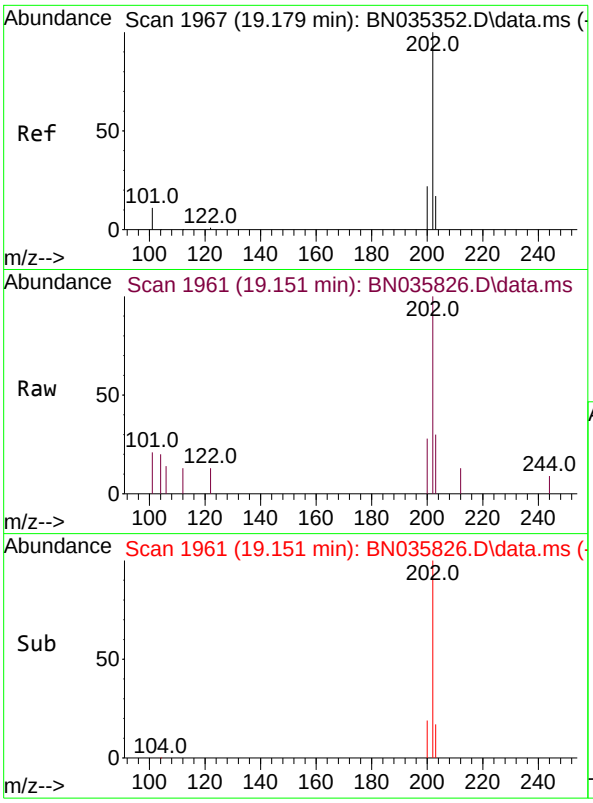


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:240 Resp: 8532

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9#
236	29.8	22.9	34.3

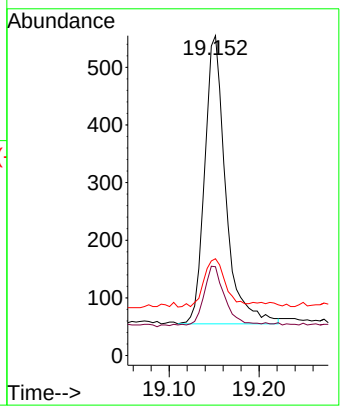




#30
Pyrene
Concen: 0.026 ng
RT: 19.151 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

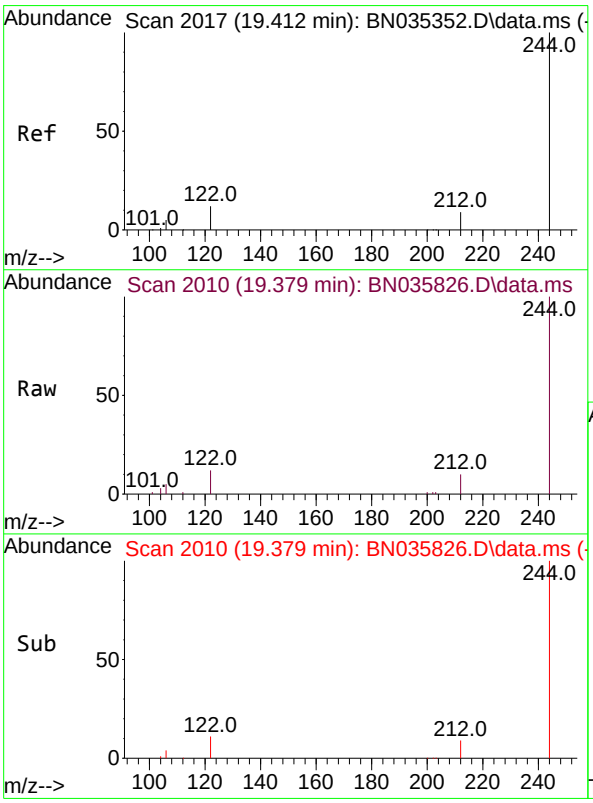
Tgt Ion:202 Resp: 81

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	16.8	14.3	21.5



Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

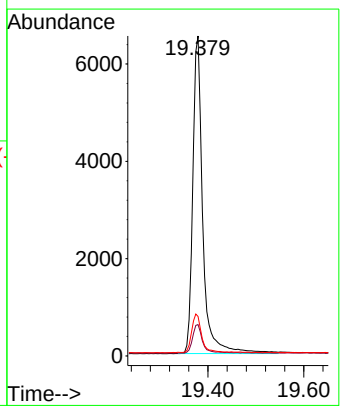
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

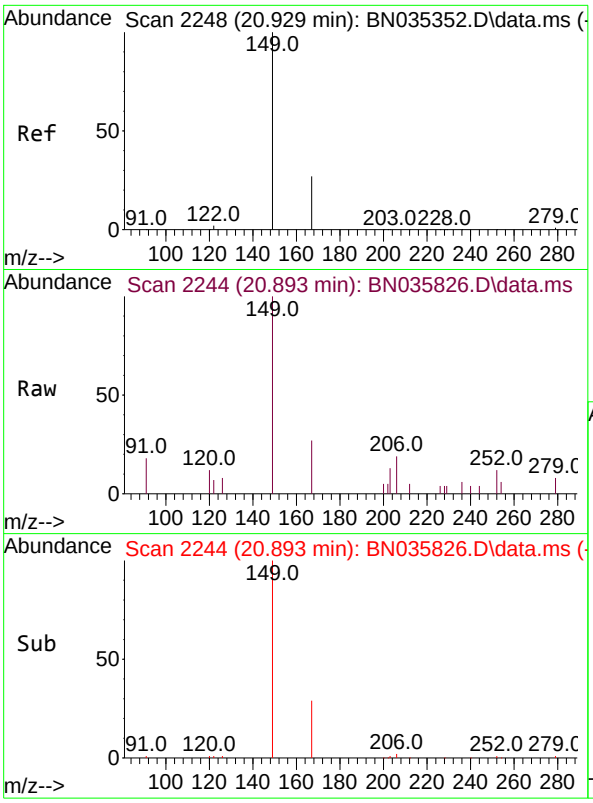


#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:244 Resp: 9489

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	12.3	10.3	15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

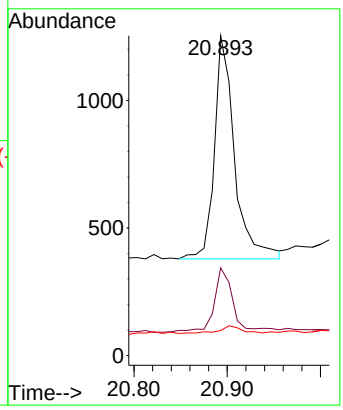
Tgt Ion:149 Resp: 131

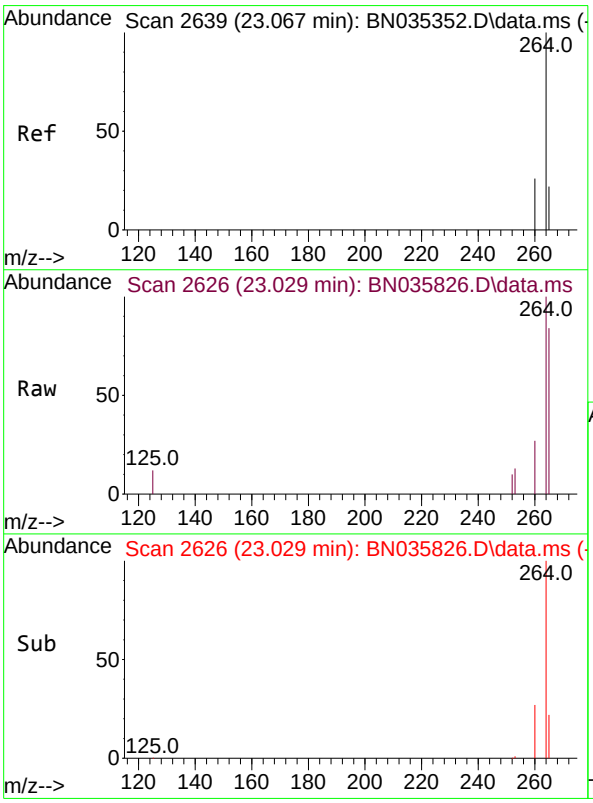
Ion	Ratio	Lower	Upper
149	100		
167	23.5	22.2	33.4
279	3.8	2.7	4.1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

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Supervised By :mohammad ahmed 12/26/2024

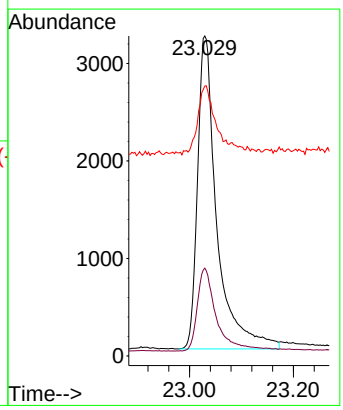




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:264 Resp: 8295

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	84.4	40.2	60.4#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT161S1-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-14	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035827.D	1	12/23/24 13:29	12/24/24 18:29	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		140%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3270	7.264				
1146-65-2	Naphthalene-d8	7880	10.009				
15067-26-2	Acenaphthene-d10	4840	13.924				
1517-22-2	Phenanthrene-d10	9400	16.698				
1719-03-5	Chrysene-d12	7090	20.947				
1520-96-3	Perylene-d12	6740	23.032				

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\BN122324\
Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

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Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:20:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3265	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7883	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4842	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9395	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7091	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6735	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	907	0.111	ng	-0.01
5) Phenol-d6	6.484	99	487	0.050	ng	0.00
8) Nitrobenzene-d5	8.408	82	2033m	0.422	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4487	0.364	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	681	0.198	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7221	0.395	ng	-0.02
27) Fluoranthene-d10	18.747	212	10577	0.397	ng	-0.01
31) Terphenyl-d14	19.379	244	7825	0.559	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1019	0.326	ng	# 95
34) Bis(2-ethylhexyl)phtha...	20.893	149	896	0.091	ng	# 98

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

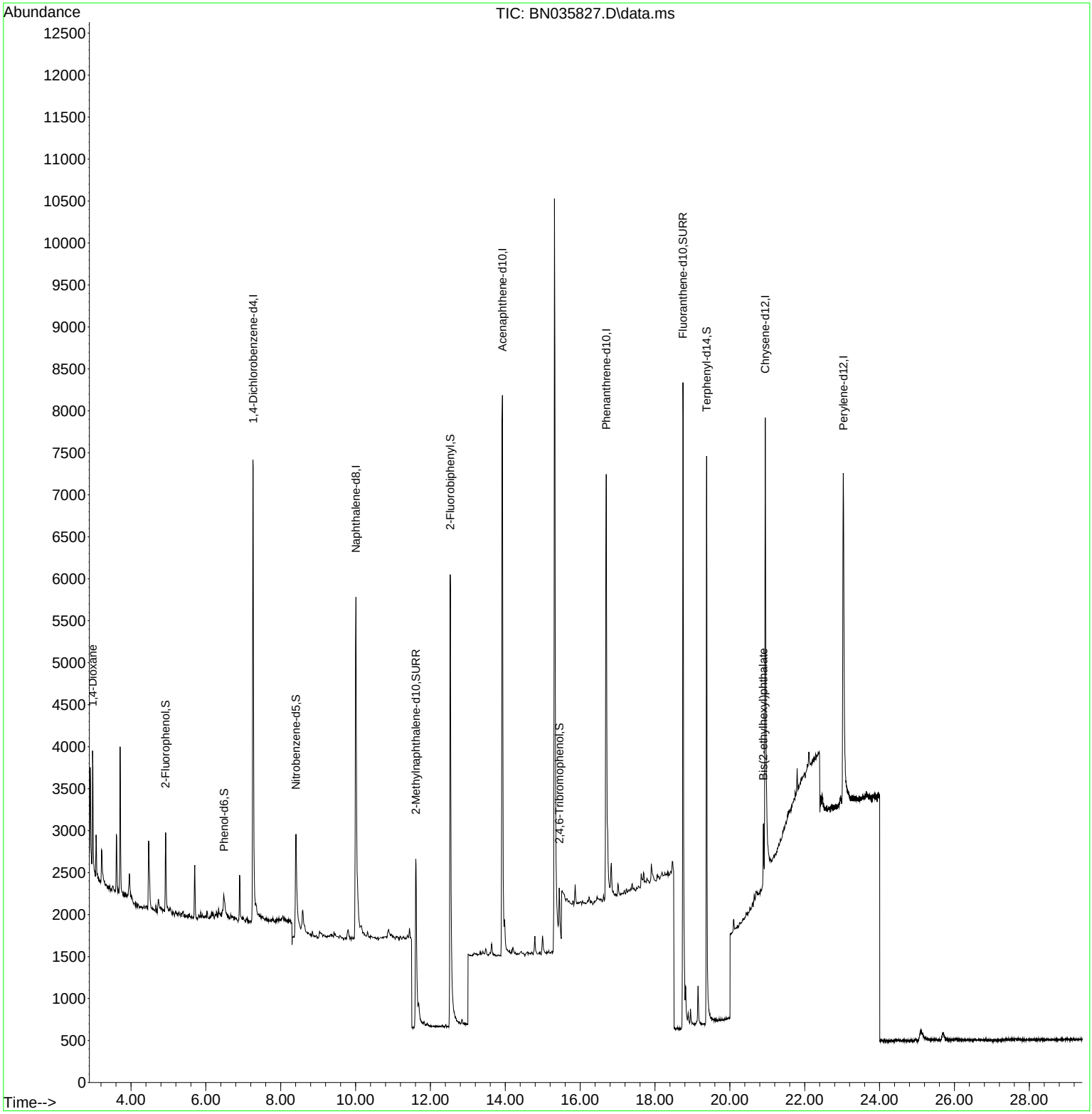
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

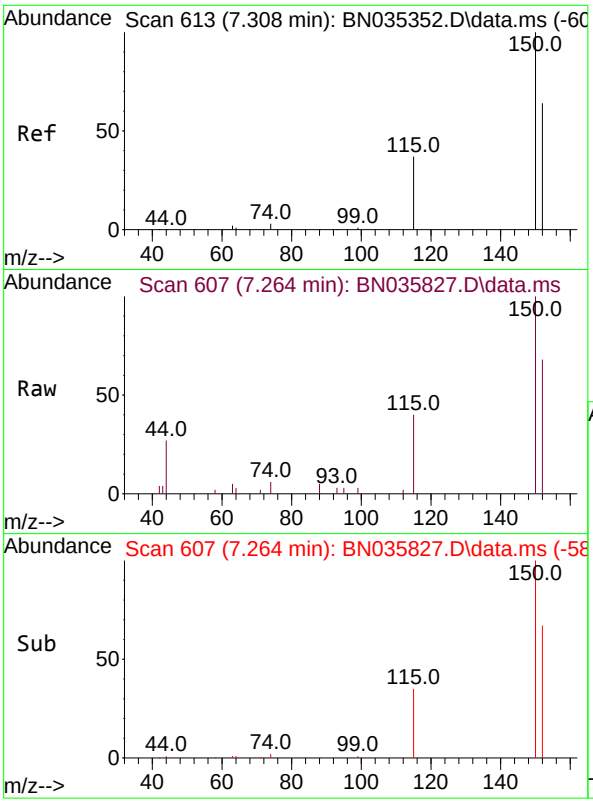
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

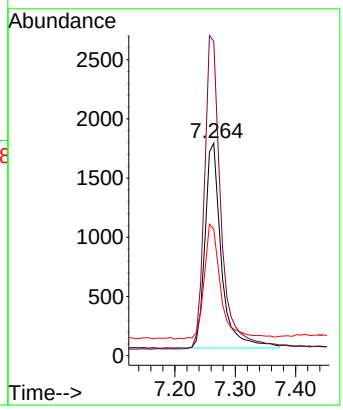




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:152 Resp: 326

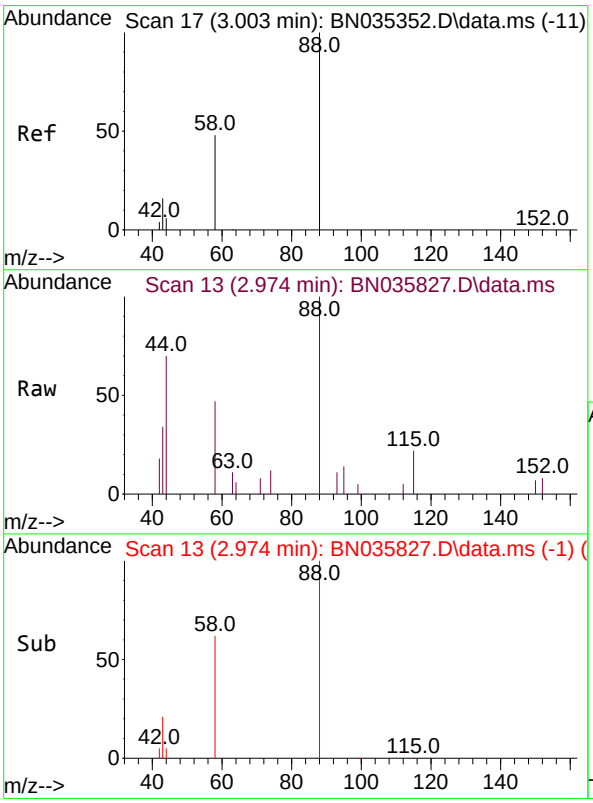
Ion	Ratio	Lower	Upper
152	100		
150	148.0	124.0	186.0
115	59.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Manual Integrations
APPROVED

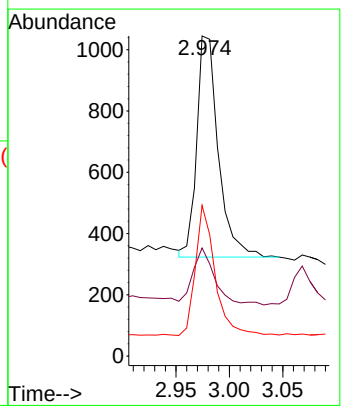
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

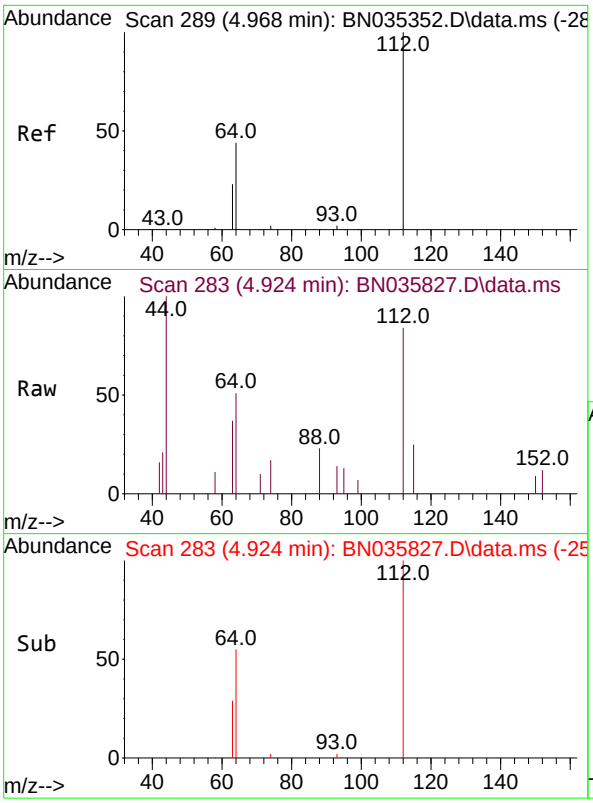


#2
1,4-Dioxane
Concen: 0.326 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 88 Resp: 1019

Ion	Ratio	Lower	Upper
88	100		
43	26.0	17.2	25.8#
58	53.1	44.5	66.7





#4
2-Fluorophenol
Concen: 0.111 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

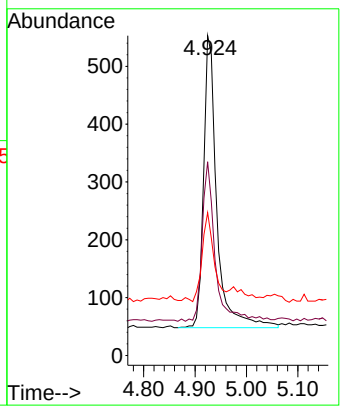
Tgt Ion:112 Resp: 90

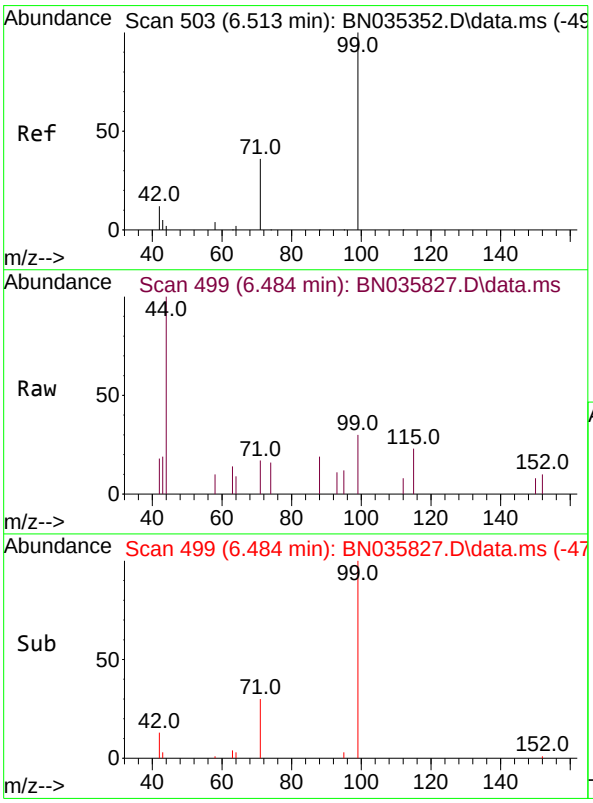
Ion	Ratio	Lower	Upper
112	100		
64	53.8	39.8	59.8
63	26.7	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

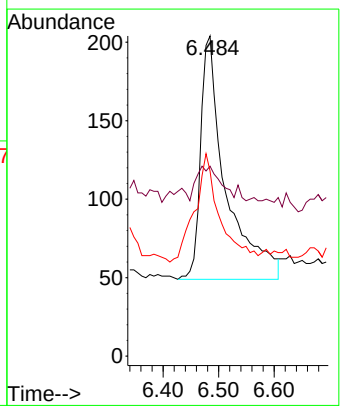


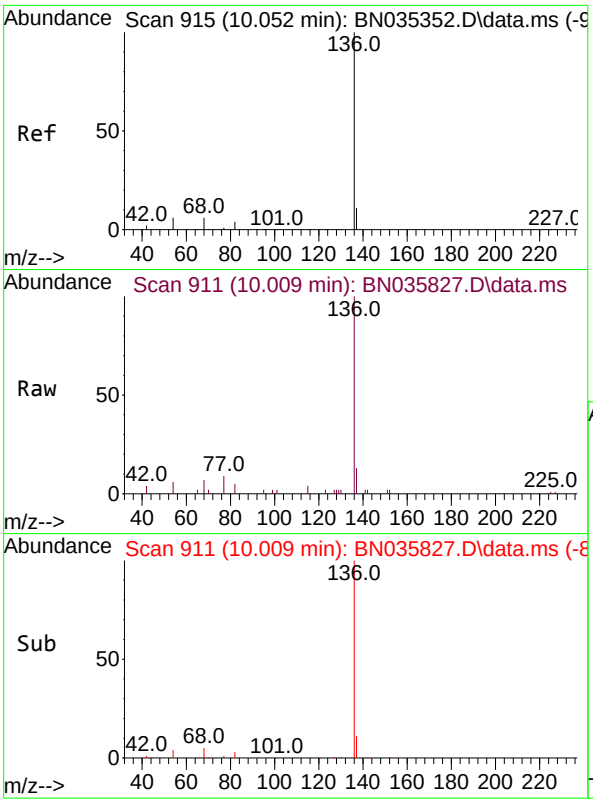


#5
Phenol-d6
Concen: 0.050 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 99 Resp: 487

Ion	Ratio	Lower	Upper
99	100		
42	13.3	11.4	17.2
71	44.6	29.3	43.9#

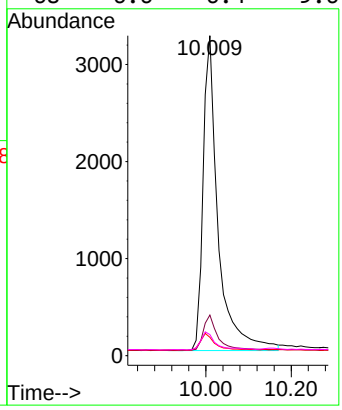




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:136 Resp: 788

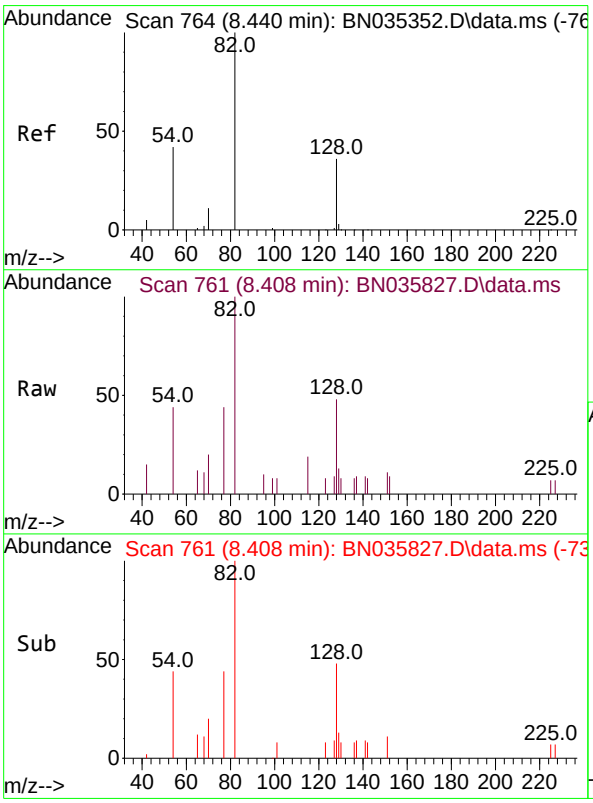
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	5.7	6.1	9.1
68	6.6	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Manual Integrations
APPROVED

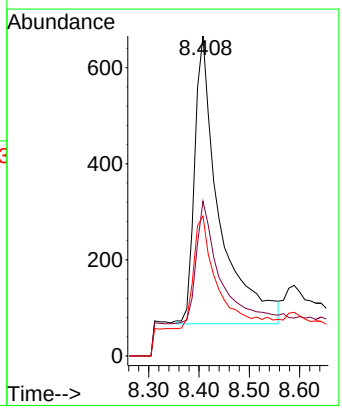
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

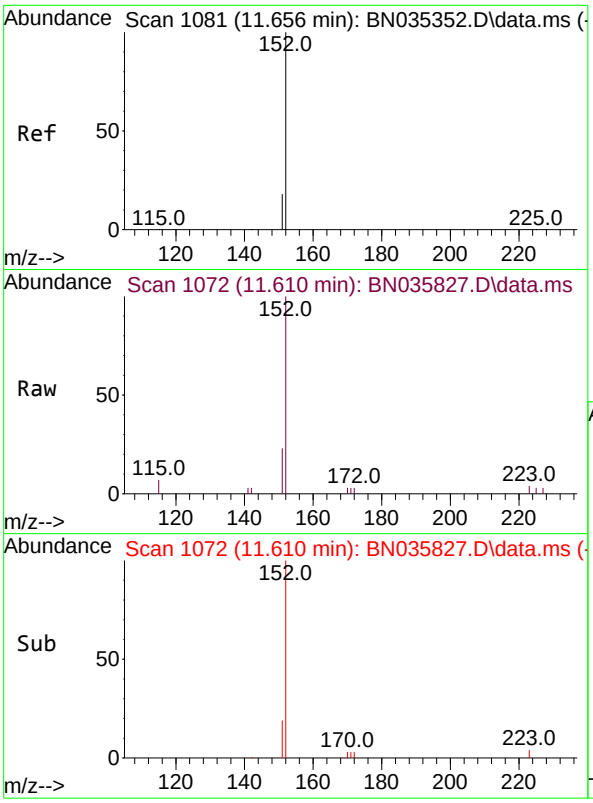


#8
Nitrobenzene-d5
Concen: 0.422 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 82 Resp: 2033

Ion	Ratio	Lower	Upper
82	100		
128	48.3	33.4	50.0
54	43.7	36.7	55.1

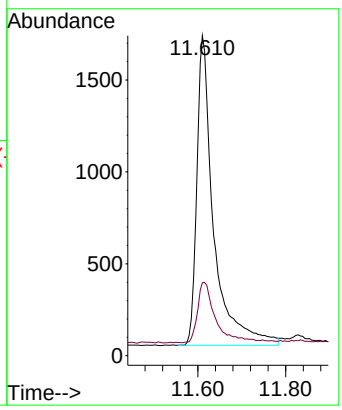




#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:152 Resp: 448

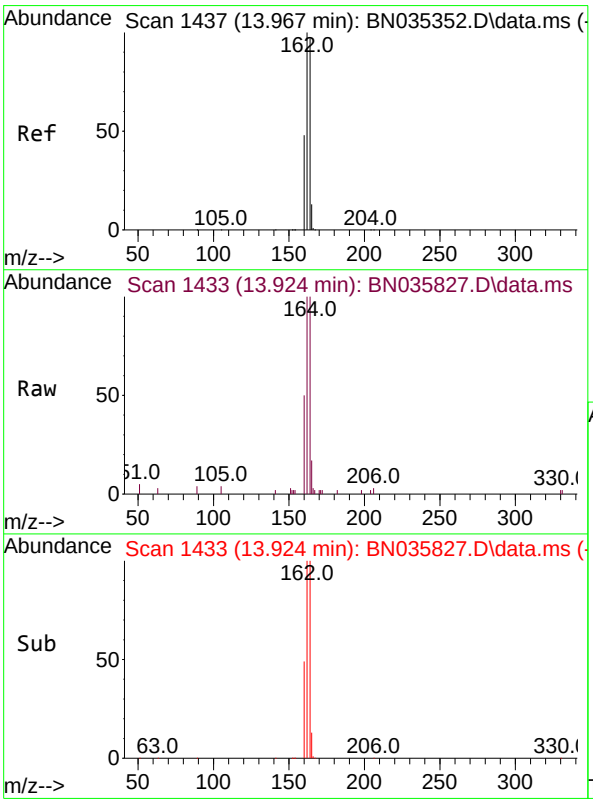
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Manual Integrations
APPROVED

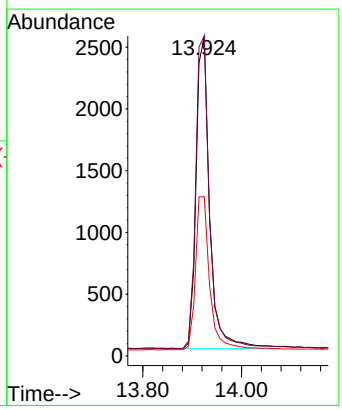
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

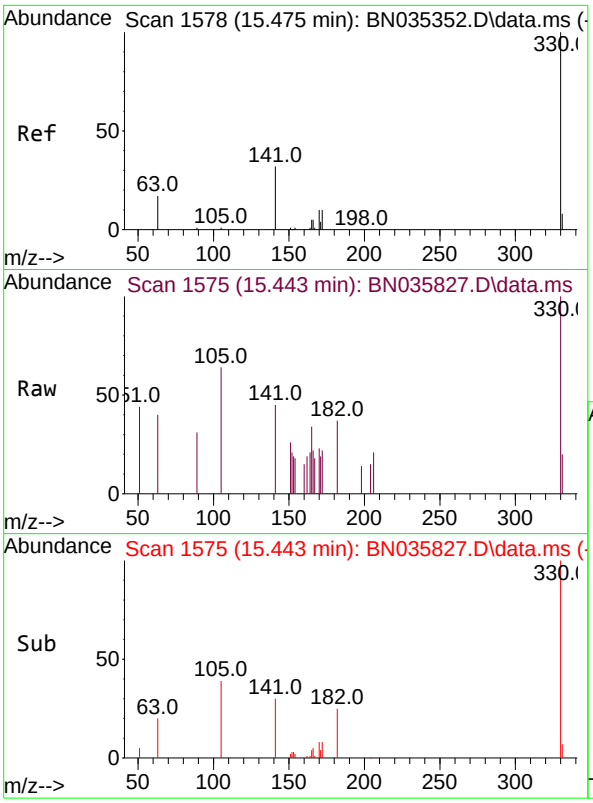


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:164 Resp: 4842

Ion	Ratio	Lower	Upper
164	100		
162	100.3	82.2	123.2
160	49.9	40.1	60.1

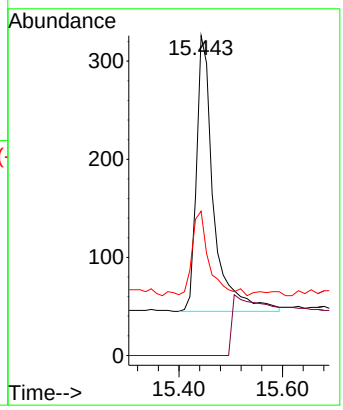




#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

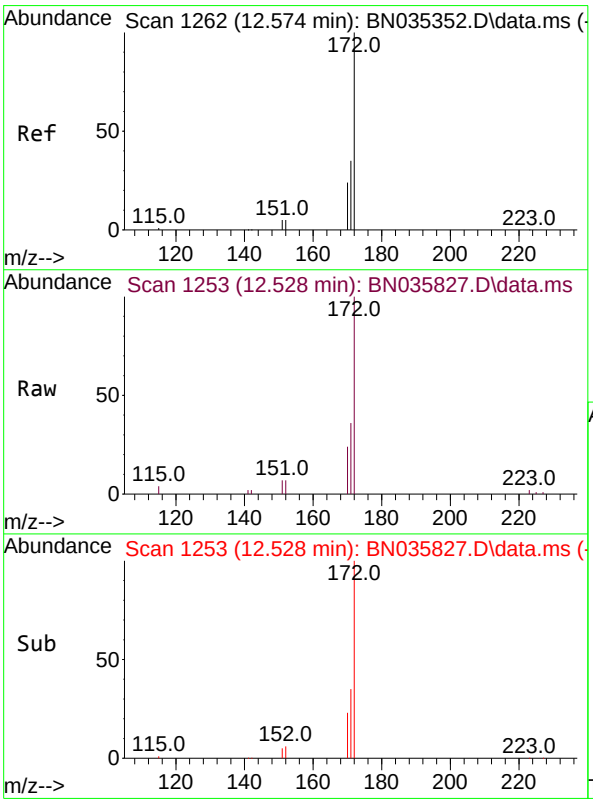
Tgt Ion:330 Resp: 68

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.8	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

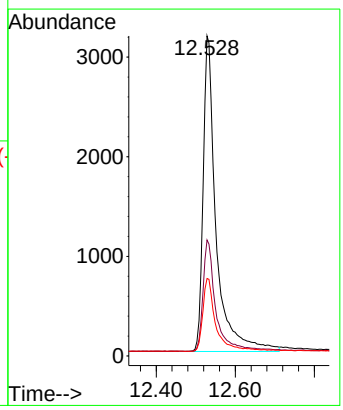
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

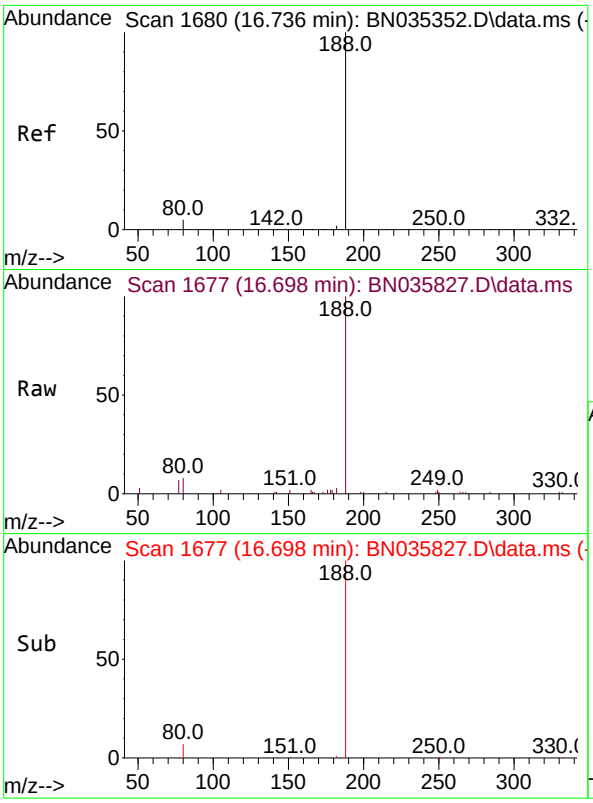


#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:172 Resp: 7221

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.2	19.8	29.8

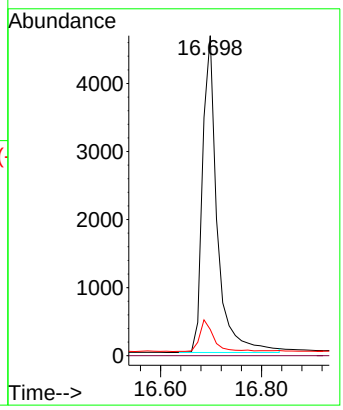




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:188 Resp: 939

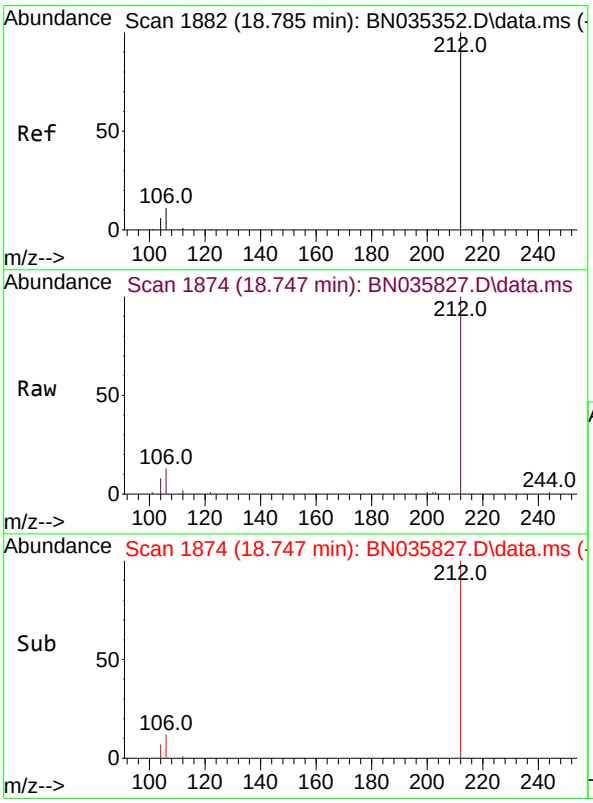
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.2	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Manual Integrations
APPROVED

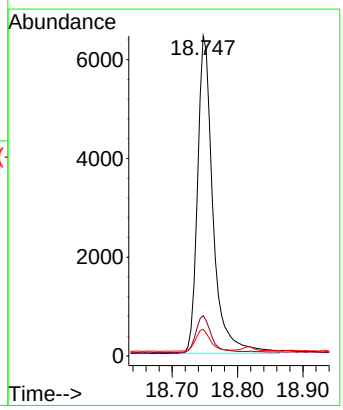
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

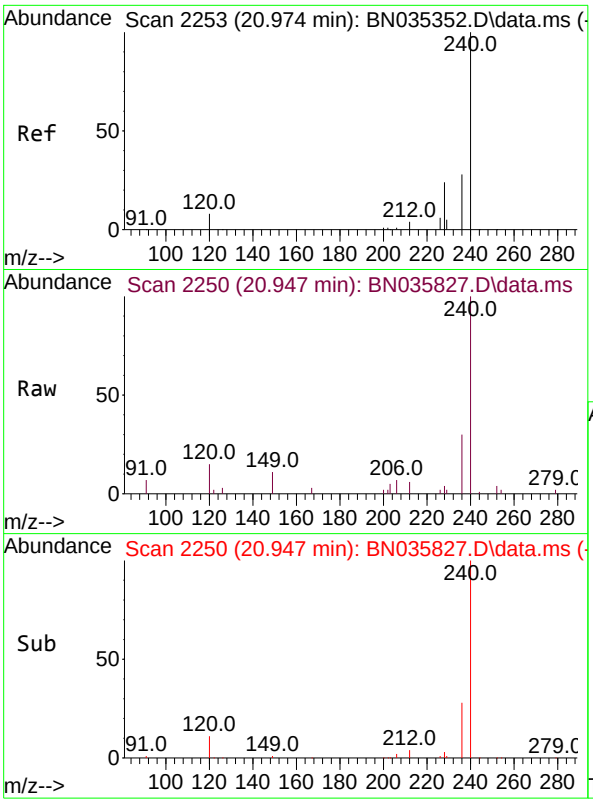


#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:212 Resp: 10577

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	6.7	5.3	7.9

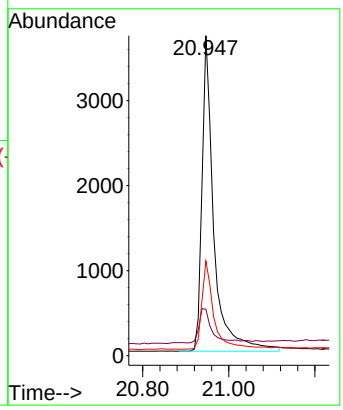




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:240 Resp: 709

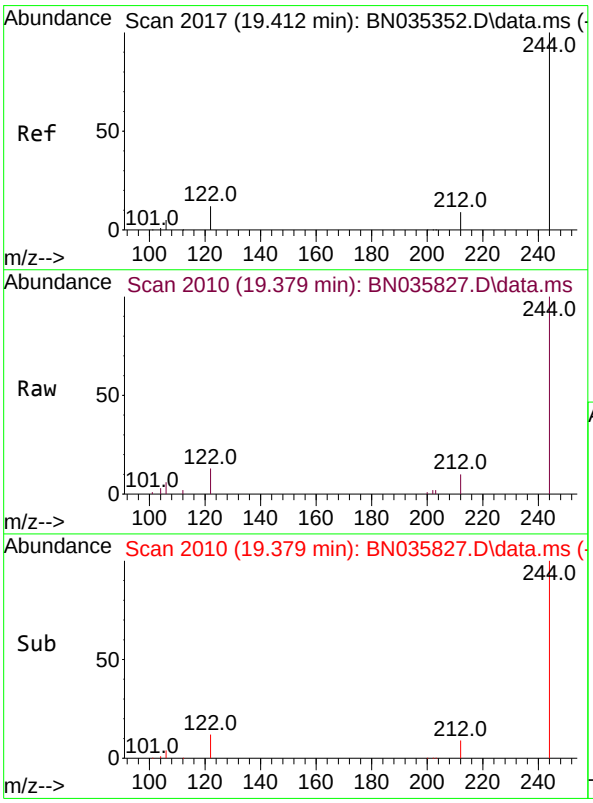
Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9
236	29.6	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Manual Integrations
APPROVED

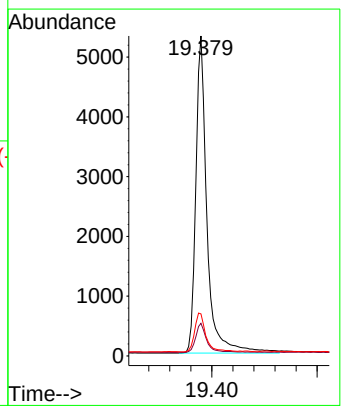
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

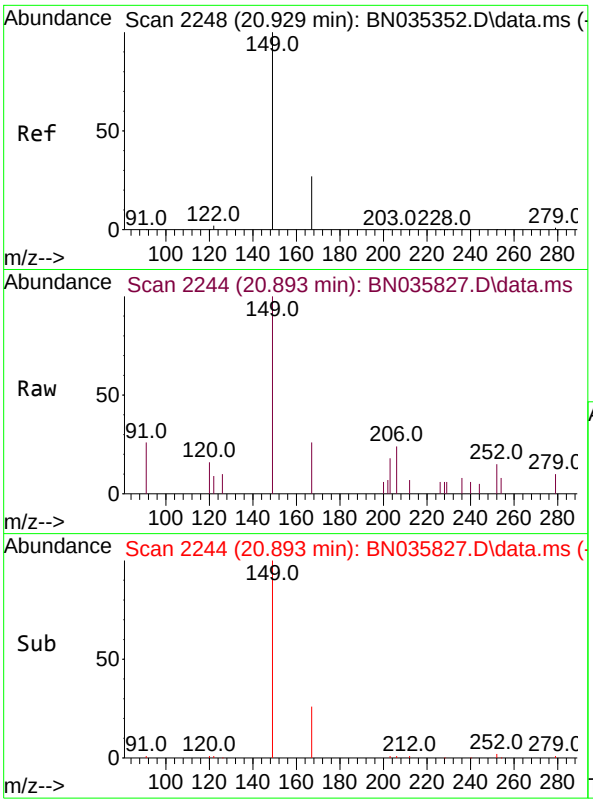


#31
Terphenyl-d14
Concen: 0.559 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:244 Resp: 7825

Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	13.1	10.3	15.5

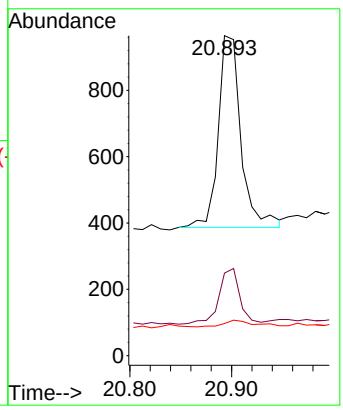




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

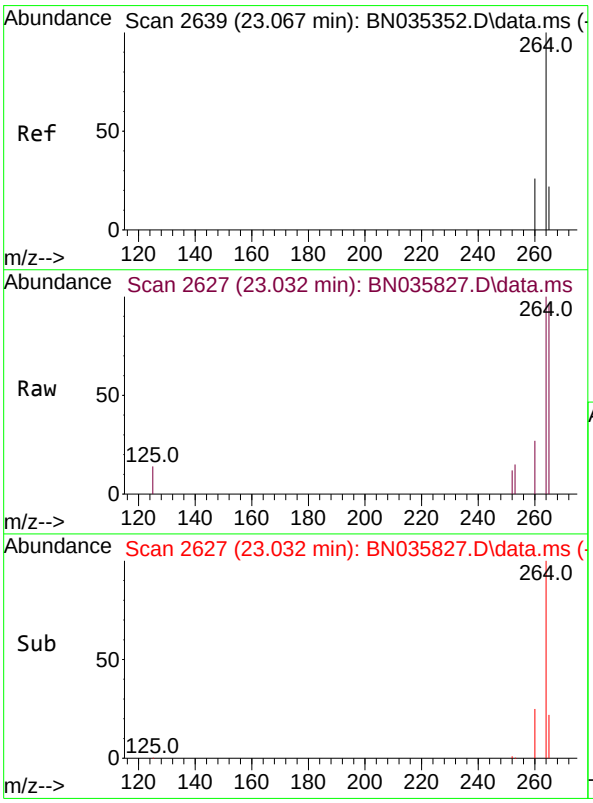
Tgt Ion:149 Resp: 89

Ion	Ratio	Lower	Upper
149	100		
167	26.8	22.2	33.4
279	4.6	2.7	4.1#



Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

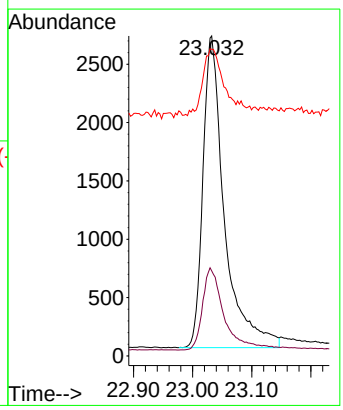
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:264 Resp: 6735

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.4	32.2
265	95.8	40.2	60.4#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT162S1-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-15	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035847.D	1	12/23/24 13:29	12/26/24 11:20	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.34		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.46	*	55 - 111		114%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3700	7.257				
1146-65-2	Naphthalene-d8	8880	9.999				
15067-26-2	Acenaphthene-d10	5150	13.914				
1517-22-2	Phenanthrene-d10	10600	16.686				
1719-03-5	Chrysene-d12	8140	20.947				
1520-96-3	Perylene-d12	8010	23.026				

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\BN122624\
Data File : BN035847.D
Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:40:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3703	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	8876	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	5154	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10596	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	8138	0.400	ng	0.00
35) Perylene-d12	23.026	264	8007	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.917	112	1078	0.116	ng	-0.02
5) Phenol-d6	6.470	99	611	0.055	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2468m	0.455	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	4895	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	808	0.221	ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	7648	0.393	ng	-0.02
27) Fluoranthene-d10	18.747	212	11741	0.391	ng	-0.01
31) Terphenyl-d14	19.375	244	8616	0.537	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1214	0.343	ng	98
30) Pyrene	19.147	202	618	0.021	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	1284	0.114	ng	# 96

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

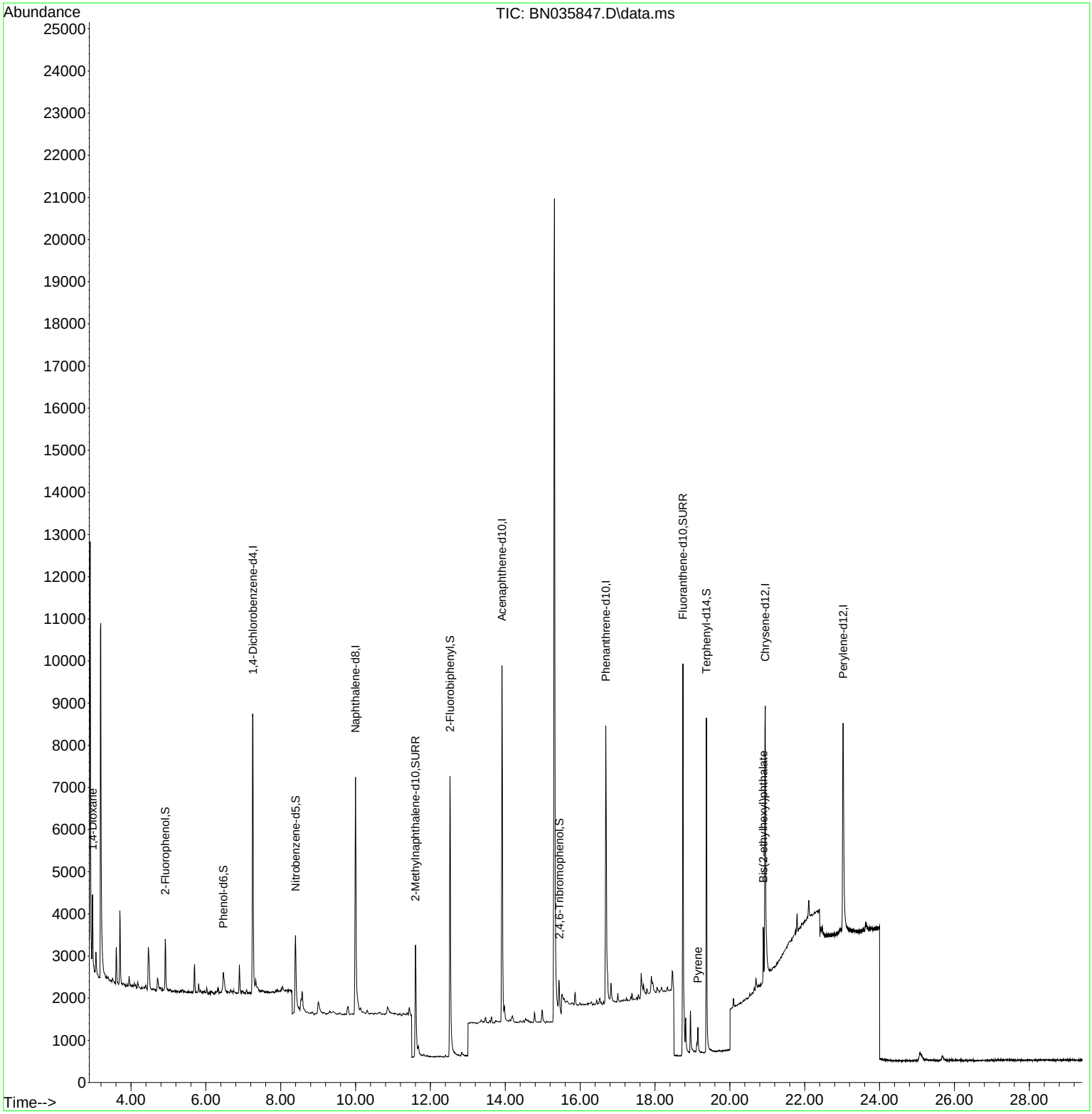
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Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

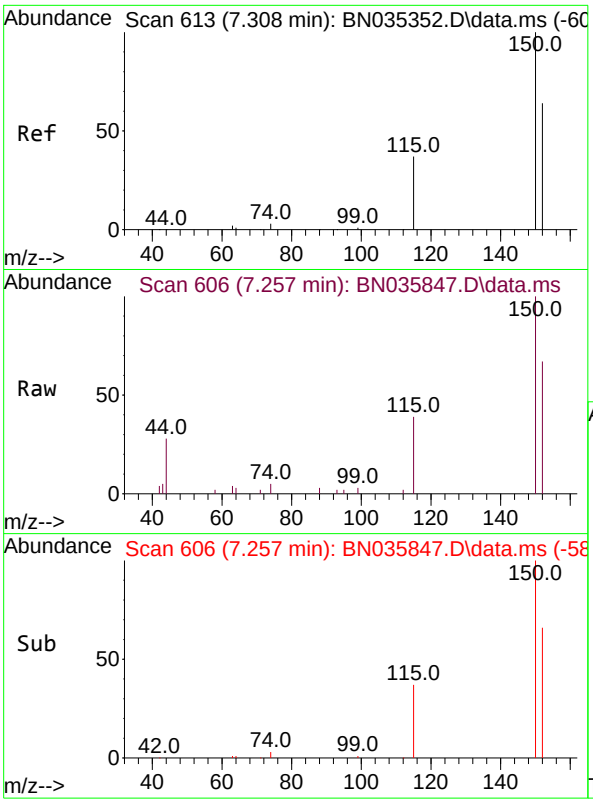
Quant Time: Dec 27 00:40:32 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations APPROVED

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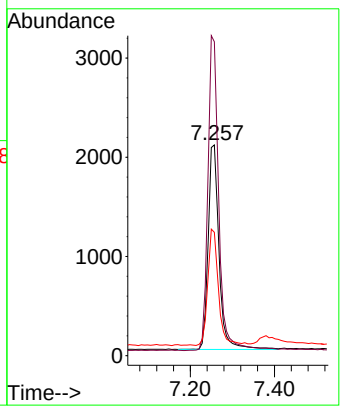




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:152 Resp: 370

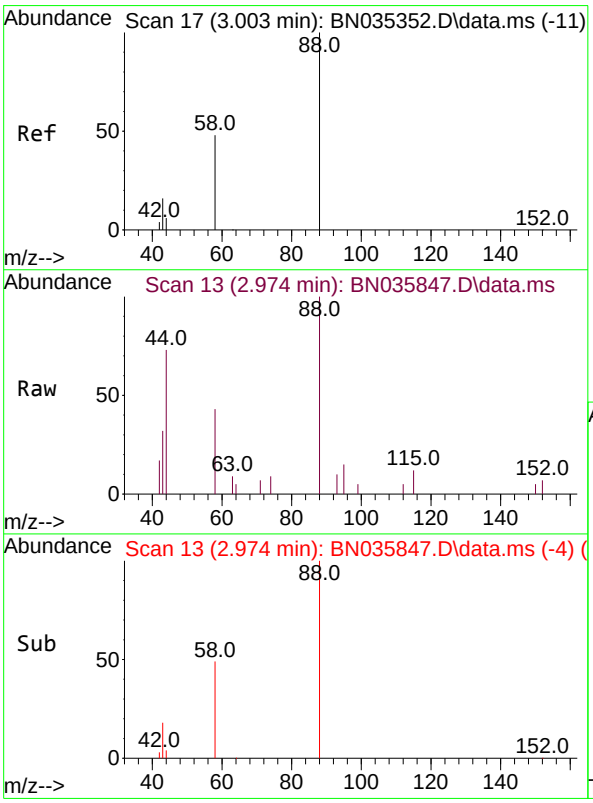
Ion	Ratio	Lower	Upper
152	100		
150	148.9	124.0	186.0
115	58.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations
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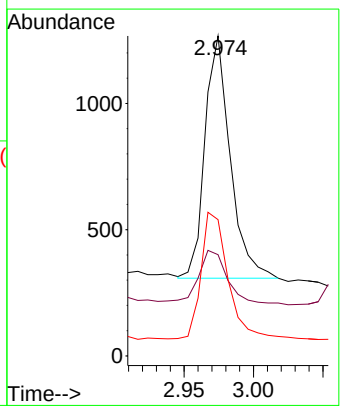
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

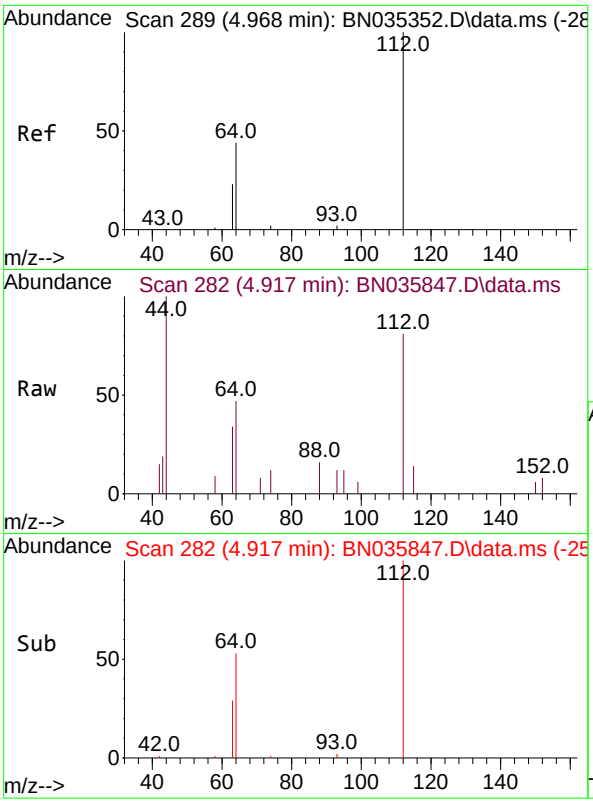


#2
1,4-Dioxane
Concen: 0.343 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 88 Resp: 1214

Ion	Ratio	Lower	Upper
88	100		
43	24.0	17.2	25.8
58	55.2	44.5	66.7





#4
2-Fluorophenol
Concen: 0.116 ng
RT: 4.917 min Scan# 2
Delta R.T. -0.022 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

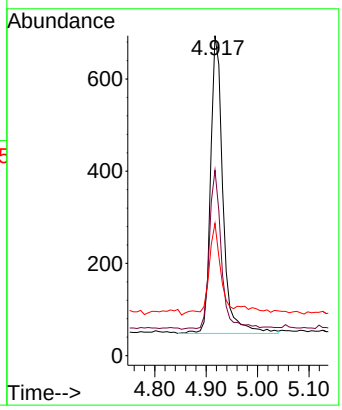
Tgt Ion:112 Resp: 107

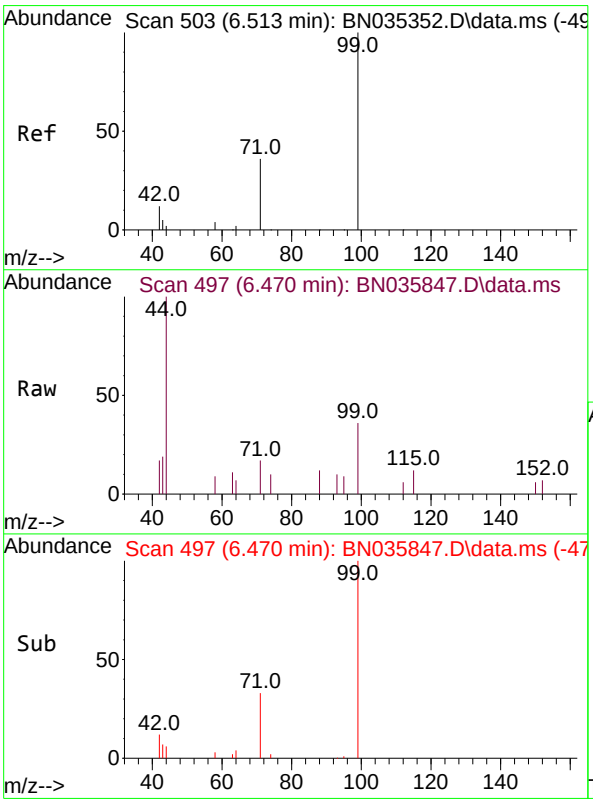
Ion	Ratio	Lower	Upper
112	100		
64	52.5	39.8	59.8
63	29.4	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024
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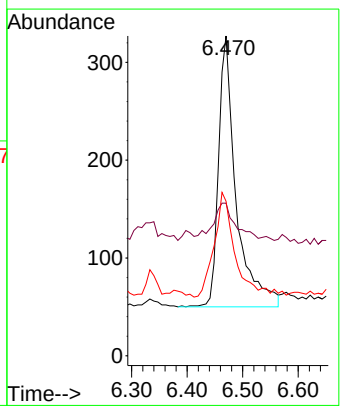


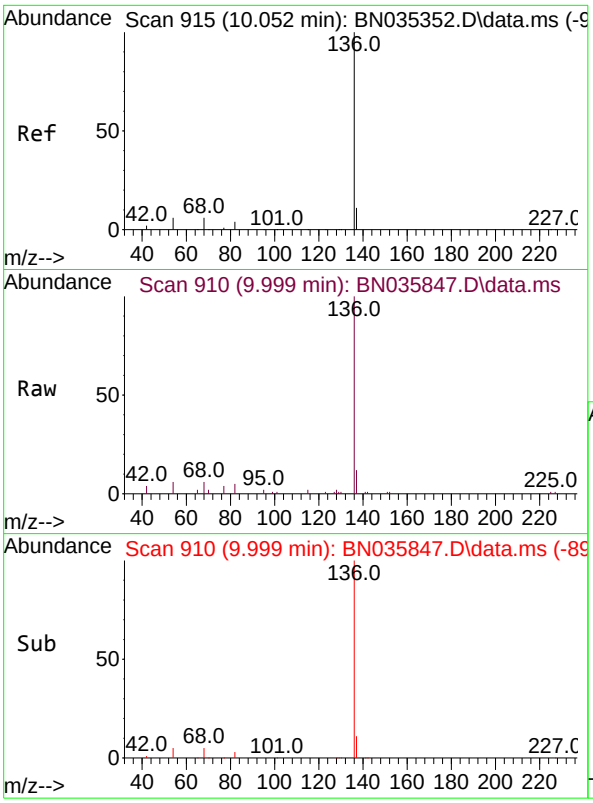


#5
Phenol-d6
Concen: 0.055 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 99 Resp: 611

Ion	Ratio	Lower	Upper
99	100		
42	20.9	11.4	17.2#
71	46.6	29.3	43.9#

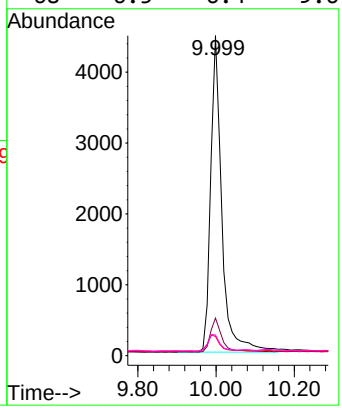




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

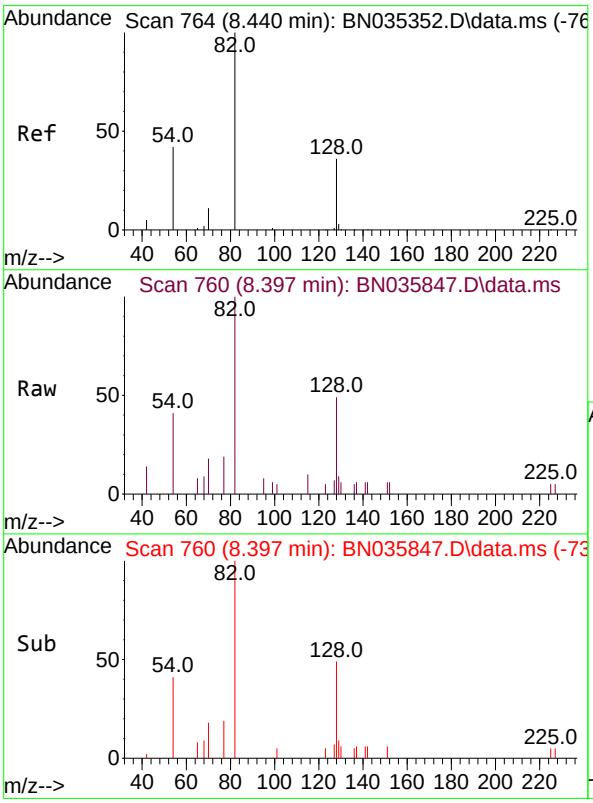
Tgt Ion:136 Resp: 887

Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.2	15.2
54	6.0	6.1	9.1#
68	6.5	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

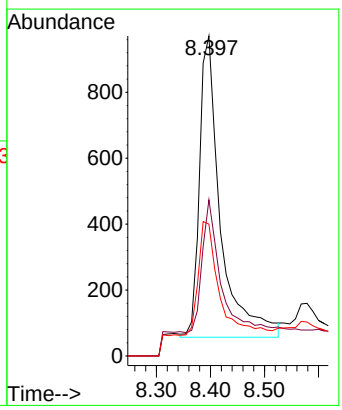
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

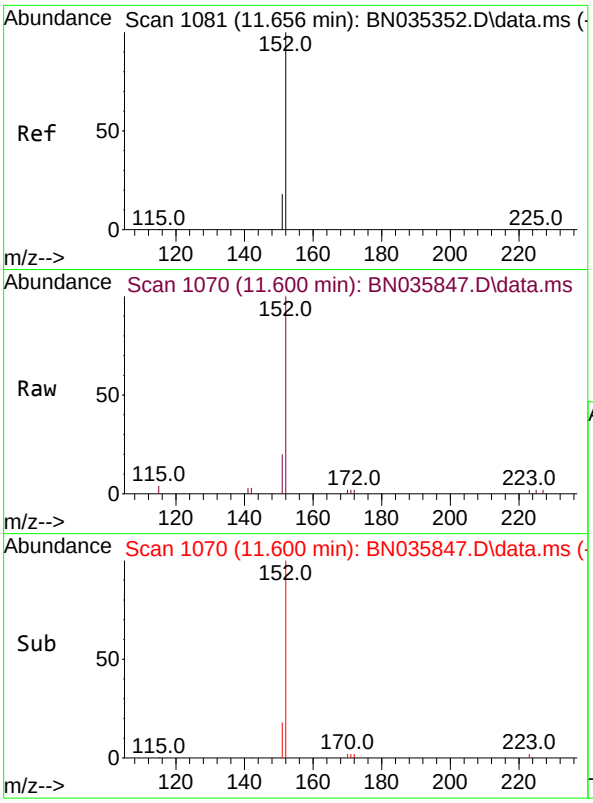


#8
Nitrobenzene-d5
Concen: 0.455 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 82 Resp: 2468

Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	41.2	36.7	55.1

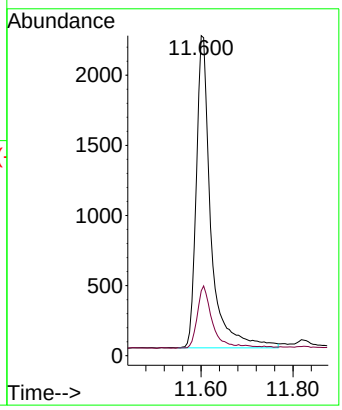




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:152 Resp: 489

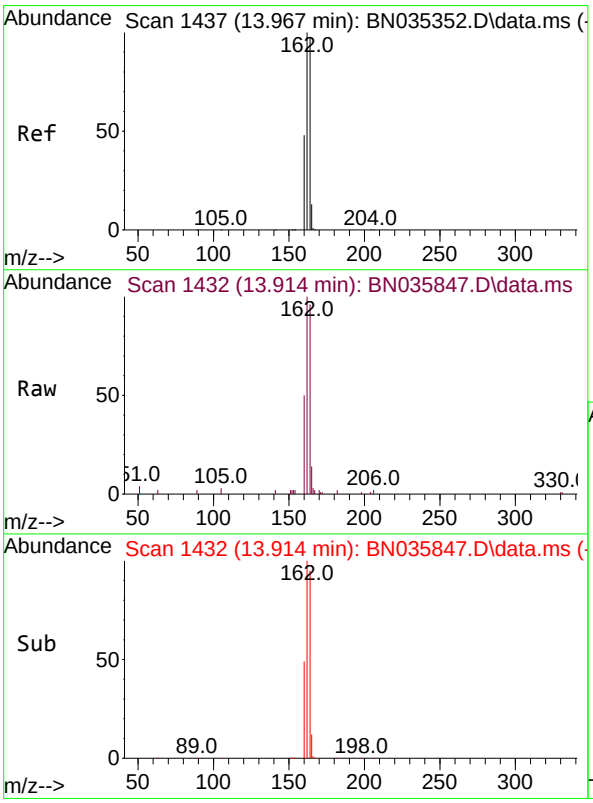
Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations
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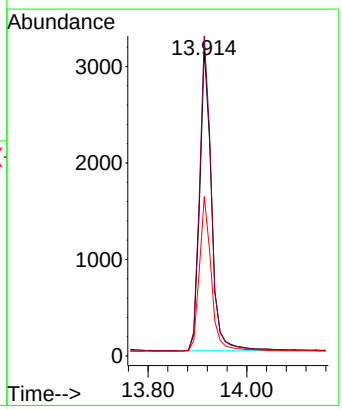
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

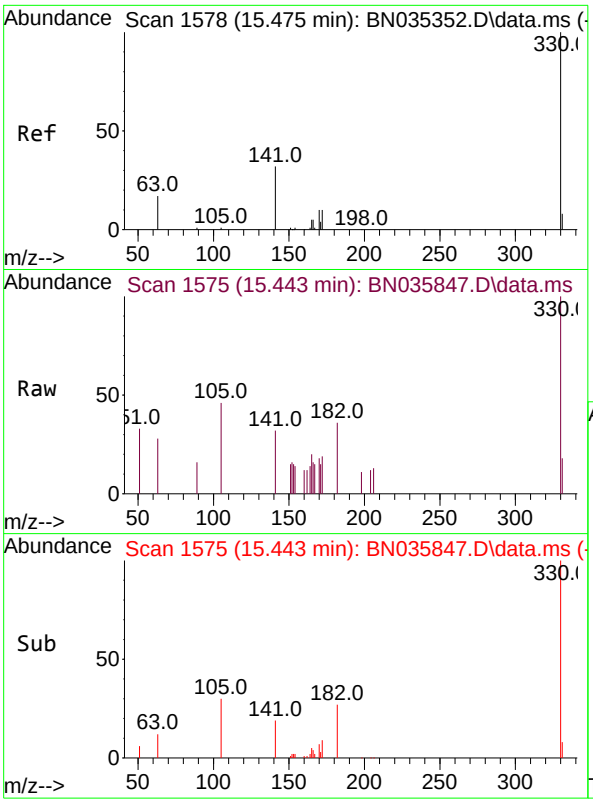


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:164 Resp: 5154

Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.2	123.2
160	52.0	40.1	60.1





#14
2,4,6-Tribromophenol
Concen: 0.221 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

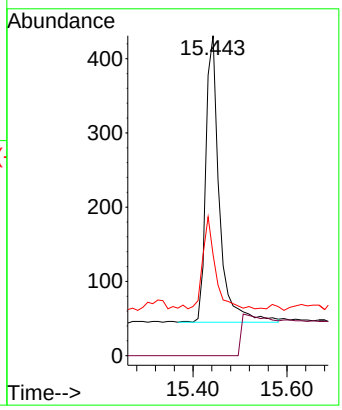
Tgt Ion:330 Resp: 80

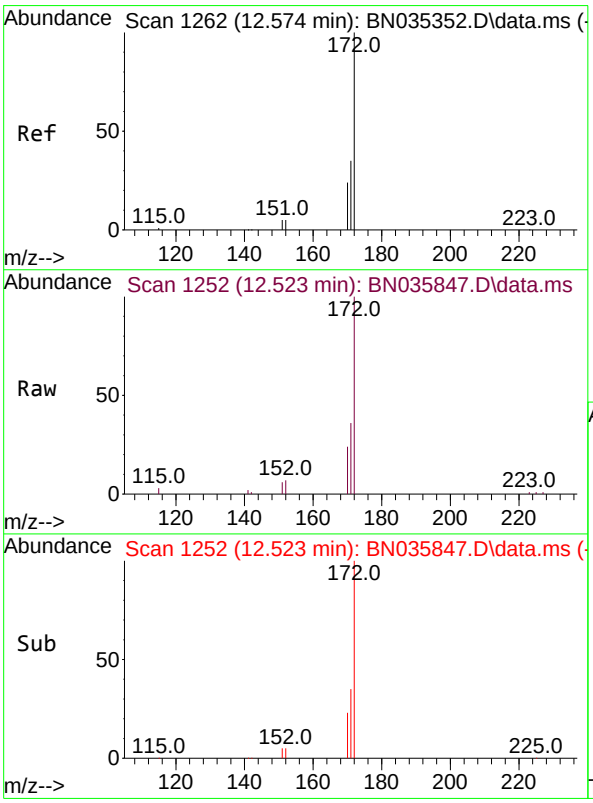
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.6	26.6	40.0

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024
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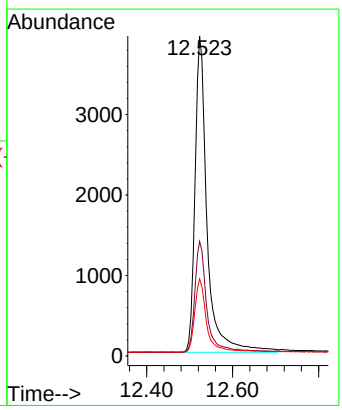


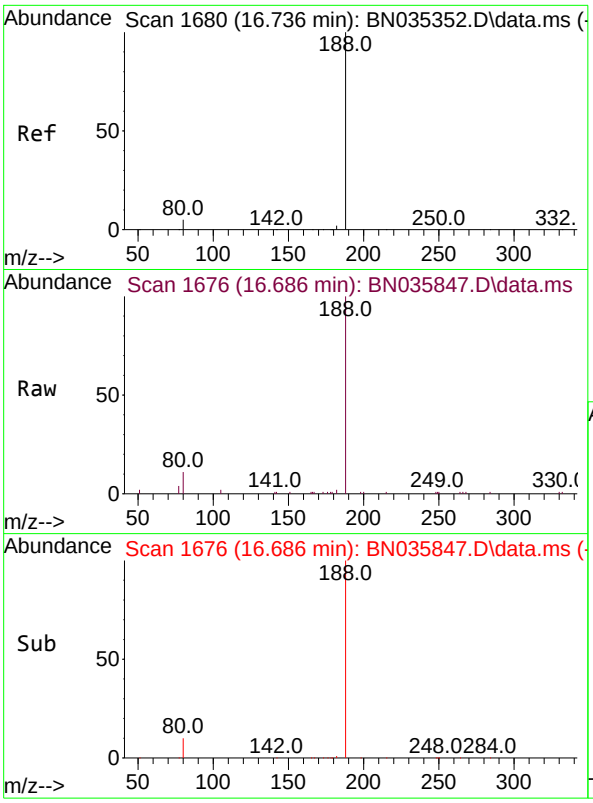


#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.523 min Scan# 1252
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:172 Resp: 7648

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	24.1	19.8	29.8

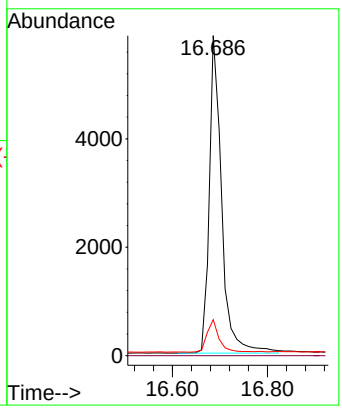




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:188 Resp: 1059(

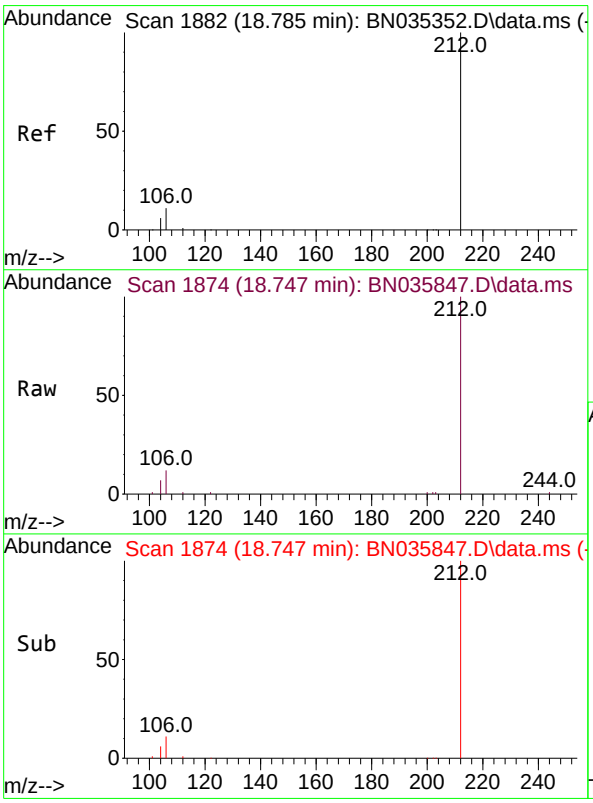
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.2	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations
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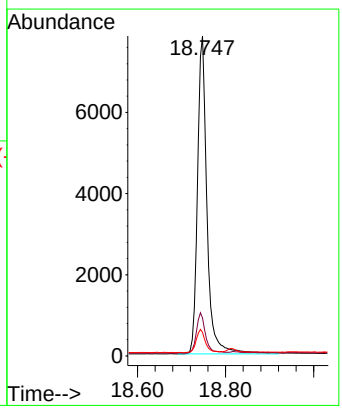
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

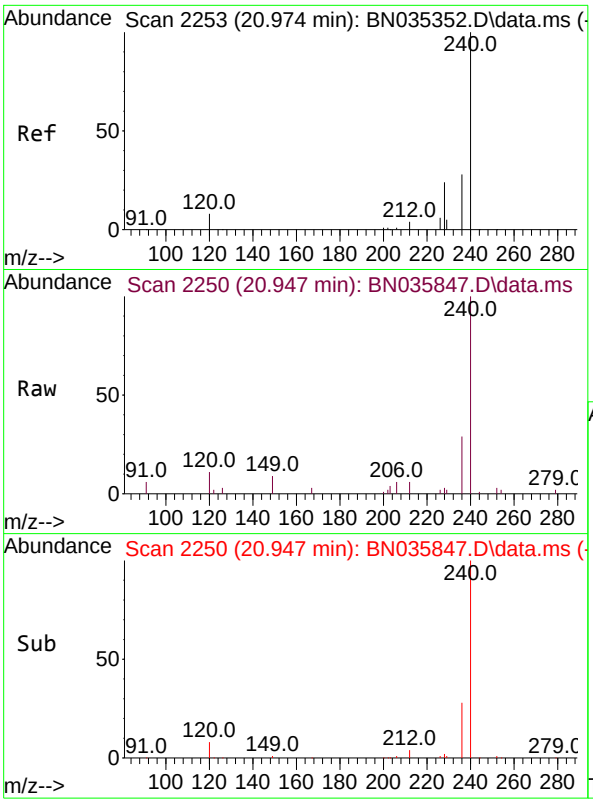


#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:212 Resp: 11741

Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.2	13.8
104	6.9	5.3	7.9

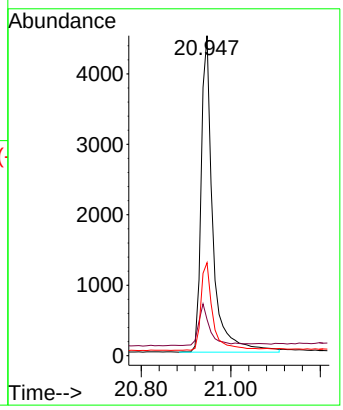




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:240 Resp: 813

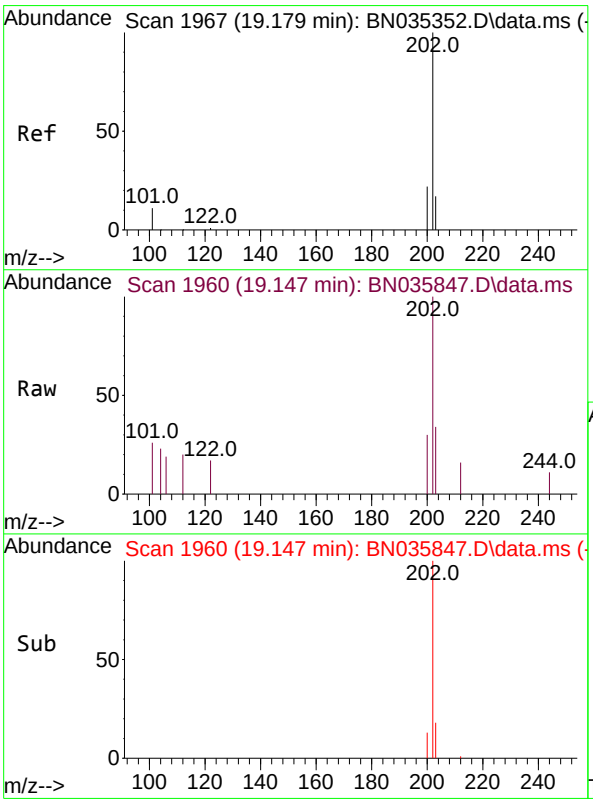
Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	29.1	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations APPROVED

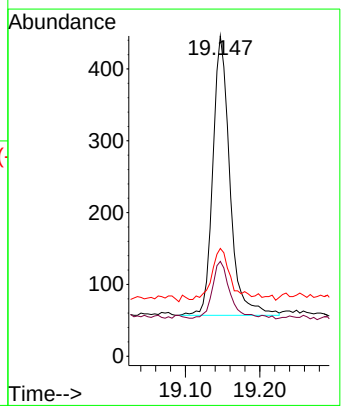
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

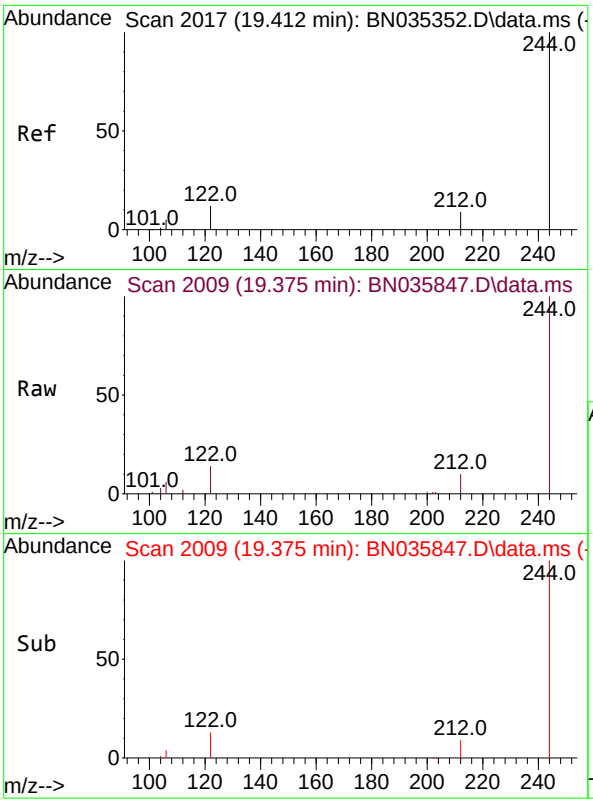


#30
Pyrene
Concen: 0.021 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:202 Resp: 618

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	20.2	14.3	21.5

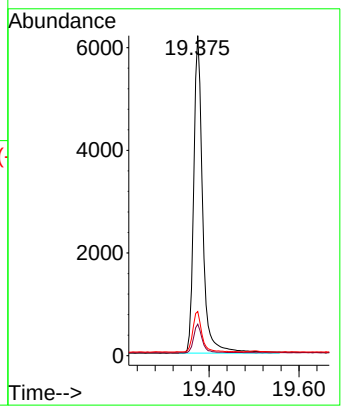




#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.375 min Scan# 2(
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:244 Resp: 861(

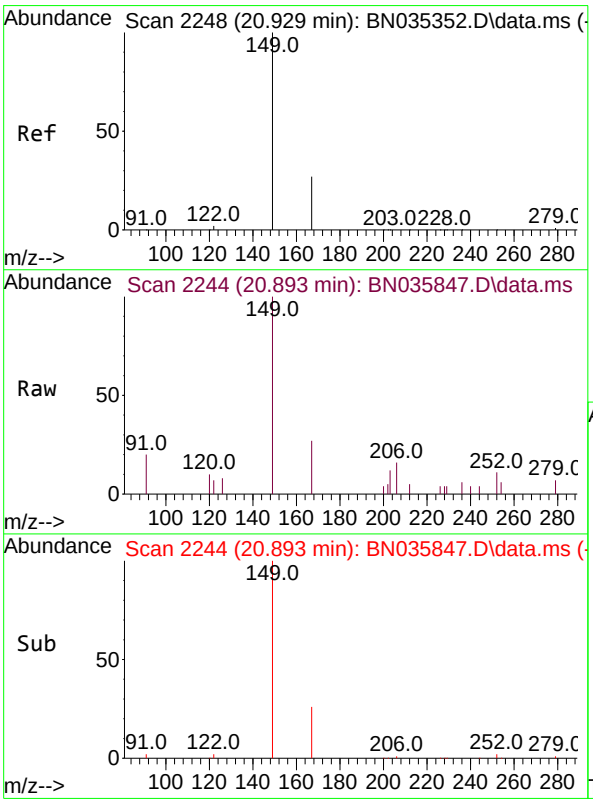
Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	13.8	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations
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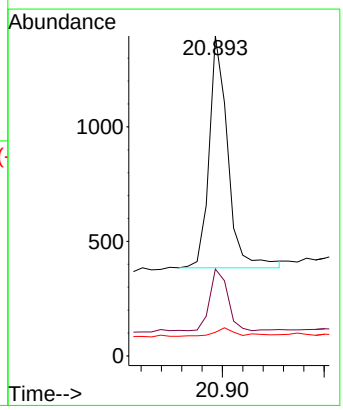
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

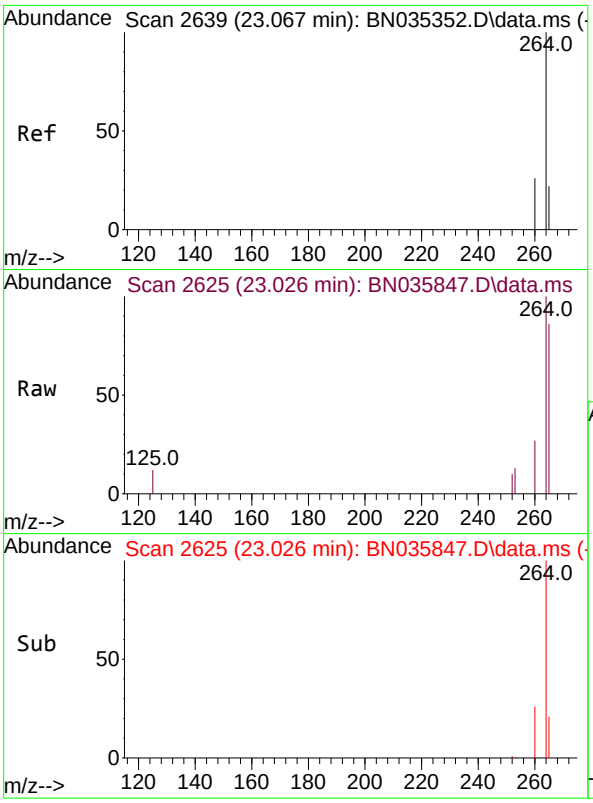


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:149 Resp: 1284

Ion	Ratio	Lower	Upper
149	100		
167	25.5	22.2	33.4
279	4.3	2.7	4.1#

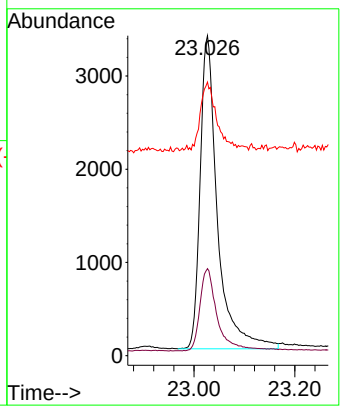




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:264 Resp: 800

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	85.5	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW11-MW01S-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-16	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035833.D	1	12/23/24 13:29	12/24/24 23:18	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.16	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3280	7.257				
1146-65-2	Naphthalene-d8	7720	10.009				
15067-26-2	Acenaphthene-d10	4820	13.914				
1517-22-2	Phenanthrene-d10	10000	16.698				
1719-03-5	Chrysene-d12	8070	20.947				
1520-96-3	Perylene-d12	7780	23.026				

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\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3277	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7724	0.400	ng	#-0.01
13) Acenaphthene-d10	13.914	164	4815	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10024	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8069	0.400	ng	0.00
35) Perylene-d12	23.026	264	7784	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	965	0.118	ng	-0.01
5) Phenol-d6	6.477	99	504	0.051	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1978m	0.419	ng	0.00
11) 2-Methylnaphthalene-d10	11.605	152	4512	0.373	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	723	0.212	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7112	0.391	ng	-0.02
27) Fluoranthene-d10	18.747	212	11675	0.411	ng	-0.01
31) Terphenyl-d14	19.375	244	8422	0.529	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	506	0.162	ng	# 77
25) Phenanthrene	16.736	178	582	0.021	ng	# 92
34) Bis(2-ethylhexyl)phtha...	20.893	149	981	0.088	ng	# 98

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

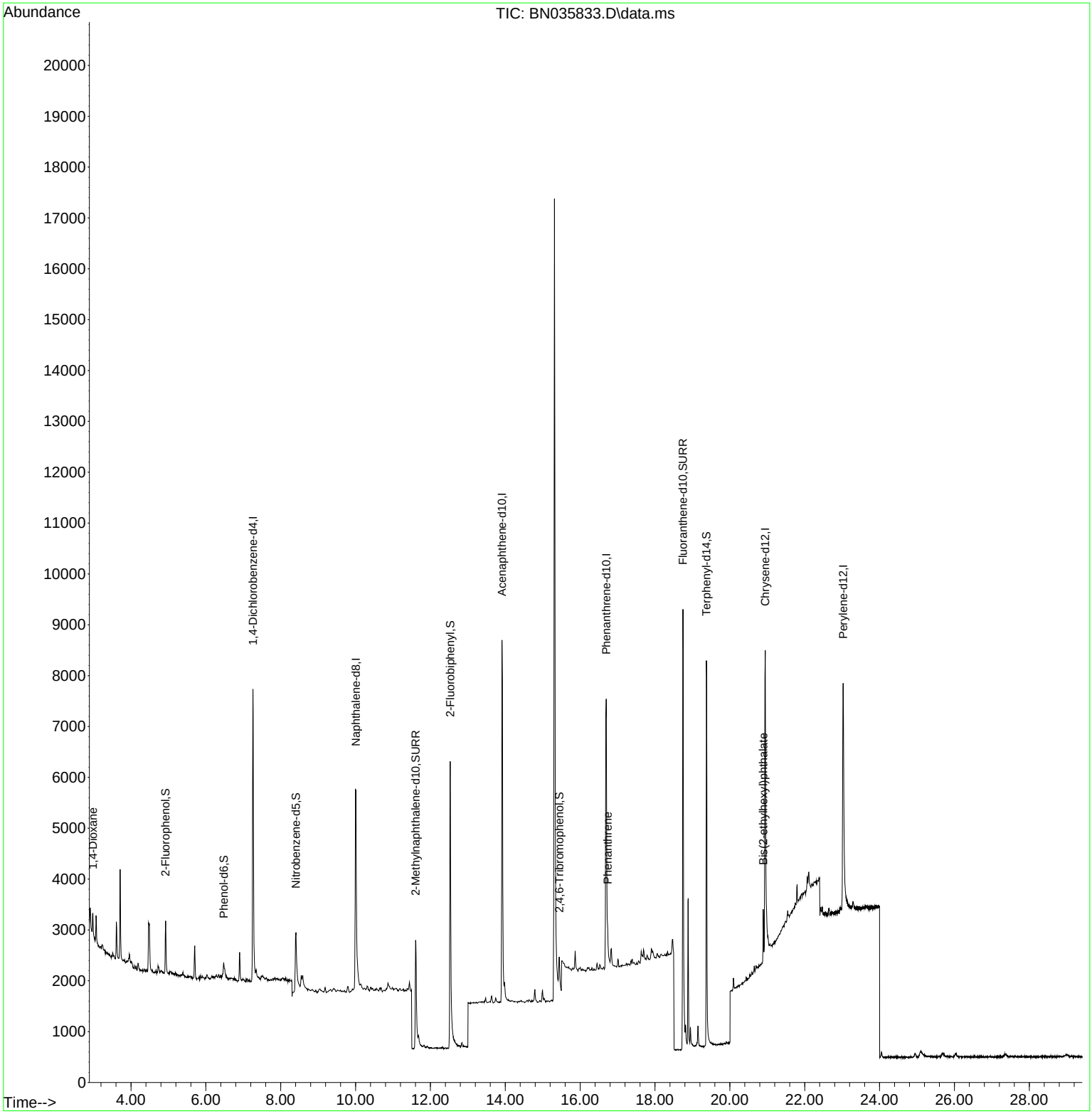
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

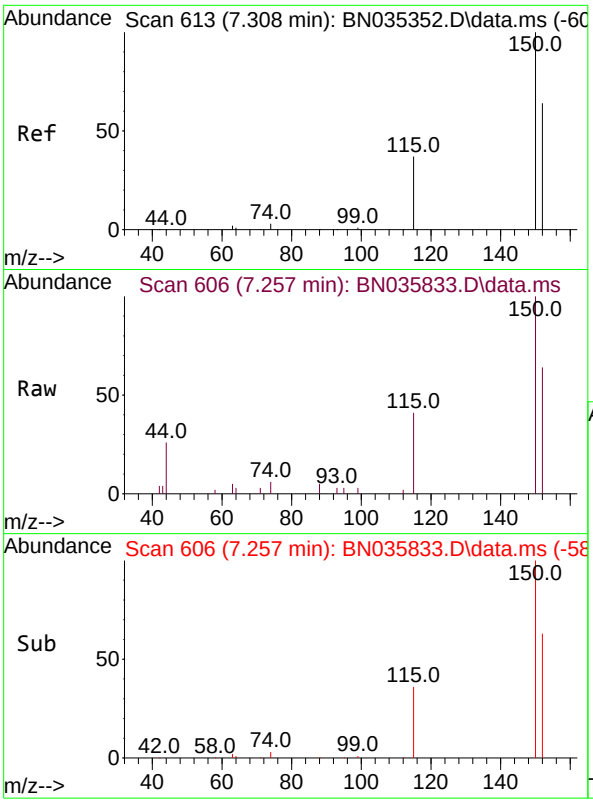
Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

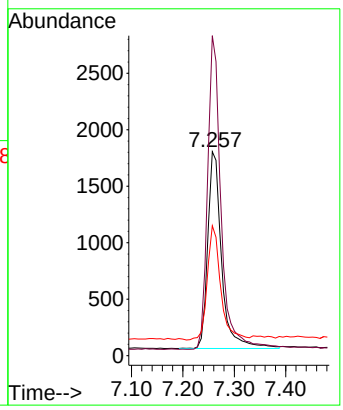




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:152 Resp: 327

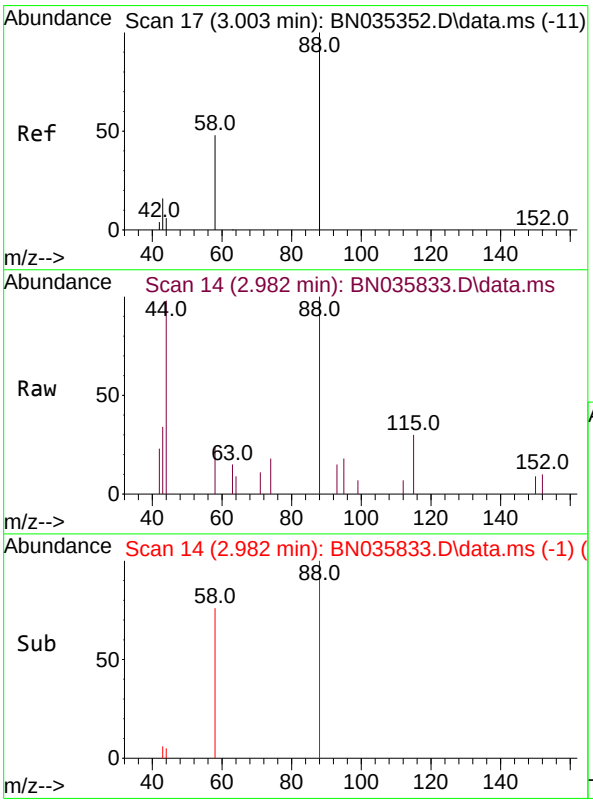
Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.0	186.0
115	63.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations
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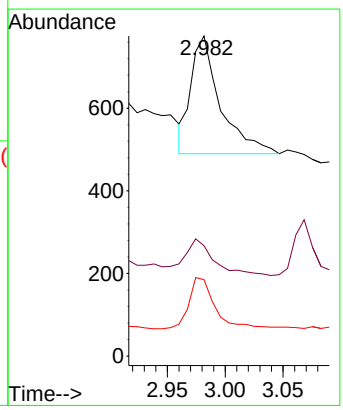
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

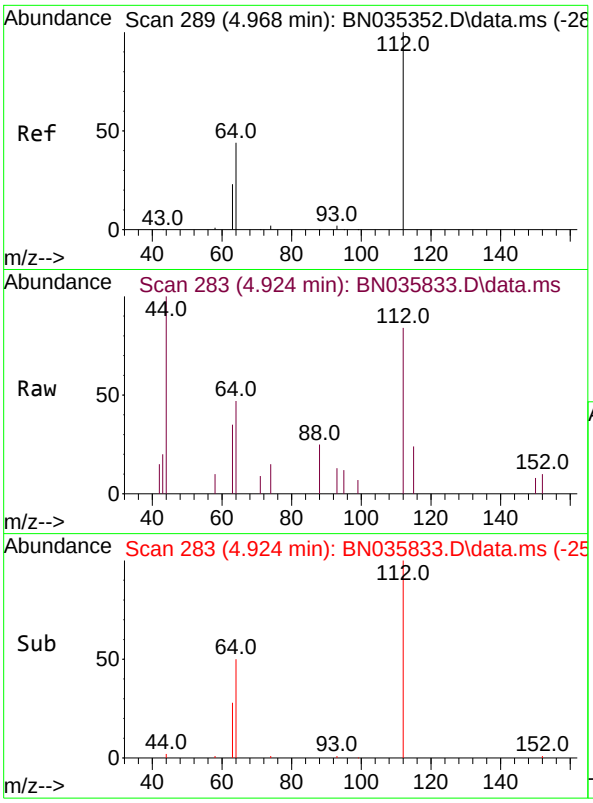


#2
1,4-Dioxane
Concen: 0.162 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 88 Resp: 506

Ion	Ratio	Lower	Upper
88	100		
43	32.0	17.2	25.8#
58	38.5	44.5	66.7#





#4
2-Fluorophenol
Concen: 0.118 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

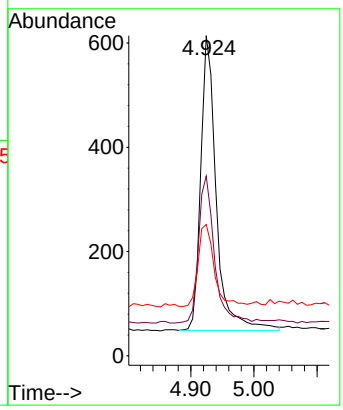
Tgt Ion:112 Resp: 96

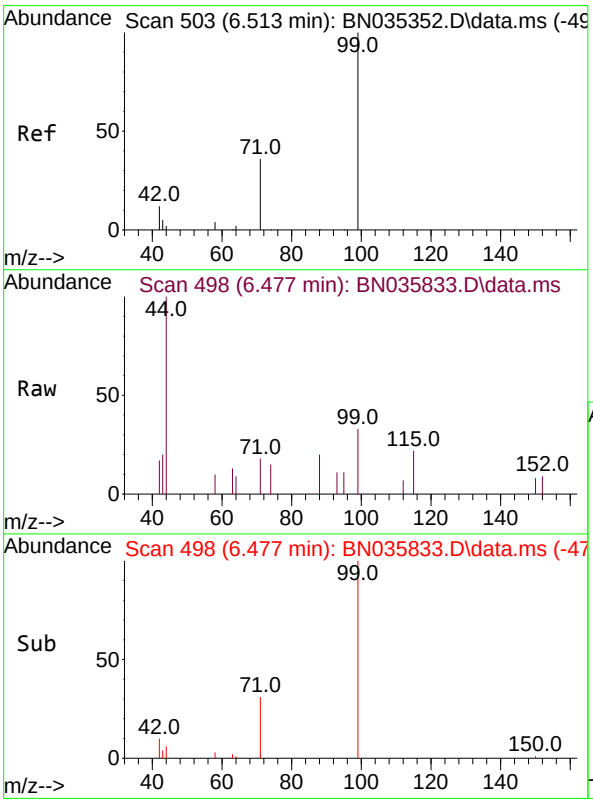
Ion	Ratio	Lower	Upper
112	100		
64	50.8	39.8	59.8
63	28.6	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations
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Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

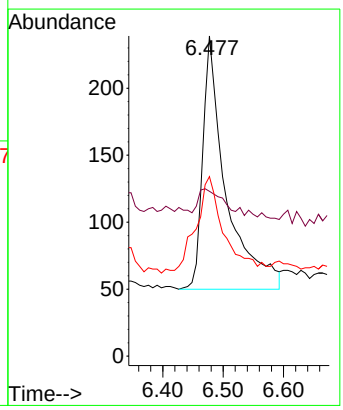


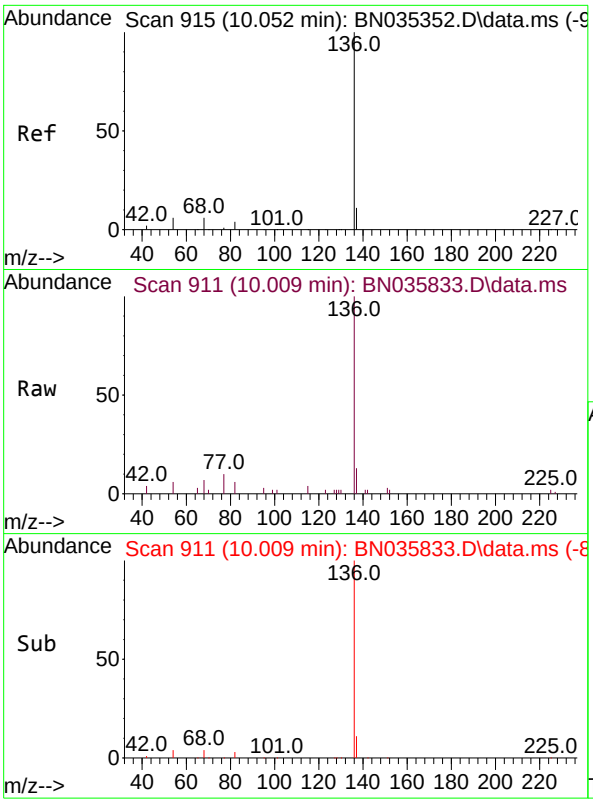


#5
Phenol-d6
Concen: 0.051 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 99 Resp: 504

Ion	Ratio	Lower	Upper
99	100		
42	12.7	11.4	17.2
71	47.0	29.3	43.9#

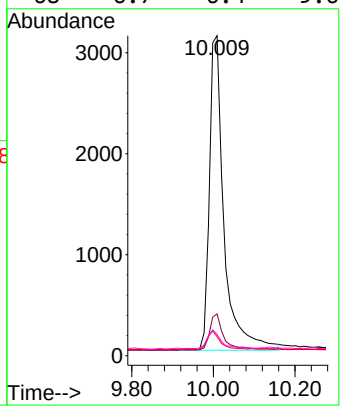




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

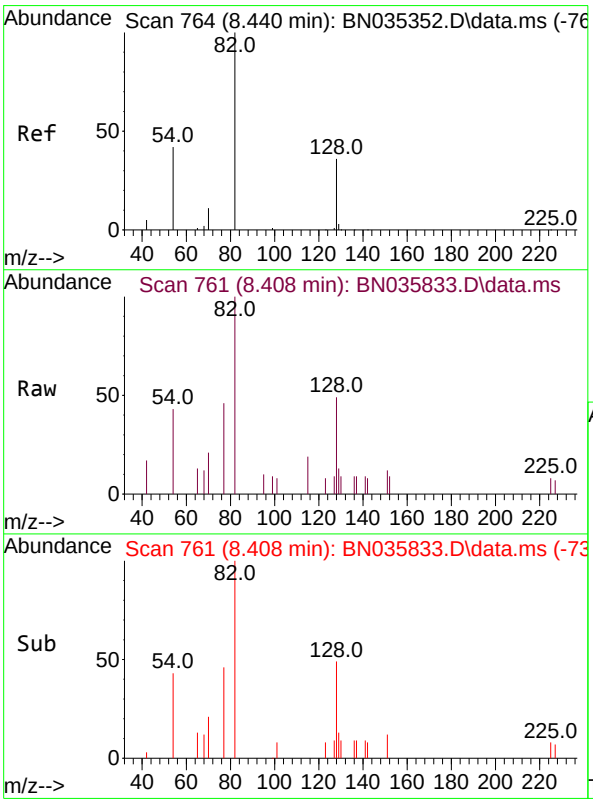
Tgt Ion:136 Resp: 772

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	6.0	6.1	9.1
68	6.7	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

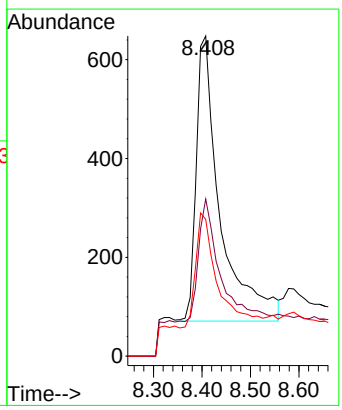
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

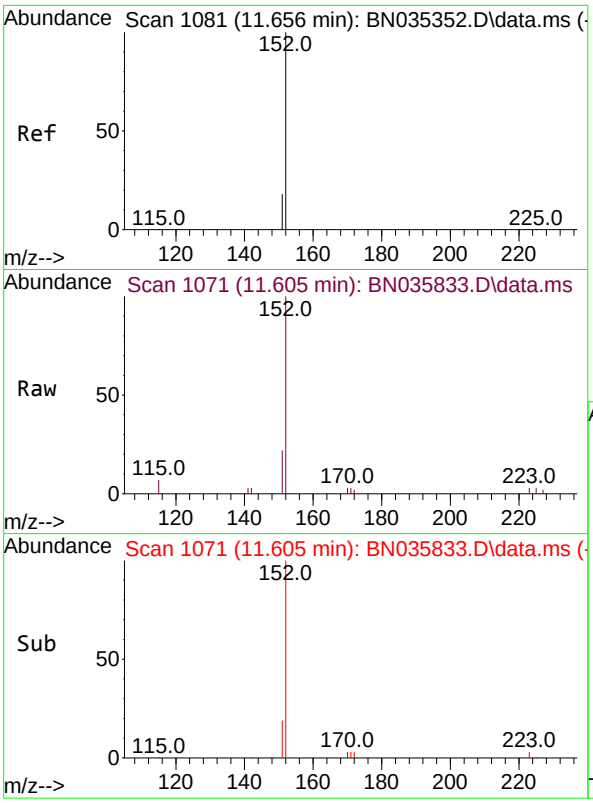


#8
Nitrobenzene-d5
Concen: 0.419 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 82 Resp: 1978

Ion	Ratio	Lower	Upper
82	100		
128	49.1	33.4	50.0
54	42.7	36.7	55.1

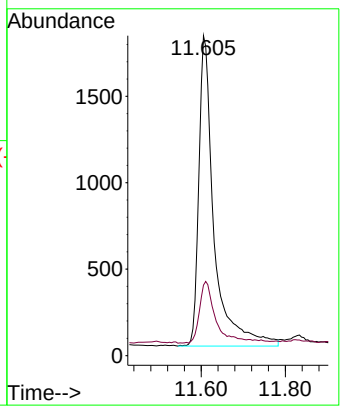




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:152 Resp: 451

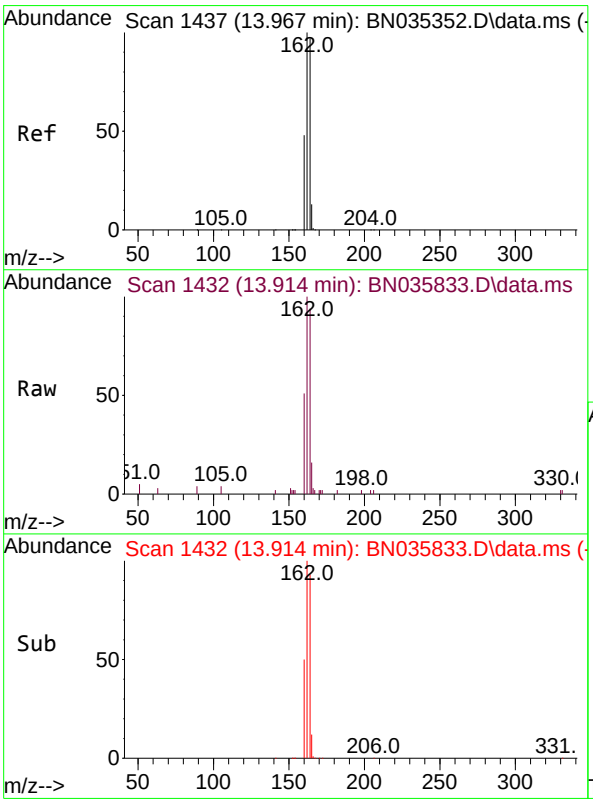
Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations
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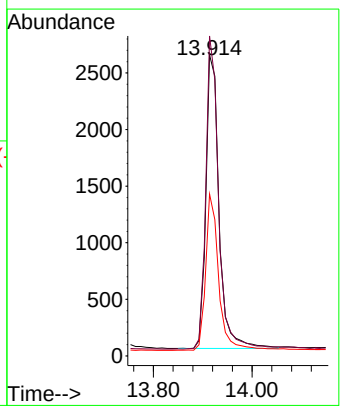
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

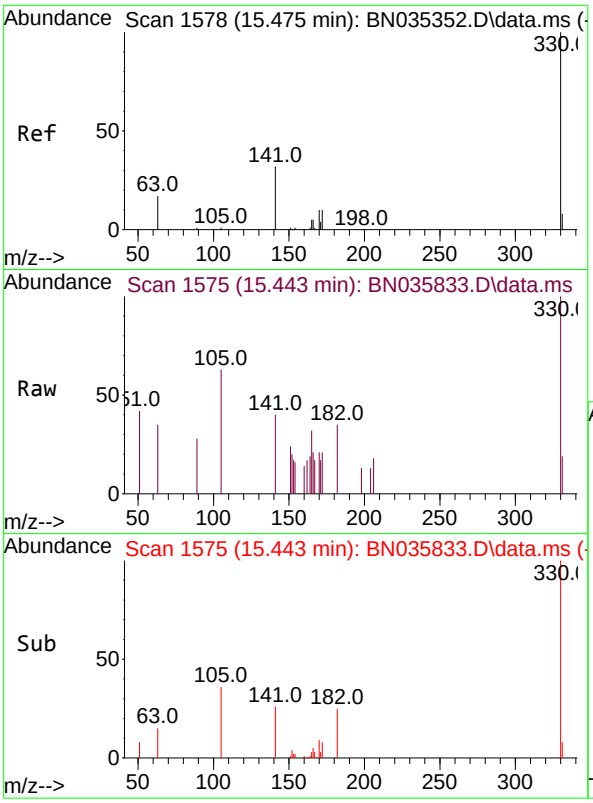


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:164 Resp: 4815

Ion	Ratio	Lower	Upper
164	100		
162	106.3	82.2	123.2
160	53.8	40.1	60.1

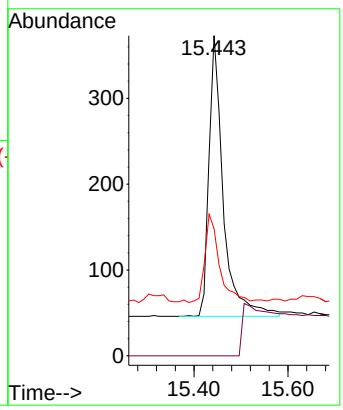




#14
2,4,6-Tribromophenol
Concen: 0.212 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

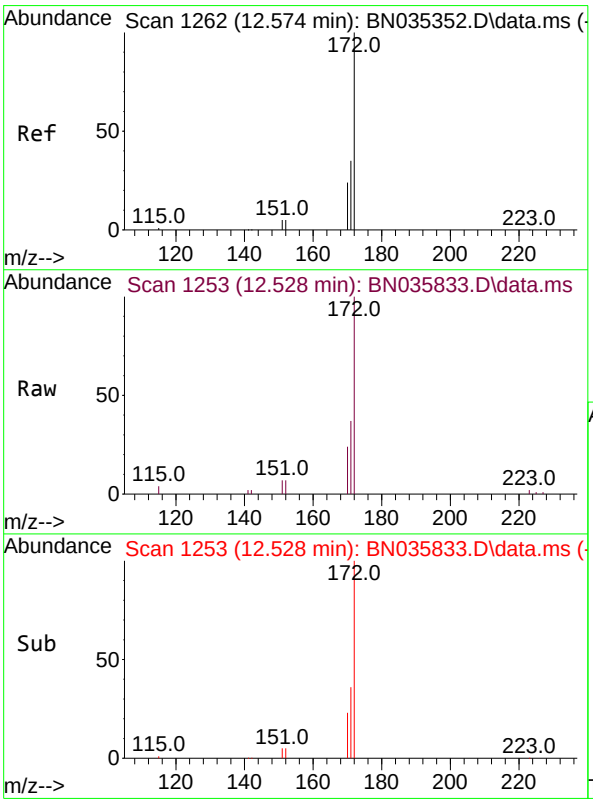
Tgt Ion:330 Resp: 72

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.5	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

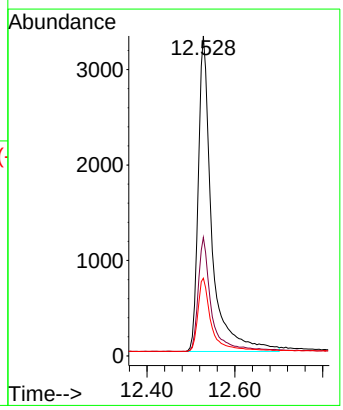
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Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

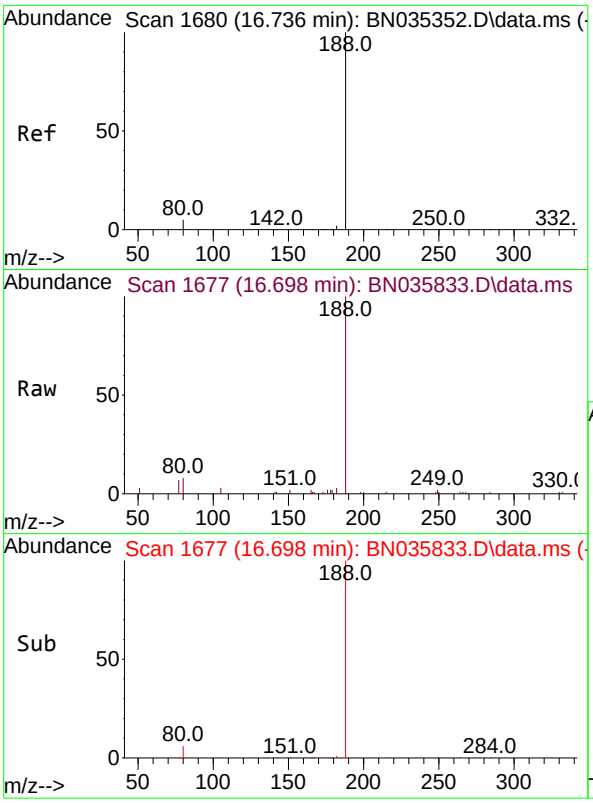


#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:172 Resp: 7112

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.0	43.4
170	24.3	19.8	29.8





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

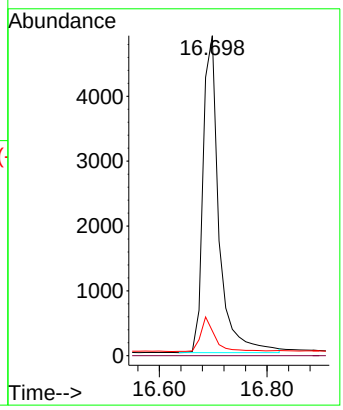
Tgt Ion:188 Resp: 1002

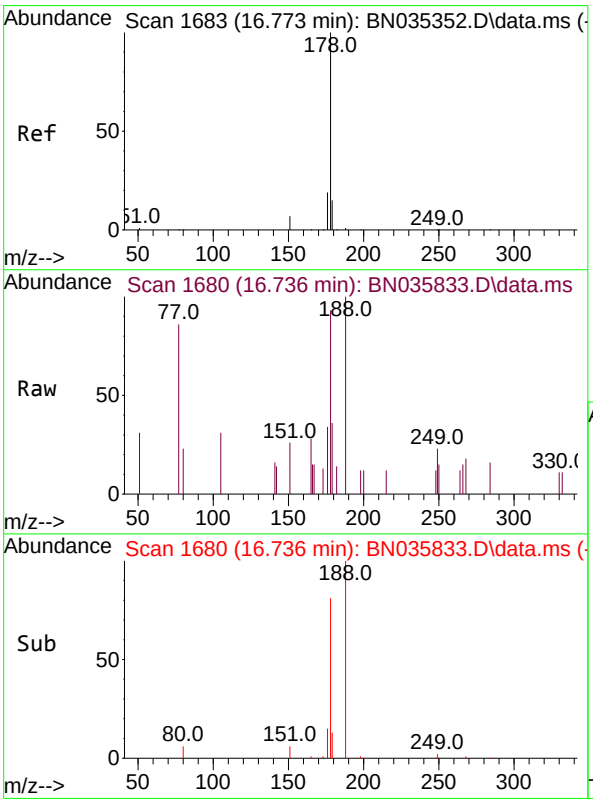
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	4.6	6.8#

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

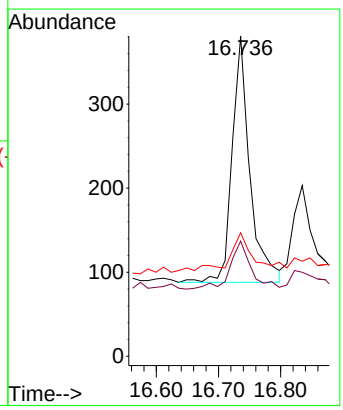


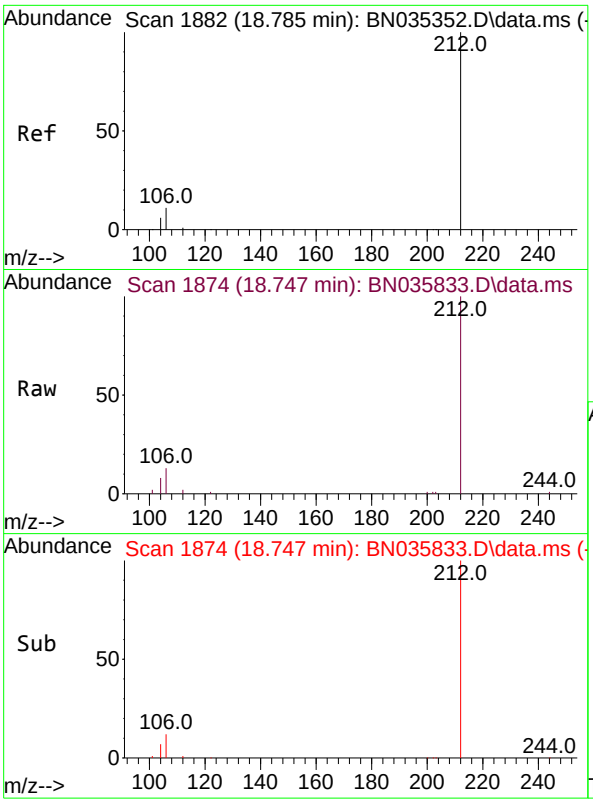


#25
Phenanthrene
Concen: 0.021 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:178 Resp: 582

Ion	Ratio	Lower	Upper
178	100		
176	23.0	15.4	23.2
179	18.7	12.3	18.5#

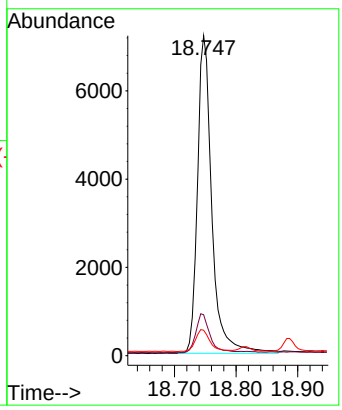




#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:212 Resp: 1167

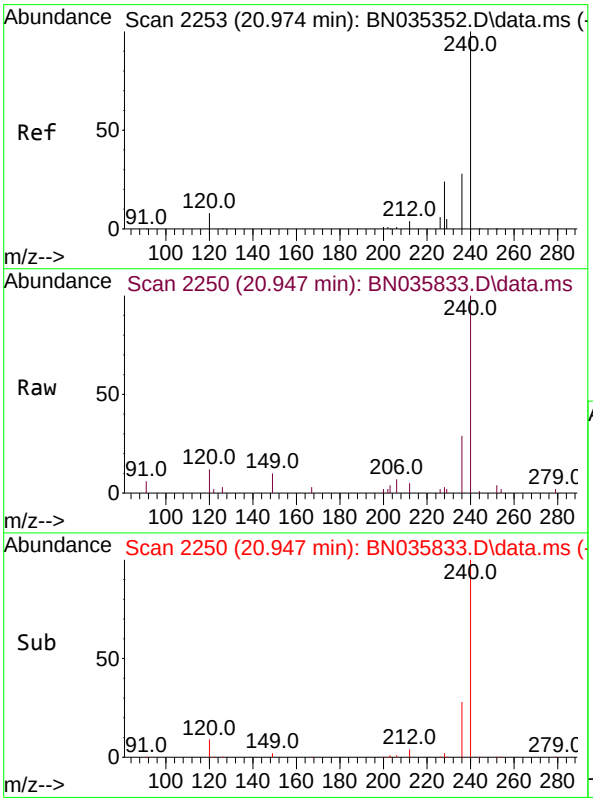
Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	7.0	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations
APPROVED

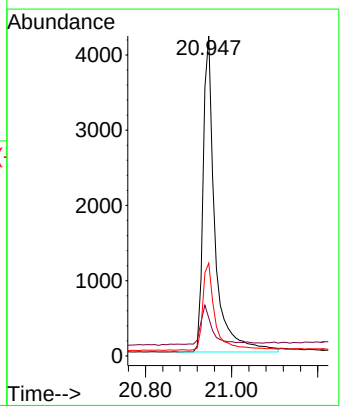
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

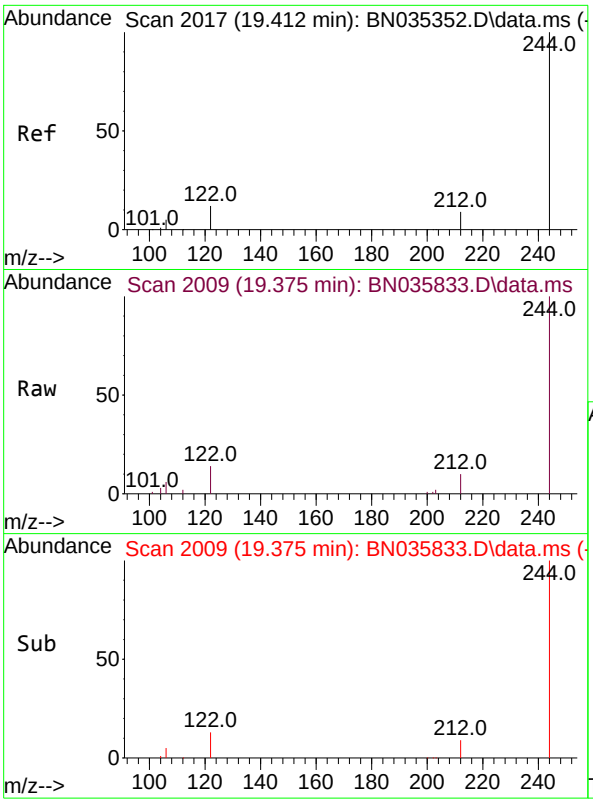


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:240 Resp: 8069

Ion	Ratio	Lower	Upper
240	100		
120	11.9	7.9	11.9
236	29.0	22.9	34.3

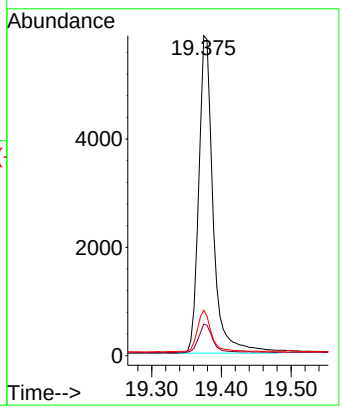




#31
Terphenyl-d14
Concen: 0.529 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:244 Resp: 842

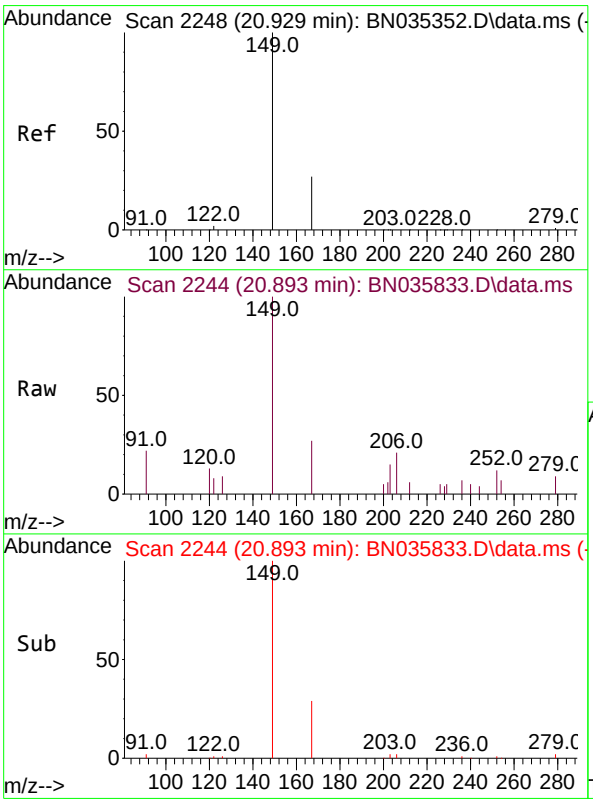
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	14.2	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations
APPROVED

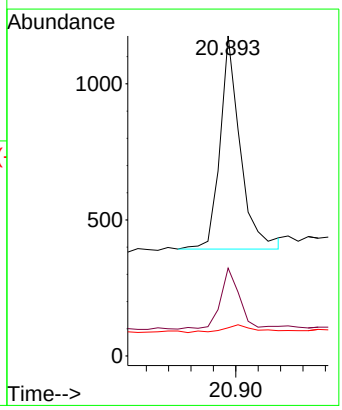
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

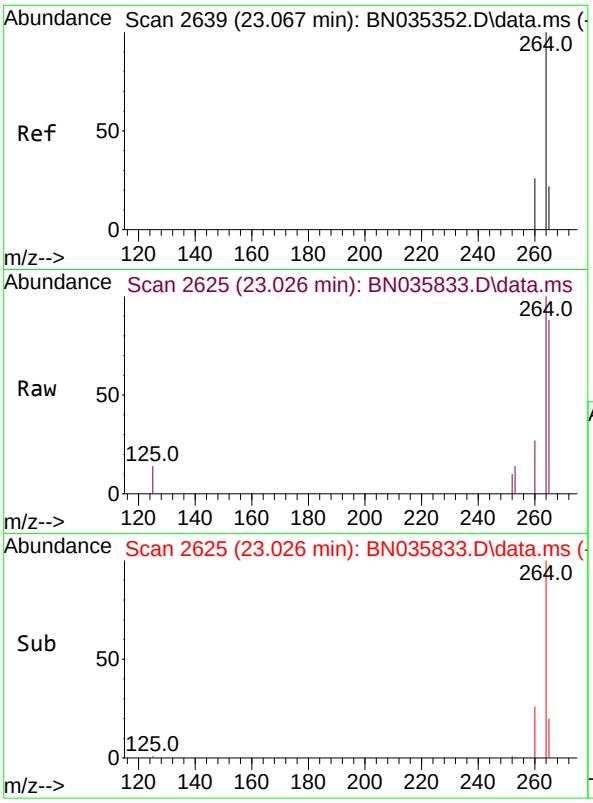


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:149 Resp: 981

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	6.7	2.7	4.1#

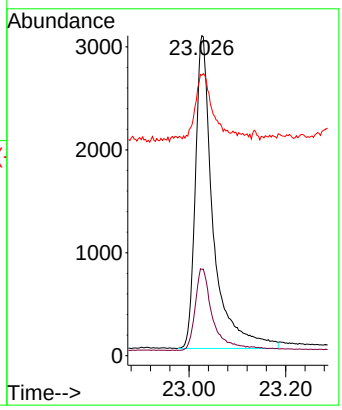




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:264 Resp: 778

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	87.6	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW11-MW01I-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-17	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035834.D	1	12/23/24 13:29	12/24/24 23:53	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3210	7.257				
1146-65-2	Naphthalene-d8	7680	10.009				
15067-26-2	Acenaphthene-d10	4790	13.925				
1517-22-2	Phenanthrene-d10	10000	16.698				
1719-03-5	Chrysene-d12	8230	20.947				
1520-96-3	Perylene-d12	7810	23.026				

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\BN122324\
Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3211	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7680	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4788	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10028	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8231	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7812	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	770	0.096	ng	-0.01
5) Phenol-d6	6.477	99	388	0.040	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1810m	0.386	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4135	0.344	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	529	0.156	ng	0.00
15) 2-Fluorobiphenyl	12.533	172	6614	0.365	ng	-0.01
27) Fluoranthene-d10	18.747	212	11419	0.402	ng	-0.01
31) Terphenyl-d14	19.379	244	8341	0.514	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.893	149	474	0.042	ng	# 96

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

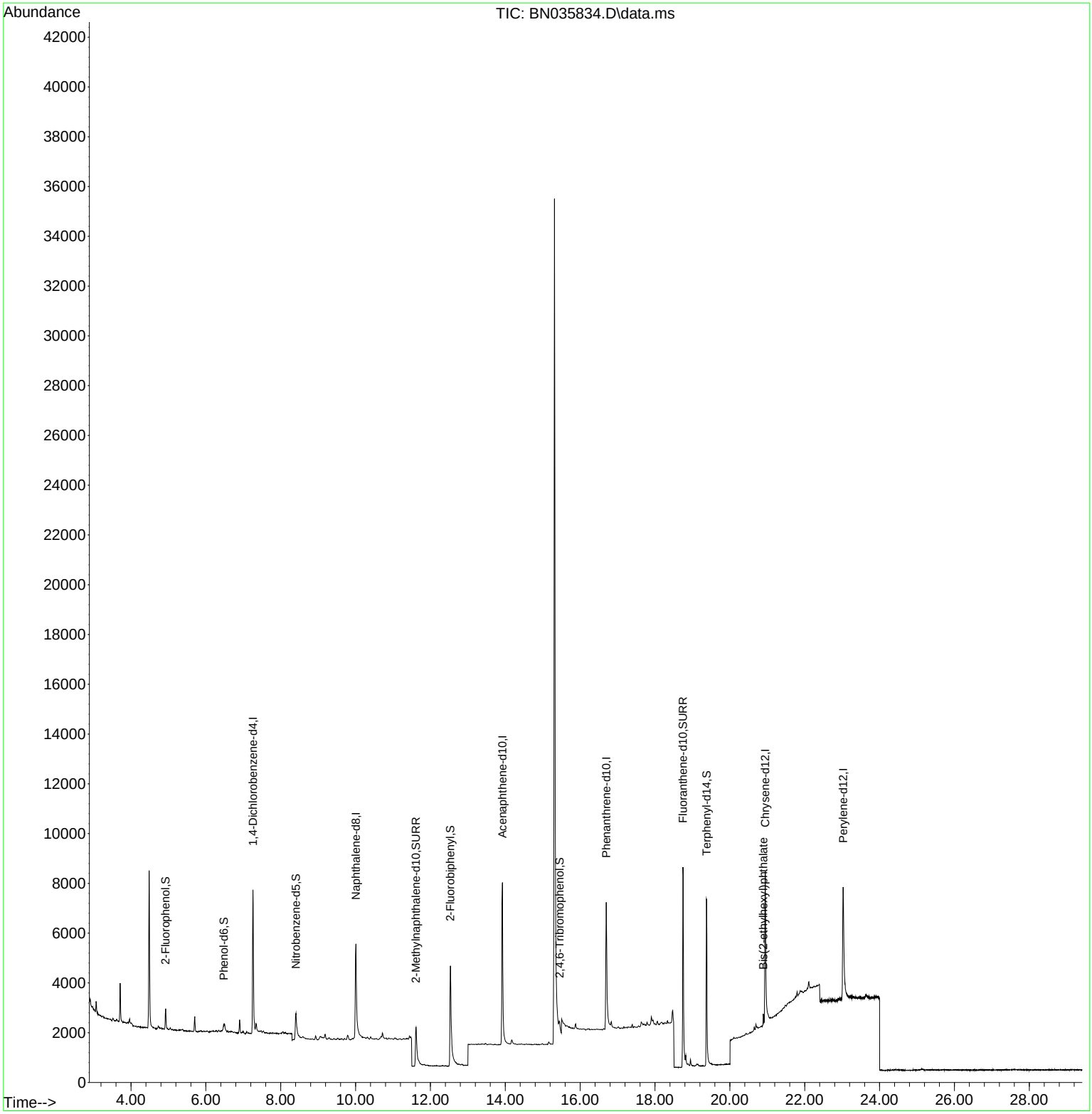
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

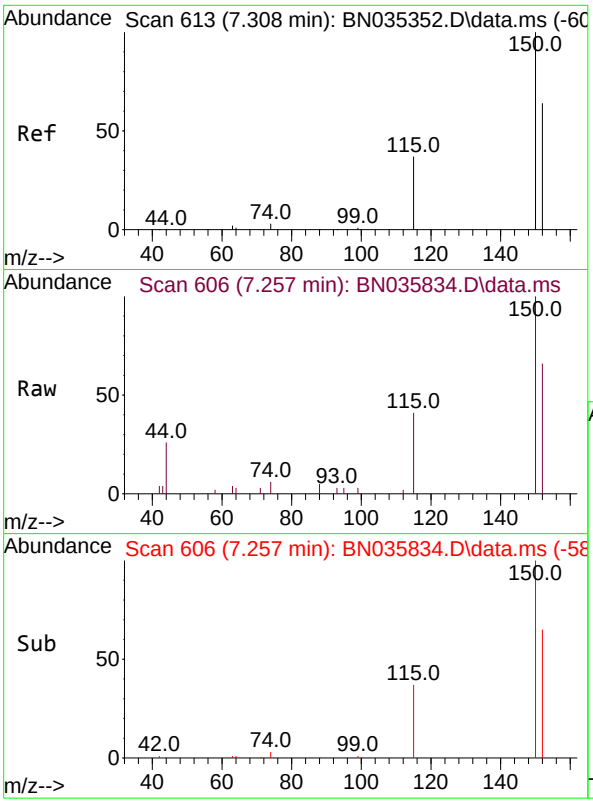
Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

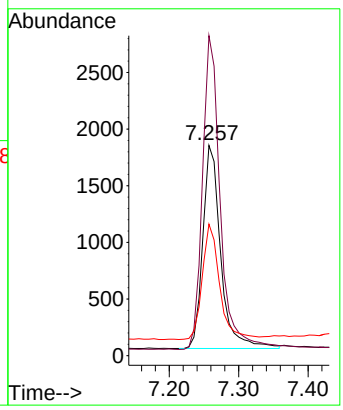




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:152 Resp: 321

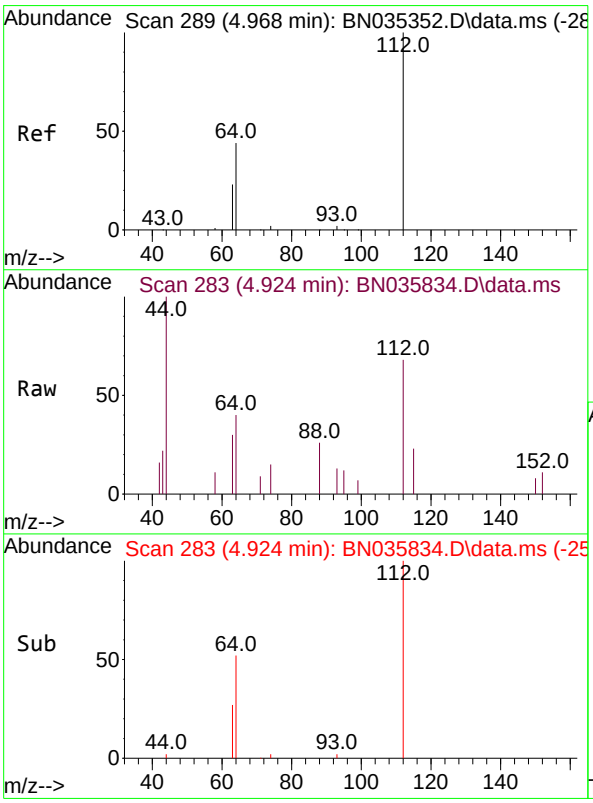
Ion	Ratio	Lower	Upper
152	100		
150	152.2	124.0	186.0
115	62.6	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations
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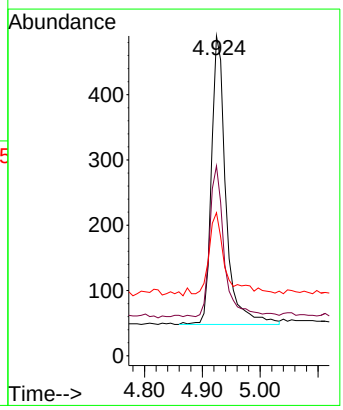
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

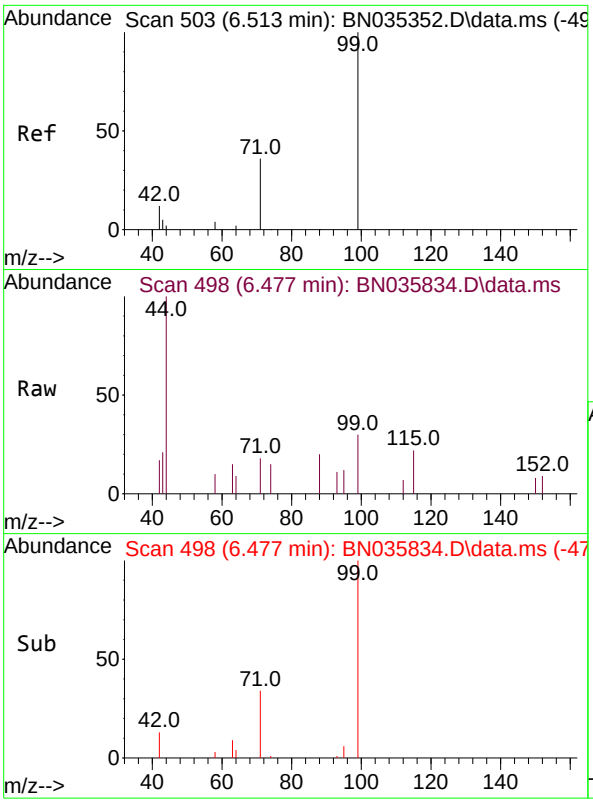


#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:112 Resp: 770

Ion	Ratio	Lower	Upper
112	100		
64	53.1	39.8	59.8
63	31.9	21.0	31.6#

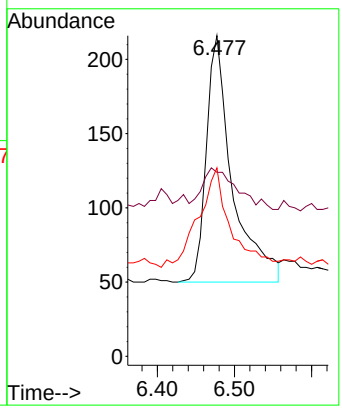




#5
Phenol-d6
Concen: 0.040 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion: 99 Resp: 38

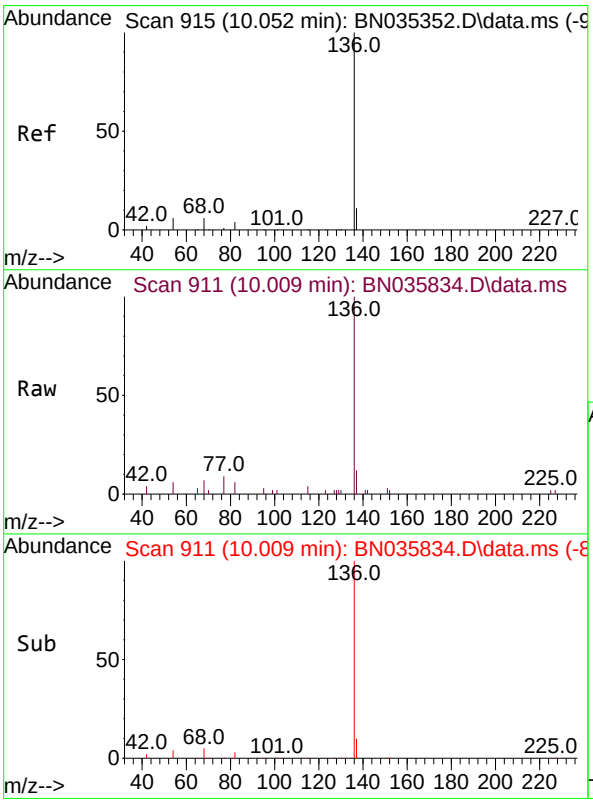
Ion	Ratio	Lower	Upper
99	100		
42	25.5	11.4	17.2
71	49.7	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations
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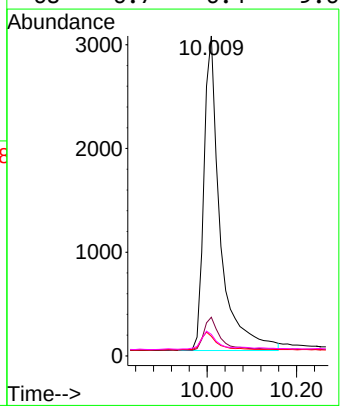
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

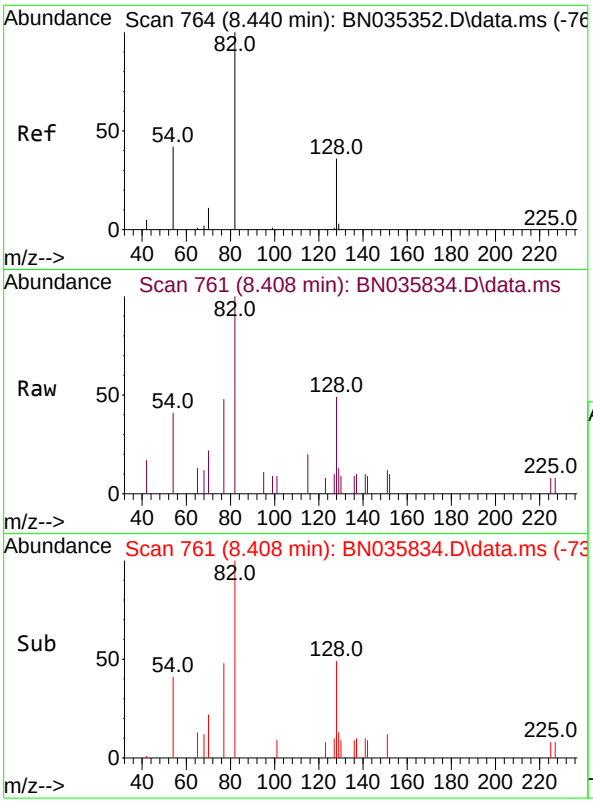


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:136 Resp: 7680

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.2	6.1	9.1
68	6.7	6.4	9.6





#8
Nitrobenzene-d5
Concen: 0.386 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

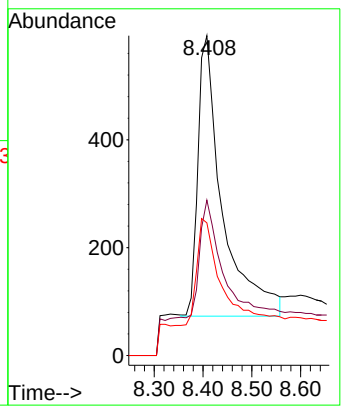
Tgt Ion: 82 Resp: 181

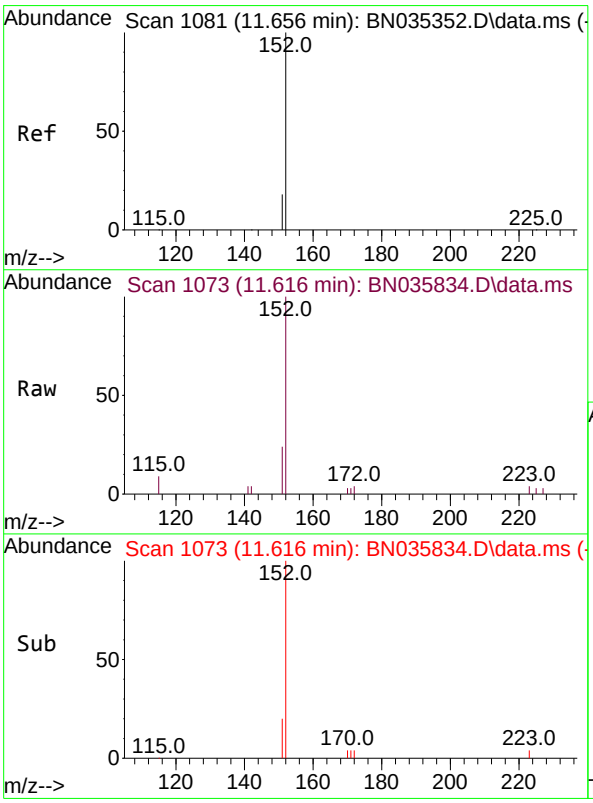
Ion	Ratio	Lower	Upper
82	100		
128	48.6	33.4	50.0
54	41.5	36.7	55.1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

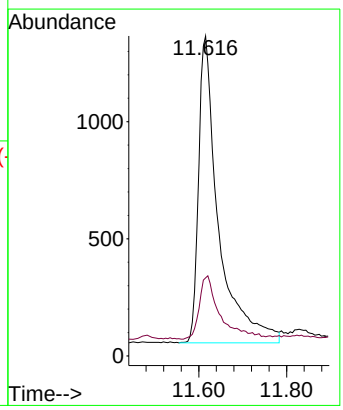


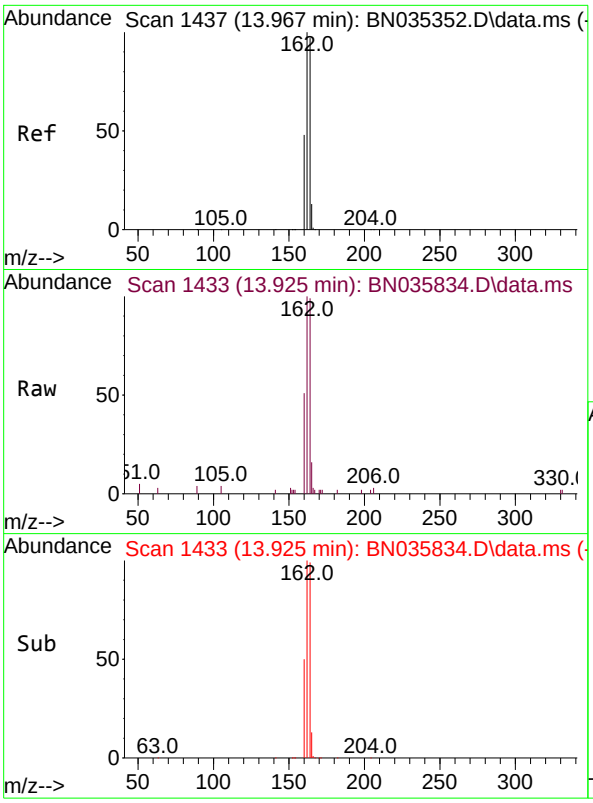


#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:152 Resp: 4135

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	25.0

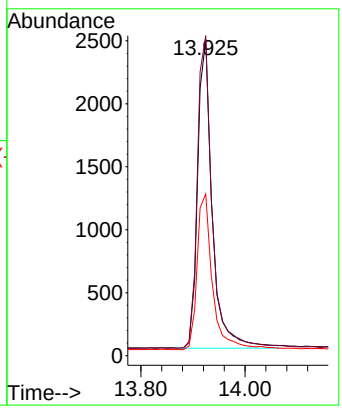




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:164 Resp: 478

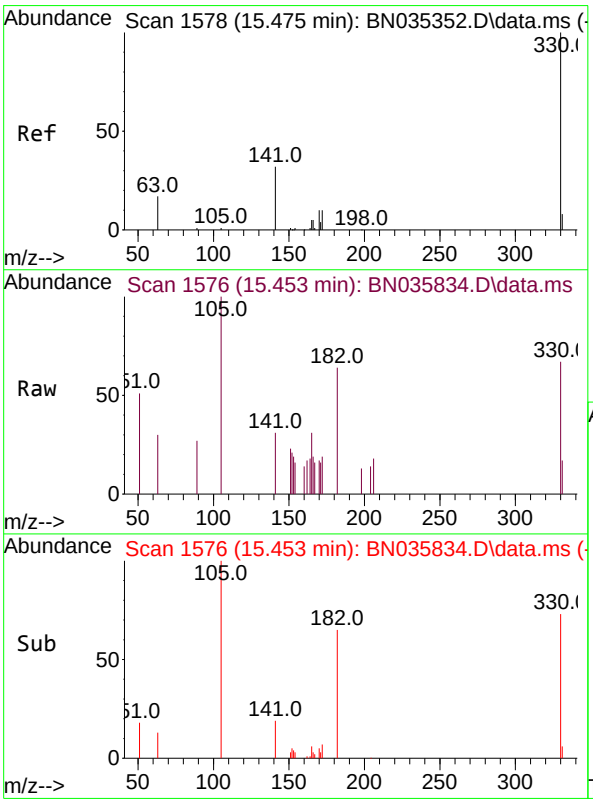
Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.2	123.2
160	51.2	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations
APPROVED

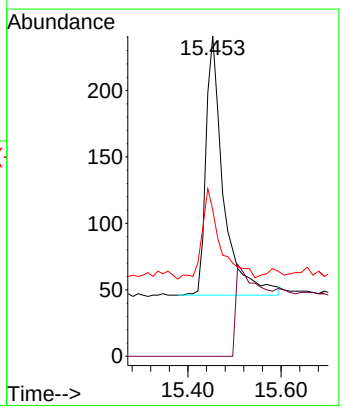
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

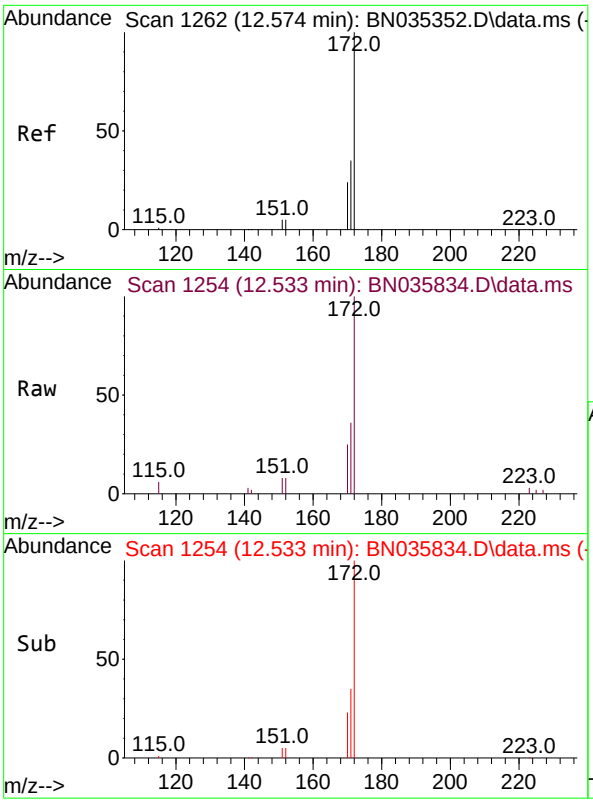


#14
2,4,6-Tribromophenol
Concen: 0.156 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:330 Resp: 529

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.3	26.6	40.0

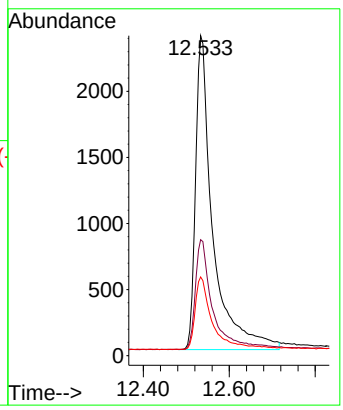




#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:172 Resp: 661

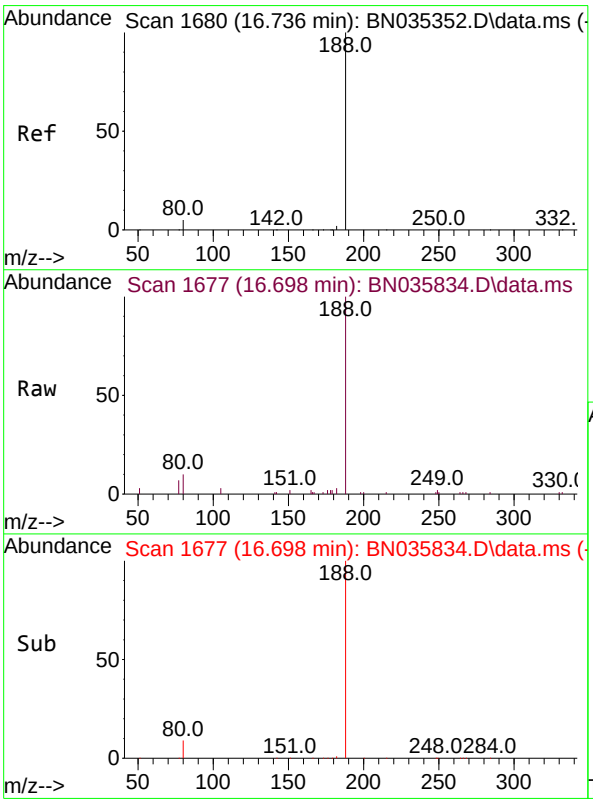
Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.6	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations APPROVED

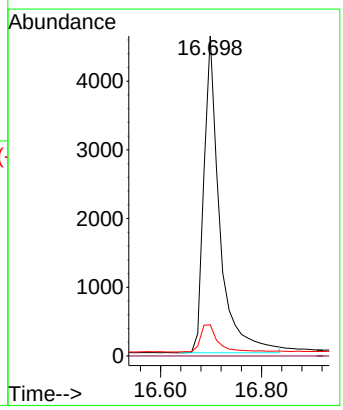
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

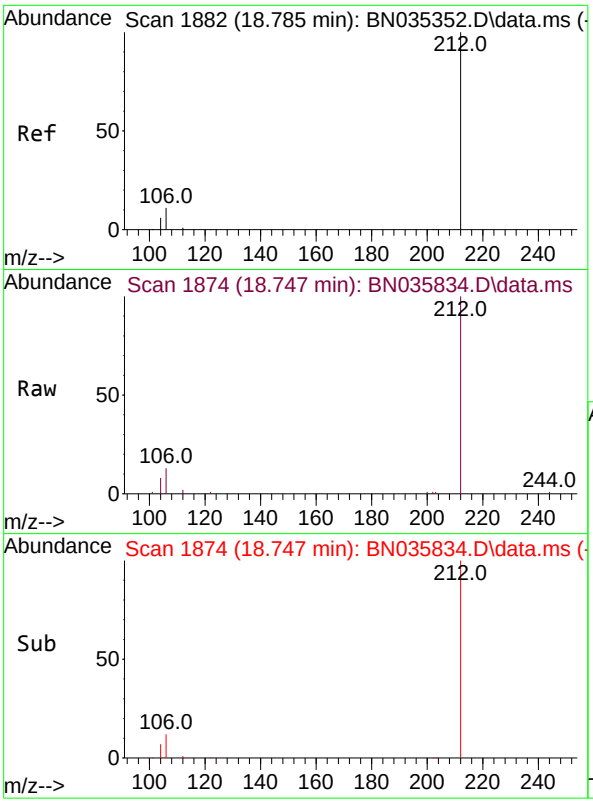


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:188 Resp: 10028

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	4.6	6.8#

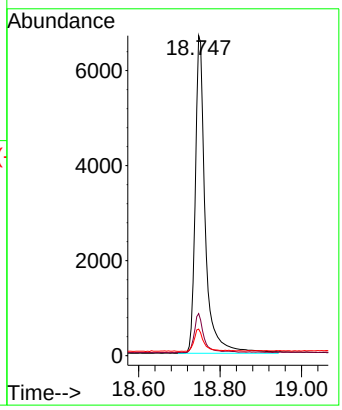




#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:212 Resp: 1141

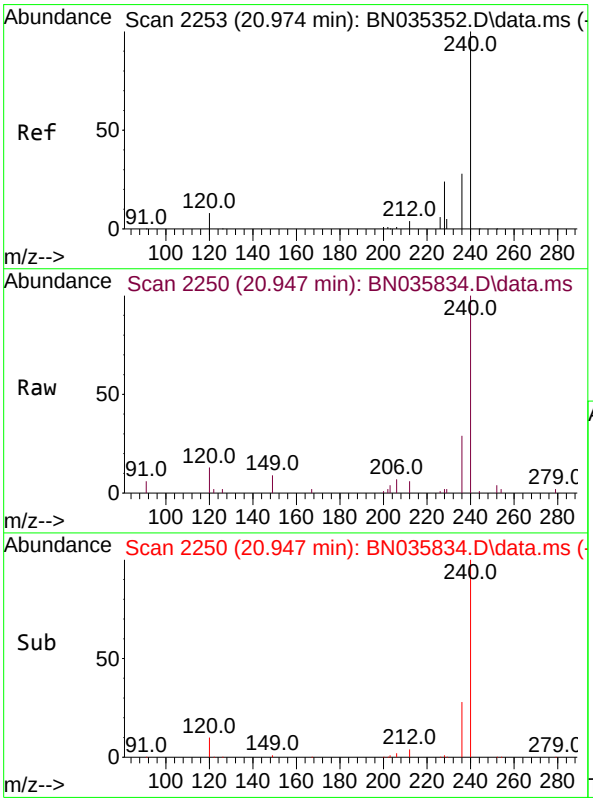
Ion	Ratio	Lower	Upper
212	100		
106	11.2	9.2	13.8
104	6.7	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations
APPROVED

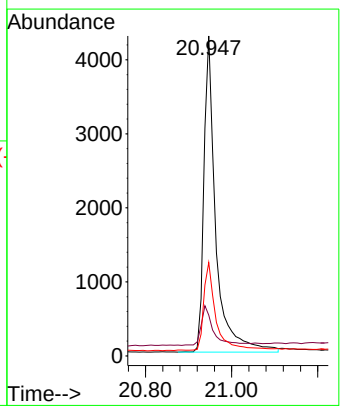
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

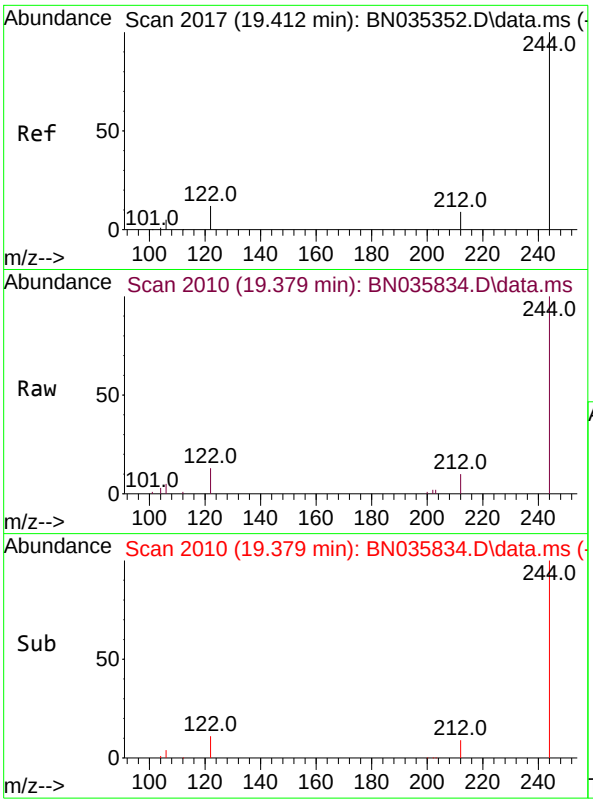


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:240 Resp: 8231

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9#
236	29.2	22.9	34.3

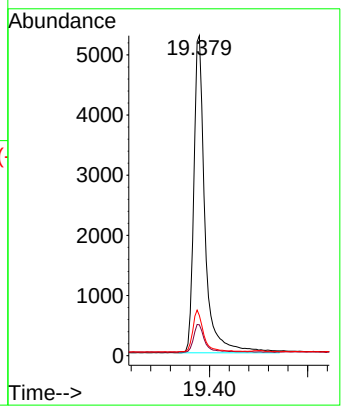




#31
Terphenyl-d14
Concen: 0.514 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:244 Resp: 834

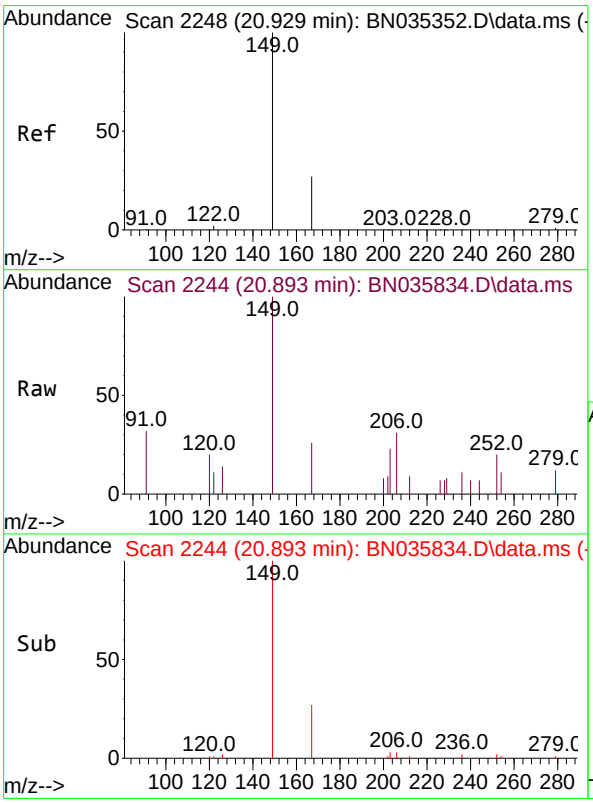
Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.6	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations
APPROVED

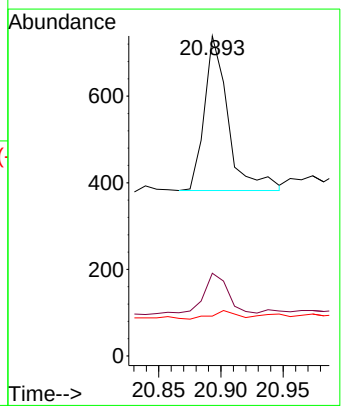
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

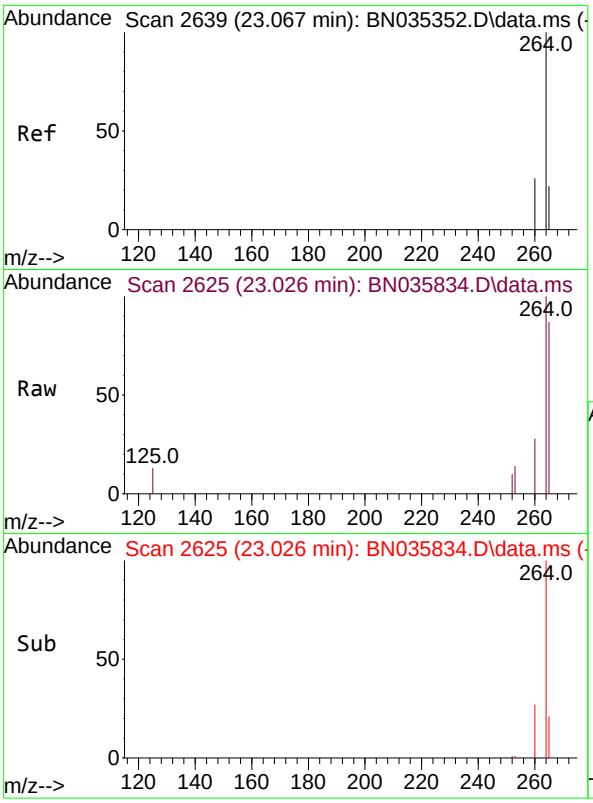


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.042 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:149 Resp: 474

Ion	Ratio	Lower	Upper
149	100		
167	26.2	22.2	33.4
279	5.7	2.7	4.1#

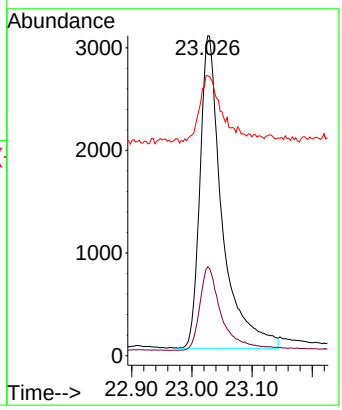




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:264 Resp: 781

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.4	32.2
265	87.5	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT119S1-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-18	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035835.D	1	12/23/24 13:29	12/25/24 00:29	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3270	7.264				
1146-65-2	Naphthalene-d8	7390	10.009				
15067-26-2	Acenaphthene-d10	4620	13.925				
1517-22-2	Phenanthrene-d10	9150	16.698				
1719-03-5	Chrysene-d12	7440	20.947				
1520-96-3	Perylene-d12	7070	23.029				

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\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 04:21:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3270	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7393	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4622	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9153	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7437	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	7071	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	859	0.105	ng	-0.01
5) Phenol-d6	6.484	99	361	0.037	ng	0.00
8) Nitrobenzene-d5	8.408	82	1707m	0.378	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	3916	0.338	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	618	0.188	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6261	0.358	ng	0.00
27) Fluoranthene-d10	18.747	212	10636	0.410	ng	-0.01
31) Terphenyl-d14	19.379	244	7814	0.533	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	63	0.020	ng	# 71
34) Bis(2-ethylhexyl)phtha...	20.893	149	496	0.048	ng	99

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

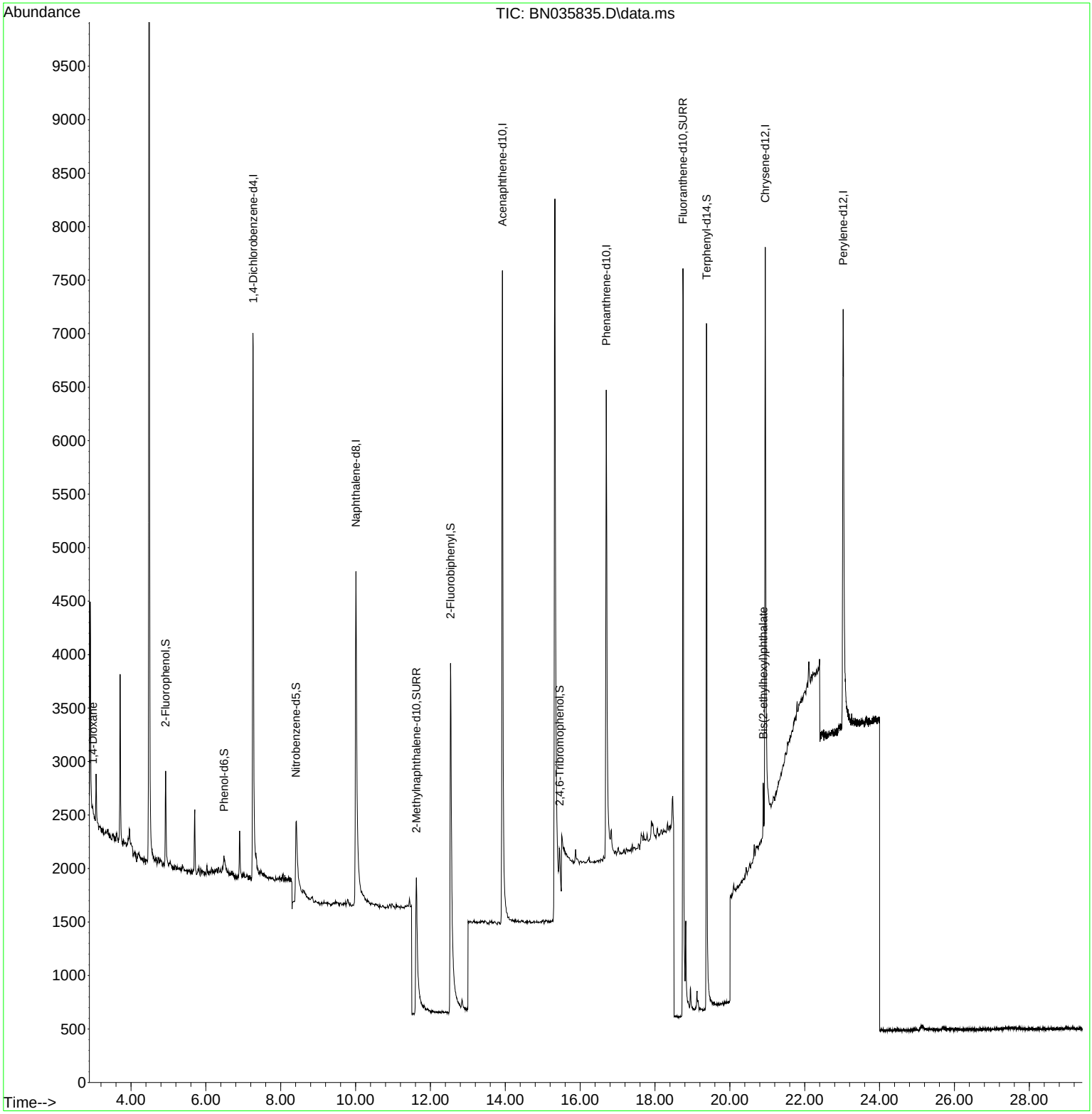
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

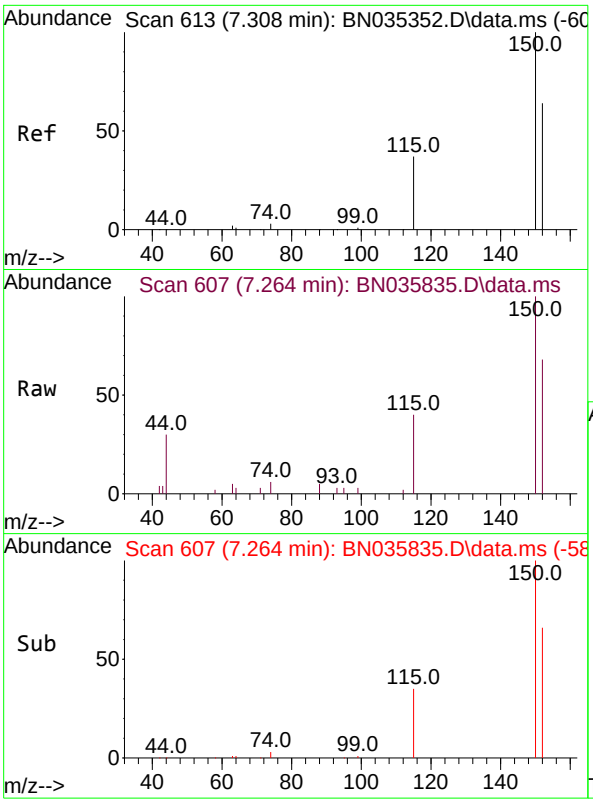
Quant Time: Dec 25 04:21:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

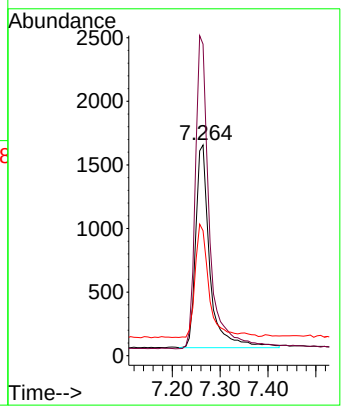




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:152 Resp: 327(

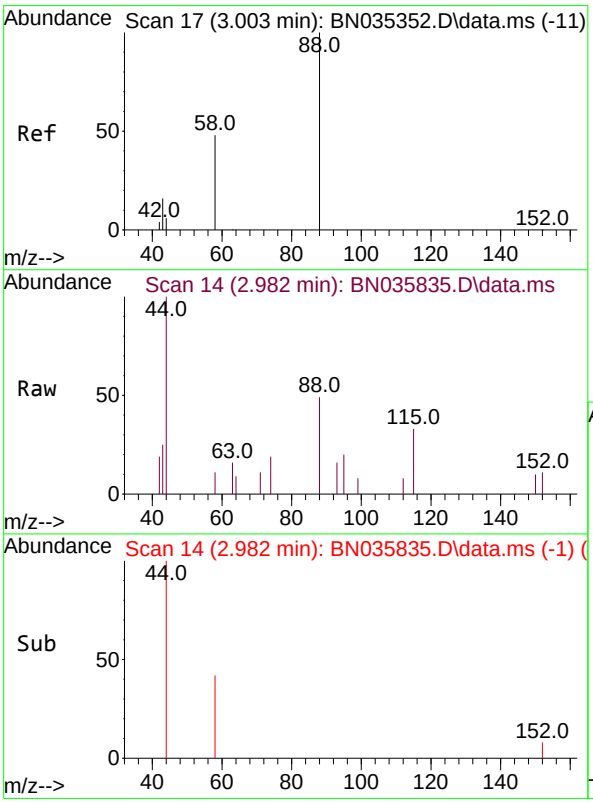
Ion	Ratio	Lower	Upper
152	100		
150	147.9	124.0	186.0
115	59.3	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Manual Integrations
APPROVED

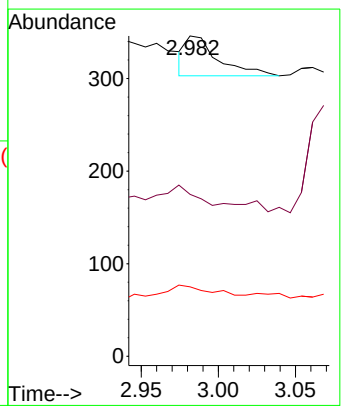
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

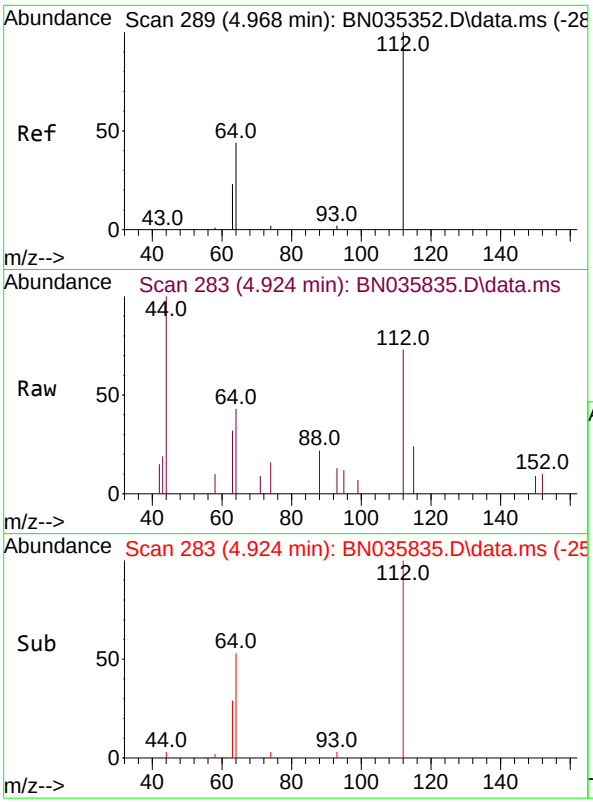


#2
1,4-Dioxane
Concen: 0.020 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 88 Resp: 63

Ion	Ratio	Lower	Upper
88	100		
43	41.3	17.2	25.8#
58	38.1	44.5	66.7#

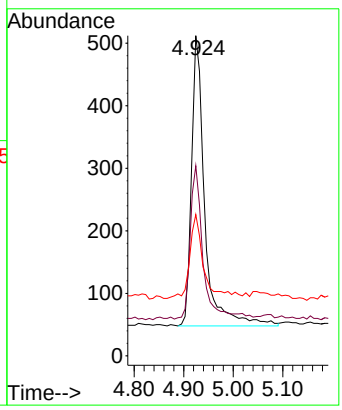




#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:112 Resp: 85

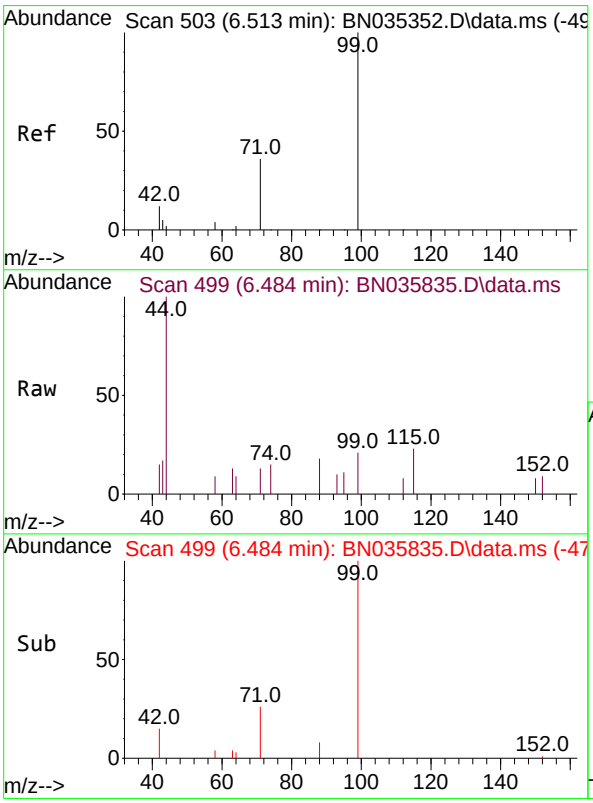
Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	30.2	21.0	31.6



Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Manual Integrations
APPROVED

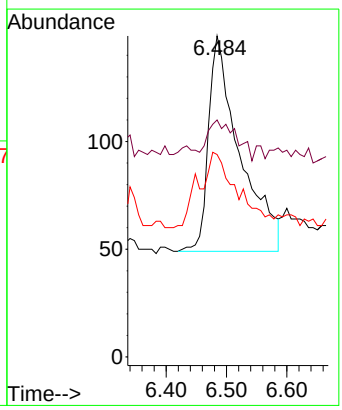
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

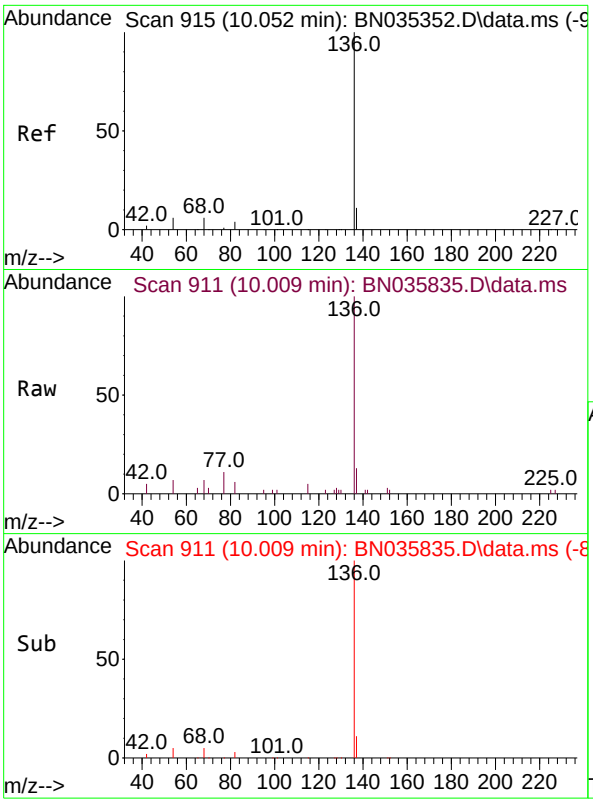


#5
Phenol-d6
Concen: 0.037 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 99 Resp: 361

Ion	Ratio	Lower	Upper
99	100		
42	16.9	11.4	17.2
71	25.8	29.3	43.9#

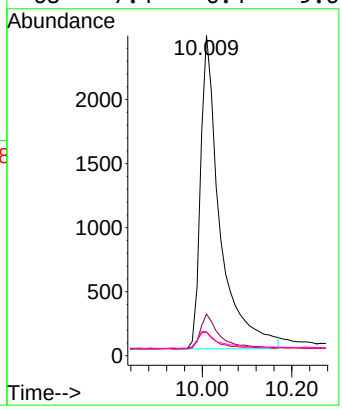




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

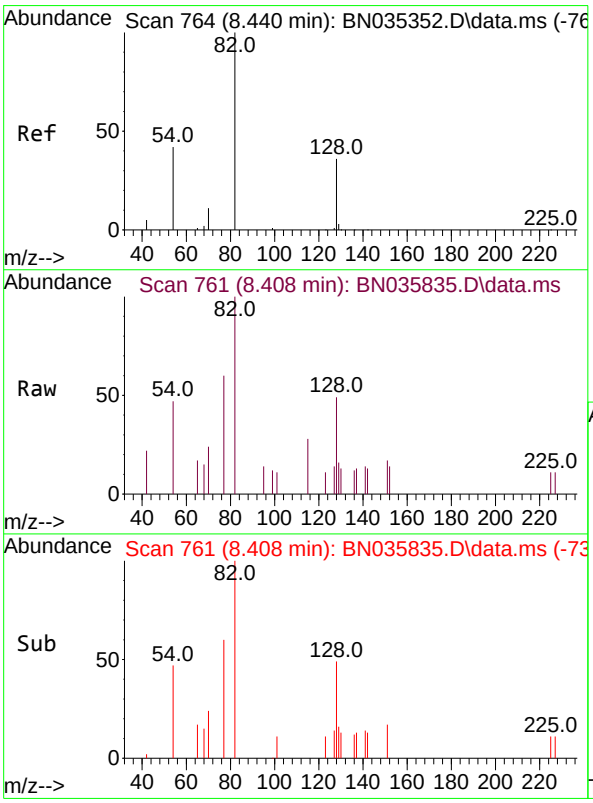
Tgt Ion:136 Resp: 739

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	7.4	6.1	9.1
68	7.4	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

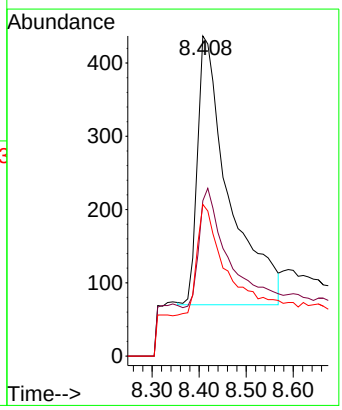
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

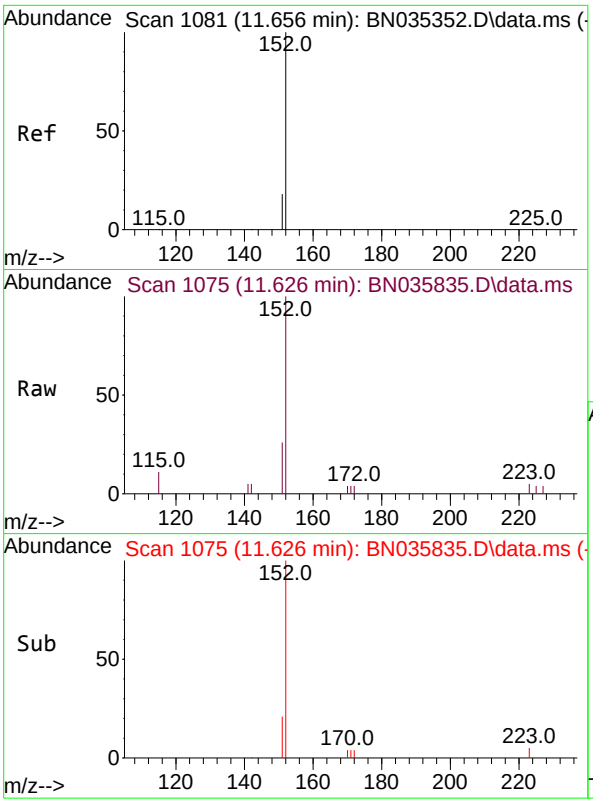


#8
Nitrobenzene-d5
Concen: 0.378 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 82 Resp: 1707

Ion	Ratio	Lower	Upper
82	100		
128	48.5	33.4	50.0
54	47.4	36.7	55.1

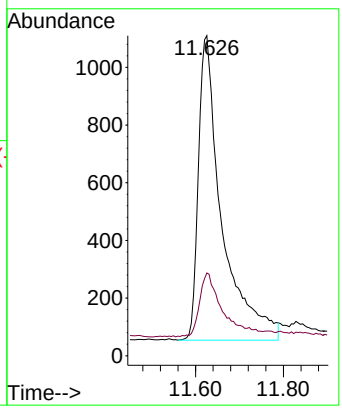




#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 11.626 min Scan# 1(
Delta R.T. 0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:152 Resp: 391(

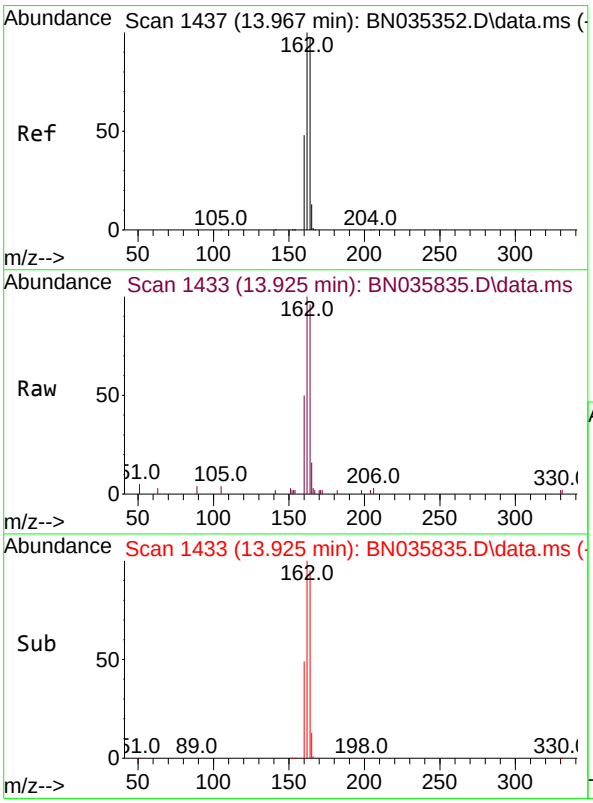
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Manual Integrations
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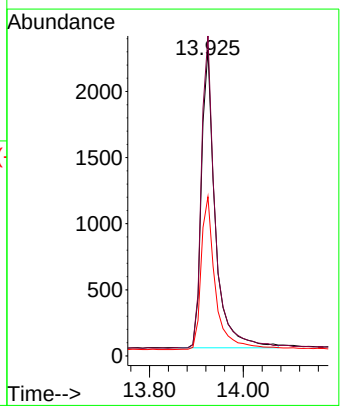
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

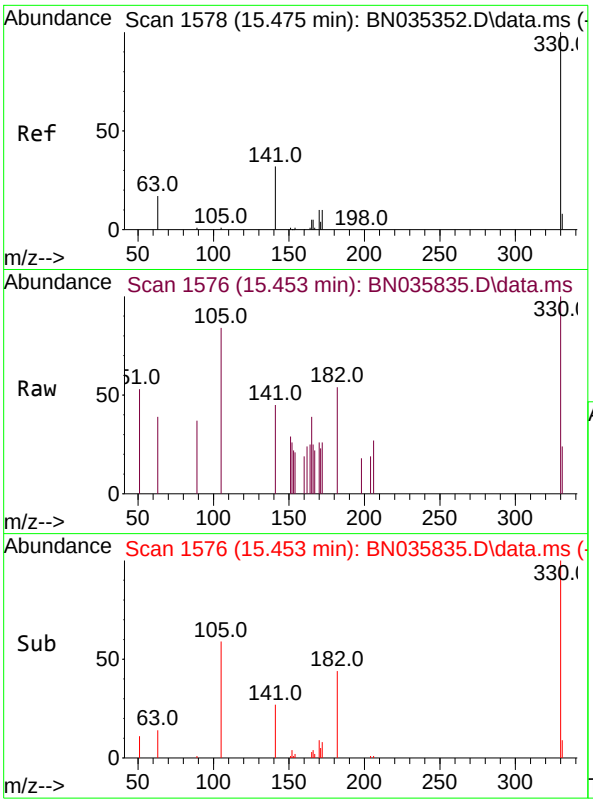


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:164 Resp: 4622

Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.2	123.2
160	52.0	40.1	60.1

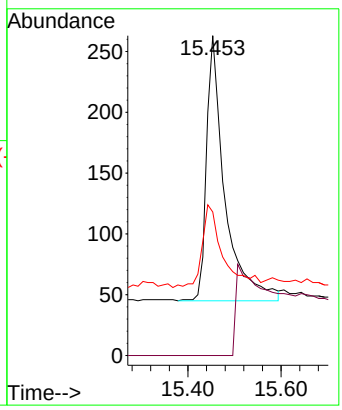




#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:330 Resp: 61

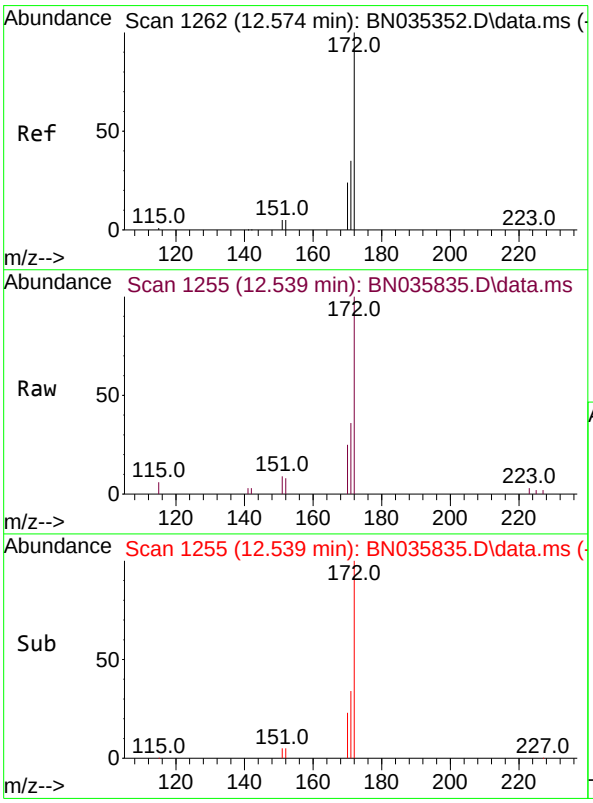
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.8	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Manual Integrations
APPROVED

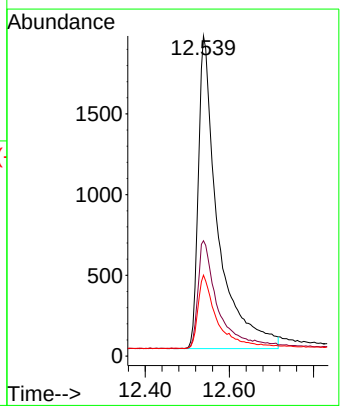
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

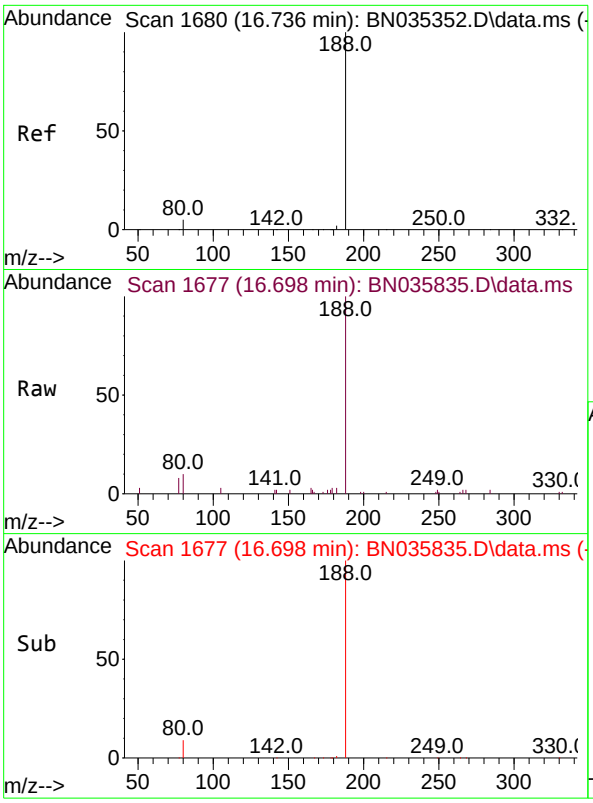


#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:172 Resp: 6261

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	25.3	19.8	29.8

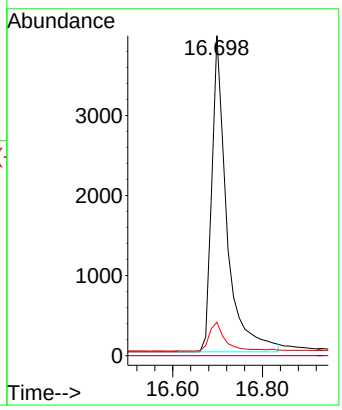




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:188 Resp: 915

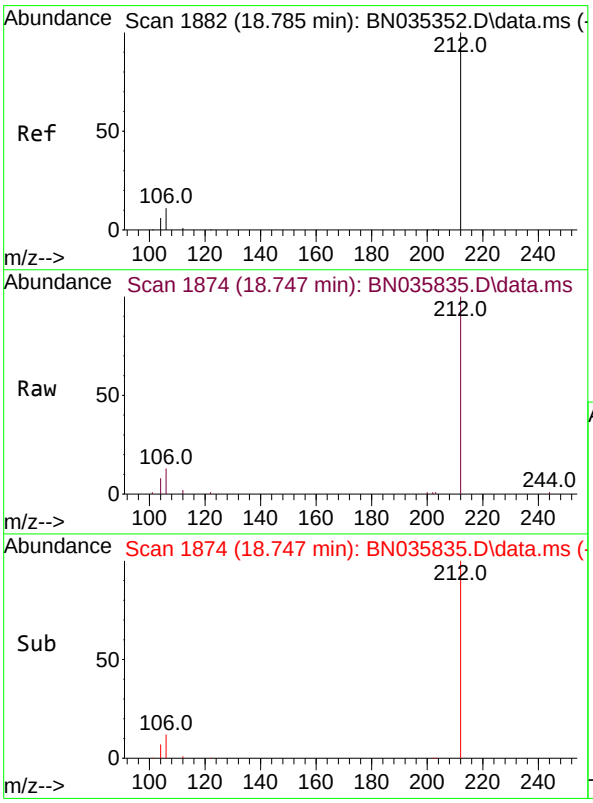
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Manual Integrations
APPROVED

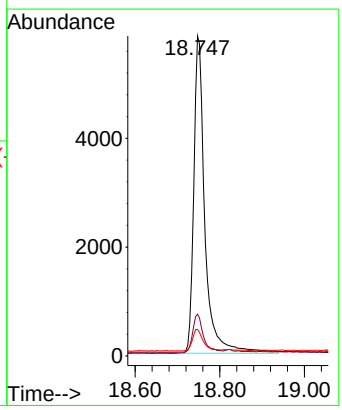
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

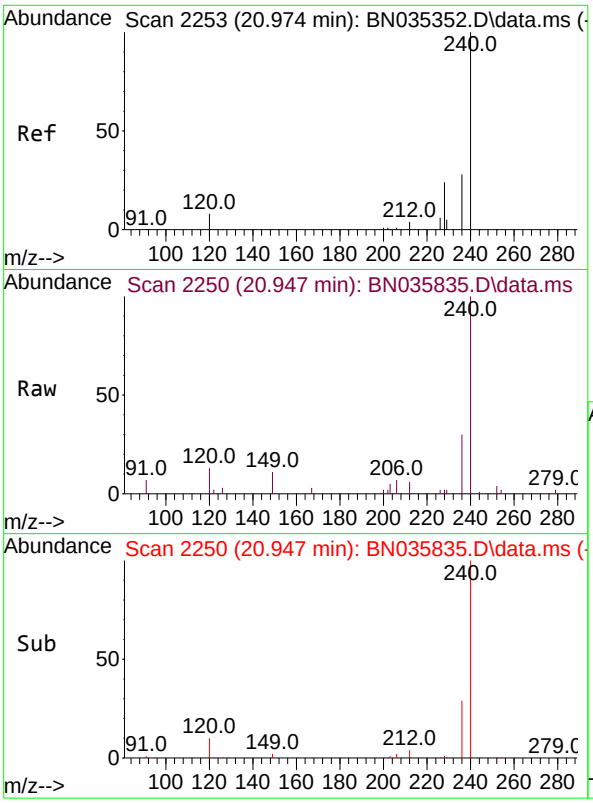


#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:212 Resp: 10636

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.7	5.3	7.9

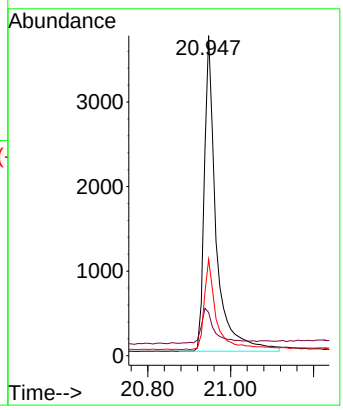




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:240 Resp: 743

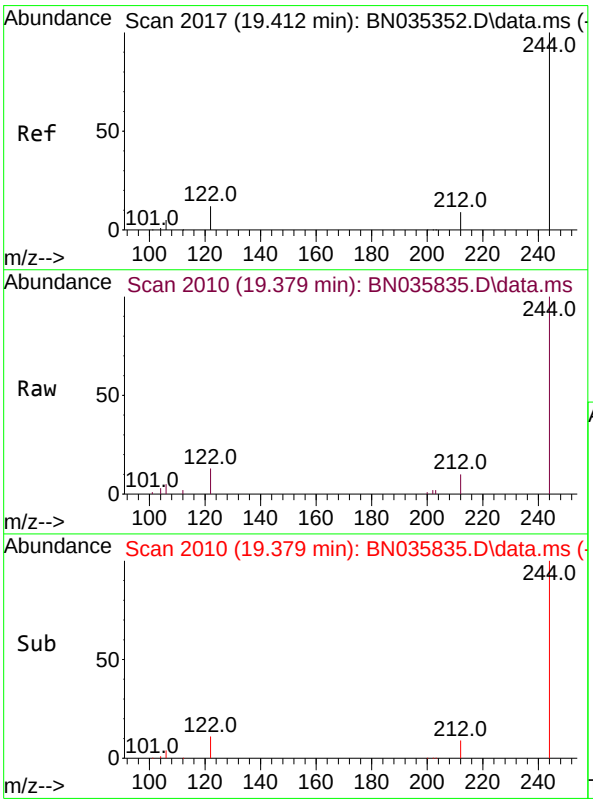
Ion	Ratio	Lower	Upper
240	100		
120	13.5	7.9	11.9#
236	30.1	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Manual Integrations
APPROVED

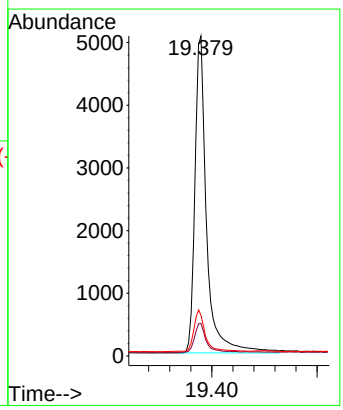
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

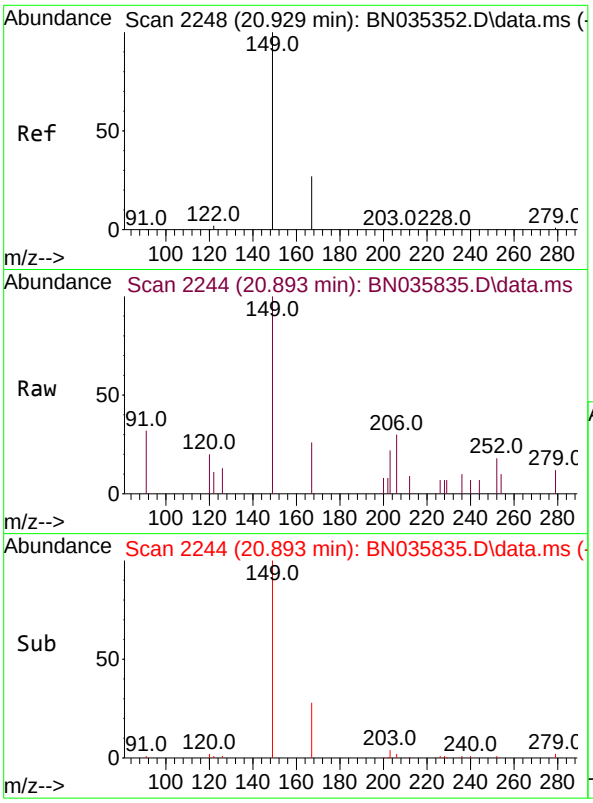


#31
Terphenyl-d14
Concen: 0.533 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:244 Resp: 7814

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.7	10.3	15.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.048 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

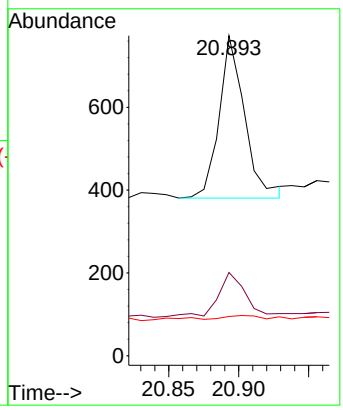
Tgt Ion:149 Resp: 49

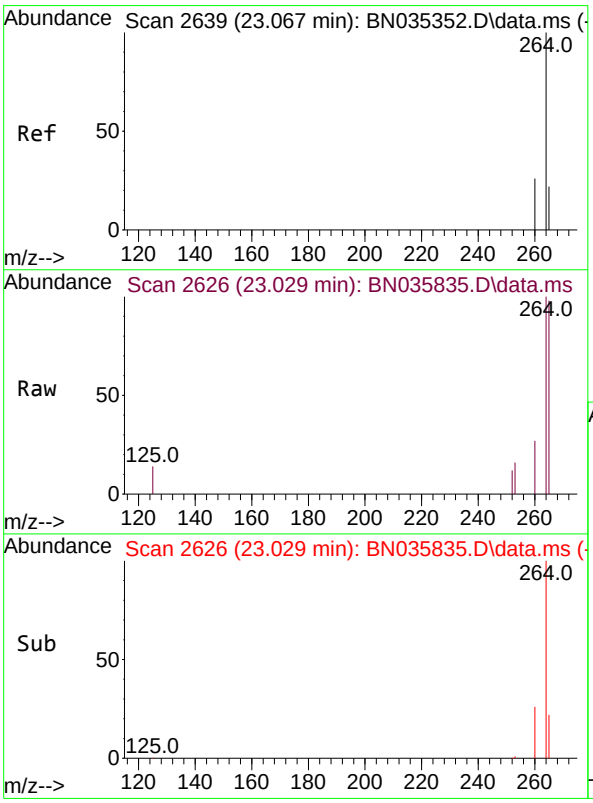
Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.4
279	3.6	2.7	4.1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

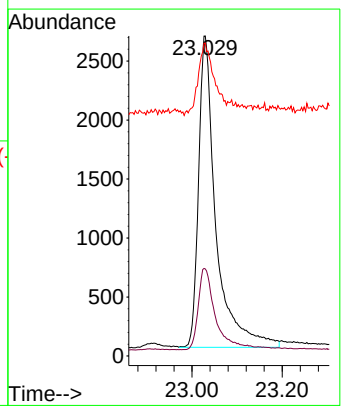




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:264 Resp: 7071

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	97.8	40.2	60.4#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	TT188S1-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-19	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035848.D	1	12/23/24 13:29	12/26/24 11:56	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.17	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		111%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3480	7.257				
1146-65-2	Naphthalene-d8	8200	10.009				
15067-26-2	Acenaphthene-d10	5300	13.925				
1517-22-2	Phenanthrene-d10	11500	16.698				
1719-03-5	Chrysene-d12	9720	20.938				
1520-96-3	Perylene-d12	9430	23.024				

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\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3480	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	8196	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	5304	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng	# 0.00
29) Chrysene-d12	20.938	240	9719	0.400	ng	#-0.02
35) Perylene-d12	23.024	264	9432	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	914	0.105	ng	-0.01
5) Phenol-d6	6.477	99	498	0.048	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2218m	0.443	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4509	0.352	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	838	0.223	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	7269	0.363	ng	-0.01
27) Fluoranthene-d10	18.748	212	14226	0.435	ng	-0.01
31) Terphenyl-d14	19.375	244	10878	0.567	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.975	88	577	0.173	ng	# 83
34) Bis(2-ethylhexyl)phtha...	20.893	149	751	0.056	ng	# 95

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

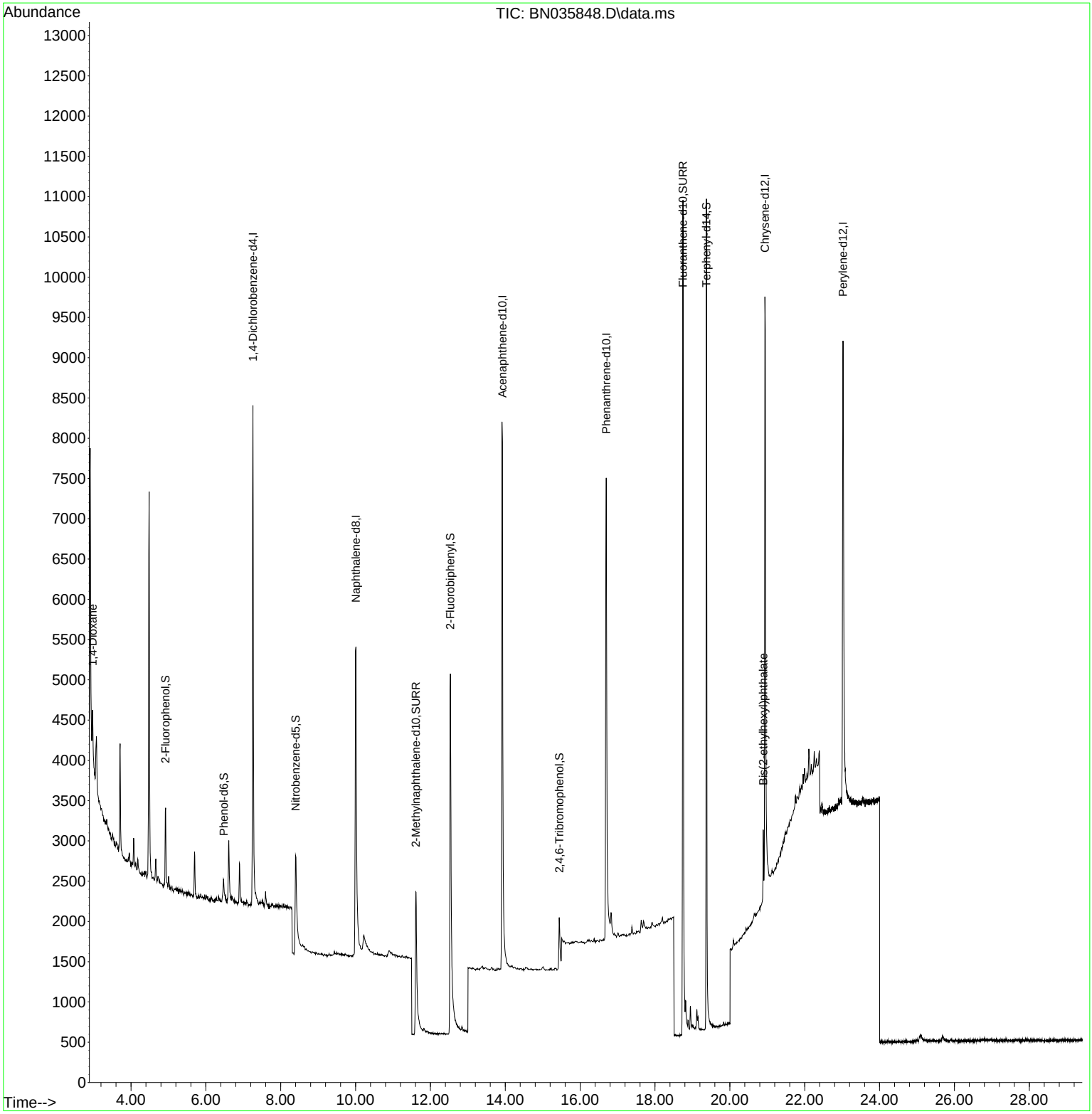
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

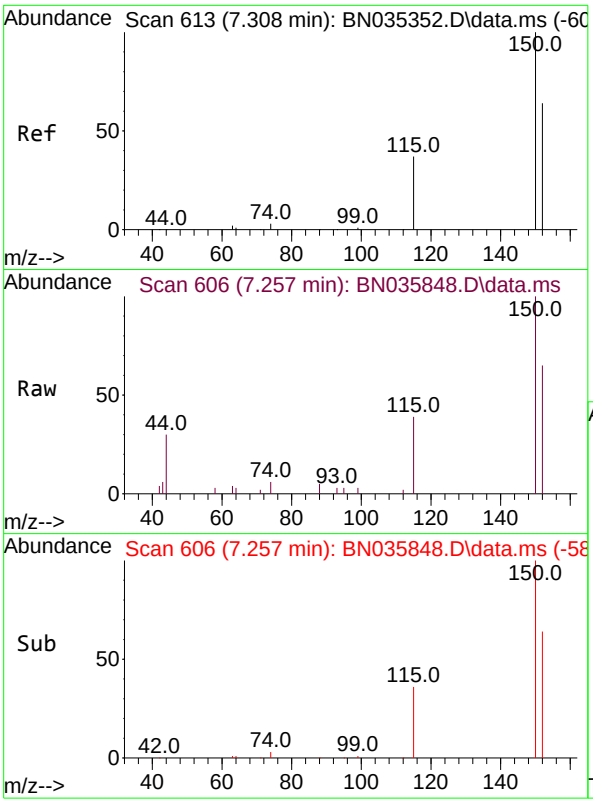
Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

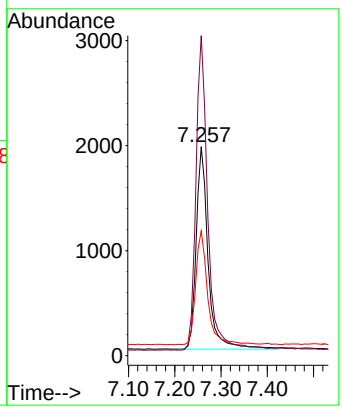




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:152 Resp: 348(

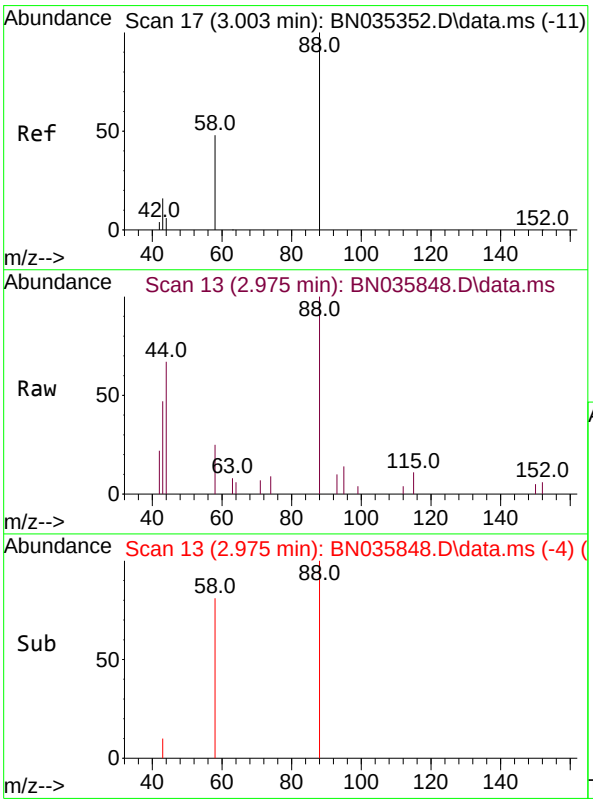
Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	59.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations
APPROVED

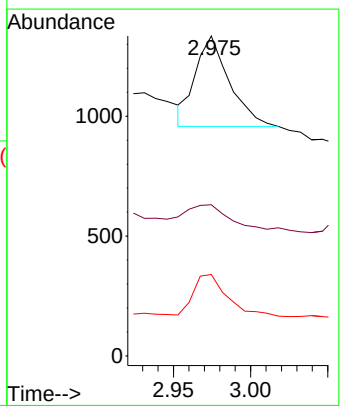
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

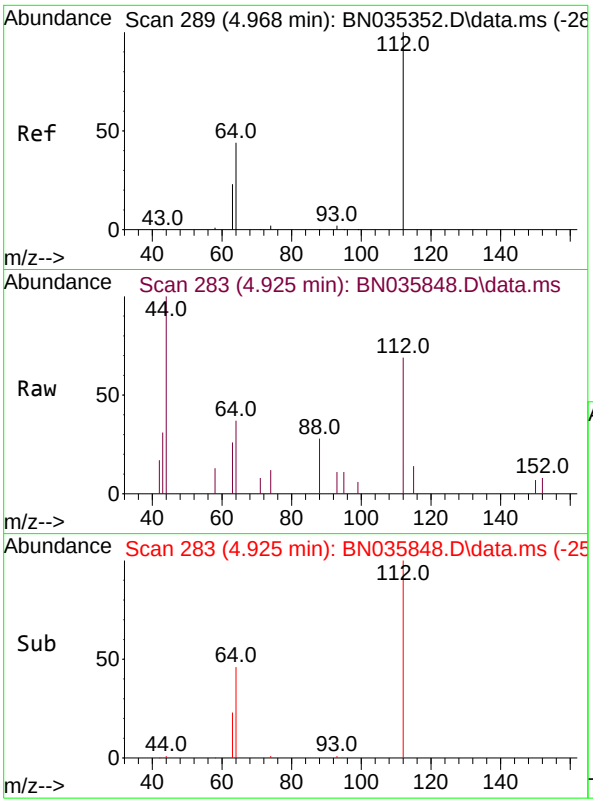


#2
1,4-Dioxane
Concen: 0.173 ng
RT: 2.975 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 88 Resp: 577

Ion	Ratio	Lower	Upper
88	100		
43	34.5	17.2	25.8#
58	46.1	44.5	66.7





#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

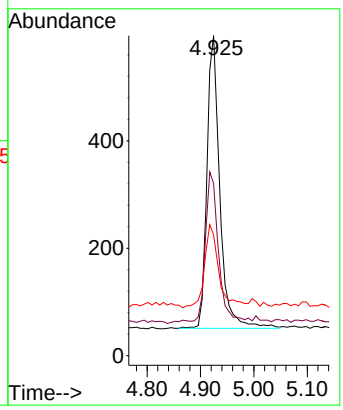
Tgt Ion:112 Resp: 91

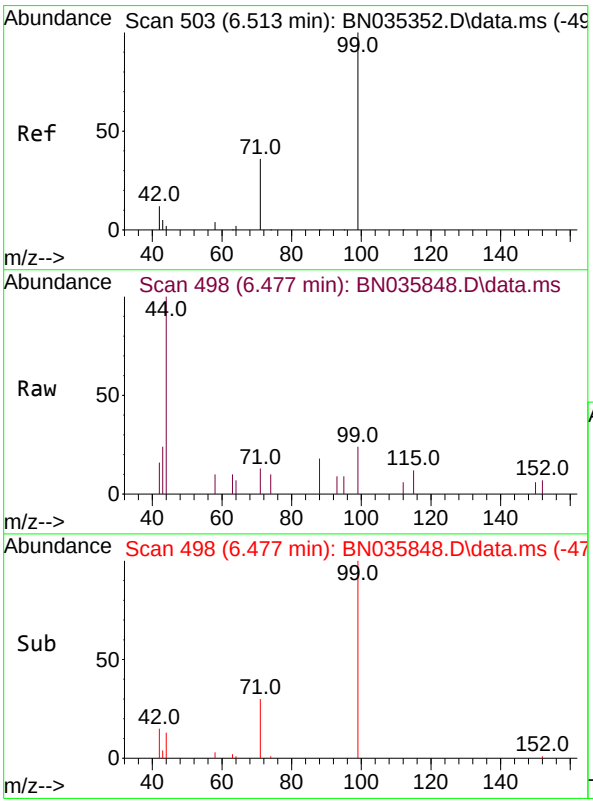
Ion	Ratio	Lower	Upper
112	100		
64	50.8	39.8	59.8
63	31.6	21.0	31.6#

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

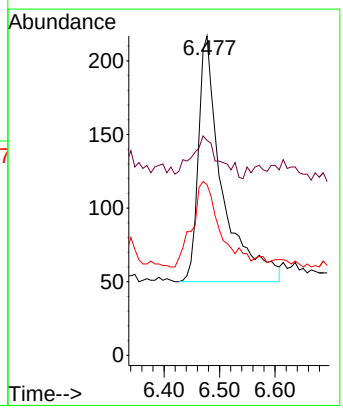


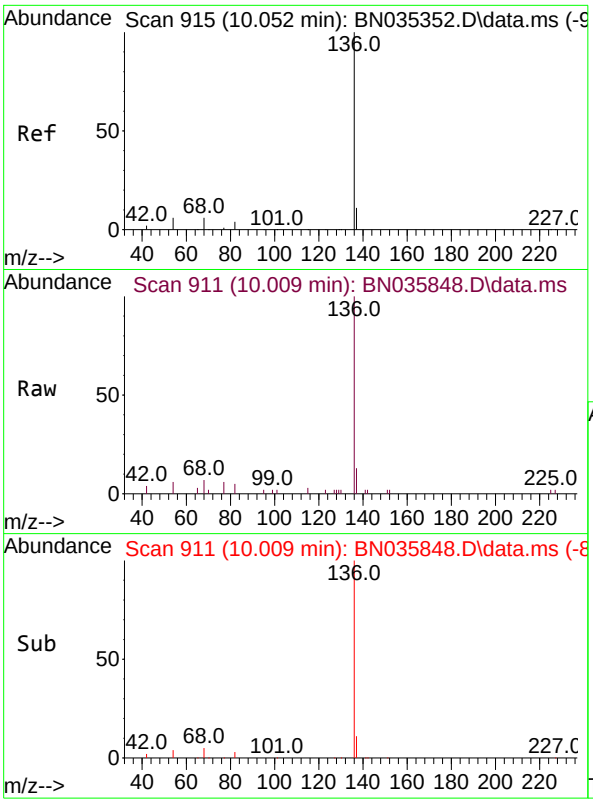


#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 99 Resp: 498

Ion	Ratio	Lower	Upper
99	100		
42	19.5	11.4	17.2#
71	40.4	29.3	43.9

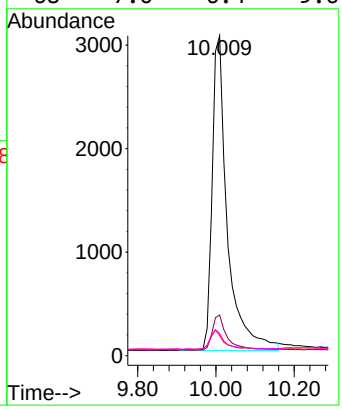




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:136 Resp: 819

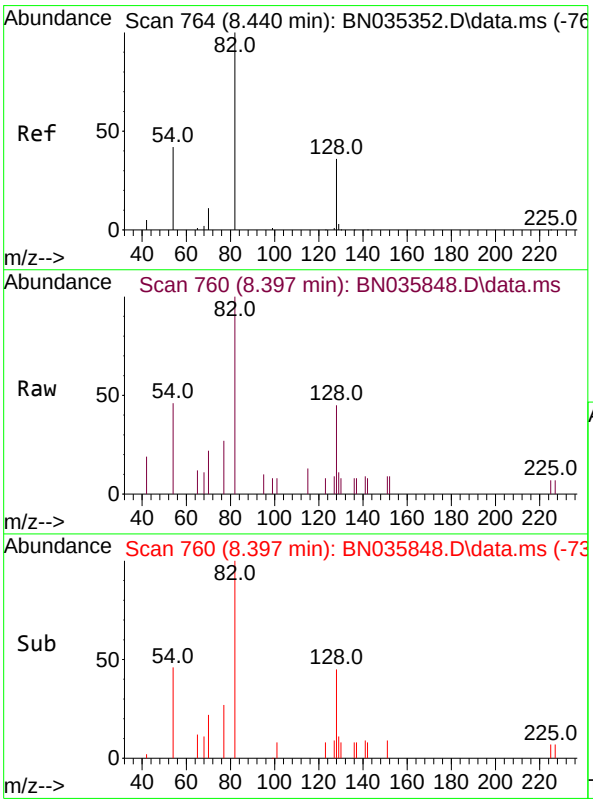
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	6.3	6.1	9.1
68	7.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations APPROVED

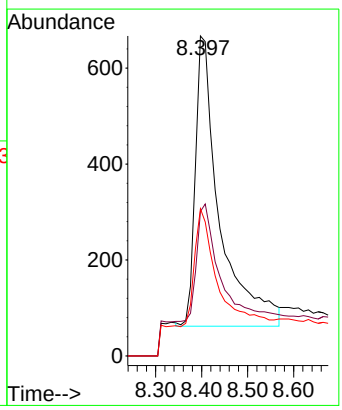
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

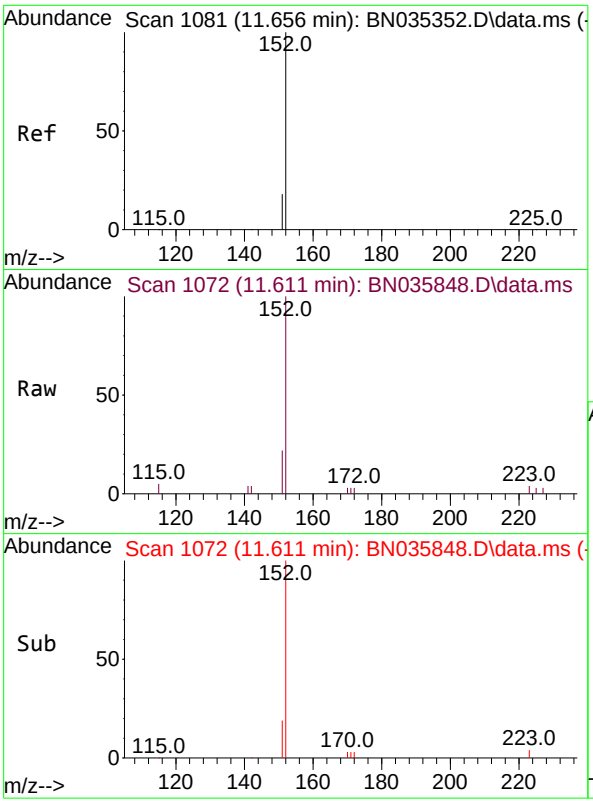


#8
Nitrobenzene-d5
Concen: 0.443 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 82 Resp: 2218

Ion	Ratio	Lower	Upper
82	100		
128	45.1	33.4	50.0
54	46.0	36.7	55.1

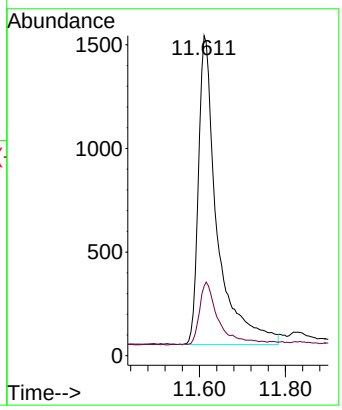




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:152 Resp: 450

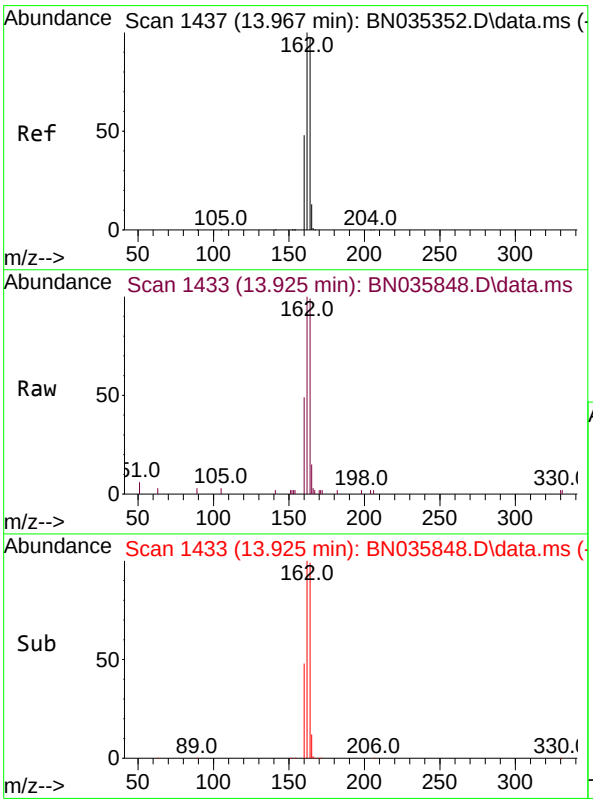
Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations
APPROVED

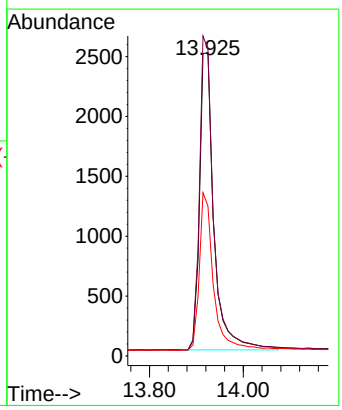
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

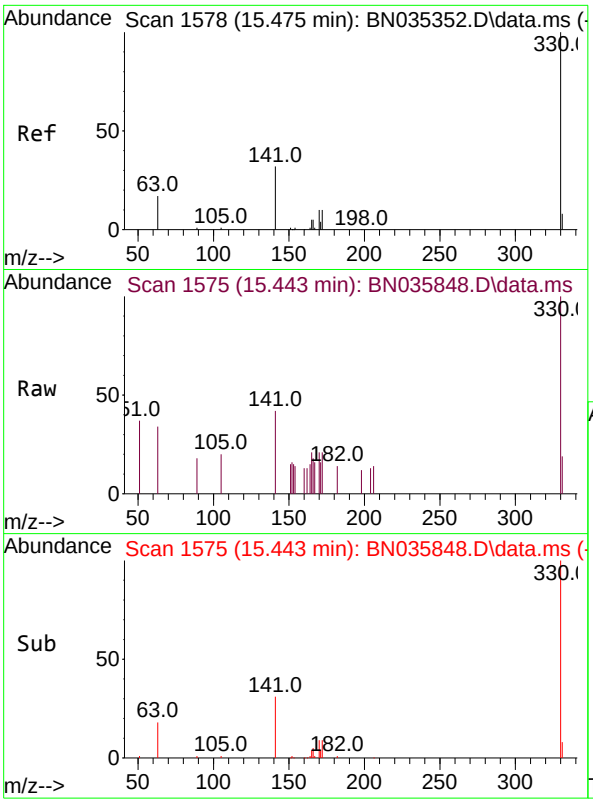


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:164 Resp: 5304

Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	49.4	40.1	60.1

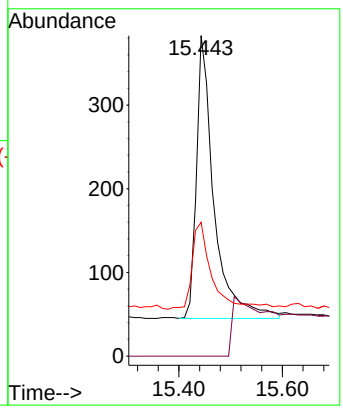




#14
2,4,6-Tribromophenol
Concen: 0.223 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:330 Resp: 83

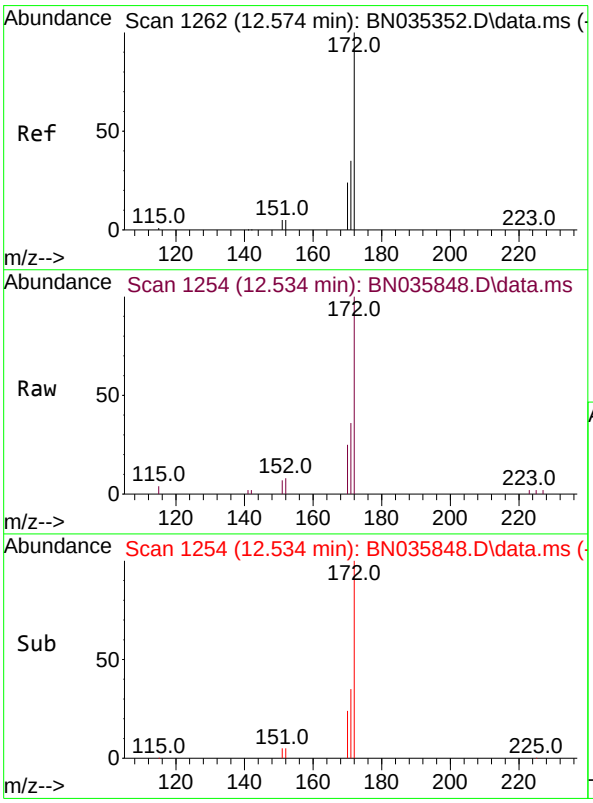
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.1	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations
APPROVED

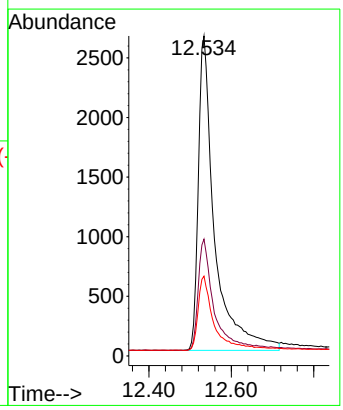
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

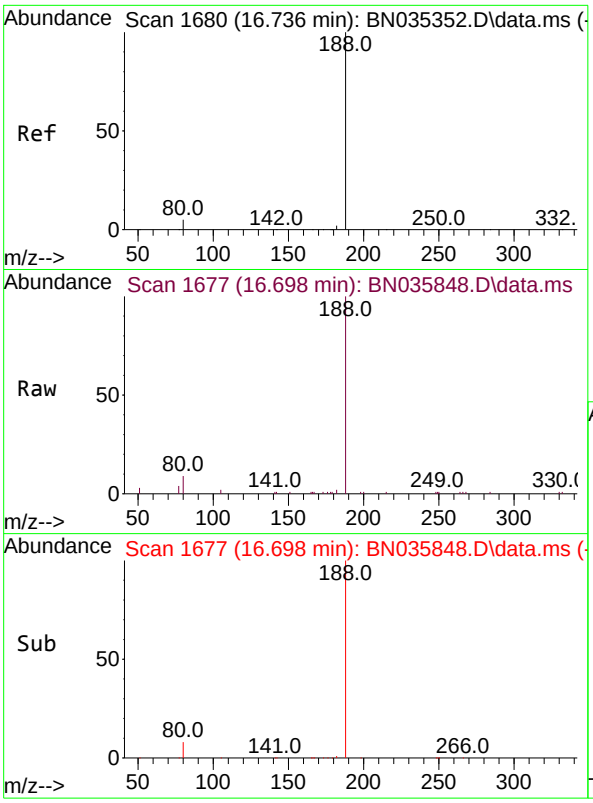


#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:172 Resp: 7269

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.9	19.8	29.8

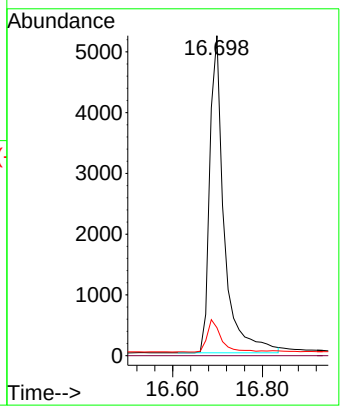




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:188 Resp: 1154

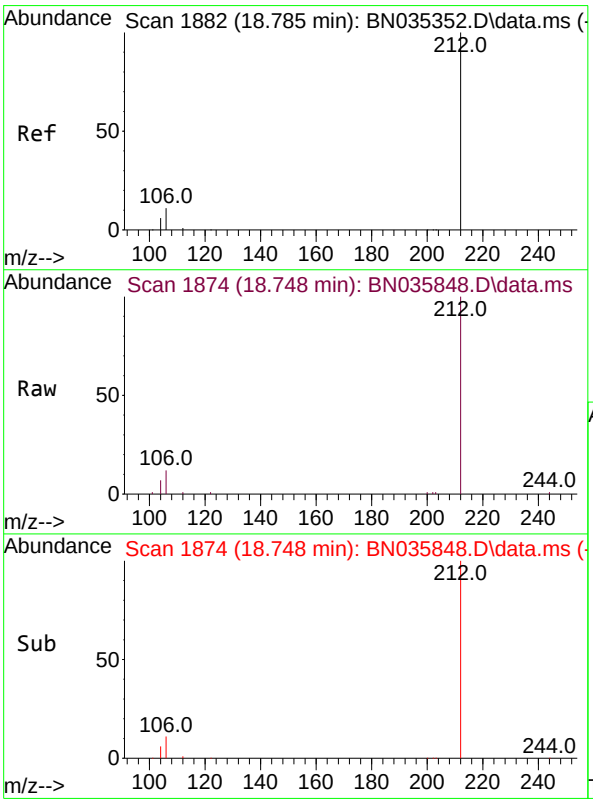
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations
APPROVED

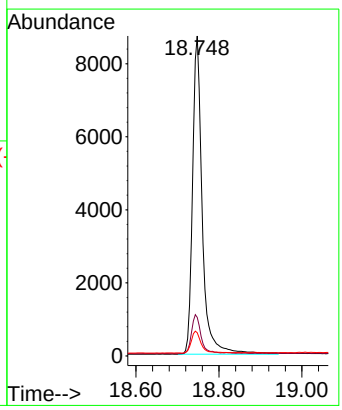
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

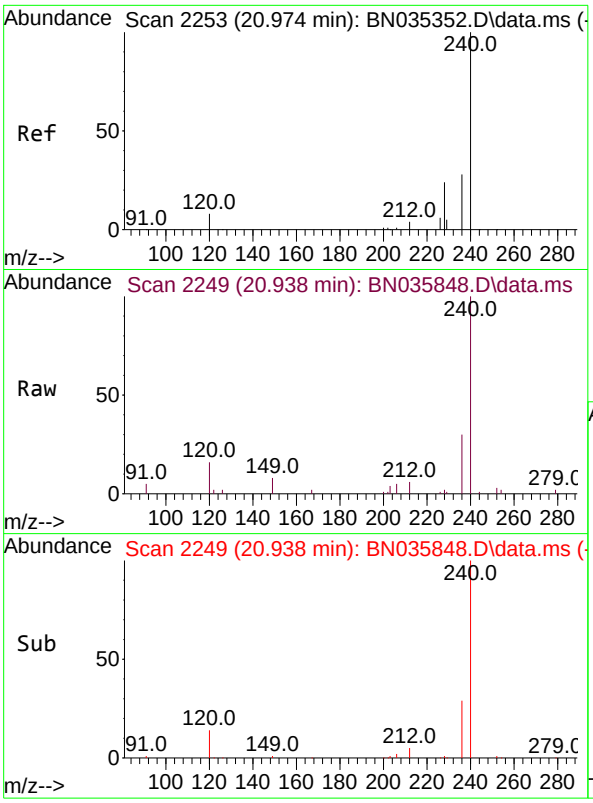


#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:212 Resp: 14226

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	7.2	5.3	7.9





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

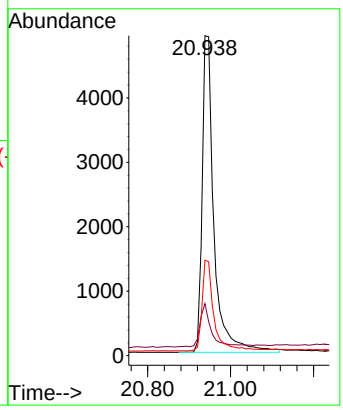
Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

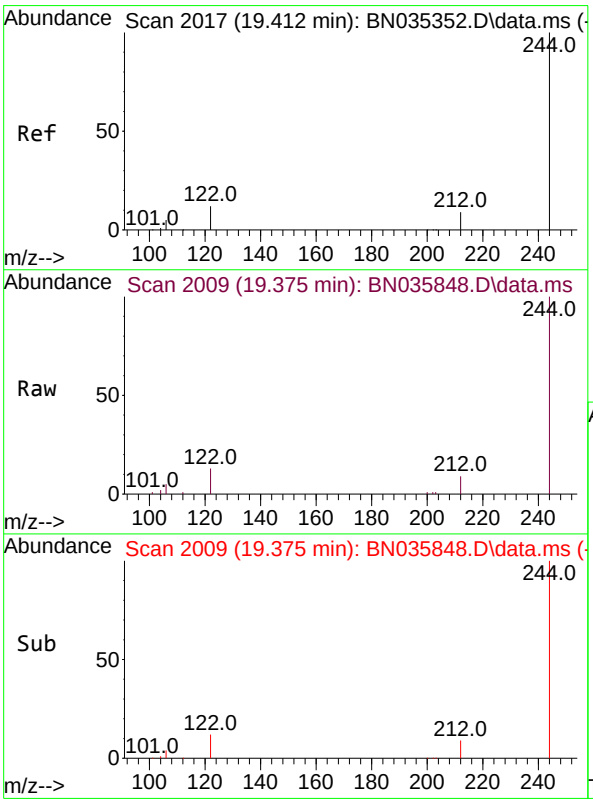
Tgt Ion:240 Resp: 971

Ion	Ratio	Lower	Upper
240	100		
120	16.2	7.9	11.9
236	29.8	22.9	34.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

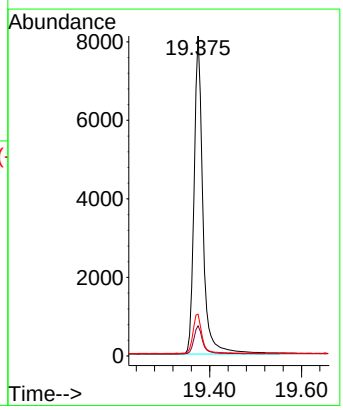


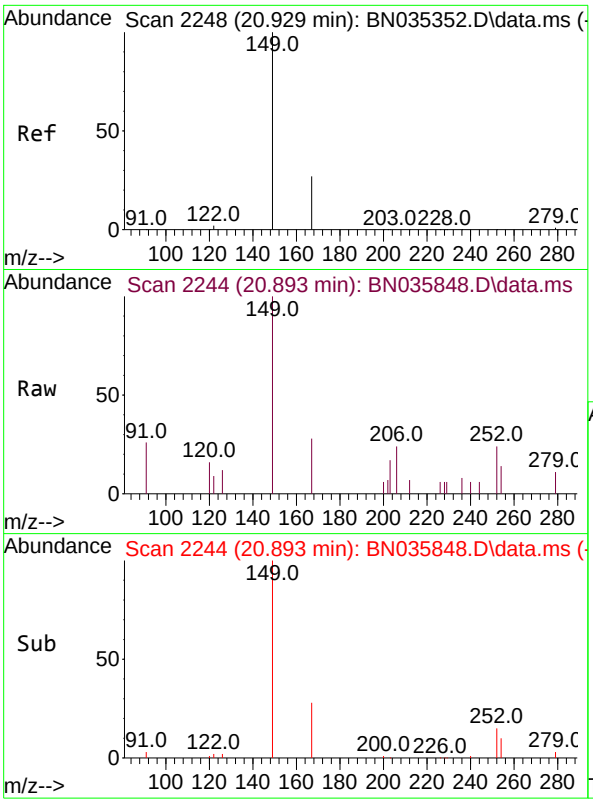


#31
Terphenyl-d14
Concen: 0.567 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:244 Resp: 10878

Ion	Ratio	Lower	Upper
244	100		
212	9.4	8.1	12.1
122	13.1	10.3	15.5

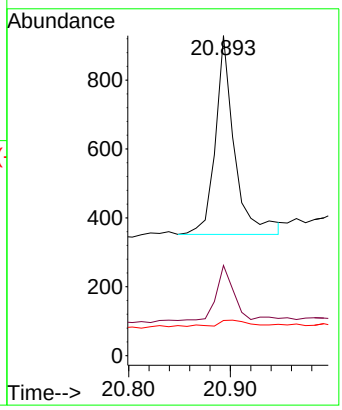




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.056 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:149 Resp: 75

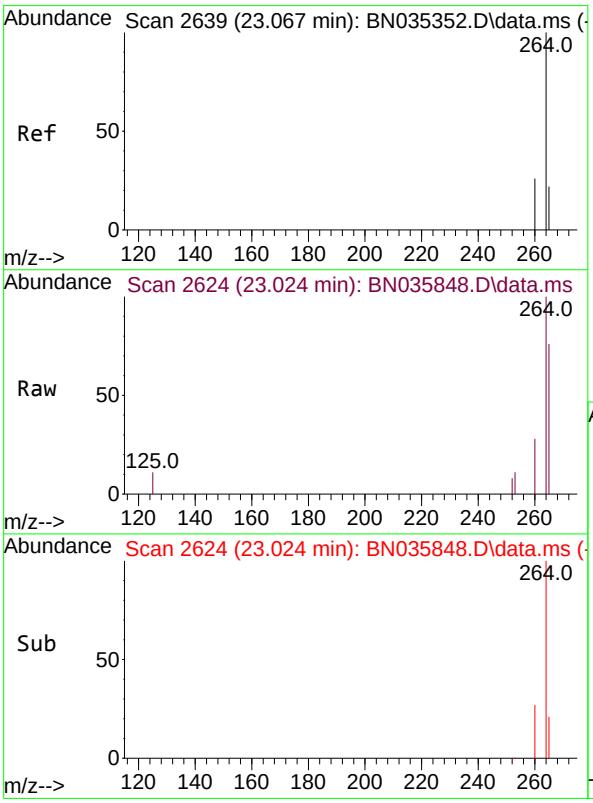
Ion	Ratio	Lower	Upper
149	100		
167	25.2	22.2	33.4
279	6.0	2.7	4.1#



Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Manual Integrations
APPROVED

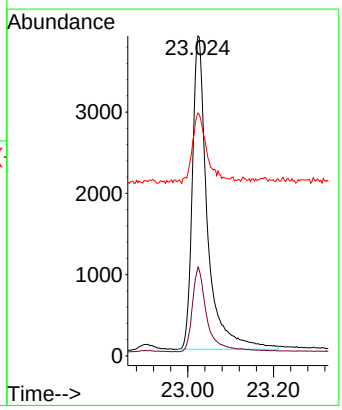
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 2624
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:264 Resp: 9432

Ion	Ratio	Lower	Upper
264	100		
260	27.7	21.4	32.2
265	75.9	40.2	60.4#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/19/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	FB03-20241219	SDG No.:	P5376
Lab Sample ID:	P5376-20	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035837.D	1	12/23/24 13:29	12/25/24 01:40	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		143%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2950	7.257				
1146-65-2	Naphthalene-d8	6790	10.009				
15067-26-2	Acenaphthene-d10	4280	13.924				
1517-22-2	Phenanthrene-d10	8230	16.698				
1719-03-5	Chrysene-d12	6630	20.947				
1520-96-3	Perylene-d12	5860	23.029				

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\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2951	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	6785	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4279	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8231	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6628	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	5858	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	738	0.100	ng	-0.01
5) Phenol-d6	6.492	99	341	0.038	ng	0.00
8) Nitrobenzene-d5	8.408	82	1708m	0.412	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	3847	0.362	ng	-0.01
14) 2,4,6-Tribromophenol	15.453	330	557	0.183	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6166	0.381	ng	0.00
27) Fluoranthene-d10	18.752	212	9755	0.418	ng	0.00
31) Terphenyl-d14	19.379	244	7505	0.574	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.893	149	1349	0.147	ng	# 100

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

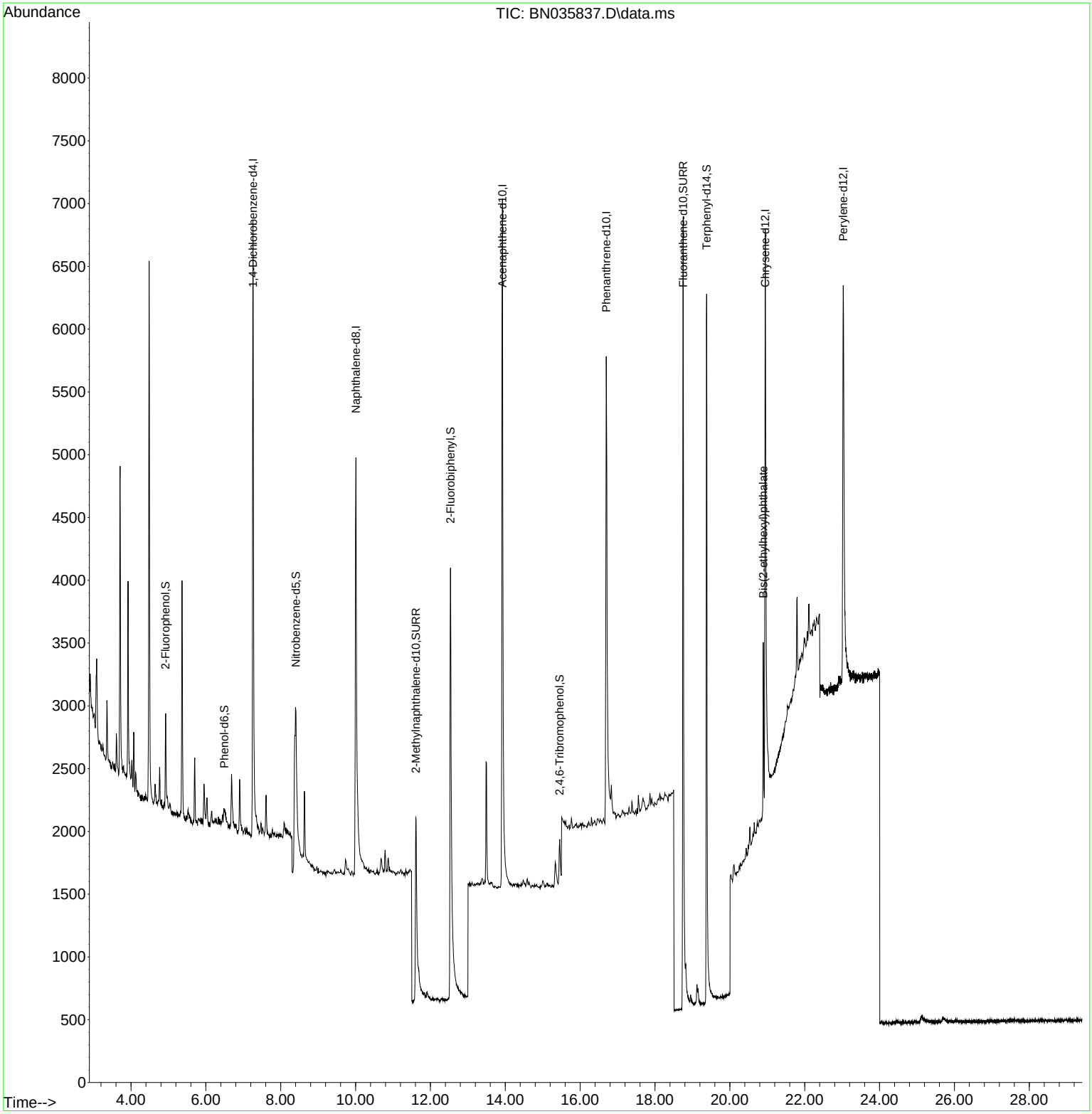
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

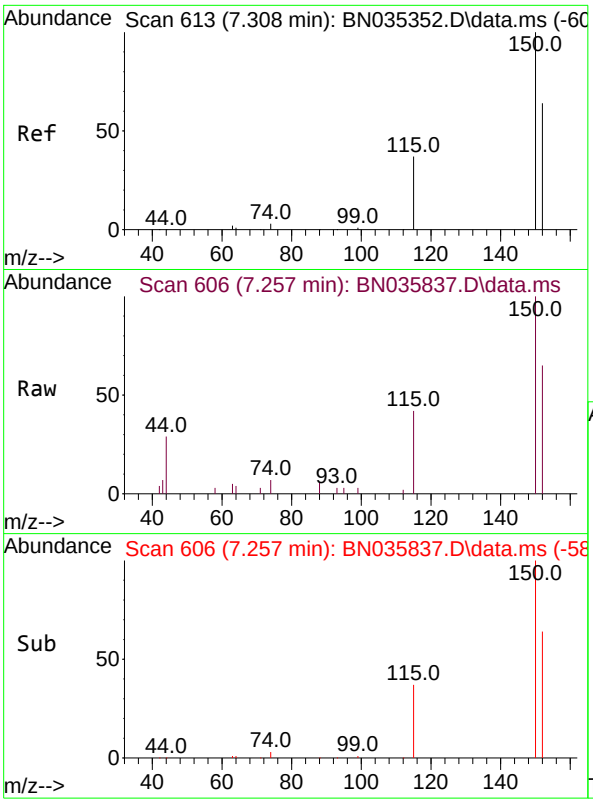
Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

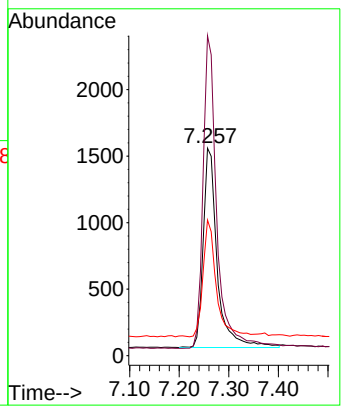




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:152 Resp: 295

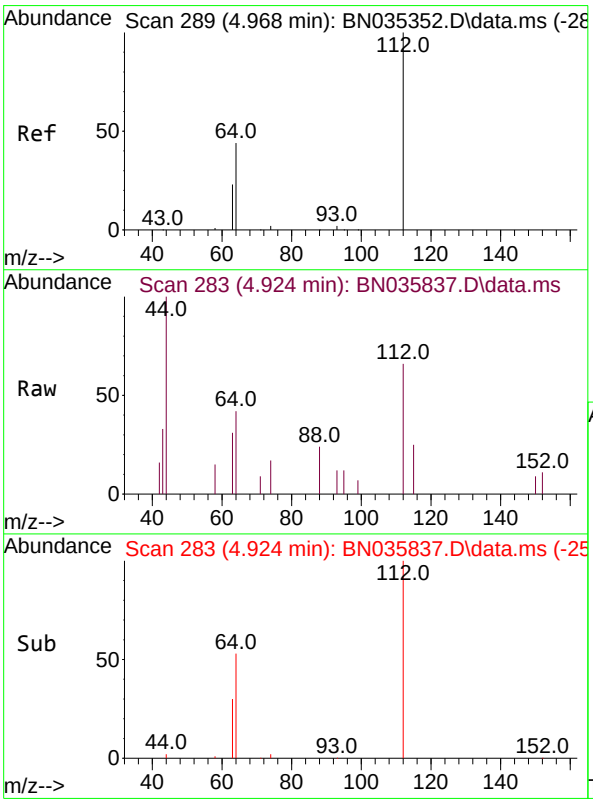
Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.0	186.0
115	65.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

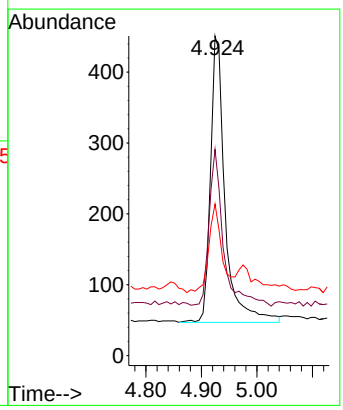
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

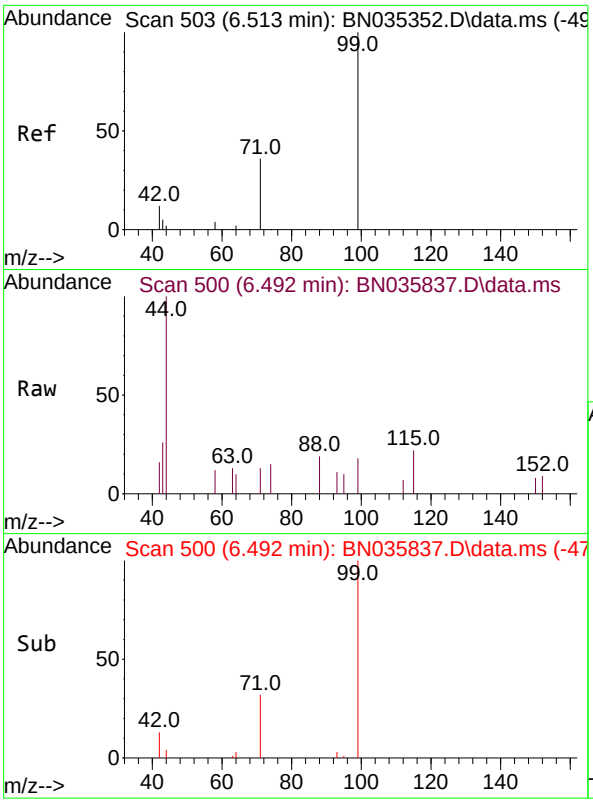


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:112 Resp: 738

Ion	Ratio	Lower	Upper
112	100		
64	53.7	39.8	59.8
63	27.2	21.0	31.6

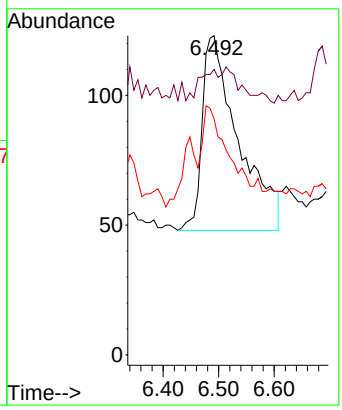




#5
Phenol-d6
Concen: 0.038 ng
RT: 6.492 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion: 99 Resp: 34

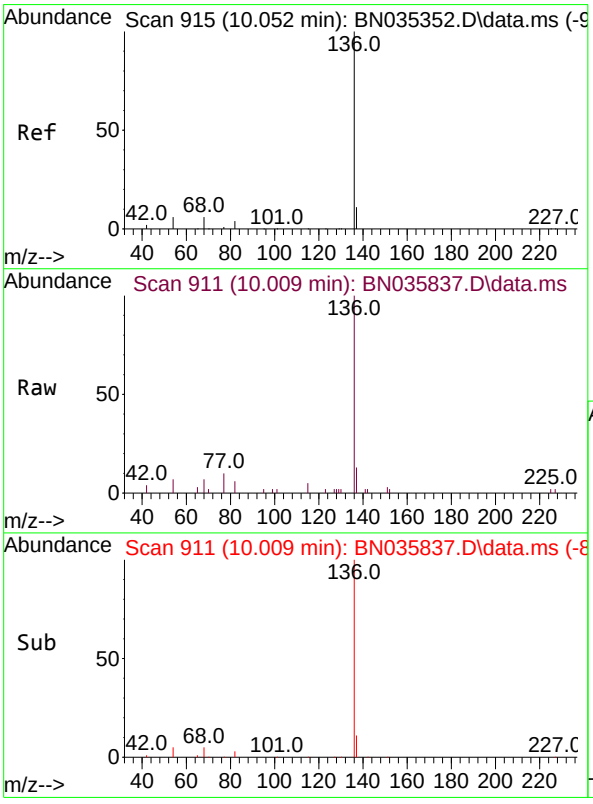
Ion	Ratio	Lower	Upper
99	100		
42	6.7	11.4	17.2
71	30.5	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

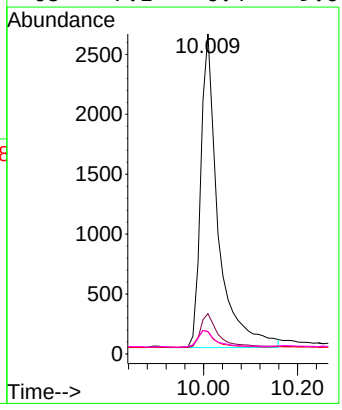
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

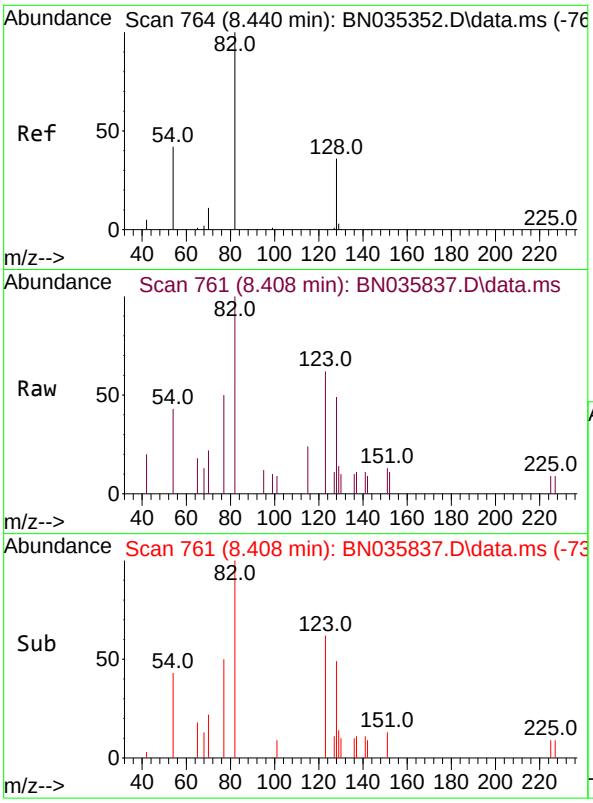


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:136 Resp: 6785

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6

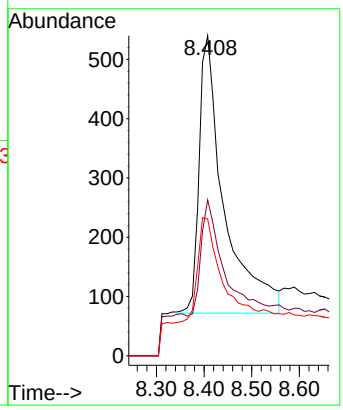




#8
Nitrobenzene-d5
Concen: 0.412 ng m
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion: 82 Resp: 170

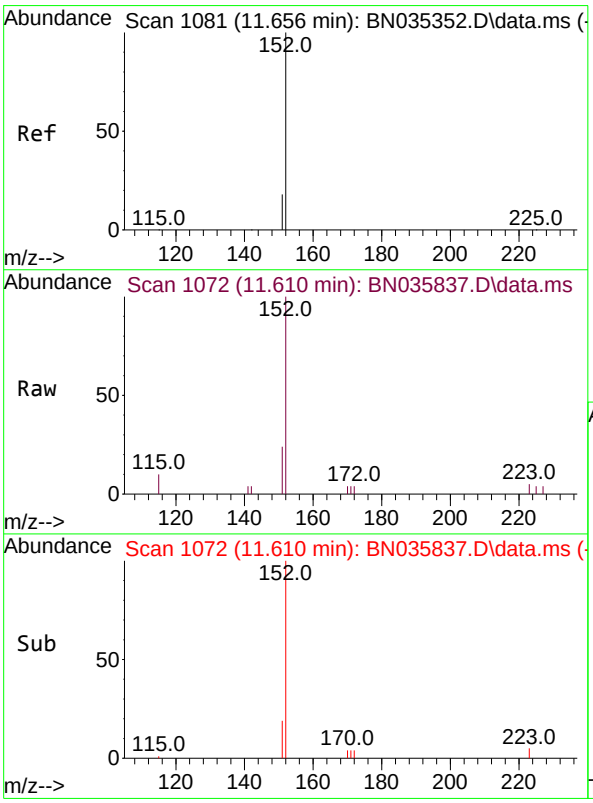
Ion	Ratio	Lower	Upper
82	100		
128	48.7	33.4	50.0
54	42.8	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

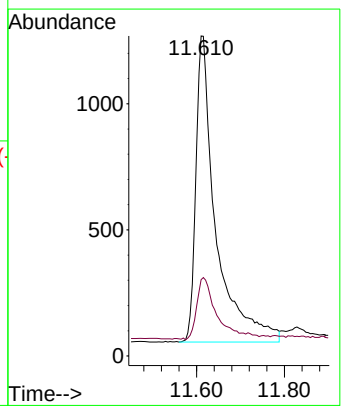
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

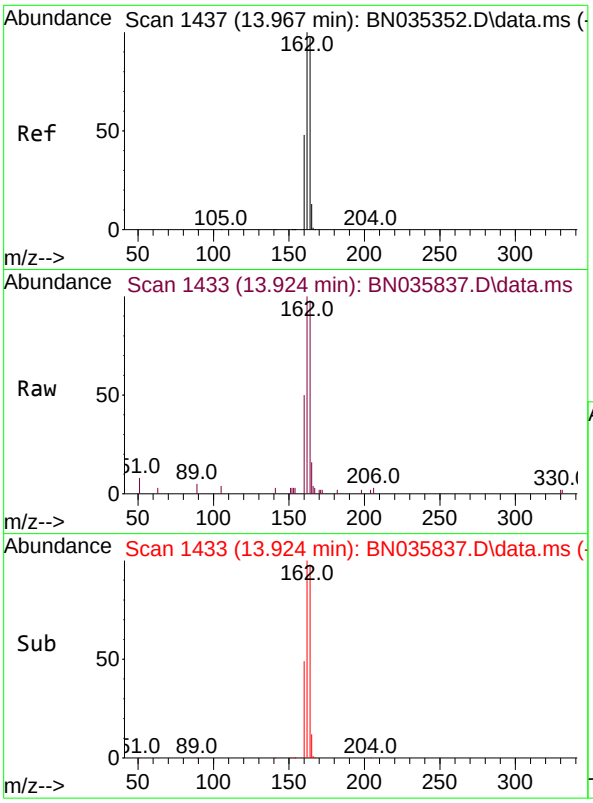


#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:152 Resp: 3847

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

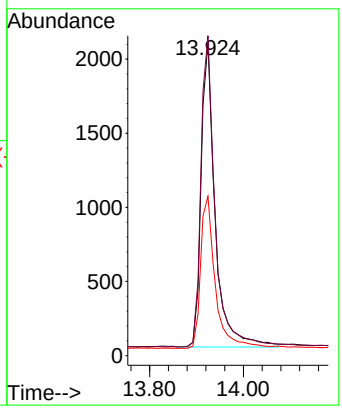




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:164 Resp: 427

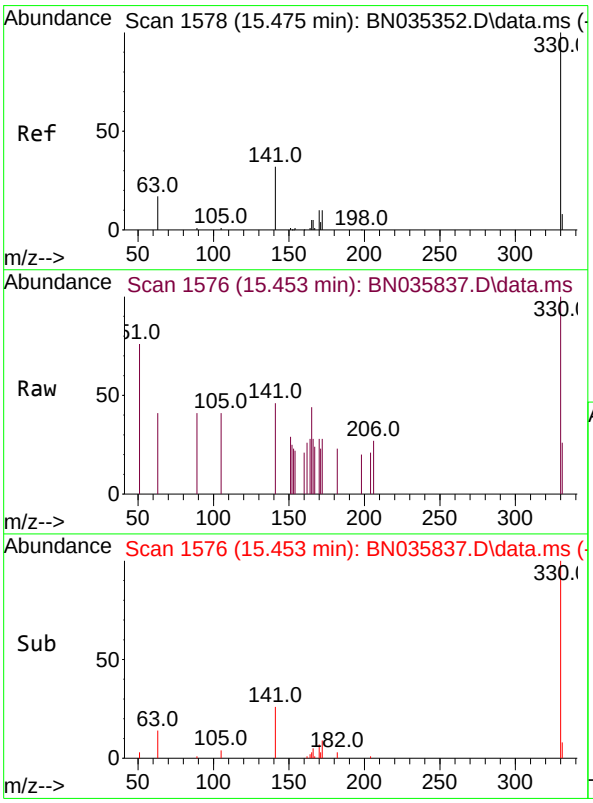
Ion	Ratio	Lower	Upper
164	100		
162	102.1	82.2	123.2
160	50.9	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

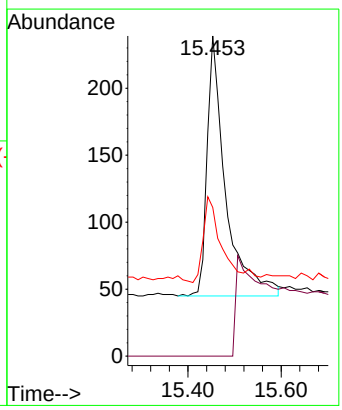
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

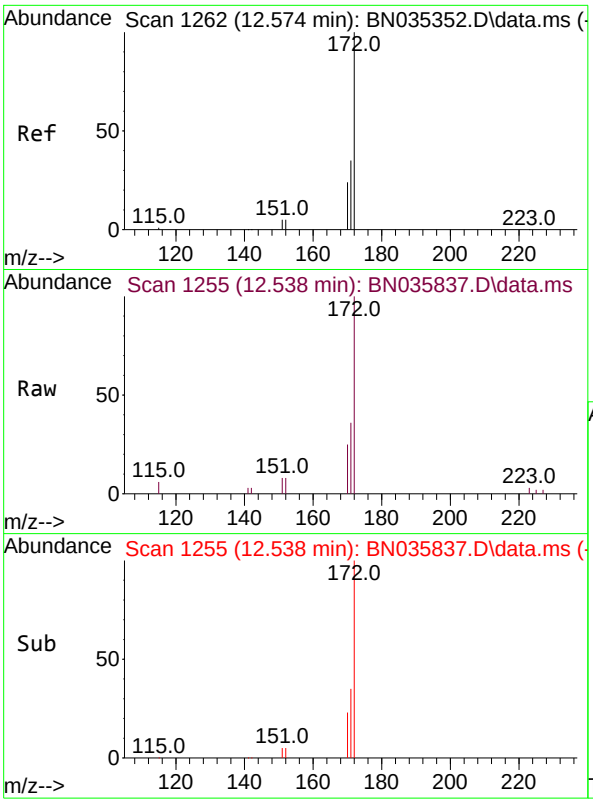


#14
2,4,6-Tribromophenol
Concen: 0.183 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:330 Resp: 557

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.9	26.6	40.0

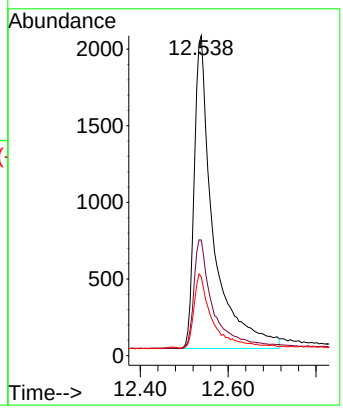




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:172 Resp: 616

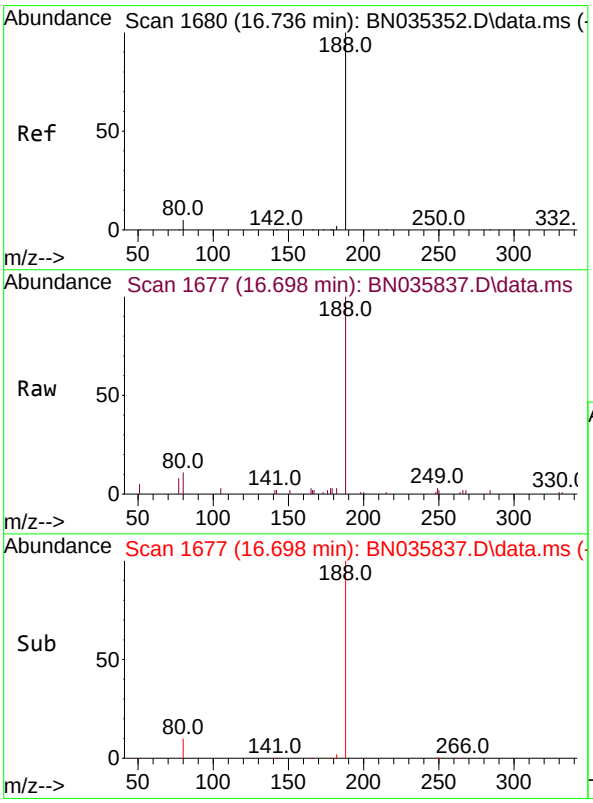
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.6	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

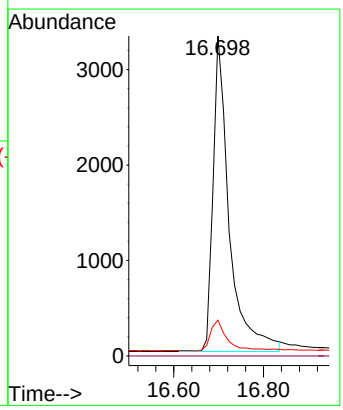
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

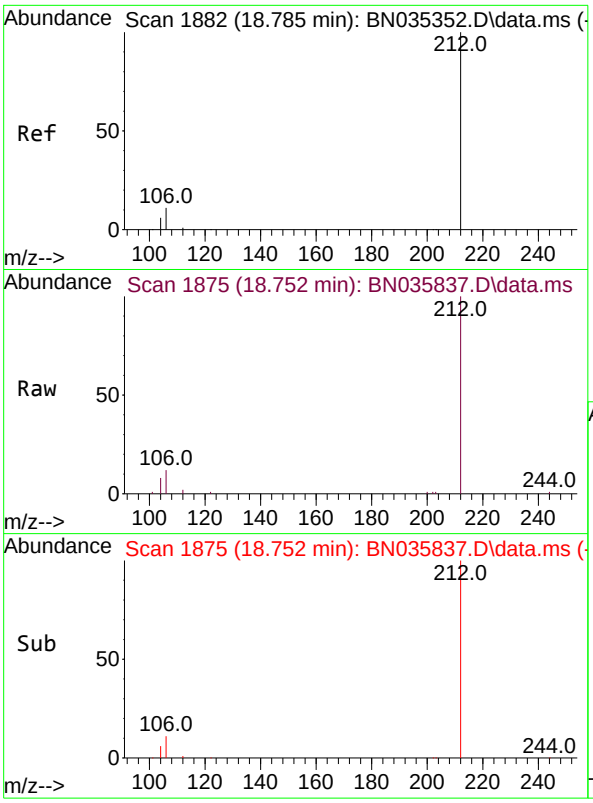


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:188 Resp: 8231

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.2	4.6	6.8#

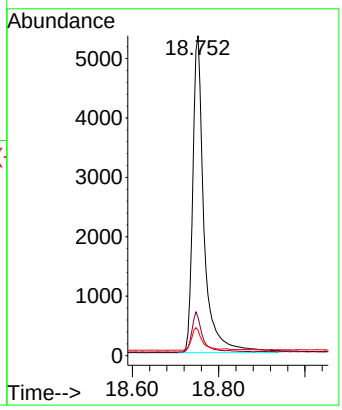




#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:212 Resp: 975

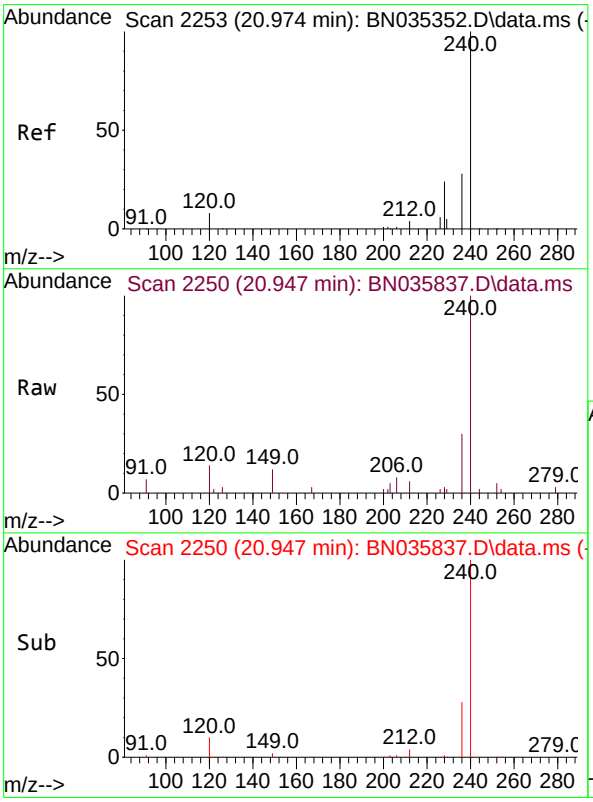
Ion	Ratio	Lower	Upper
212	100		
106	12.2	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

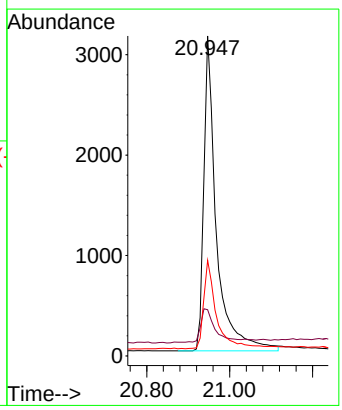
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

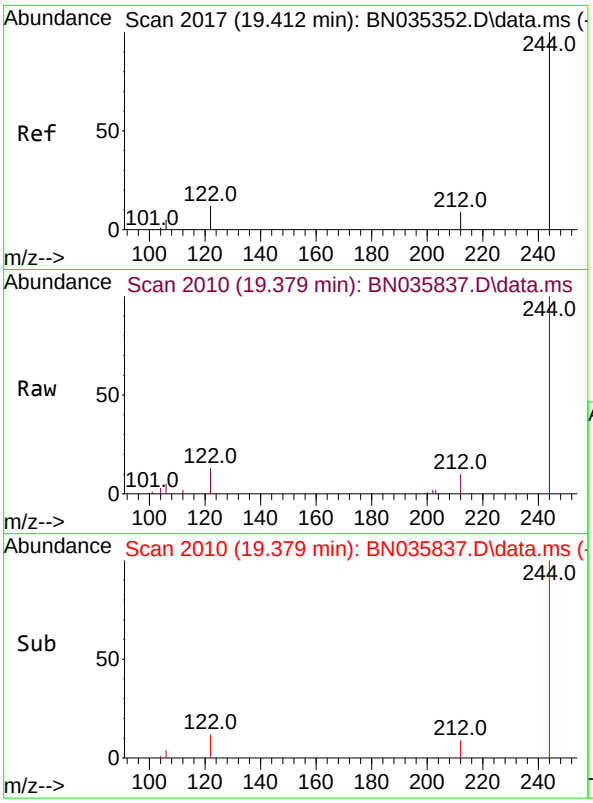


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:240 Resp: 6628

Ion	Ratio	Lower	Upper
240	100		
120	14.4	7.9	11.9#
236	29.9	22.9	34.3

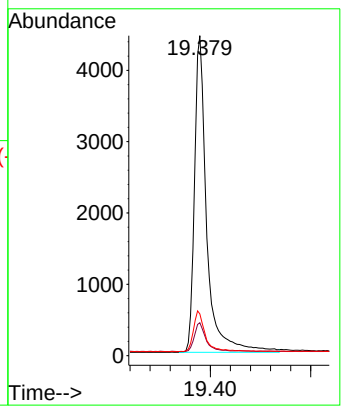




#31
Terphenyl-d14
Concen: 0.574 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:244 Resp: 750

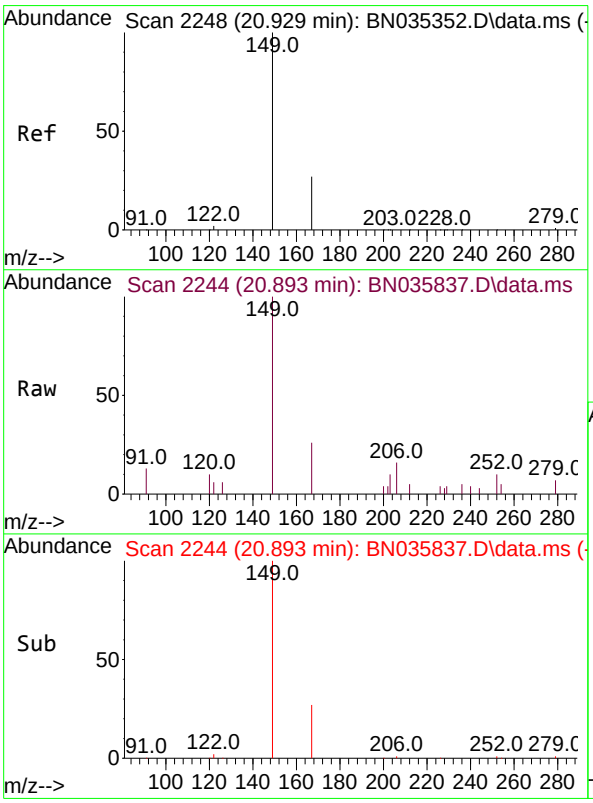
Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	13.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

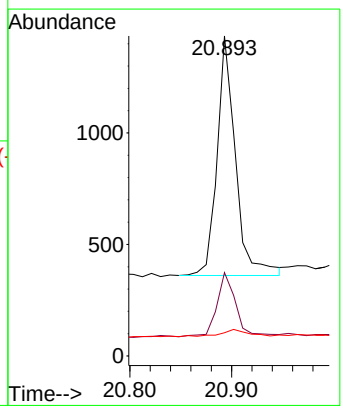
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

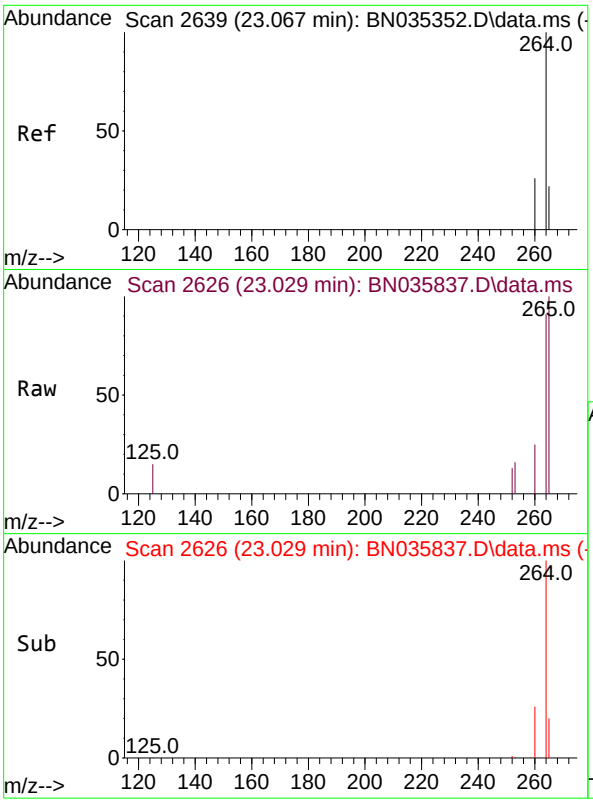


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.147 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:149 Resp: 1349

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	4.4	2.7	4.1#

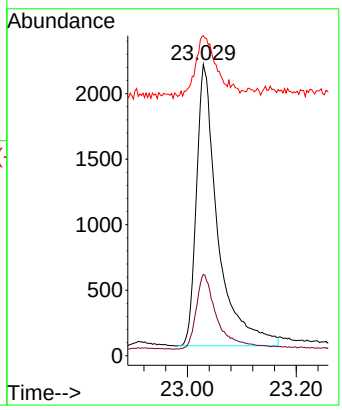




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:264 Resp: 585

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	109.9	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.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	0.406	0.417	0.376	0.380	0.392	0.357	0.348	0.382	6.52
3)		n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319	3.92
4)	S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001	5.88
5)	S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204	2.69
6)		bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012	2.39
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.261	0.244	5.31
9)		Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055	2.22
10)		Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243	2.60
11)	SURR	2-Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626	4.16
12)		2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755	4.25
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.273	0.258	0.257	0.268	0.293	0.311	0.328	0.284	9.67
15)	S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512	1.68
16)		Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680	4.68
17)		Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115	2.17
18)		Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596	2.47
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.038	0.031	0.036	0.041	0.051			0.039	19.30
21)		4-Bromophenyl-...	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234	4.85
22)		Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275	2.82
23)		Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167	8.98
24)		Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120	19.86
25)		Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099	3.20
26)		Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994	5.76
27)	SURR	Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134	4.10
28)		Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481	3.99
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477	3.79
31)	S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789	3.08
32)		Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399	2.98
33)		Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443	1.84
34)		Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553	12.96
35)	I	Perylene-d12	----------ISTD----------								

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M

36)		Indeno(1,2,3-c...	1.411	1.489	1.532	1.554	1.660	1.615	1.685	1.564	6.22
37)		Benzo(b)fluora...	1.305	1.348	1.313	1.378	1.827	1.463	1.608	1.463	13.12
38)		Benzo(k)fluora...	1.444	1.376	1.402	1.419	1.527	1.447	1.468	1.440	3.39
39)	C	Benzo(a)pyrene	1.204	1.156	1.146	1.171	1.256	1.232	1.271	1.205	4.11
40)		Dibenzo(a,h)an...	1.104	1.187	1.194	1.226	1.315	1.280	1.332	1.234	6.55
41)		Benzo(g,h,i)pe...	1.188	1.238	1.248	1.269	1.360	1.330	1.394	1.289	5.71

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng		0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng		0.00
35) Perylene-d12	23.067	264	13004	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	573	0.101	ng		0.00
5) Phenol-d6	6.513	99	686	0.096	ng		0.00
8) Nitrobenzene-d5	8.450	82	327m	0.065	ng		0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng		0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng		0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	#	87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	#	90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng		98
9) Naphthalene	10.105	128	1527	0.102	ng	#	91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	#	97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng		96
16) Acenaphthylene	13.679	152	1675	0.096	ng		100
17) Acenaphthene	14.031	154	1143	0.100	ng		99
18) Fluorene	15.026	166	1620	0.096	ng		98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	#	29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	#	94
22) Hexachlorobenzene	16.041	284	720	0.100	ng		97
23) Atrazine	16.227	200	421	0.068	ng	#	86
24) Pentachlorophenol	16.401	266	381	0.114	ng		90
25) Phenanthrene	16.773	178	2963	0.104	ng		99
26) Anthracene	16.860	178	2617	0.100	ng		98
28) Fluoranthene	18.817	202	4173	0.106	ng		99
30) Pyrene	19.184	202	4461	0.119	ng		100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng		99
33) Chrysene	21.010	228	4123	0.106	ng		97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng		99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng		97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	#	82
38) Benzo(k)fluoranthene	22.494	252	4695m	0.107	ng		
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	#	69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	#	86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	#	93

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

ICAL Form

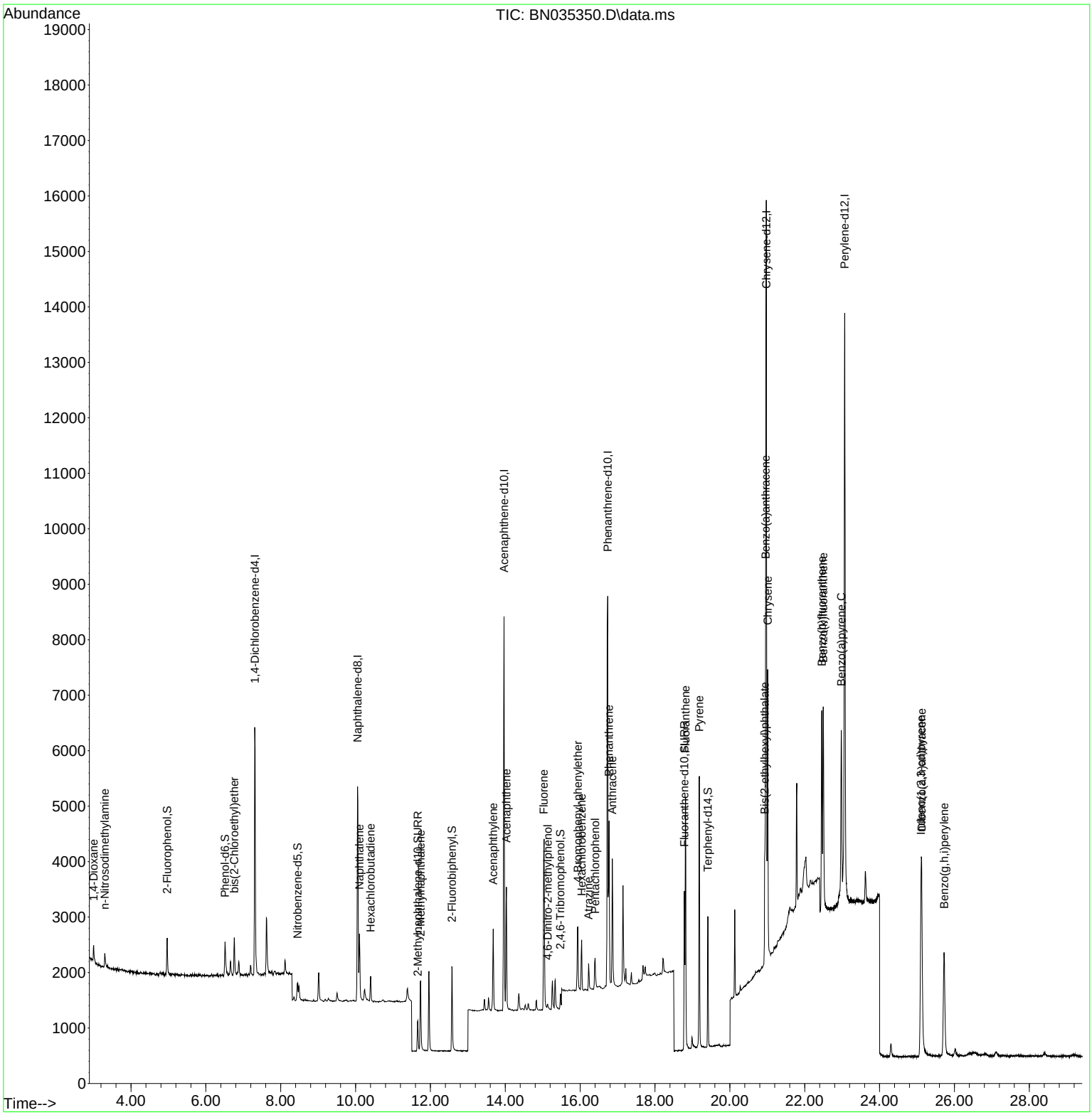
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Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

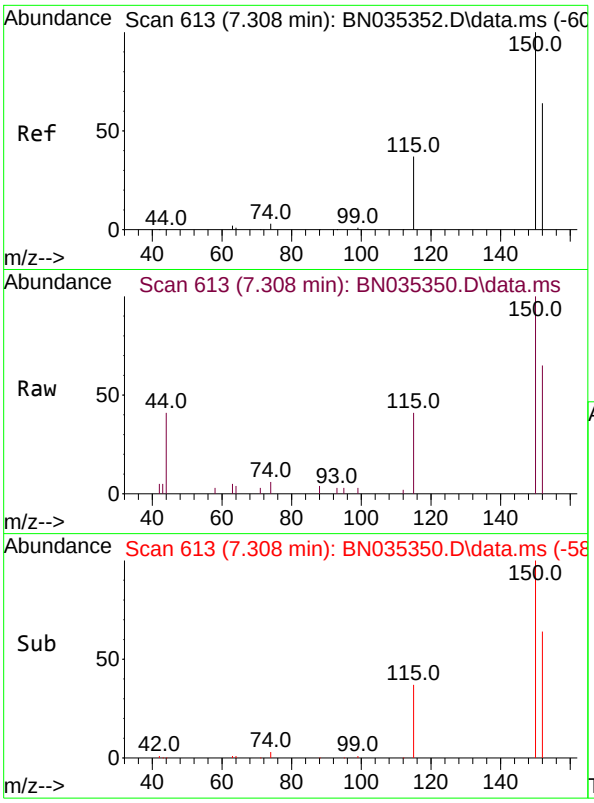
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

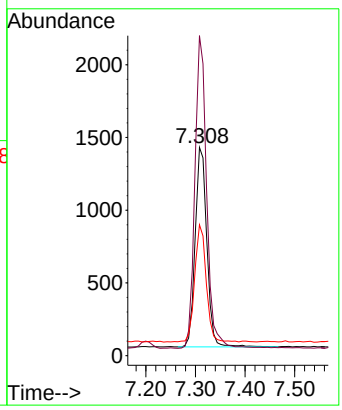




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 223

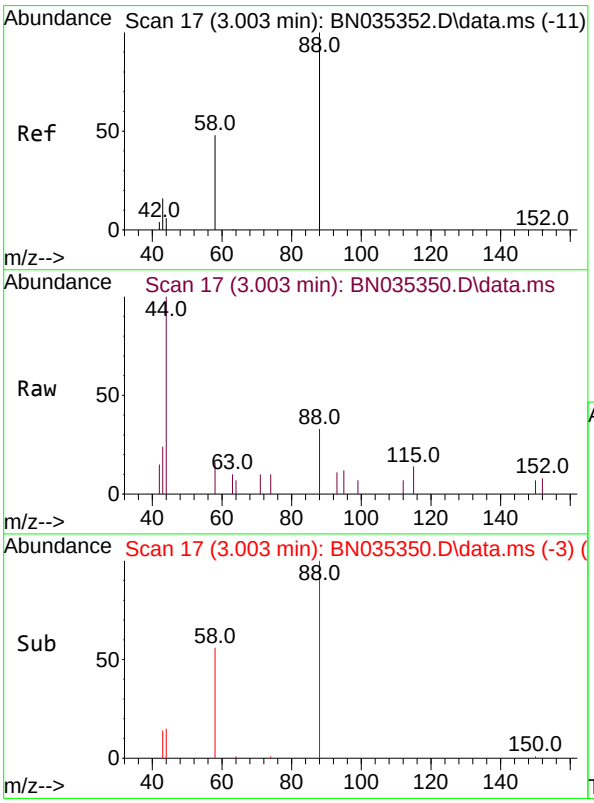
Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

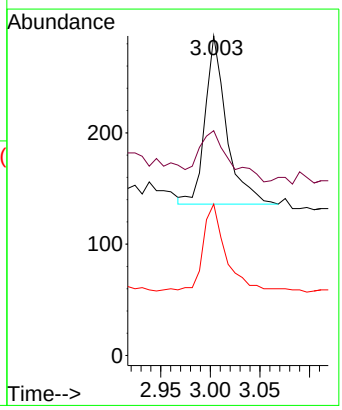
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

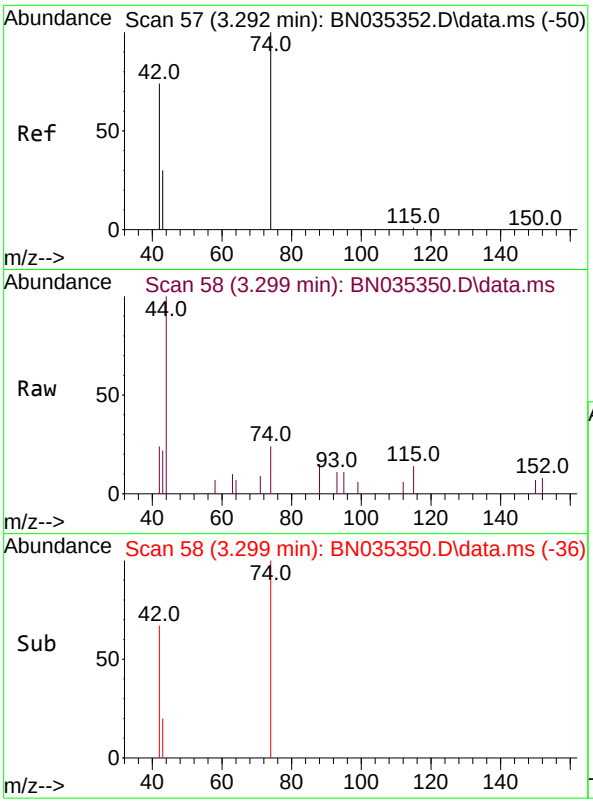


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

Ion	Ratio	Lower	Upper
88	100		
43	41.4	17.2	25.8#
58	54.6	44.5	66.7

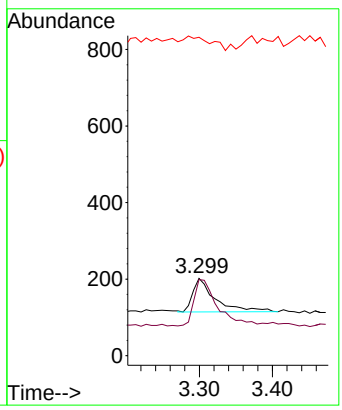




#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 42 Resp: 18

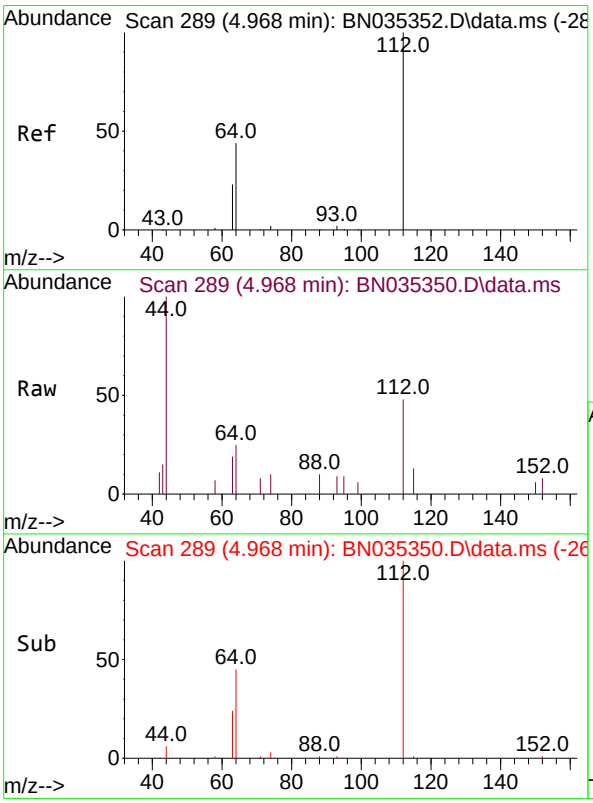
Ion	Ratio	Lower	Upper
42	100		
74	146.5	124.9	187.3
44	51.9	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

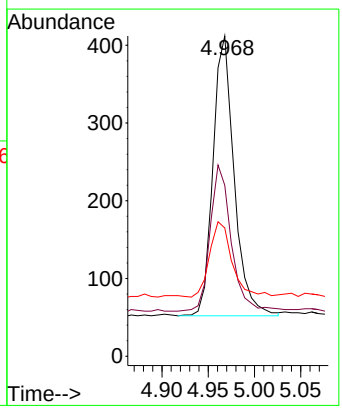
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

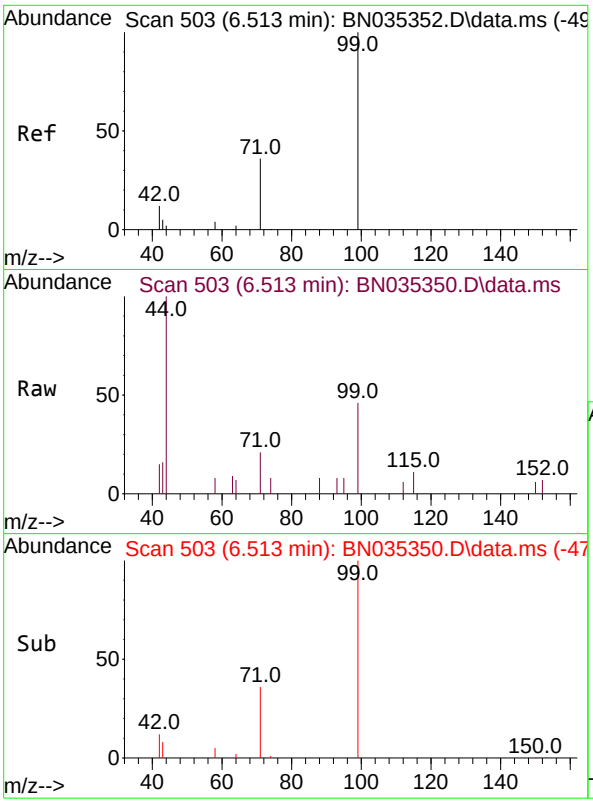


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.8	21.0	31.6

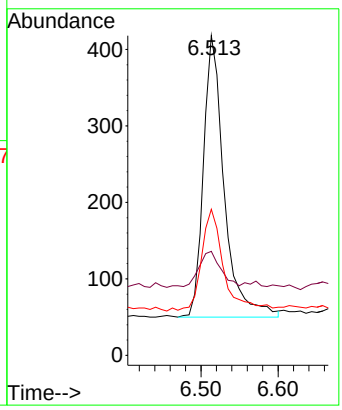




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 99 Resp: 68(

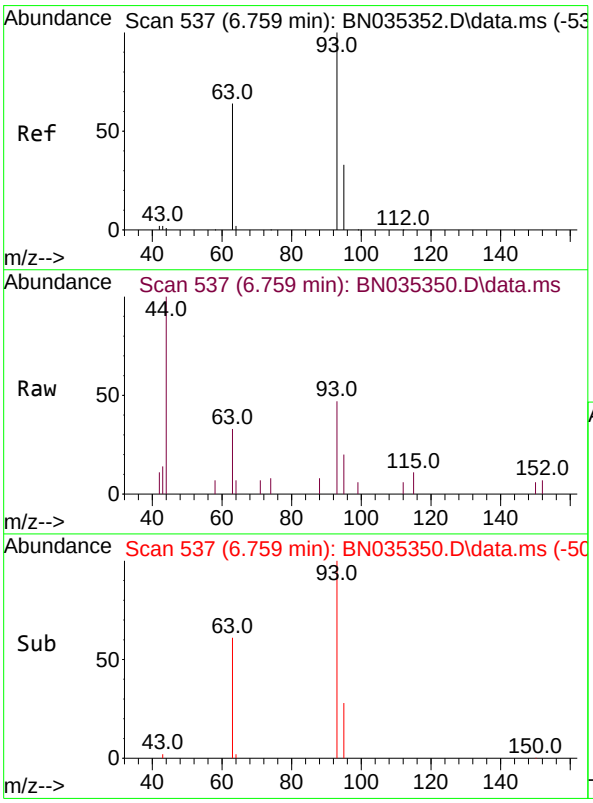
Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

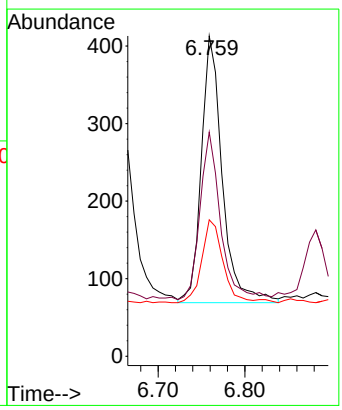
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

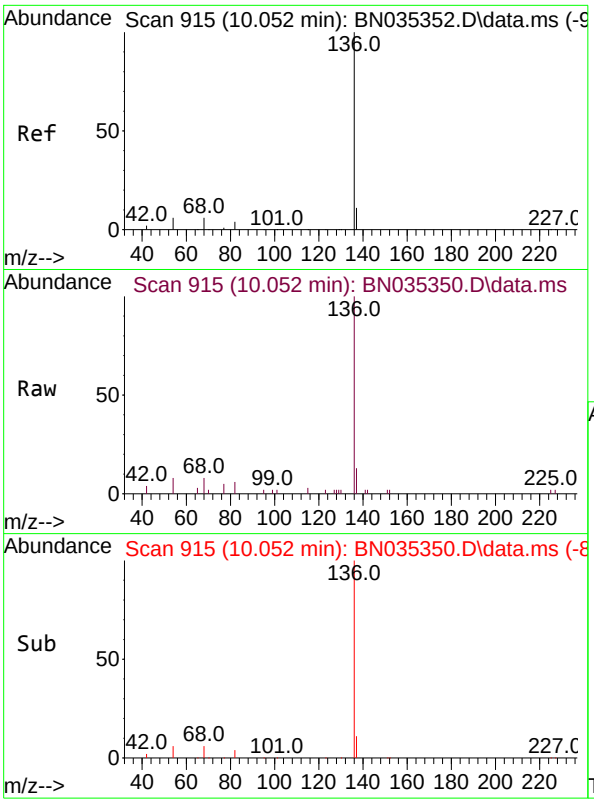


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.3	25.7	38.5

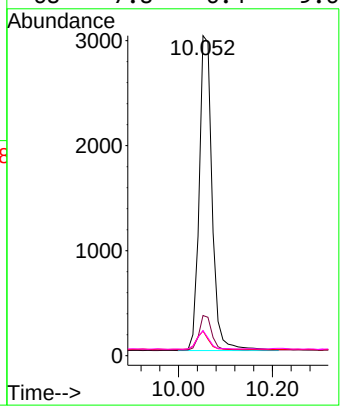




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:136 Resp: 575

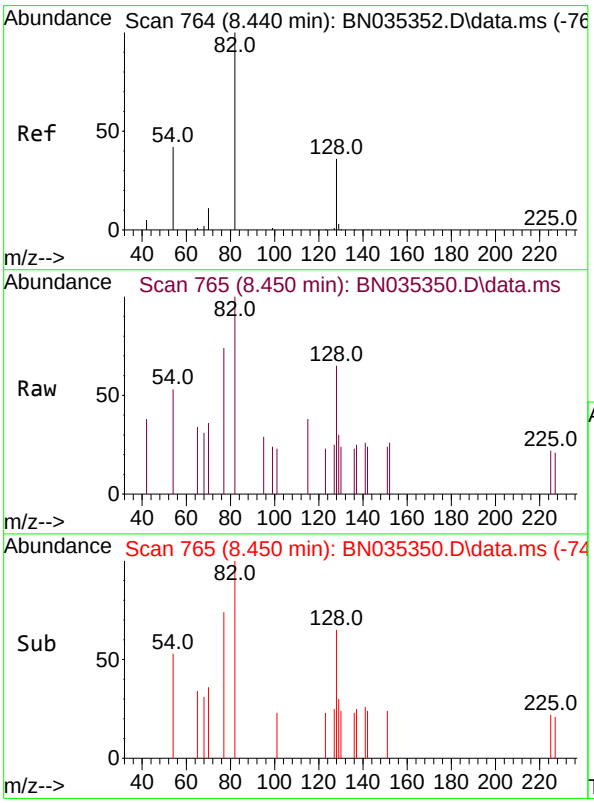
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

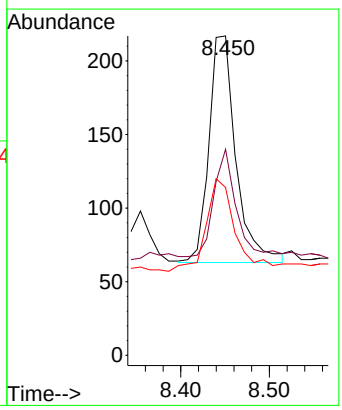
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

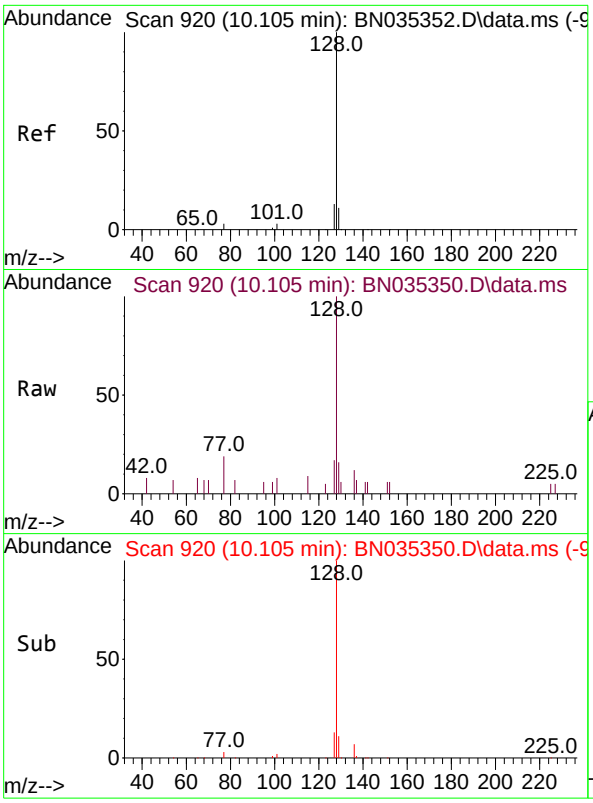


#8
Nitrobenzene-d5
Concen: 0.065 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 327

Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1

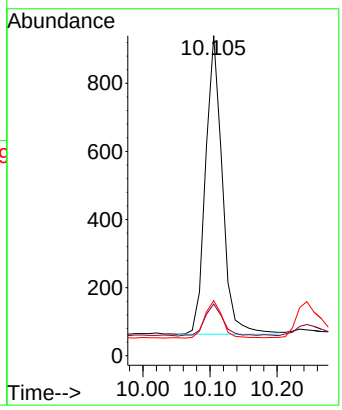




#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:128 Resp: 152

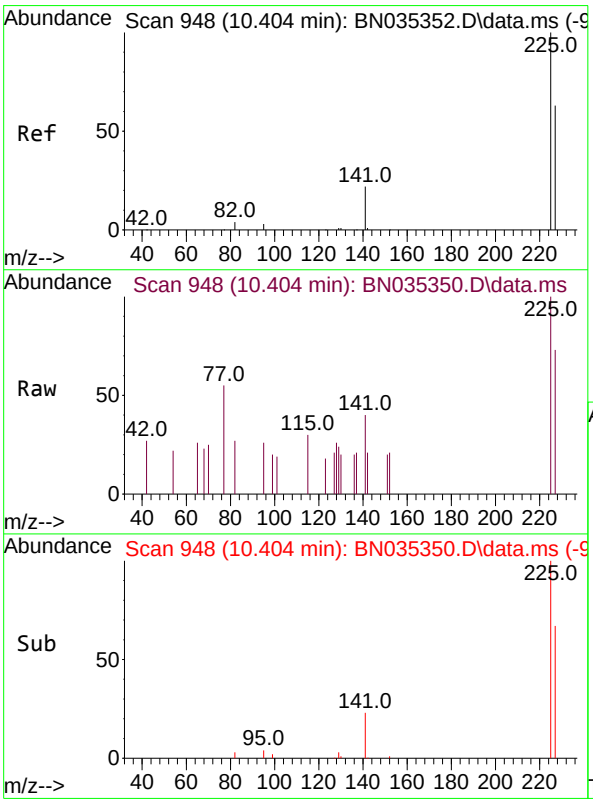
Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.8	14.6#
127	17.2	11.4	17.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

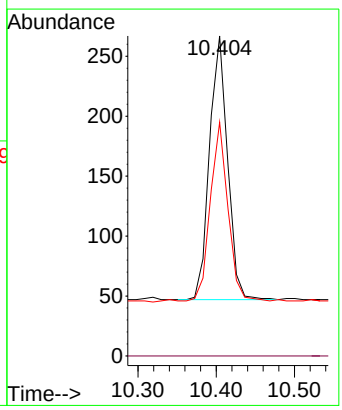
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

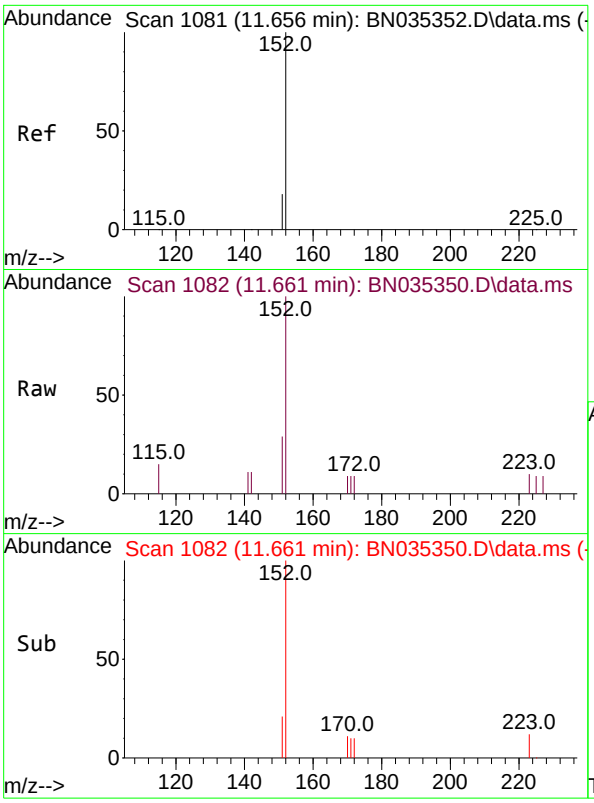


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.2	51.3	76.9

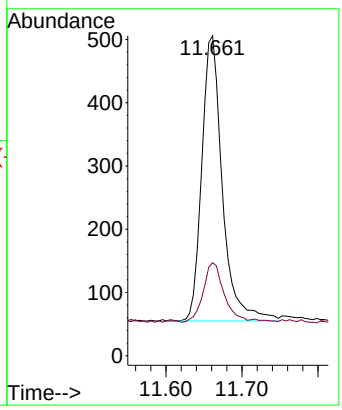




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 85

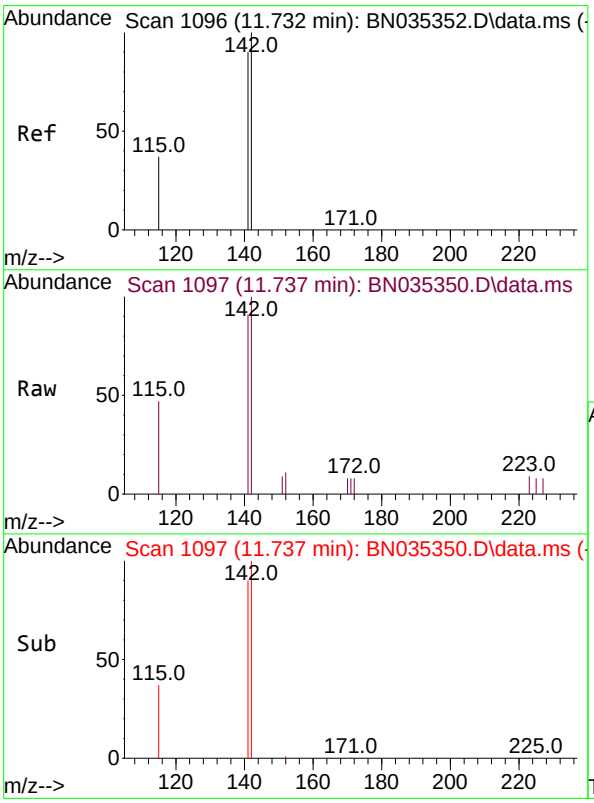
Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

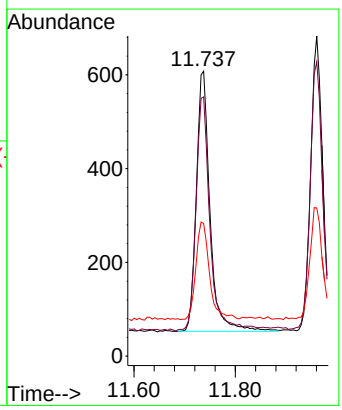
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

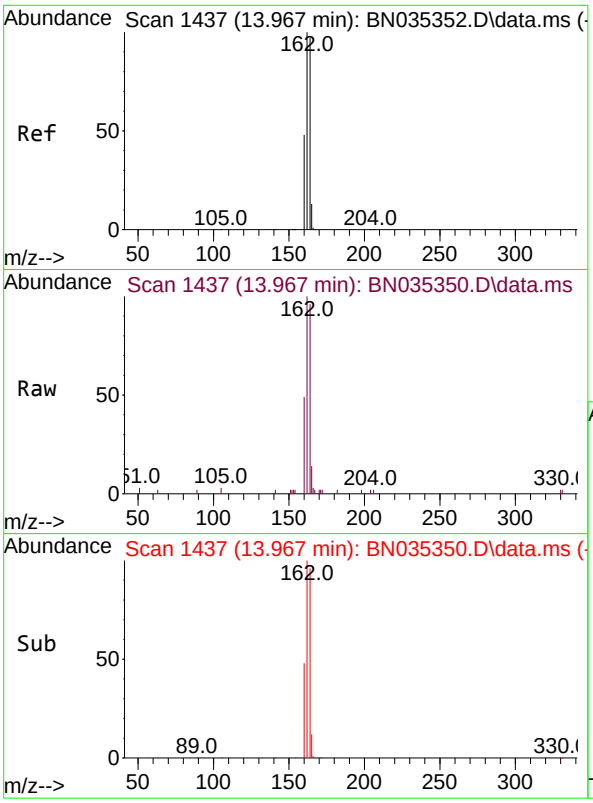


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	46.5	31.4	47.0

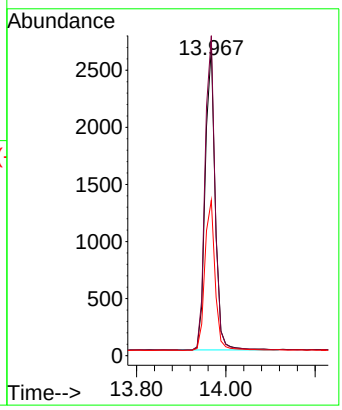




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:164 Resp: 407

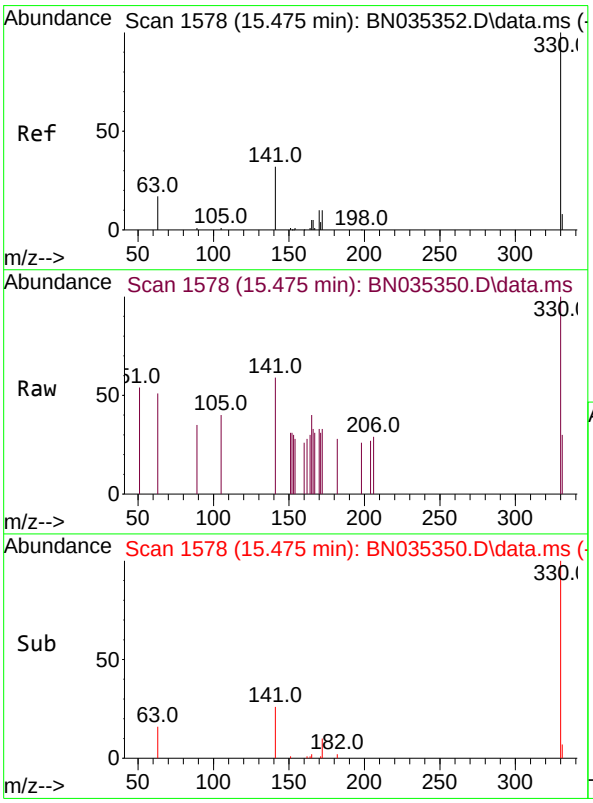
Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

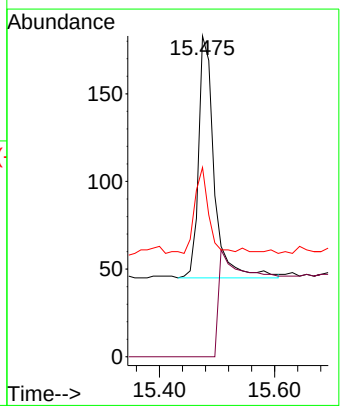
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

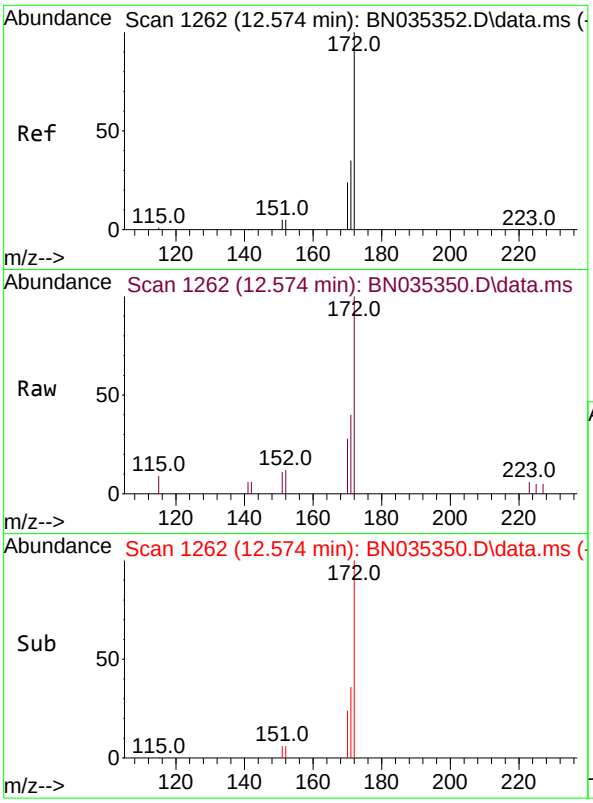


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0

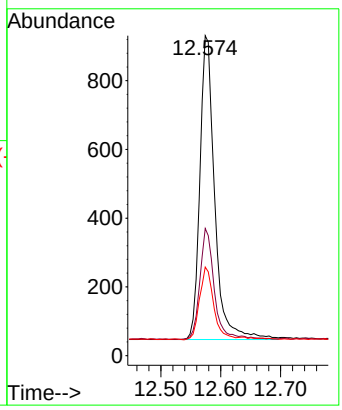




#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:172 Resp: 151

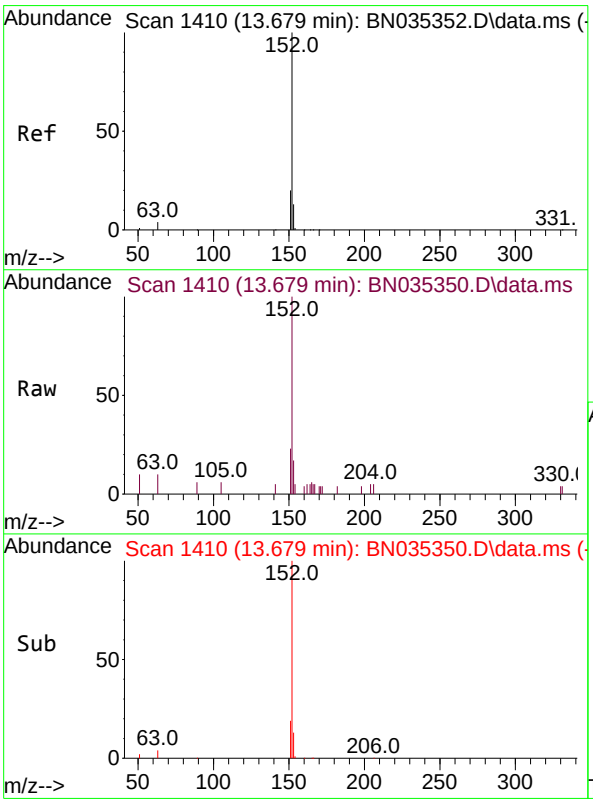
Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

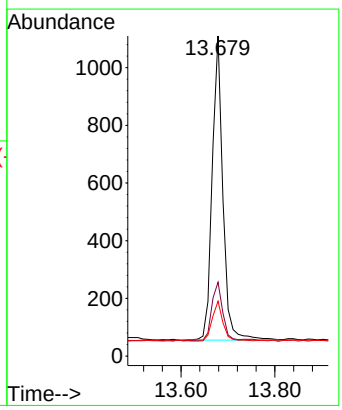
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

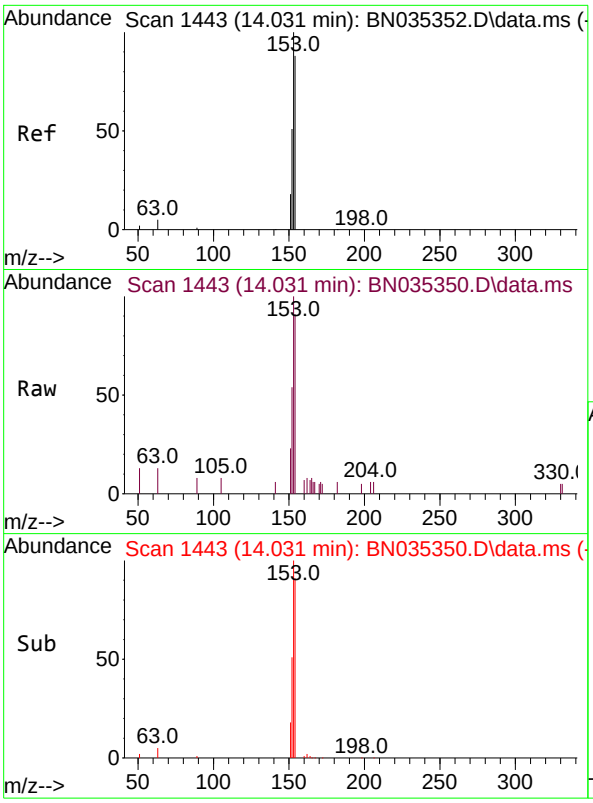


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6

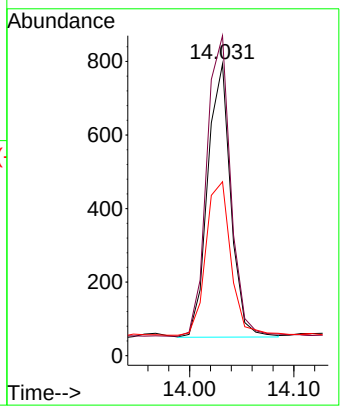




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:154 Resp: 114

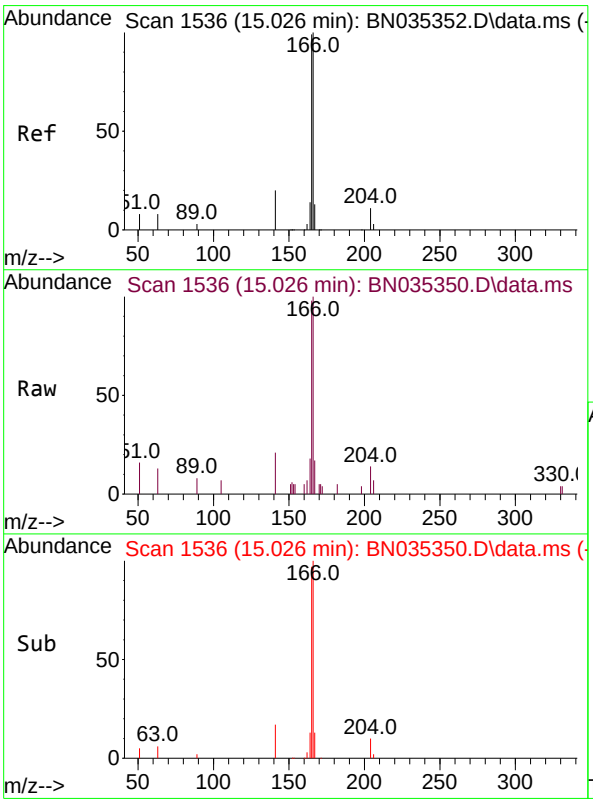
Ion	Ratio	Lower	Upper
154	100		
153	115.0	92.6	139.0
152	60.9	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

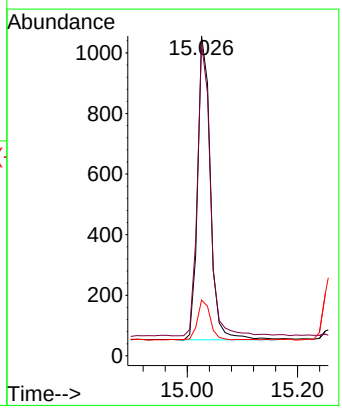
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

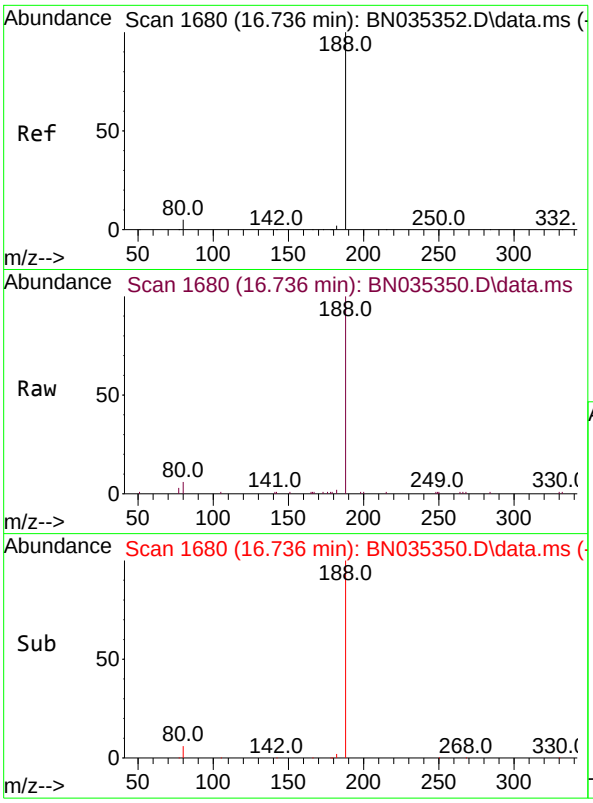


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.7	119.5
167	13.1	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

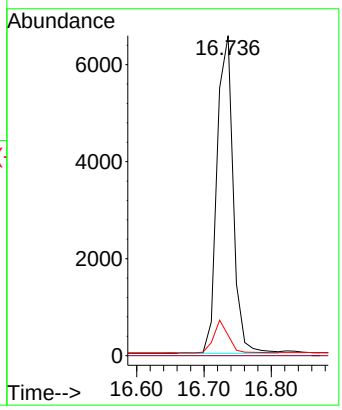
Tgt Ion:188 Resp: 1085

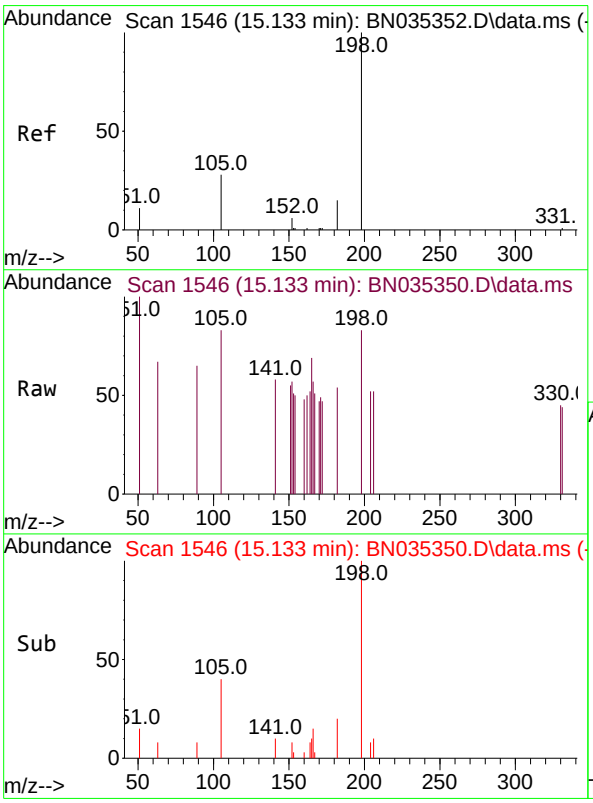
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.4	4.6	6.8

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

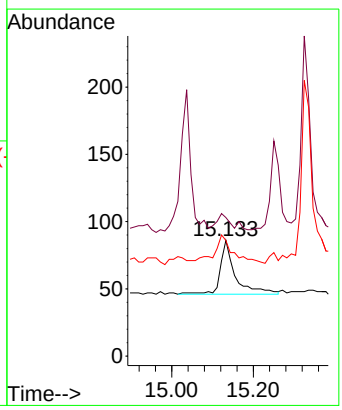


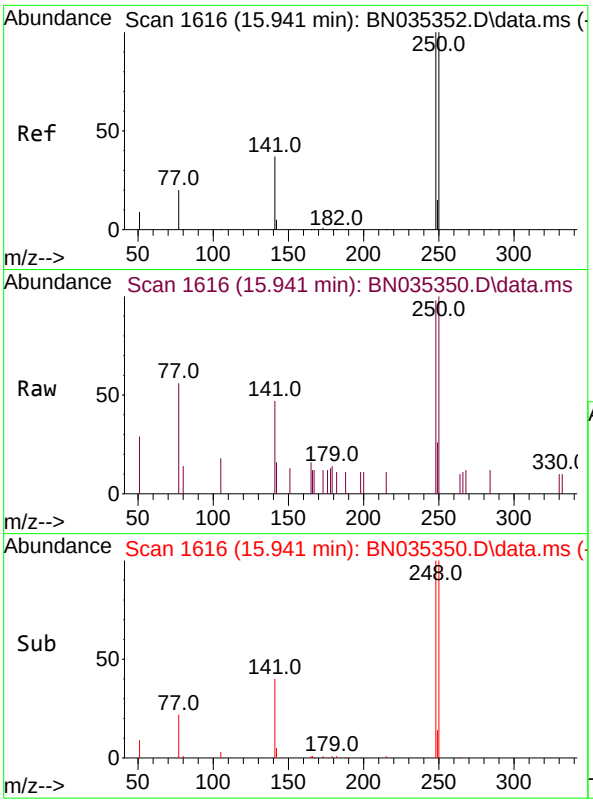


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	119.8	46.5	69.7#
105	100.0	45.3	67.9#

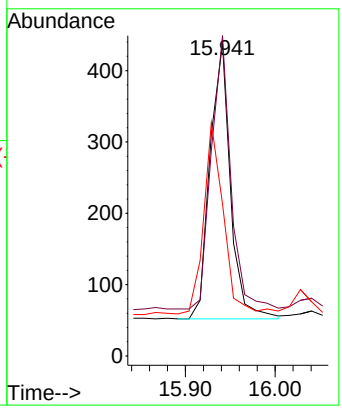




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:248 Resp: 61

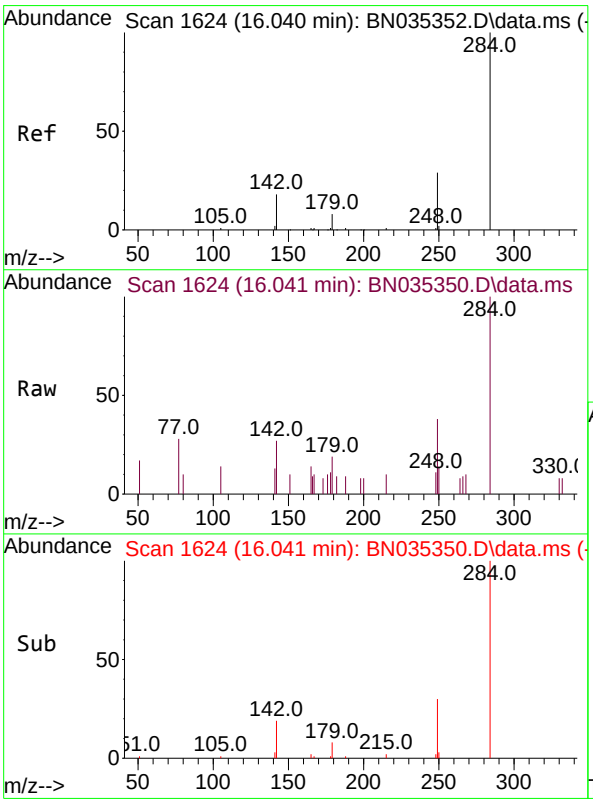
Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.6	120.8
141	48.6	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

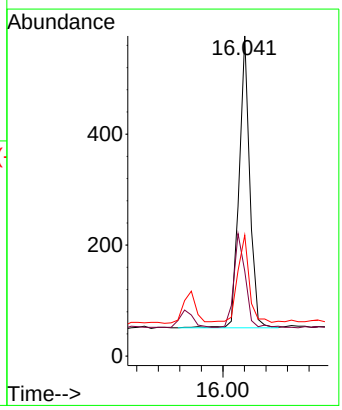
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

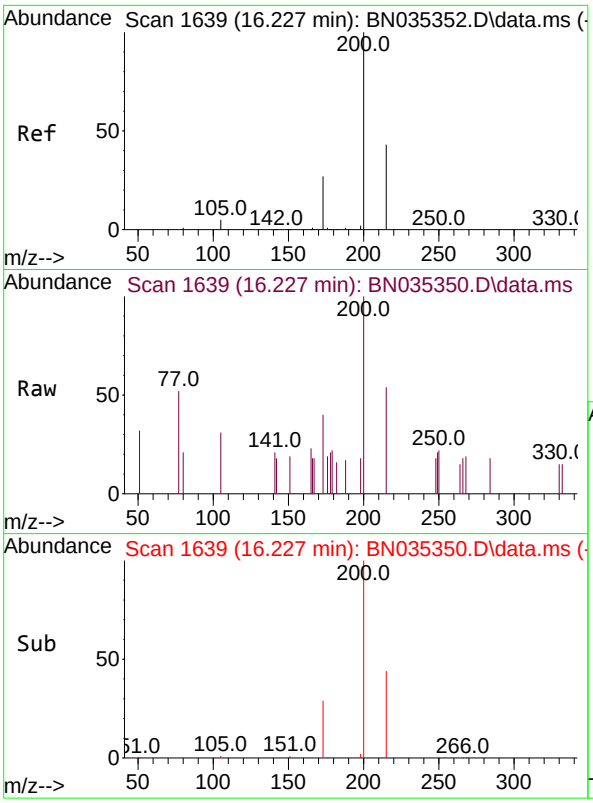


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	32.2	24.6	36.8

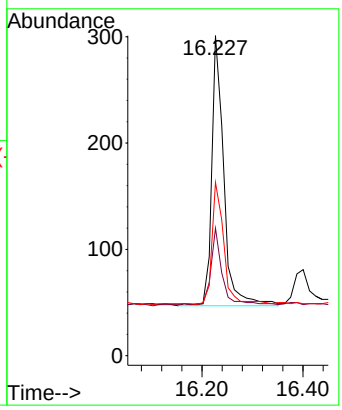




#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:200 Resp: 42

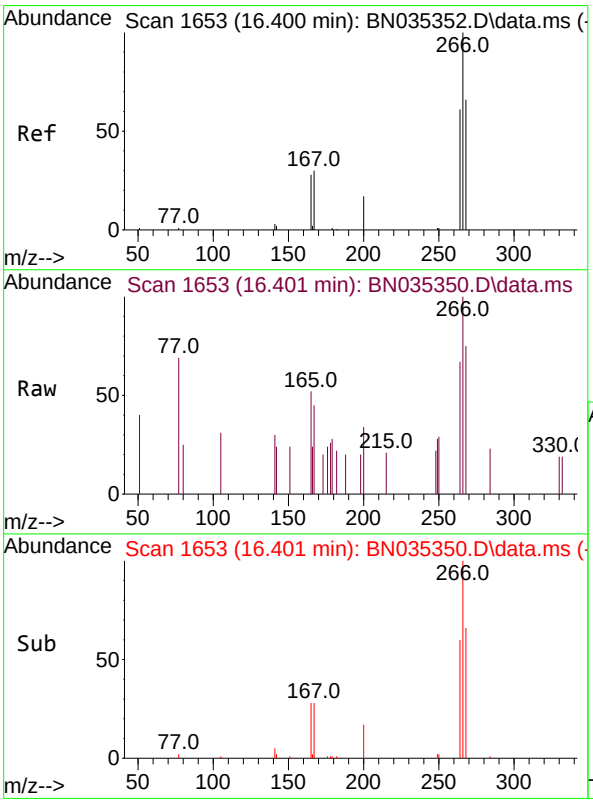
Ion	Ratio	Lower	Upper
200	100		
173	39.9	24.1	36.1#
215	54.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

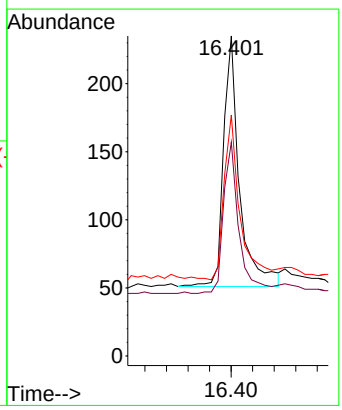
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

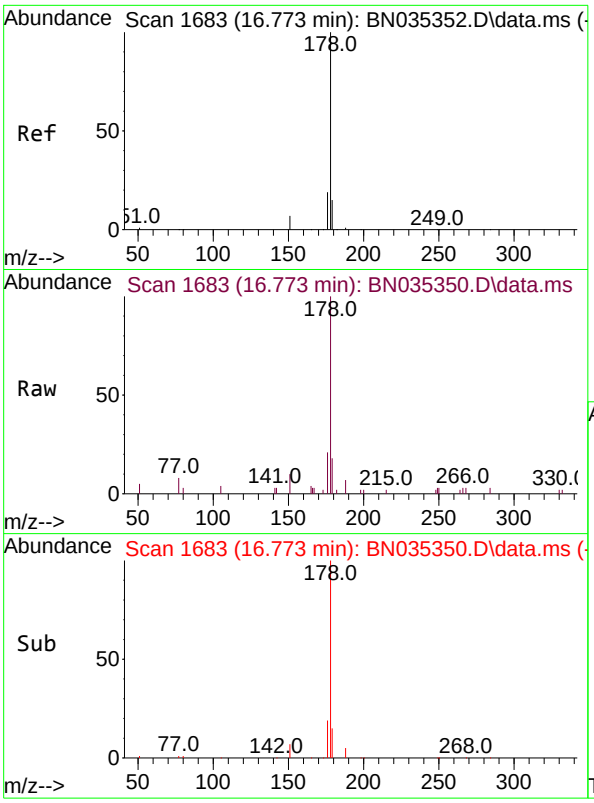


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

Ion	Ratio	Lower	Upper
266	100		
264	58.3	42.3	63.5
268	63.3	43.3	64.9

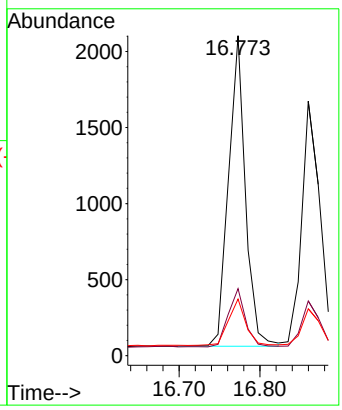




#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 296

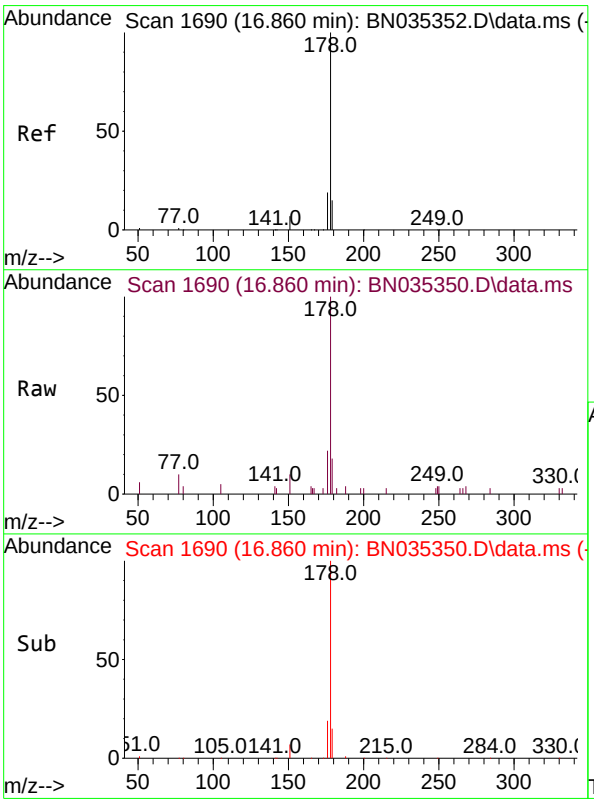
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

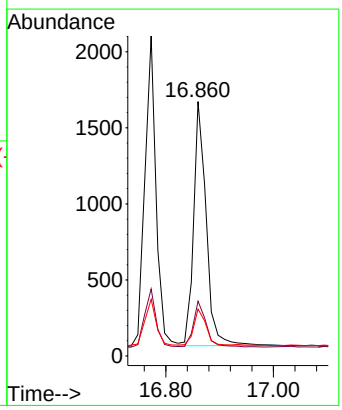
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

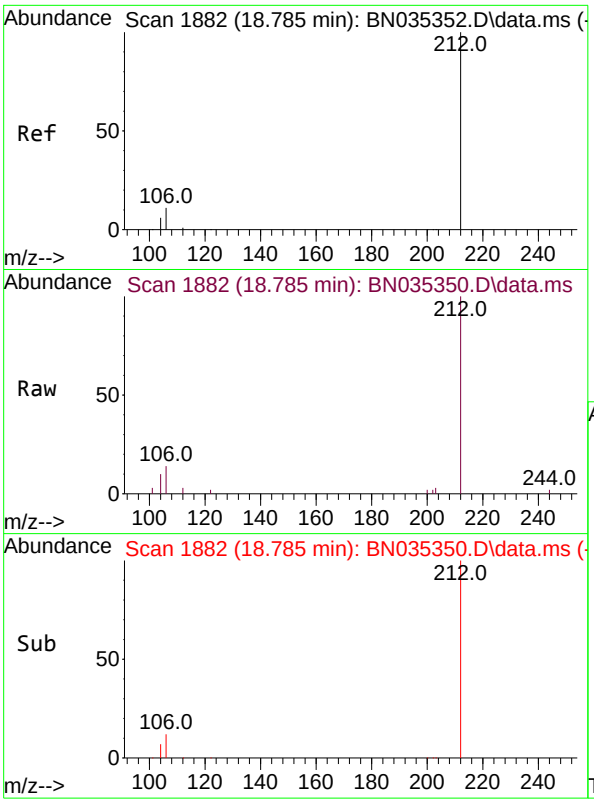


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	14.3	12.6	18.8

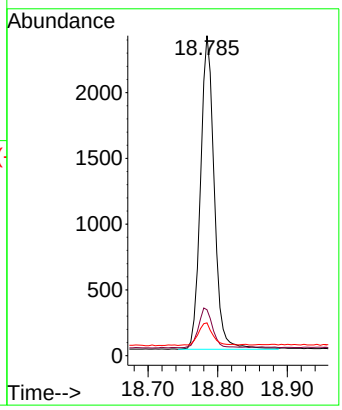




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:212 Resp: 326

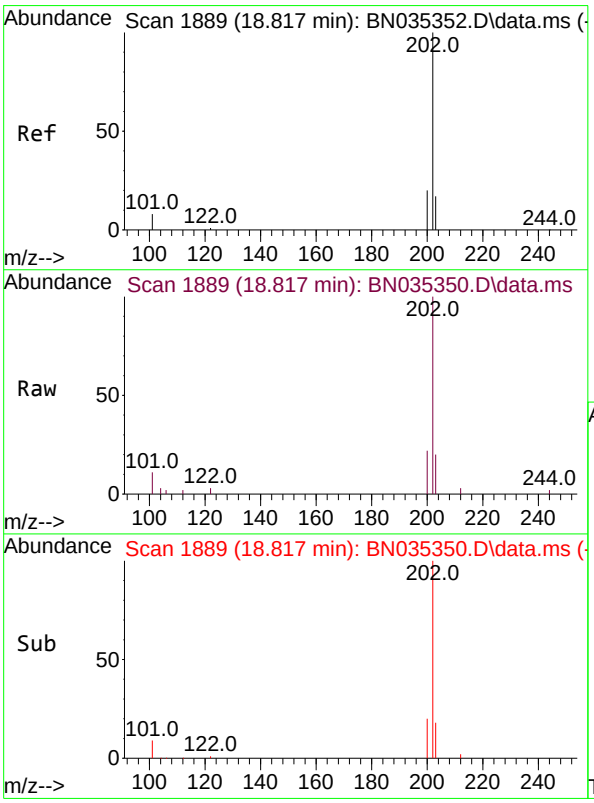
Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

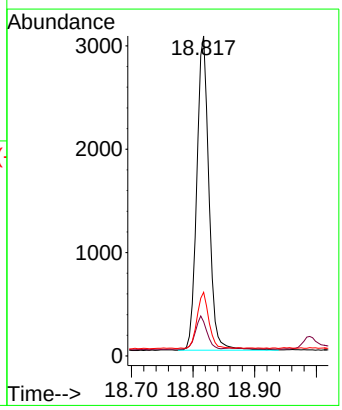
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

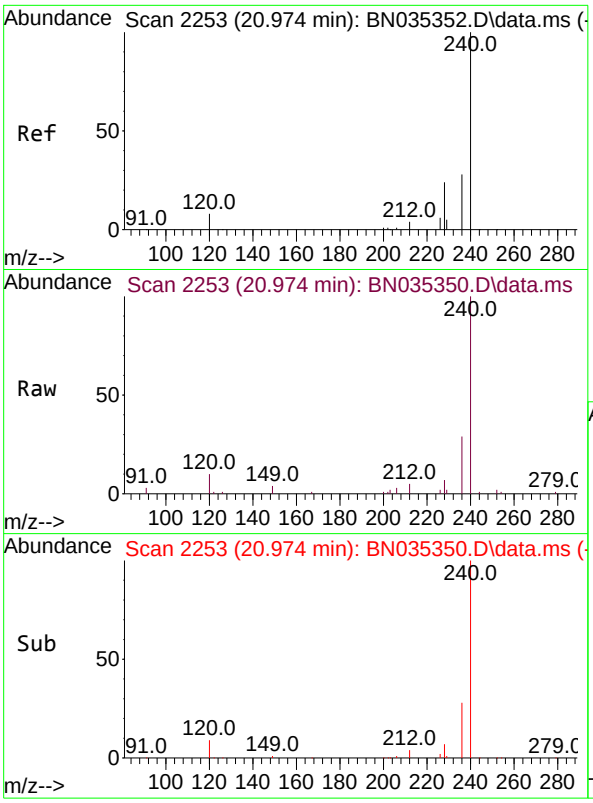


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

Ion	Ratio	Lower	Upper
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5

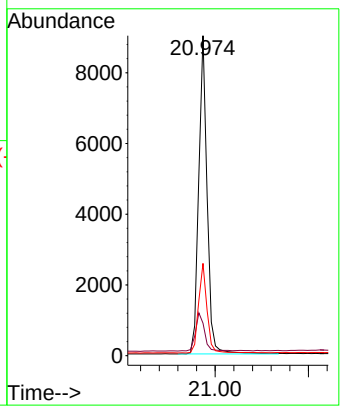




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:240 Resp: 1126

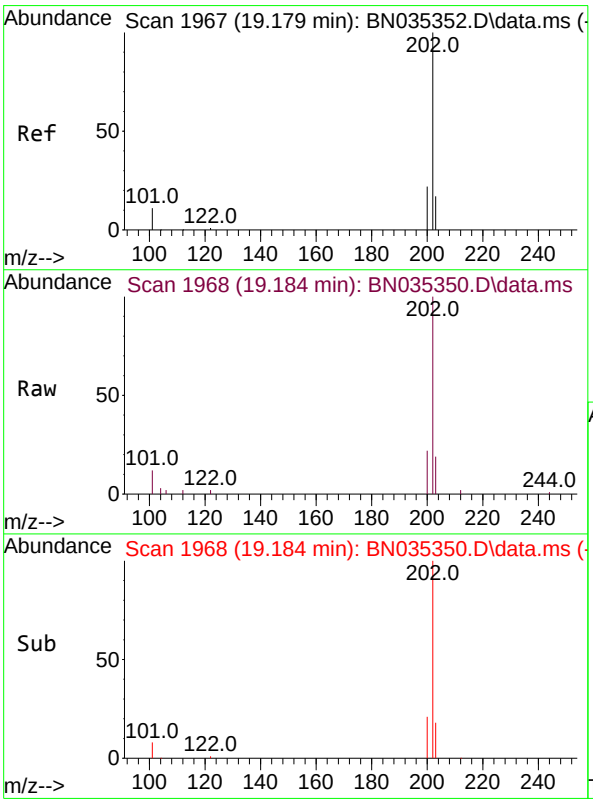
Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

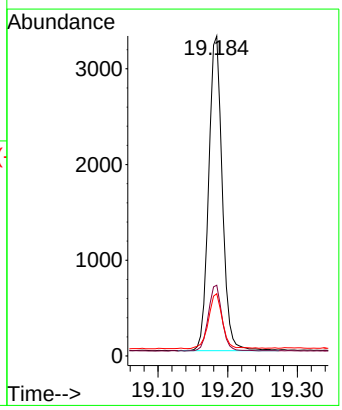
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

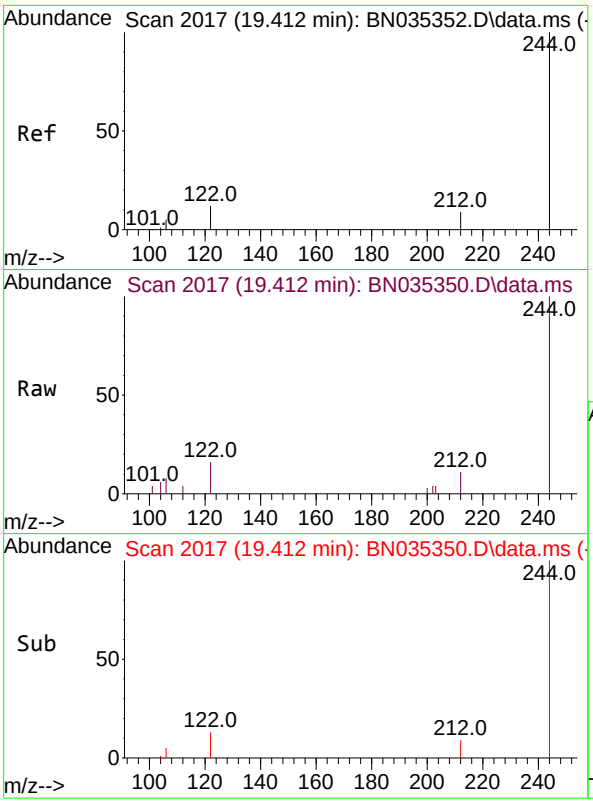


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5

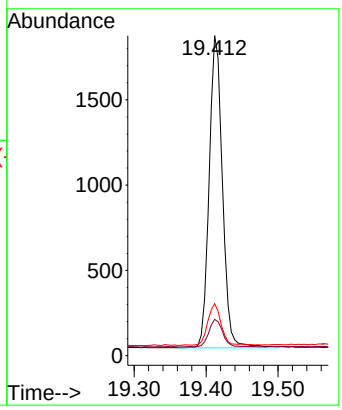




#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:244 Resp: 234

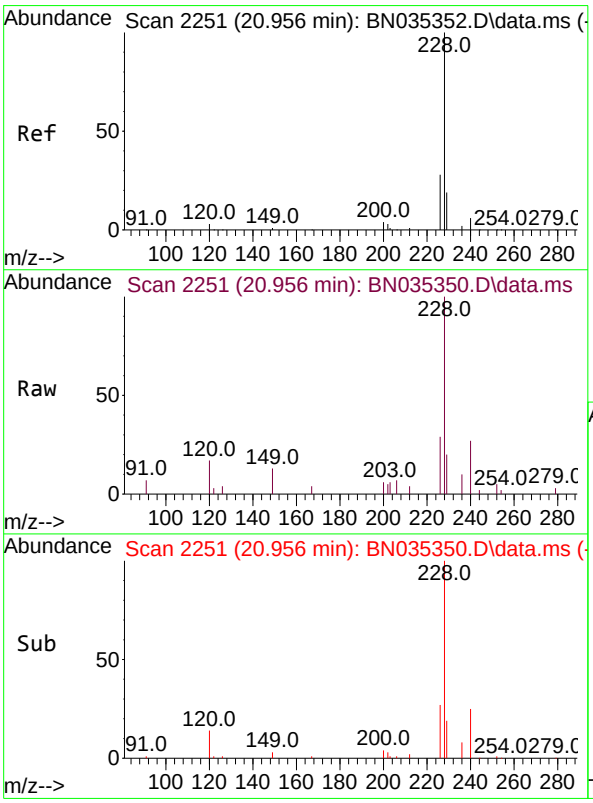
Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

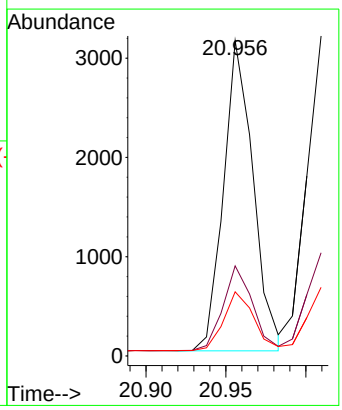
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

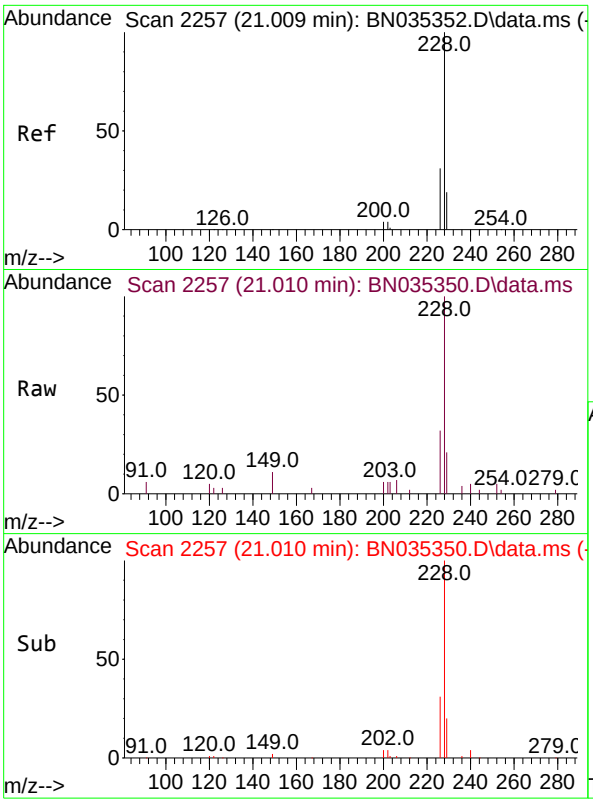


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8

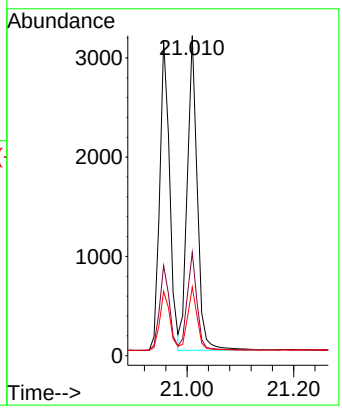




#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 412

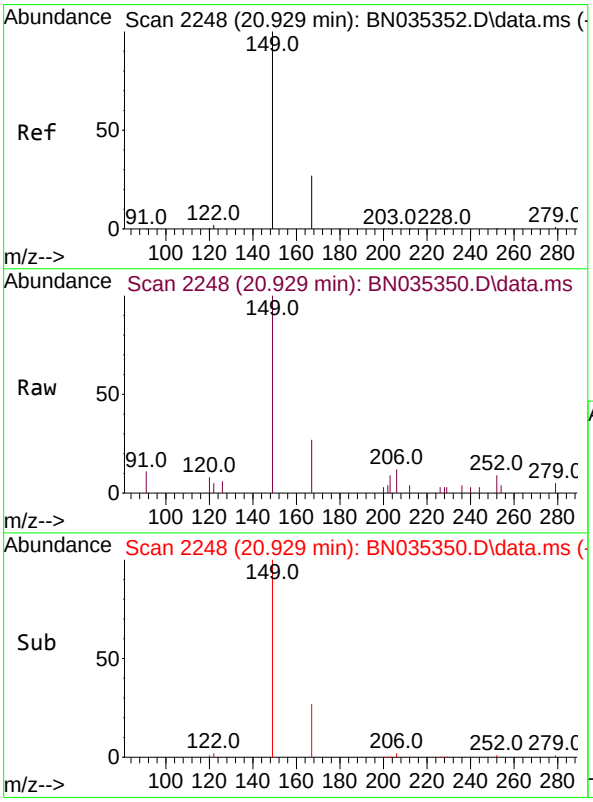
Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	21.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

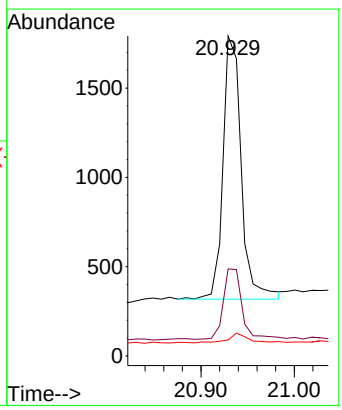
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

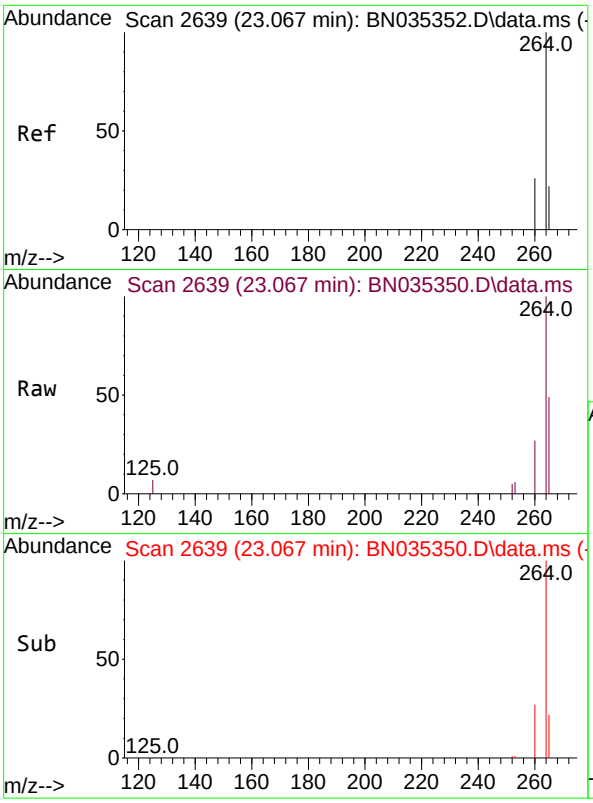


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.6	2.7	4.1

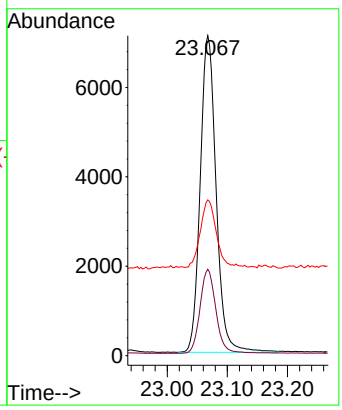




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:264 Resp: 1300

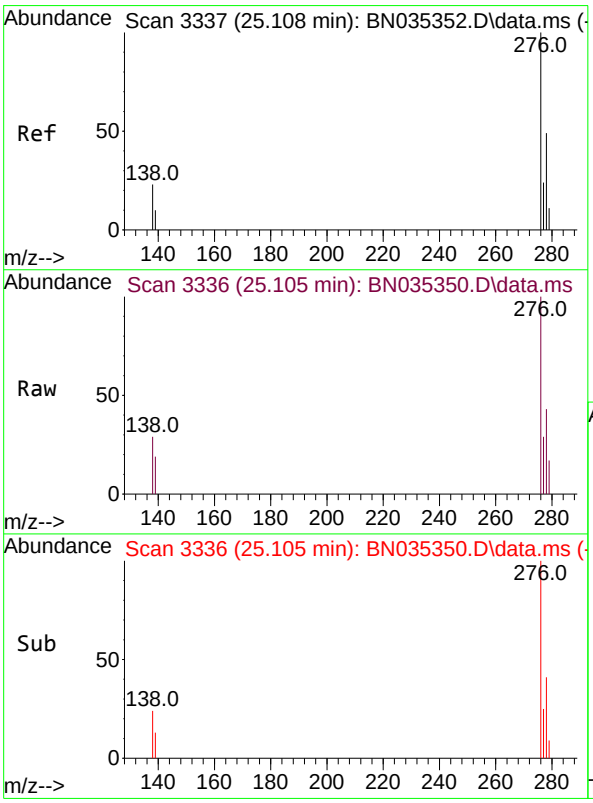
Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.7	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

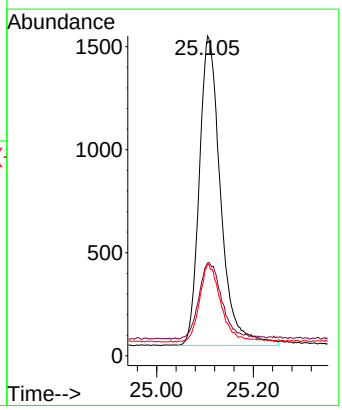
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

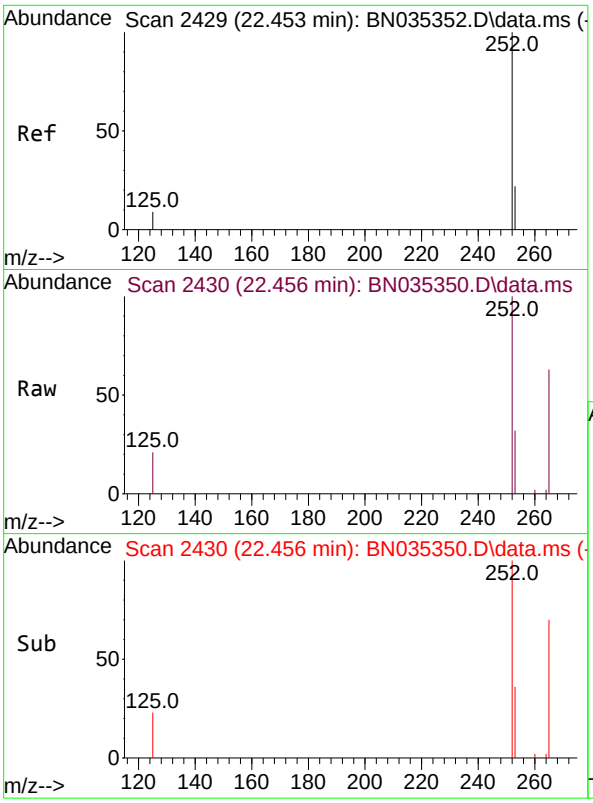


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.4	29.0
277	25.6	19.8	29.6

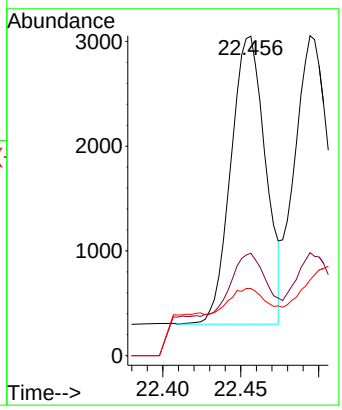




#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 424

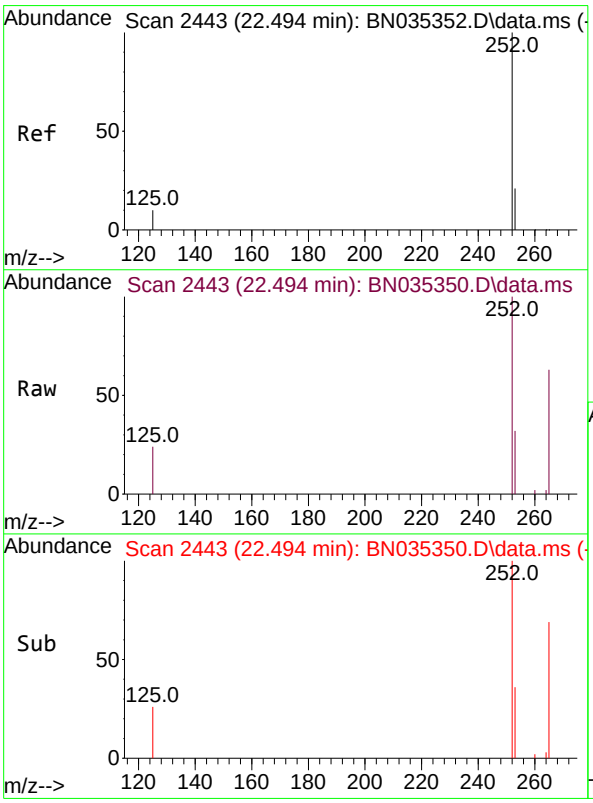
Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4#
125	21.0	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

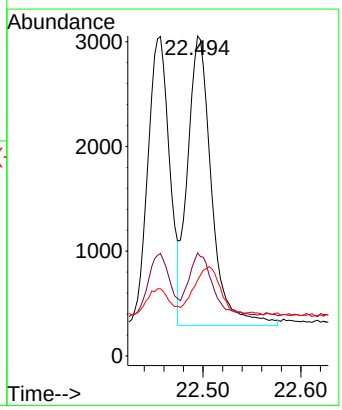
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

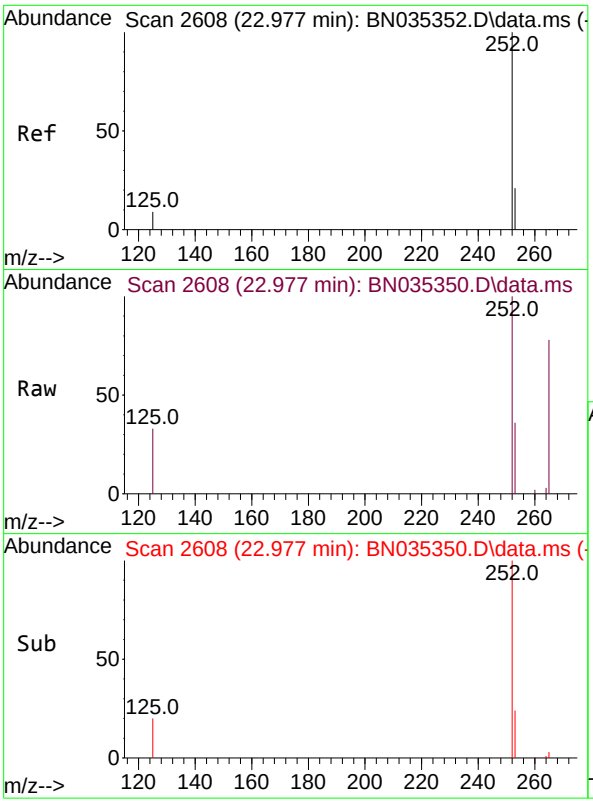


#38
Benzo(k)fluoranthene
Concen: 0.107 ng m
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4695

Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3#
125	23.7	10.2	15.4#

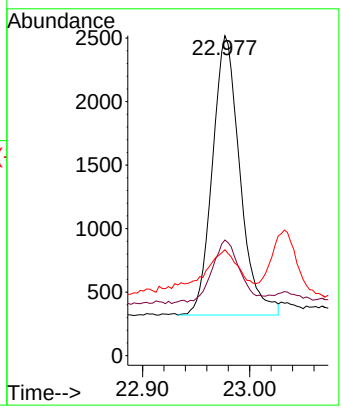




#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 391

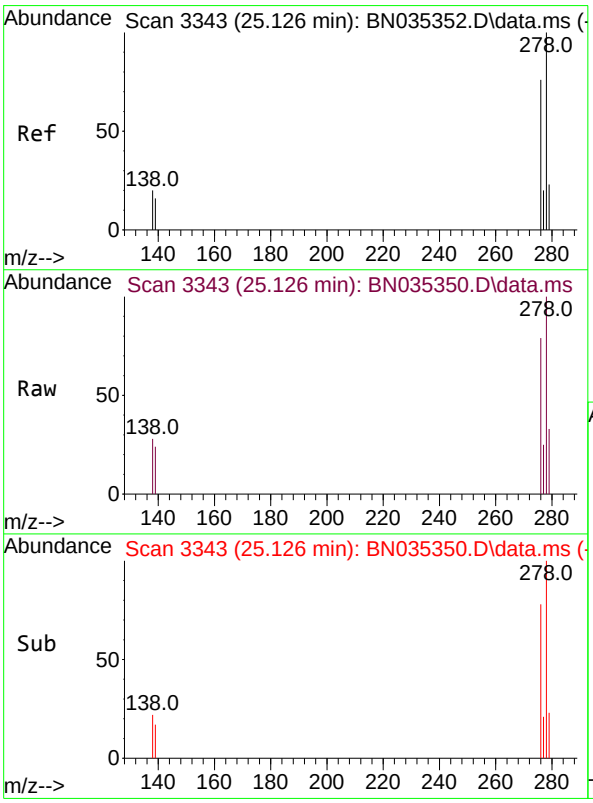
Ion	Ratio	Lower	Upper
252	100		
253	36.1	20.2	30.4#
125	33.1	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

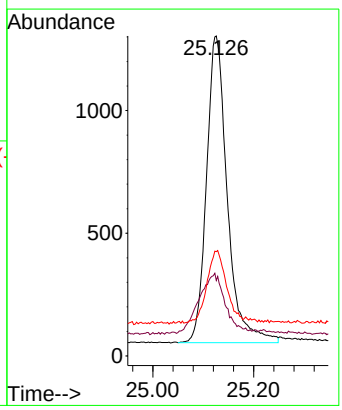
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

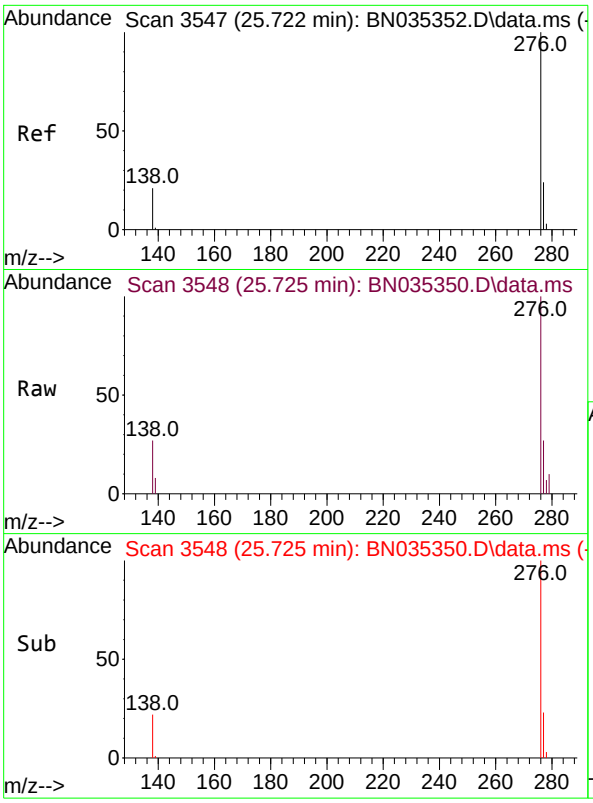


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

Ion	Ratio	Lower	Upper
278	100		
139	23.6	14.2	21.4#
279	32.6	20.5	30.7#

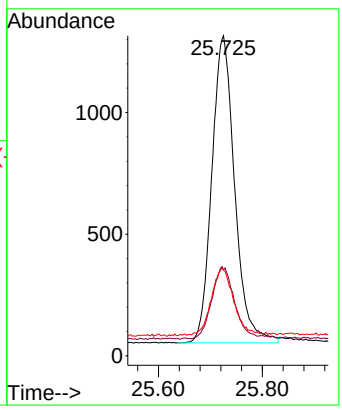




#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 386

Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.9	29.9
138	26.8	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	618m	0.133	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.497	252	7675m	0.204	ng	
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

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

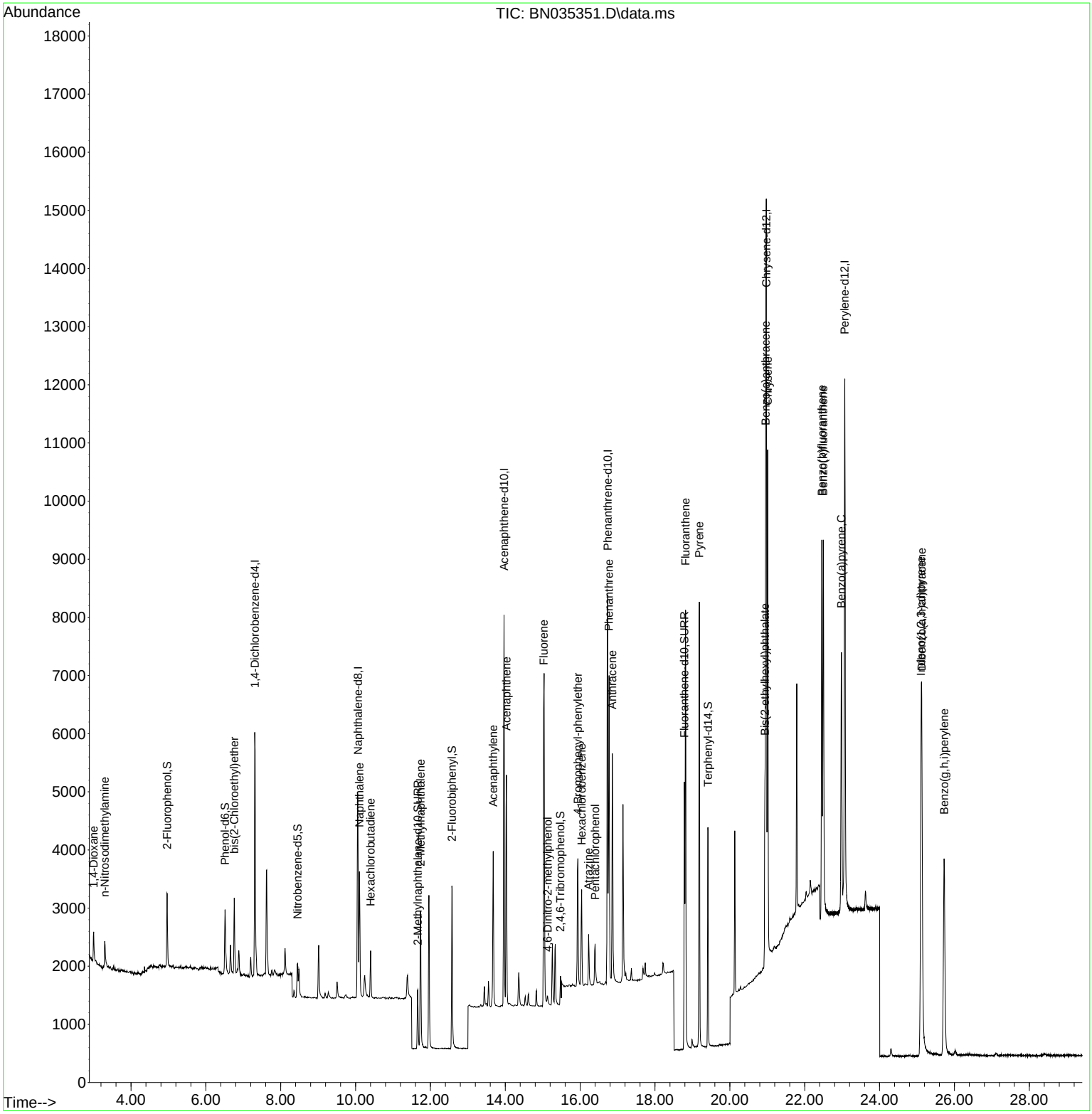
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Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

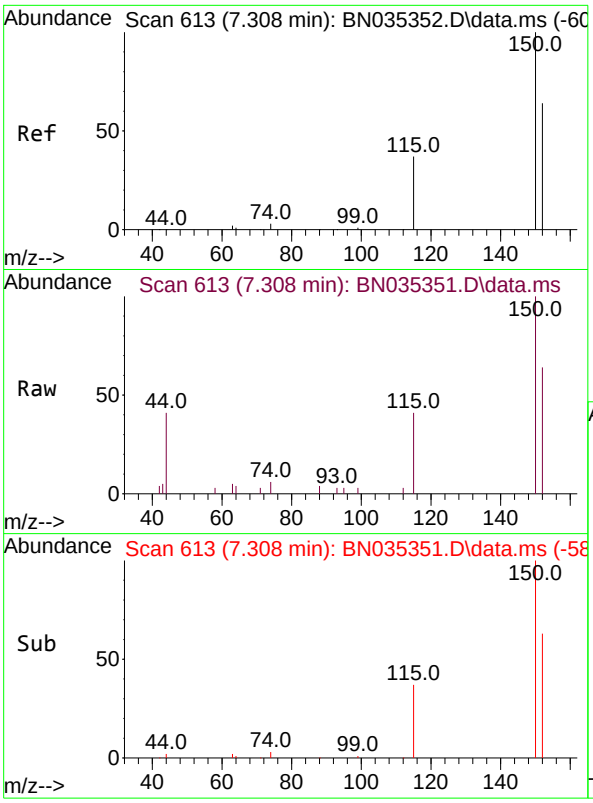
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

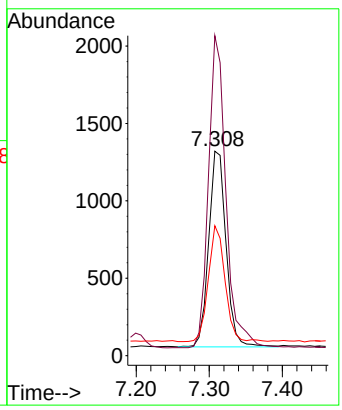




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 208

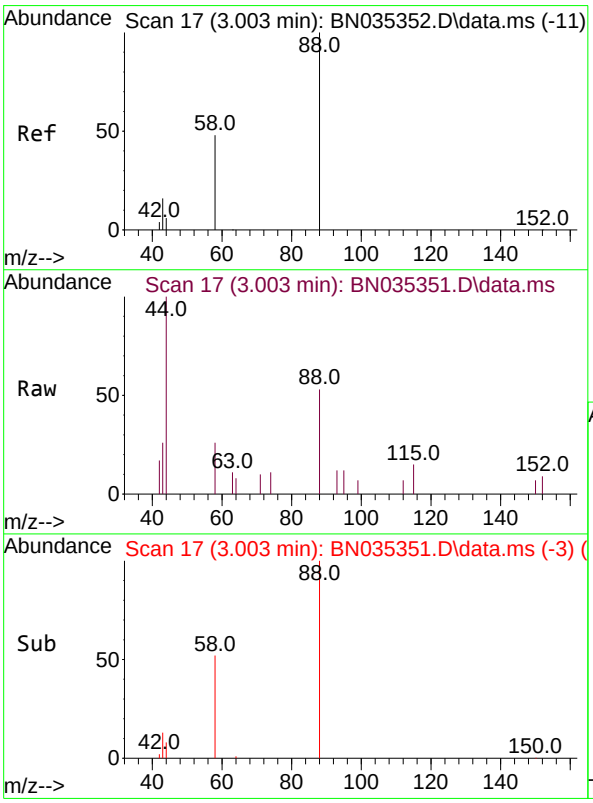
Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

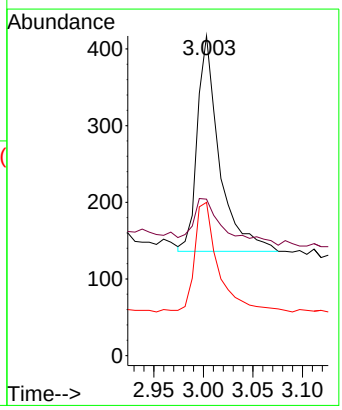
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

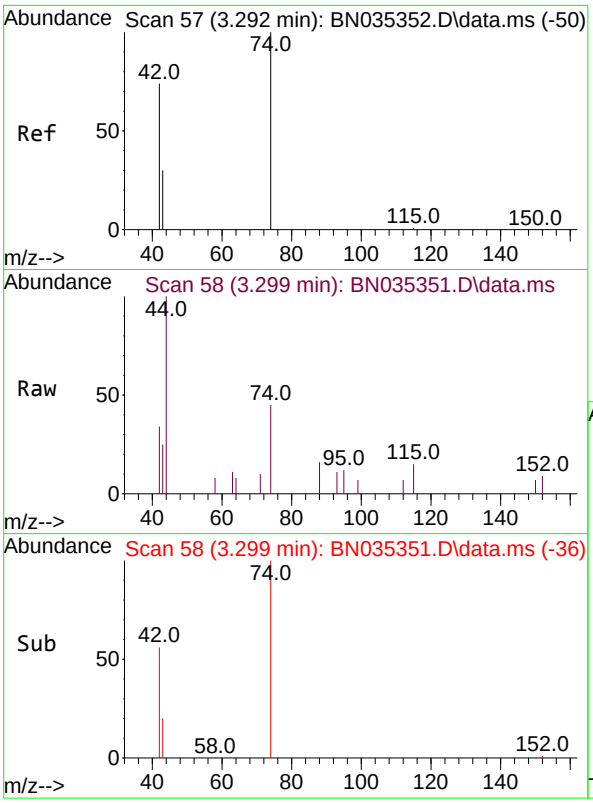


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8#
58	55.2	44.5	66.7

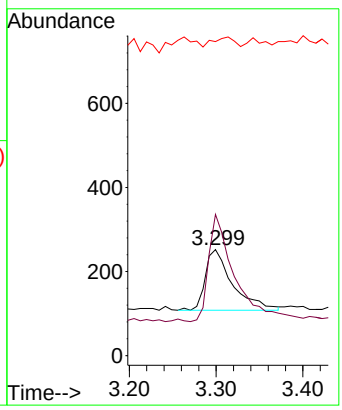




#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 42 Resp: 31

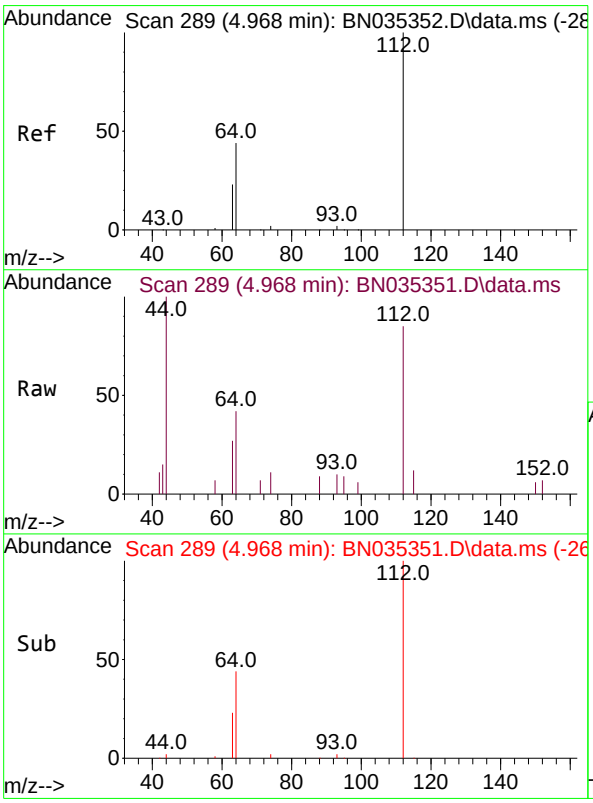
Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

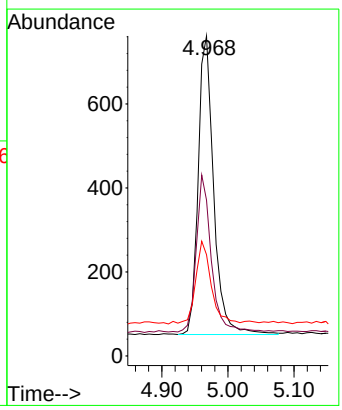
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

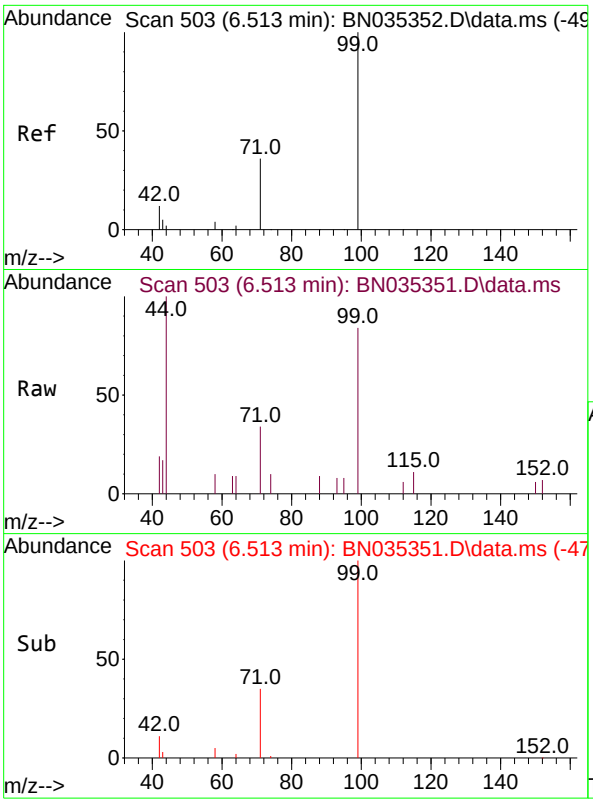


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6

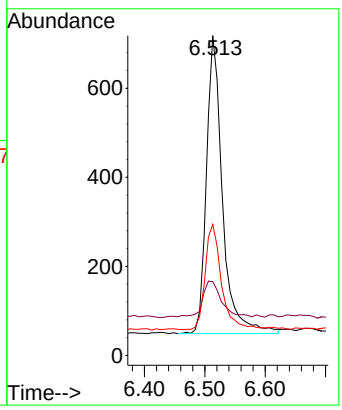




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 99 Resp: 123(

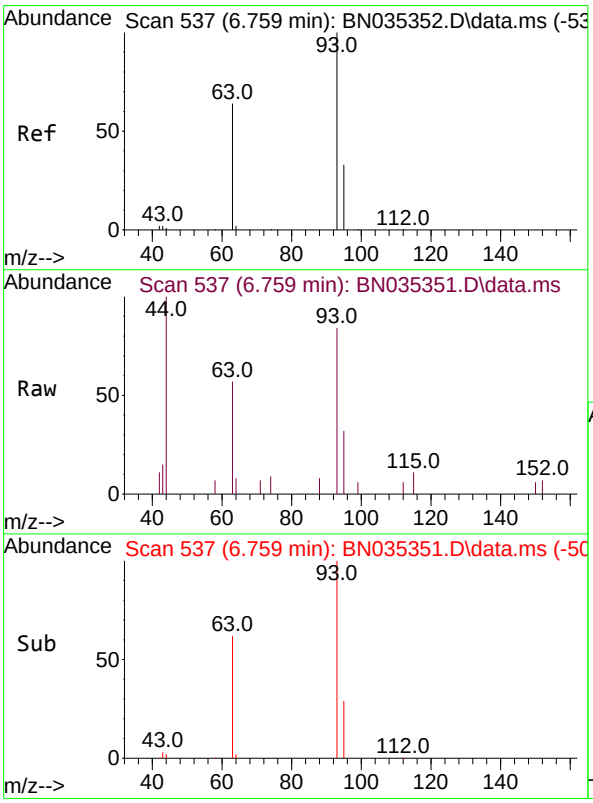
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

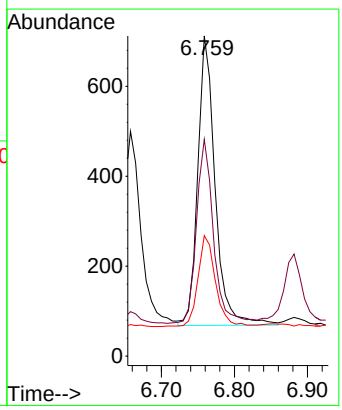
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

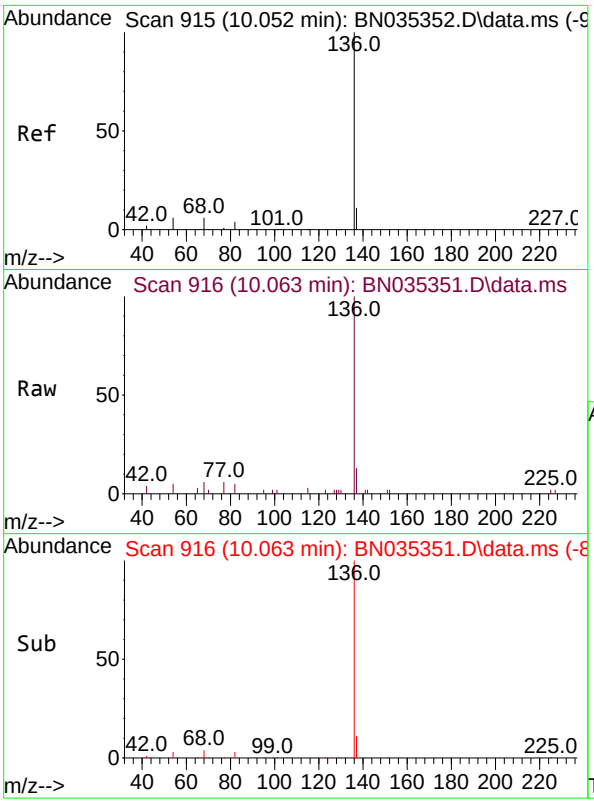


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5

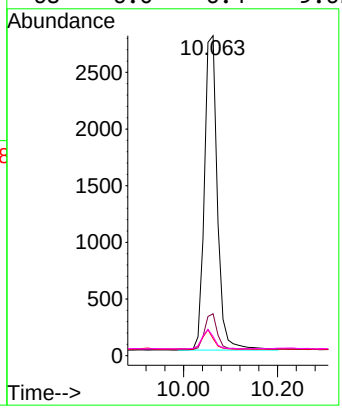




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:136 Resp: 533

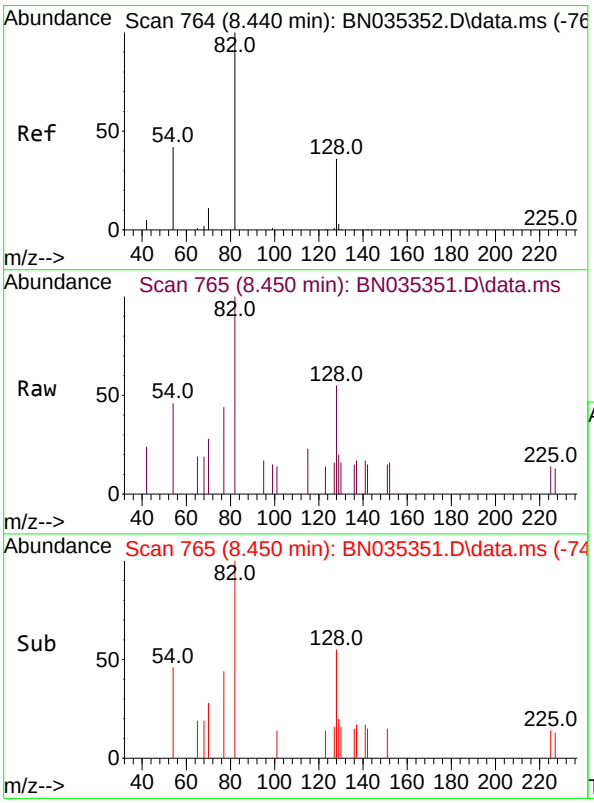
Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

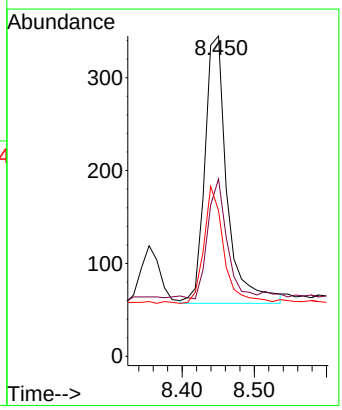
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

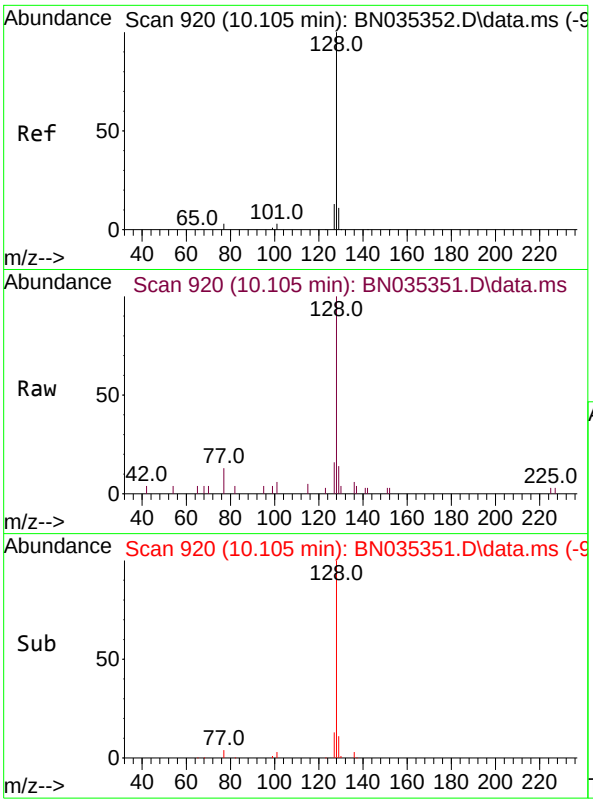


#8
Nitrobenzene-d5
Concen: 0.133 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618

Ion	Ratio	Lower	Upper
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1

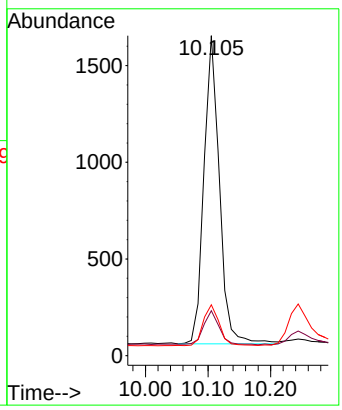




#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:128 Resp: 274

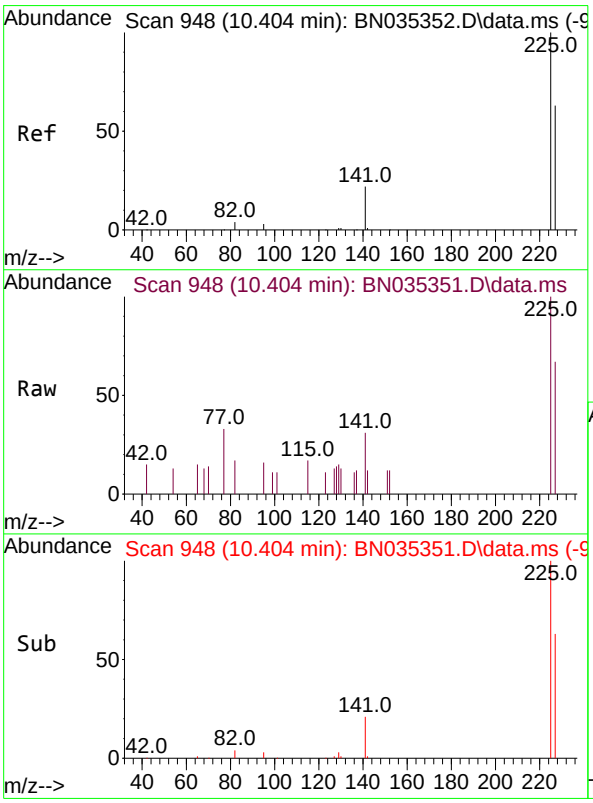
Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

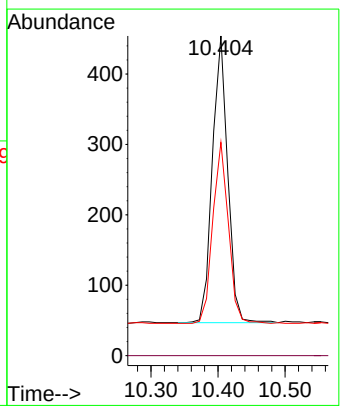
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

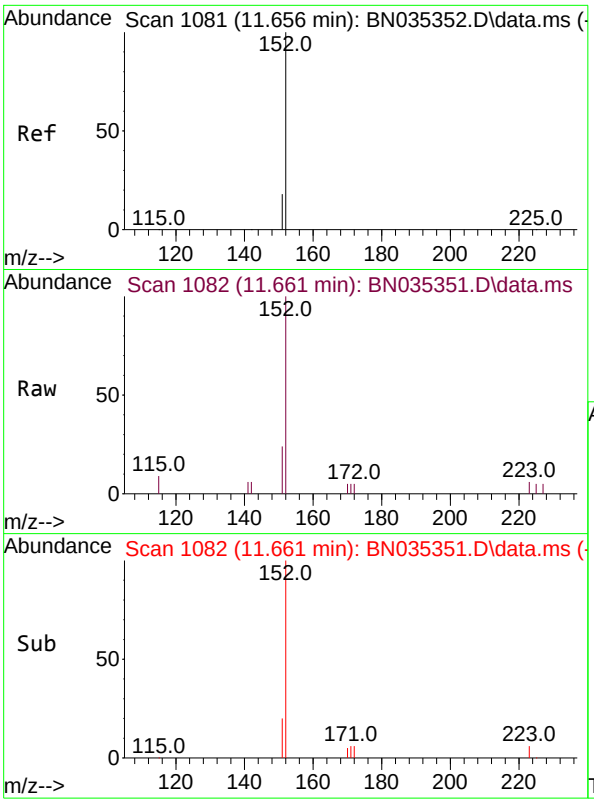


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9

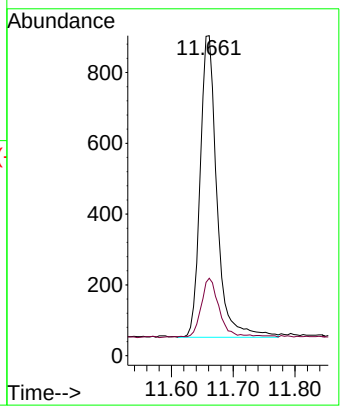




#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 160

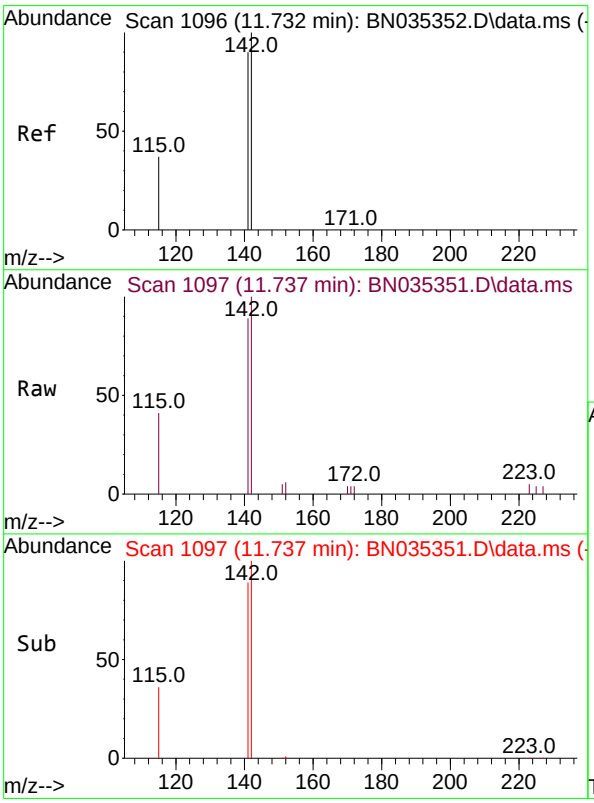
Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

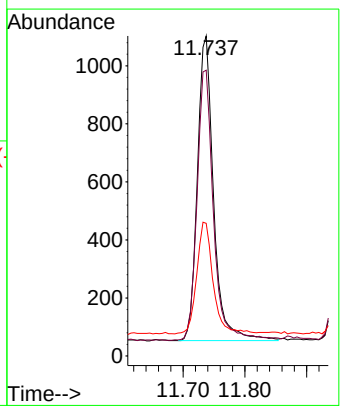
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

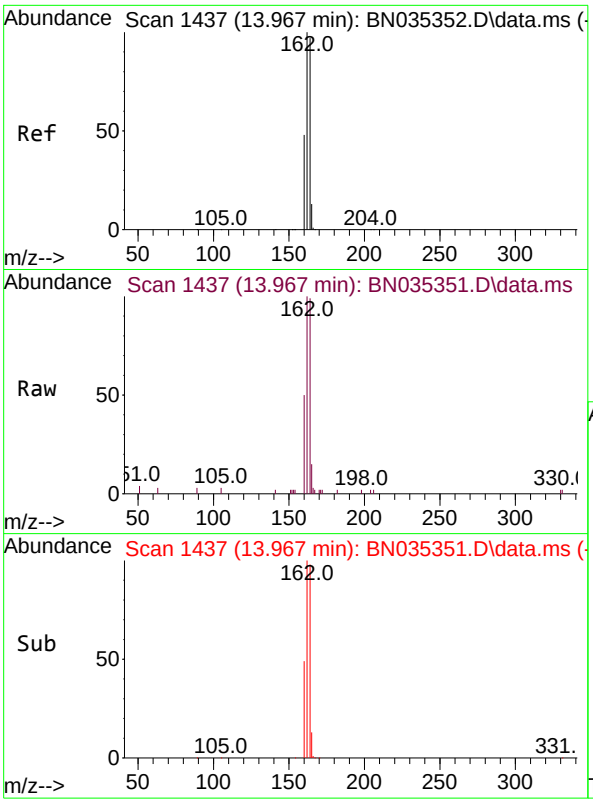


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	41.4	31.4	47.0

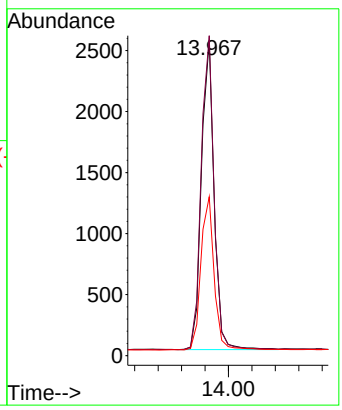




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:164 Resp: 380

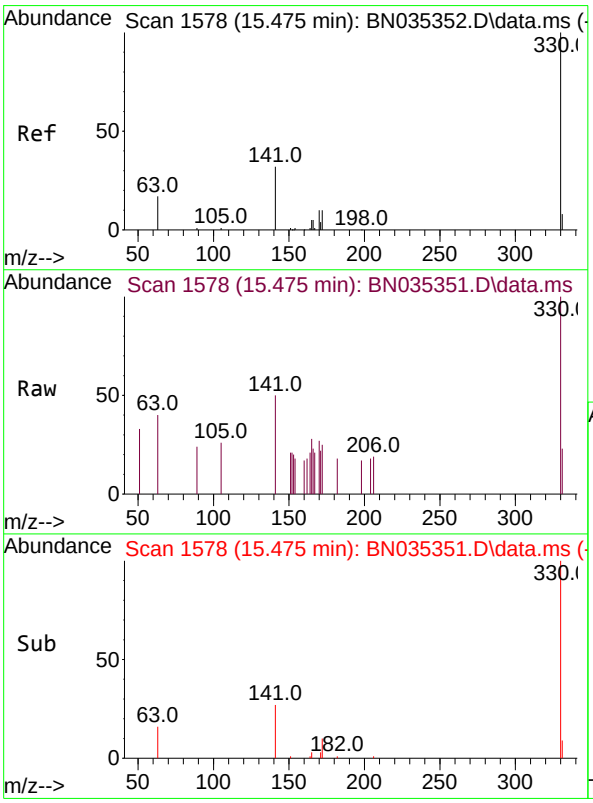
Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

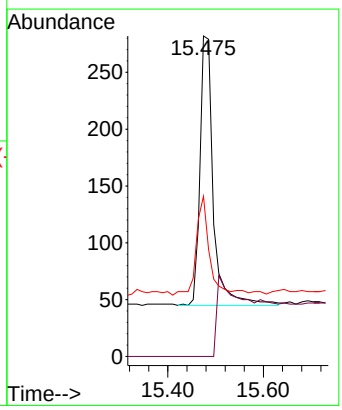
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

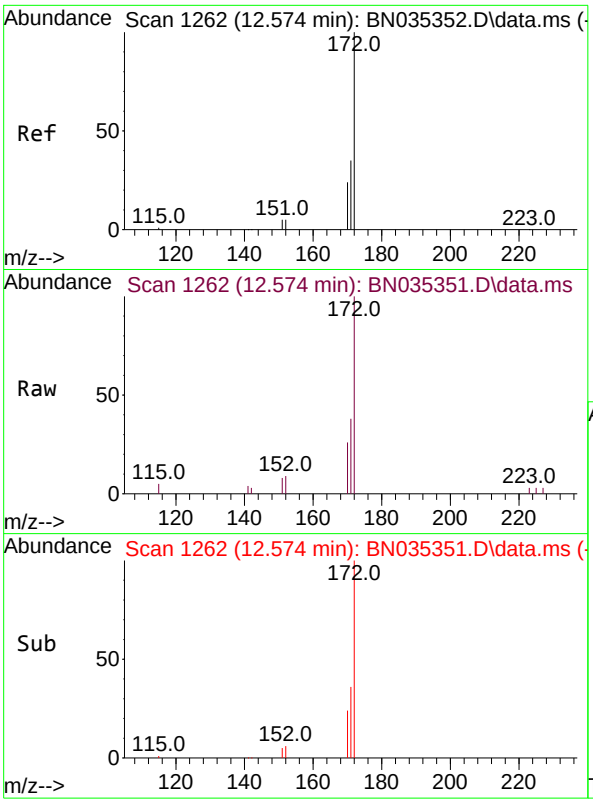


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0

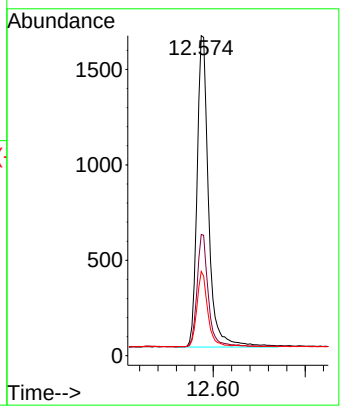




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:172 Resp: 283

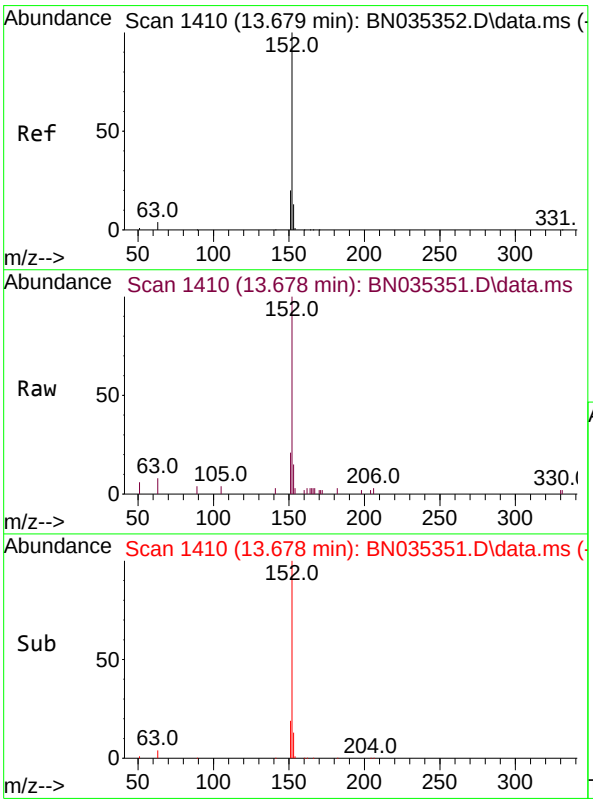
Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

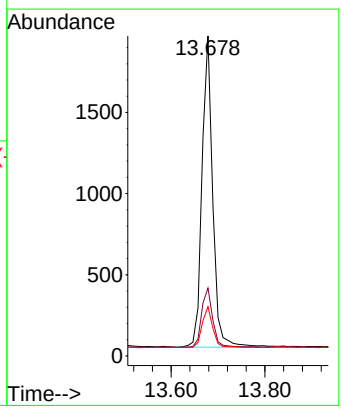
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

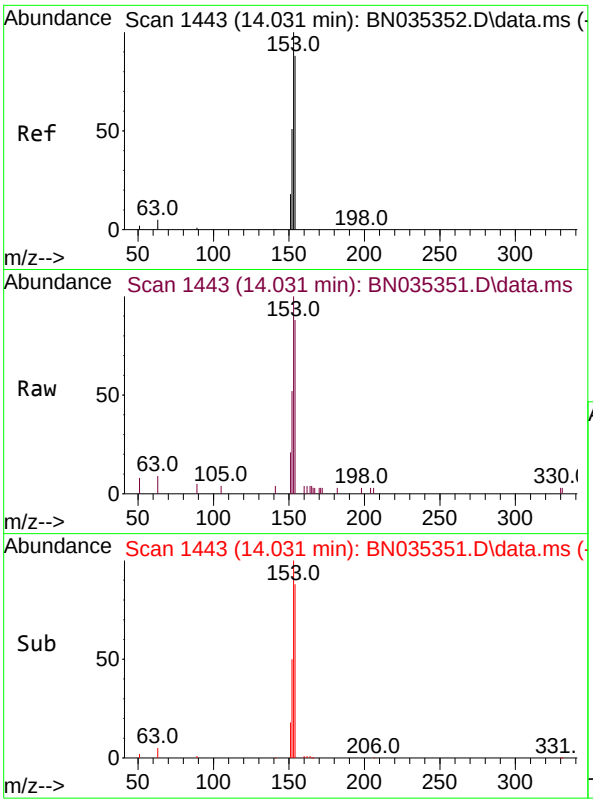


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6

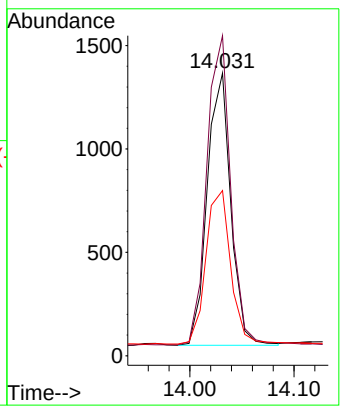




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:154 Resp: 206

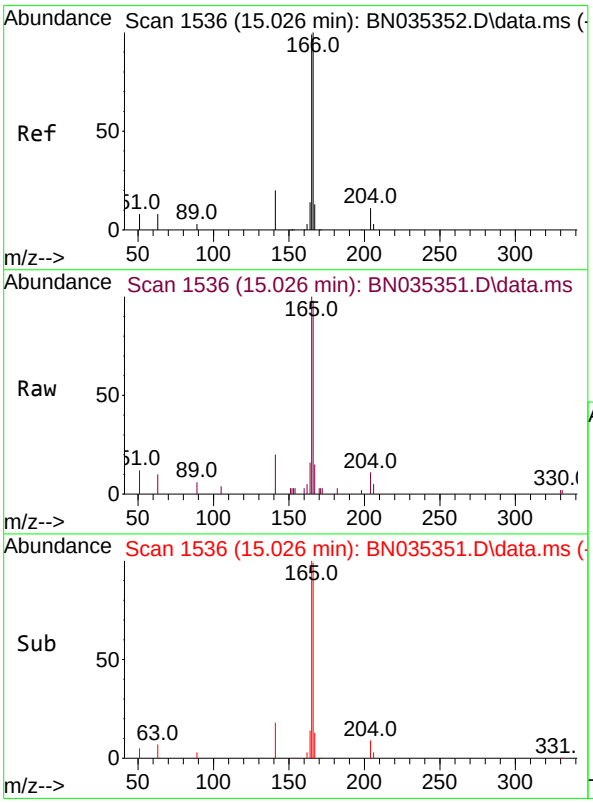
Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

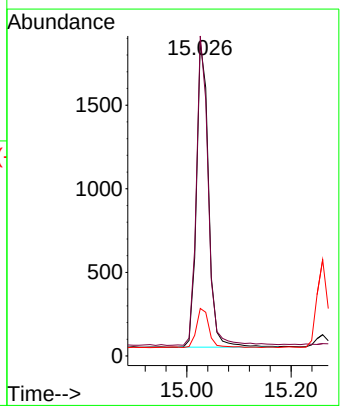
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

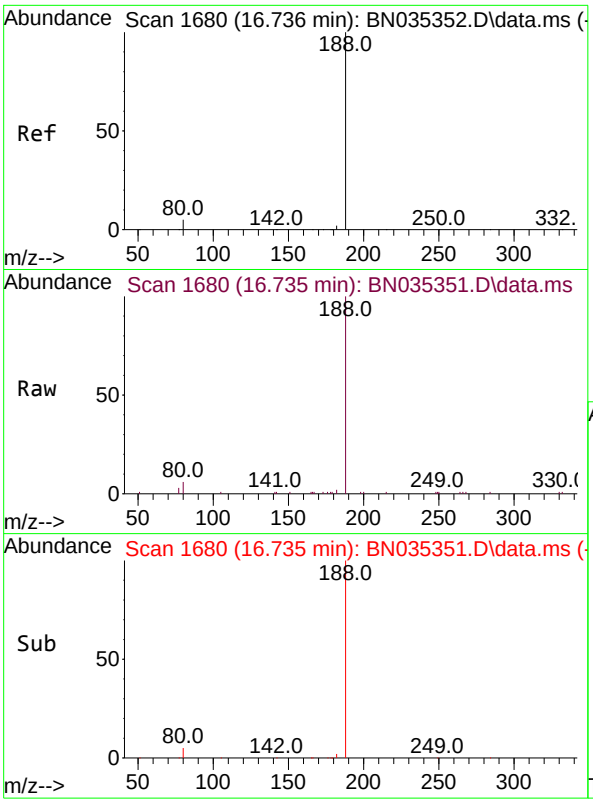


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2

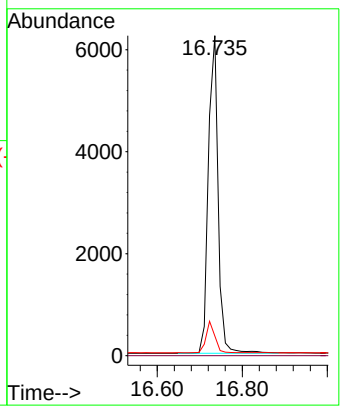




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:188 Resp: 990

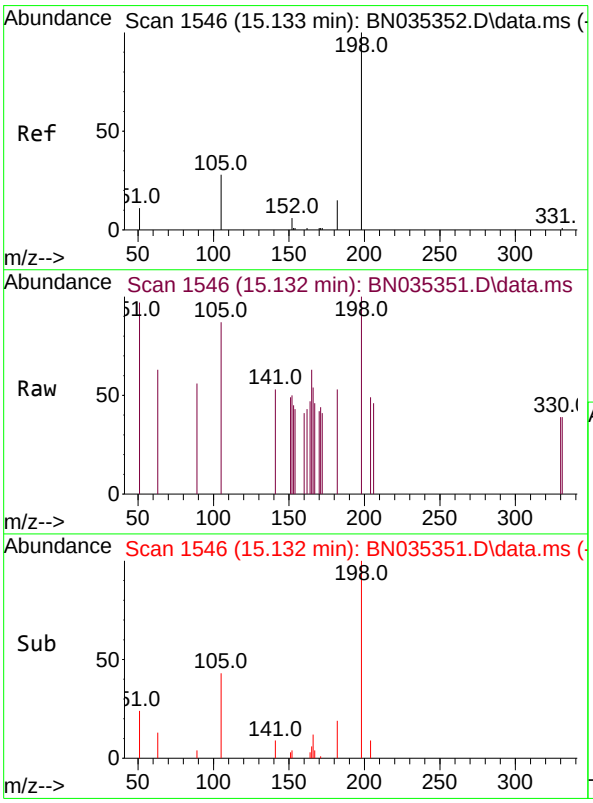
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

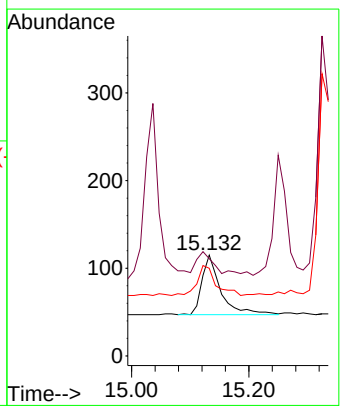
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

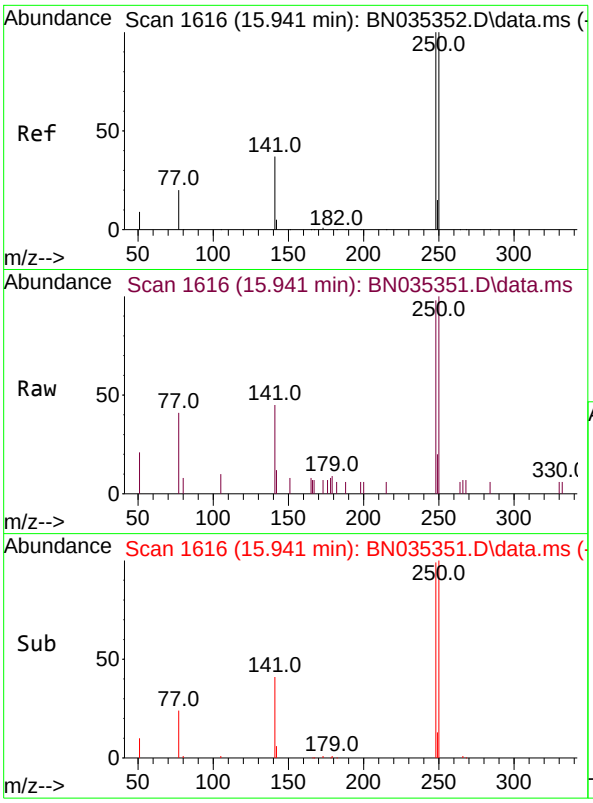


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#

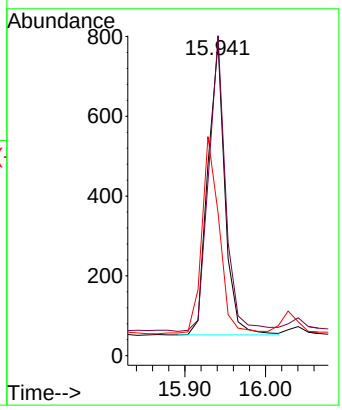




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:248 Resp: 108

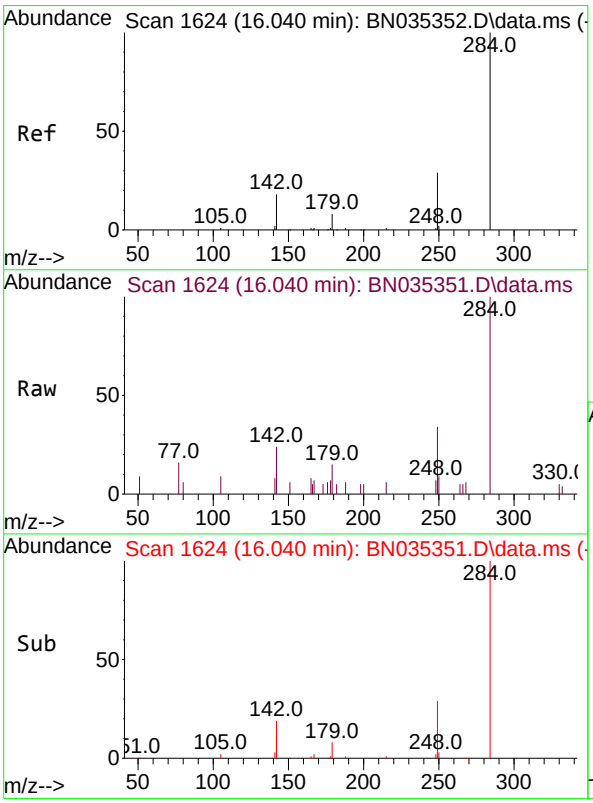
Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

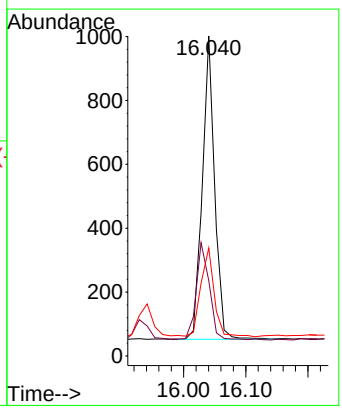
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

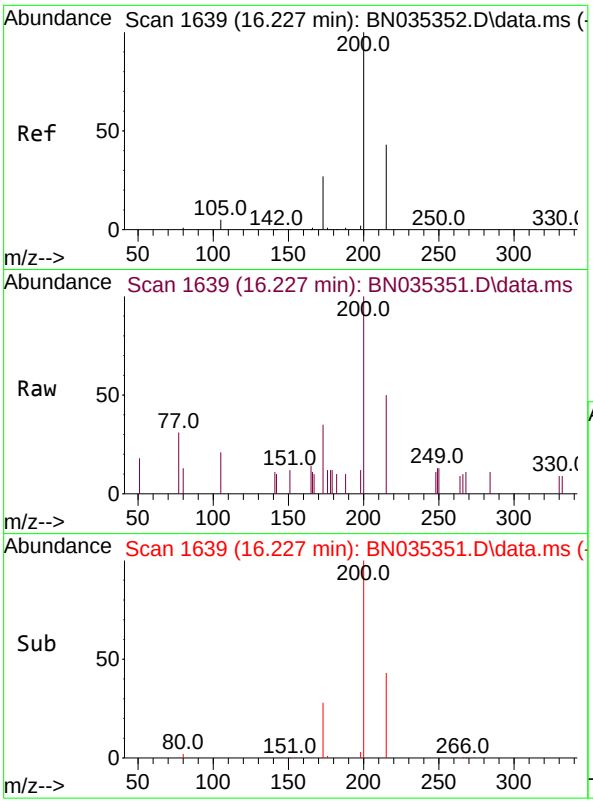


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.7	40.1
249	32.0	24.6	36.8

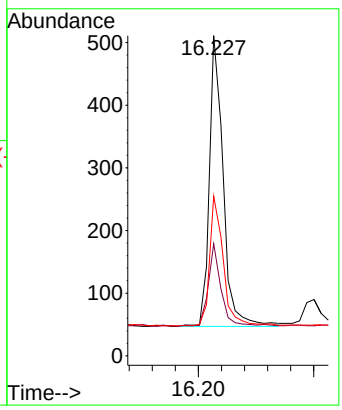




#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:200 Resp: 77(

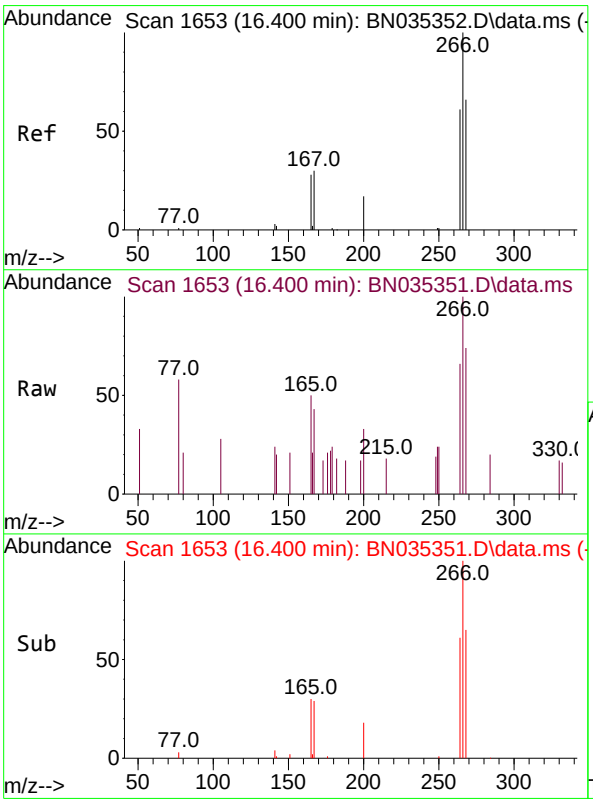
Ion	Ratio	Lower	Upper
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

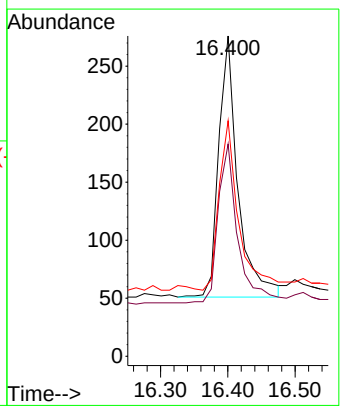
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

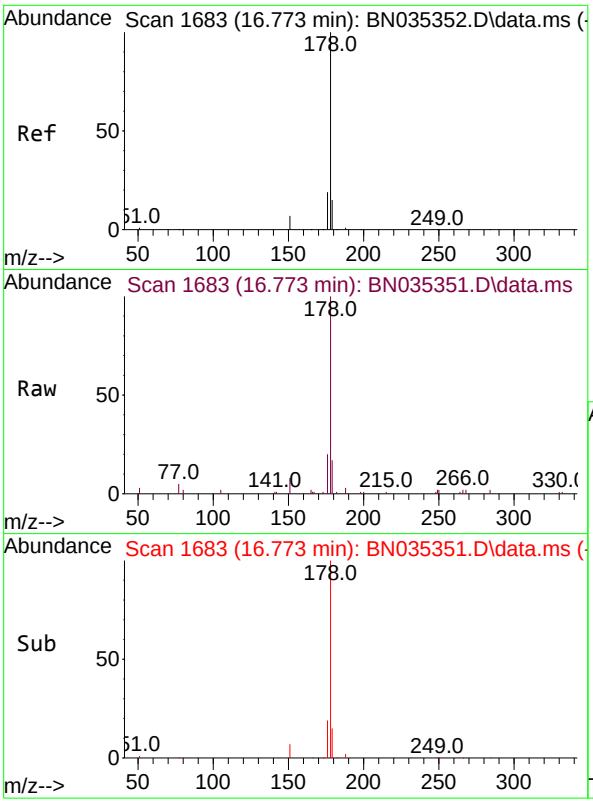


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.2	43.3	64.9#

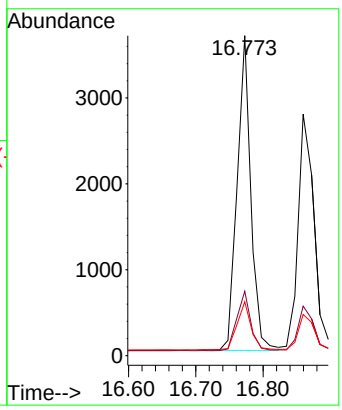




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 518

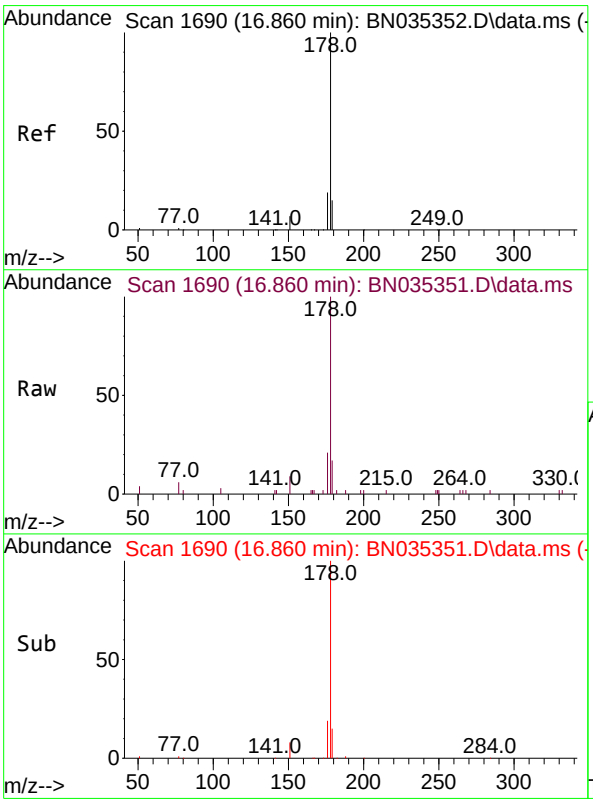
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.9	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

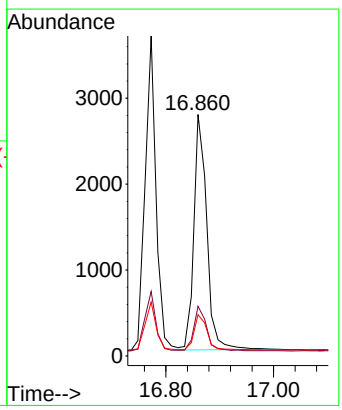
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

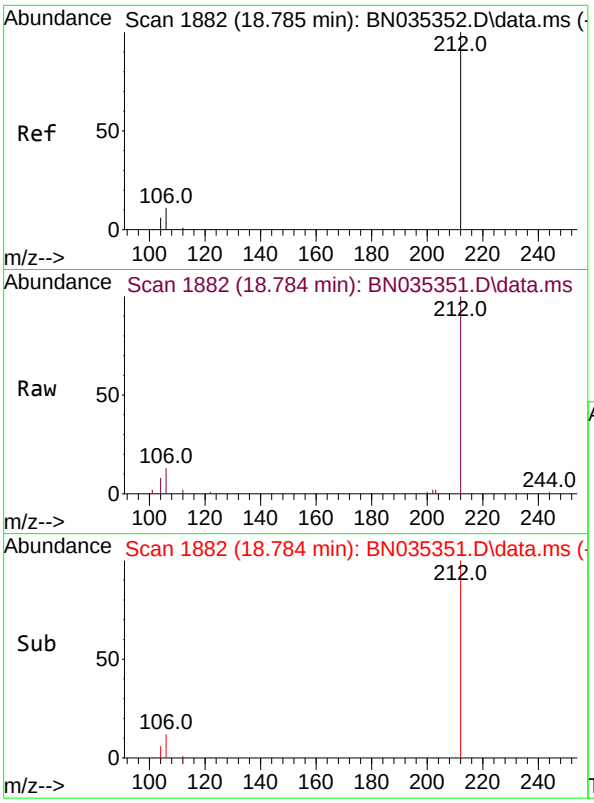


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8

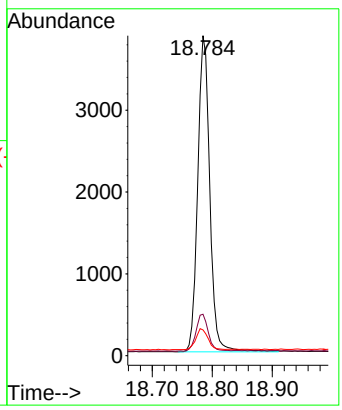




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:212 Resp: 537

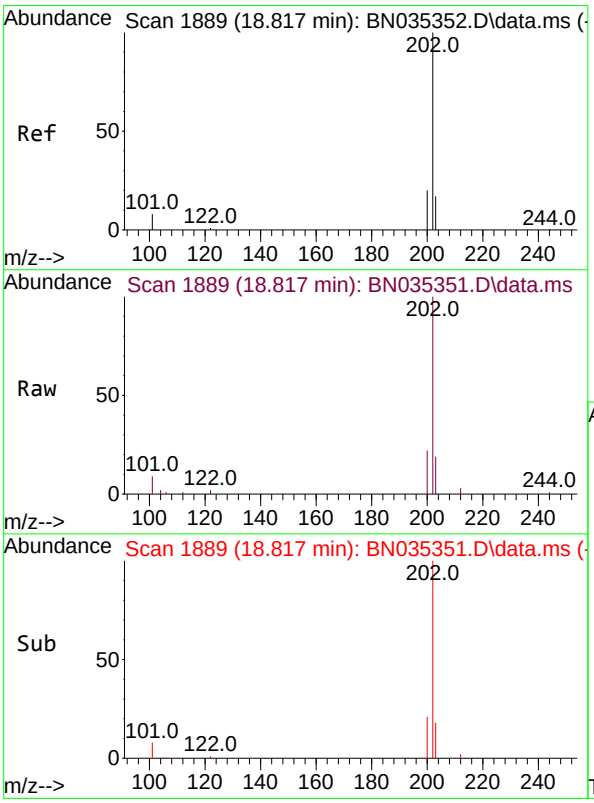
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

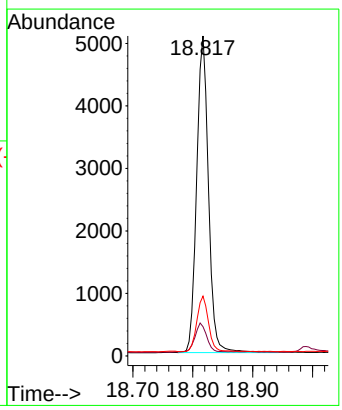
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

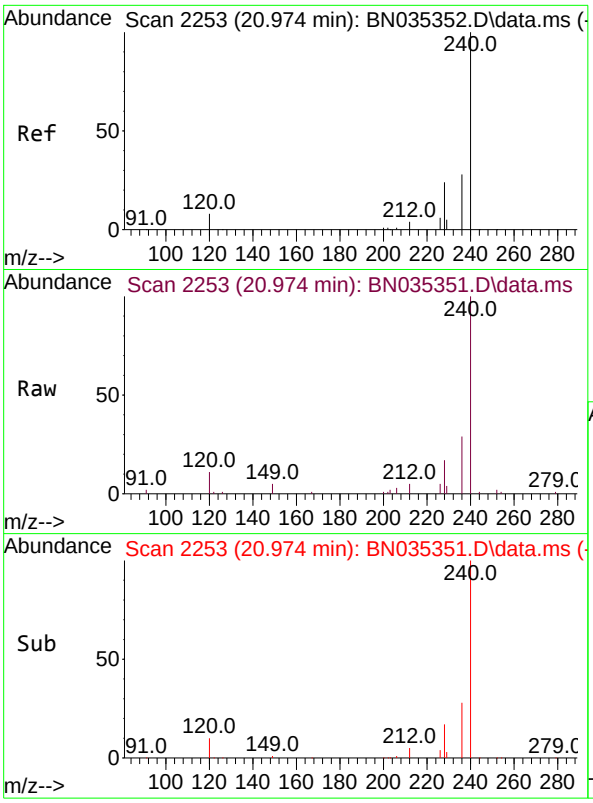


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5

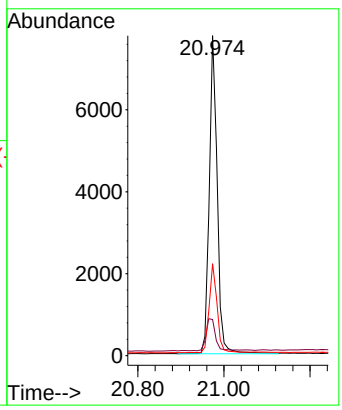




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:240 Resp: 996

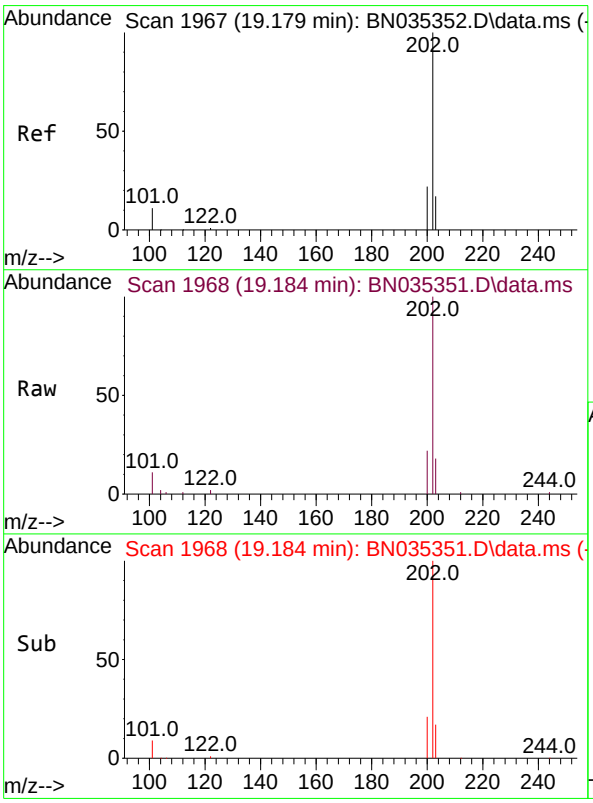
Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

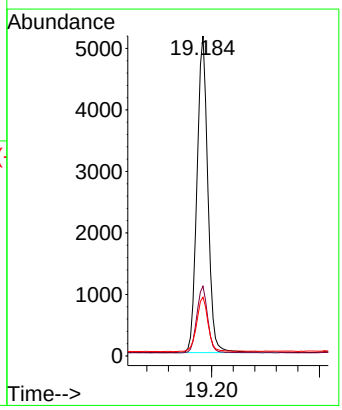
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

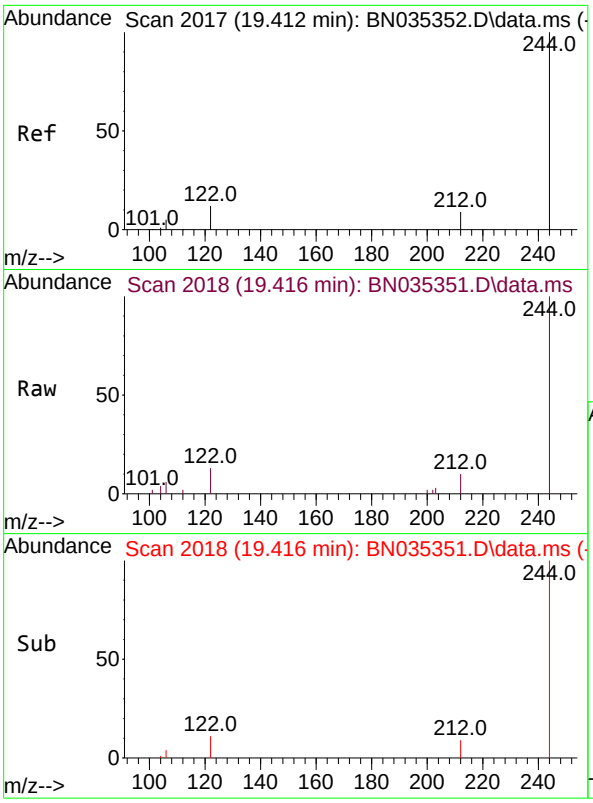


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5

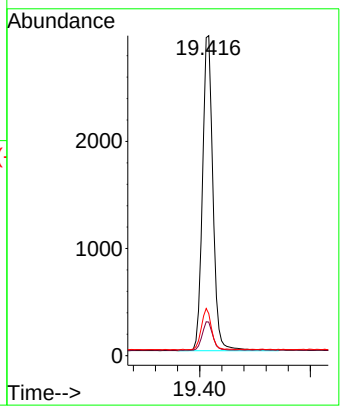




#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:244 Resp: 387

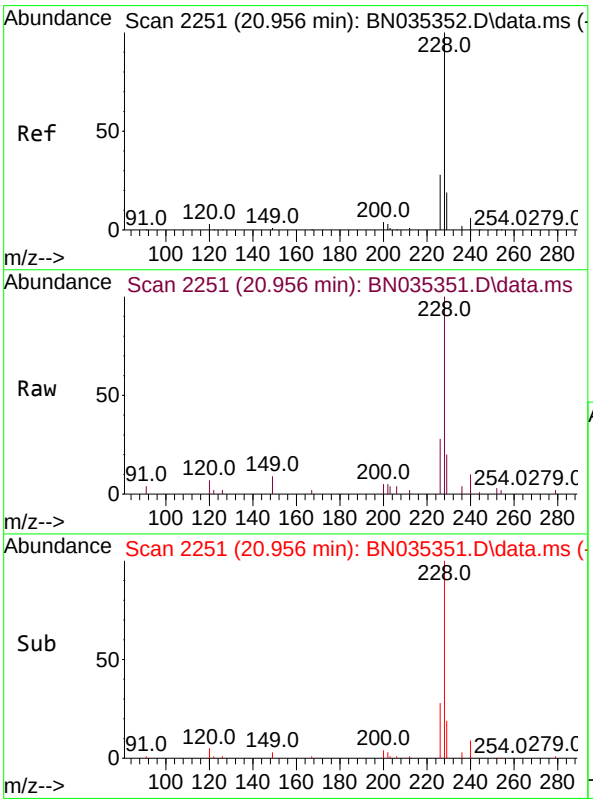
Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

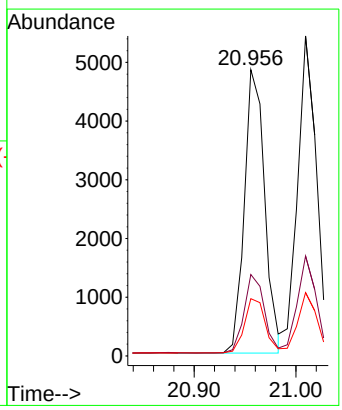
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

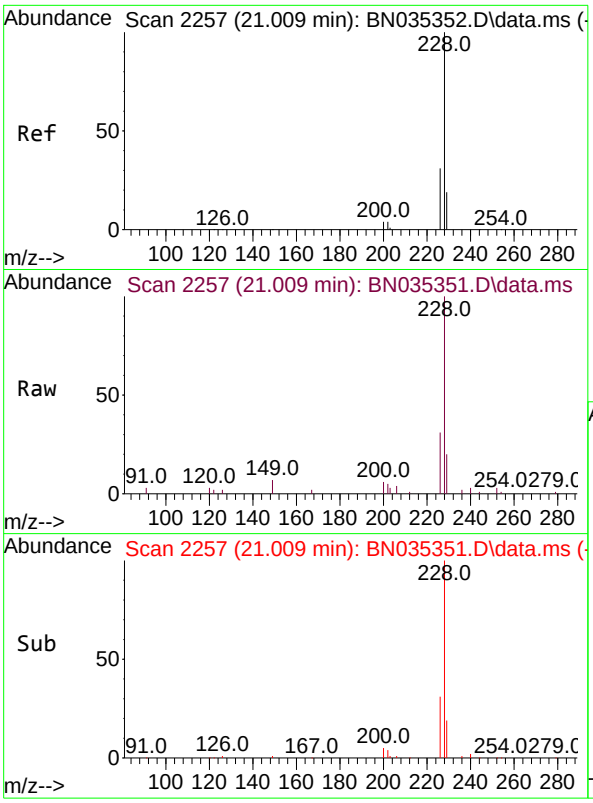


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8

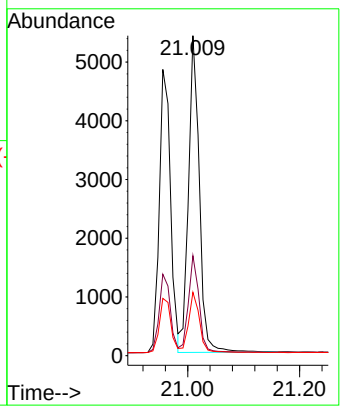




#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 723

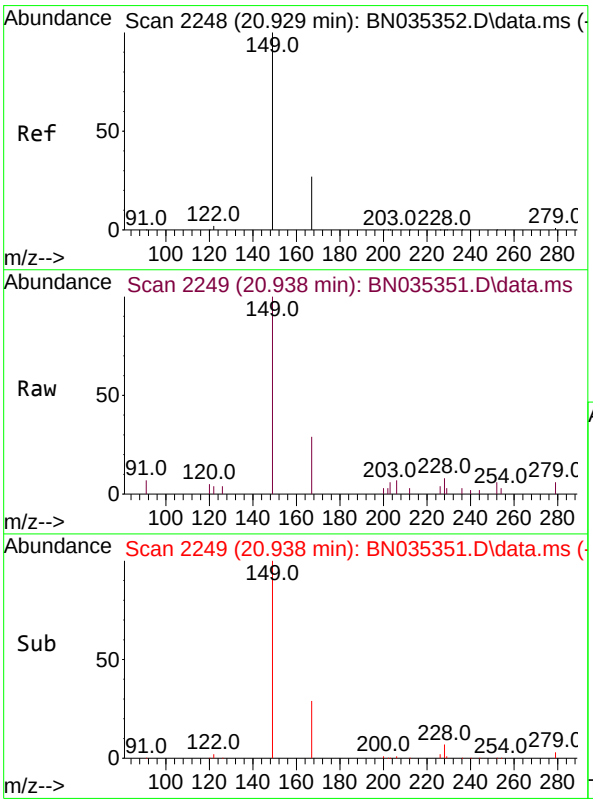
Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

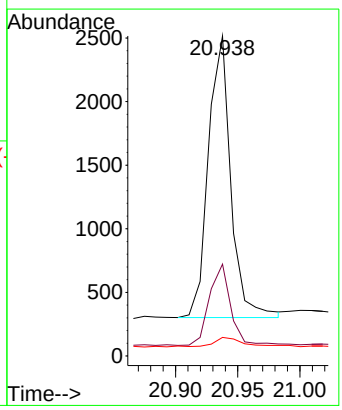
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

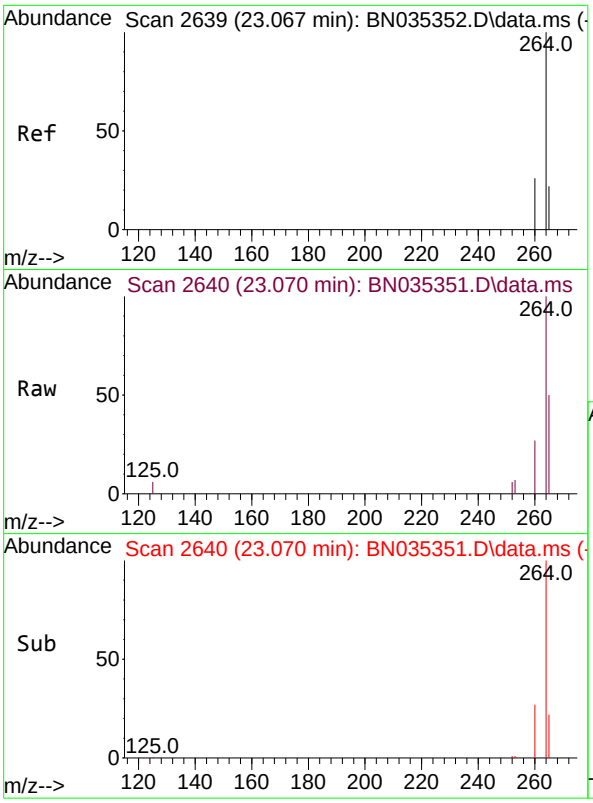


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#

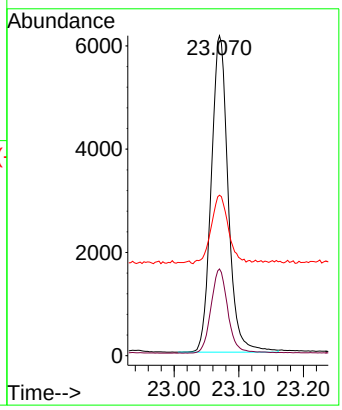




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:264 Resp: 1115

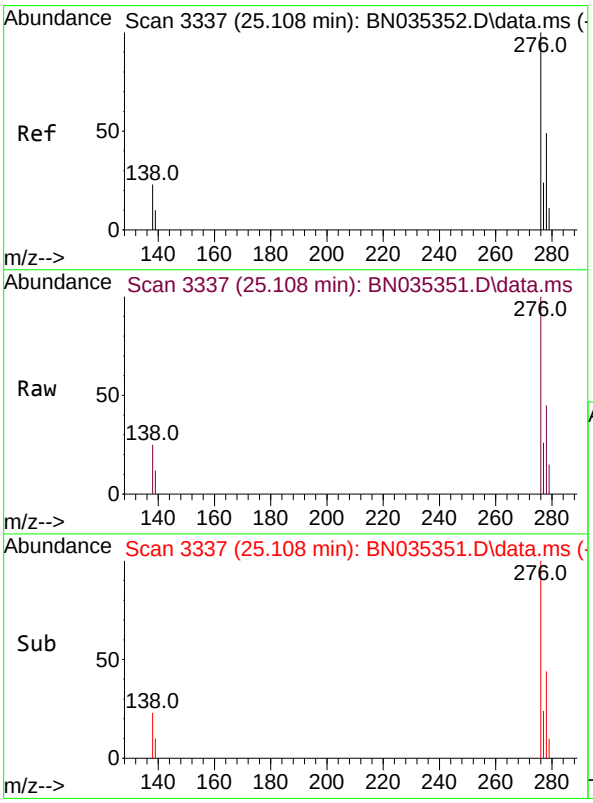
Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

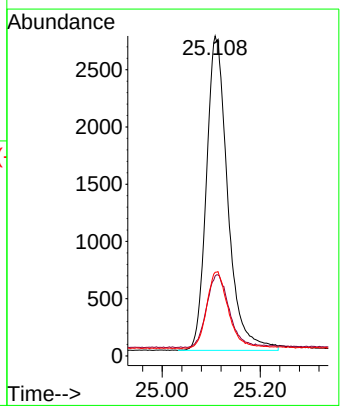
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

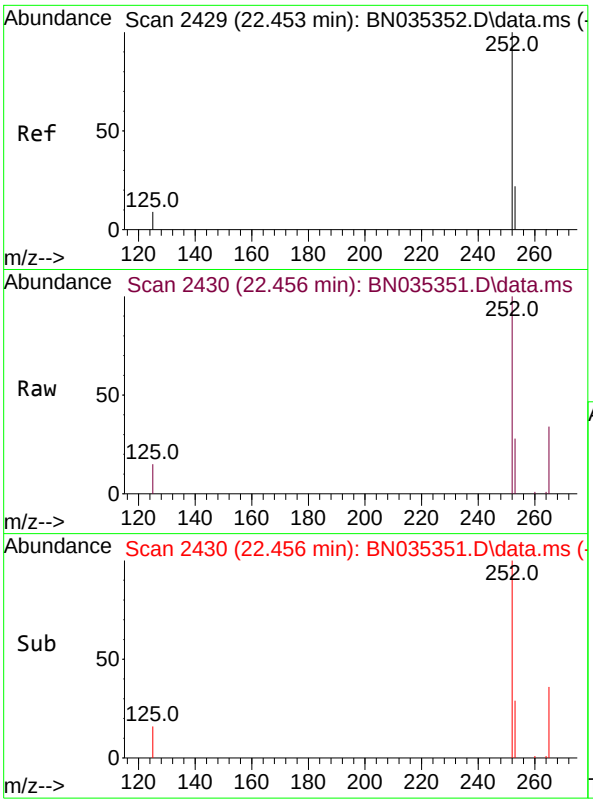


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.4	29.0
277	24.7	19.8	29.6

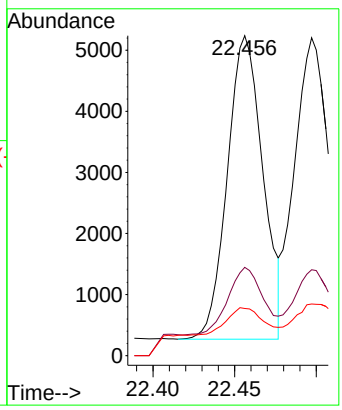




#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 752

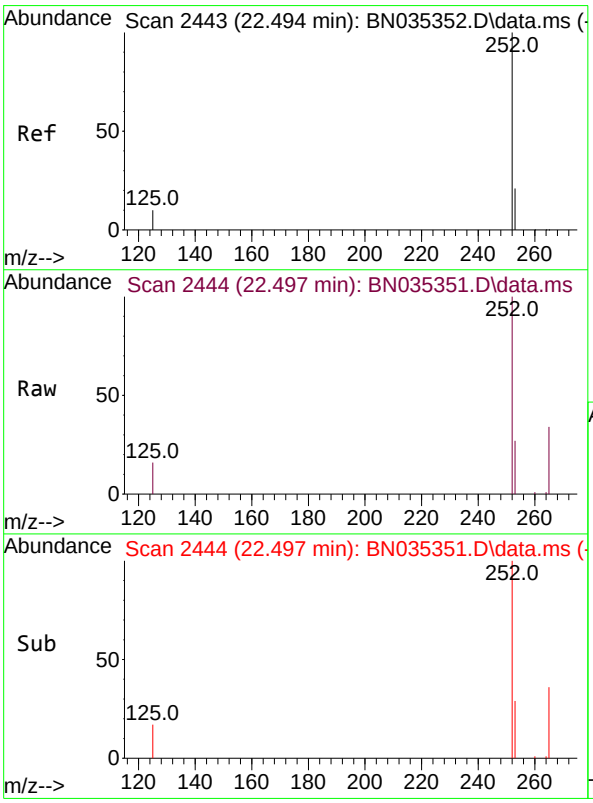
Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

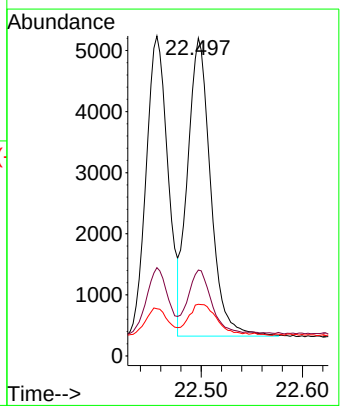
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

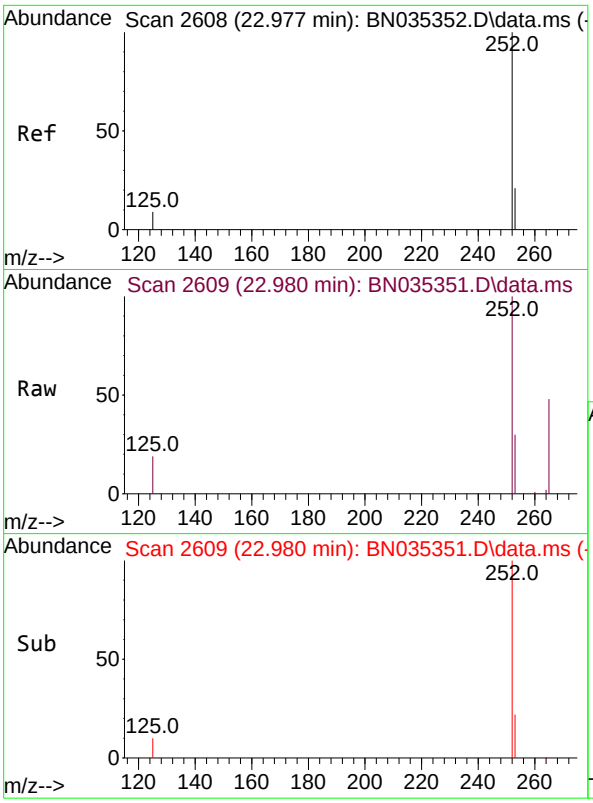


#38
Benzo(k)fluoranthene
Concen: 0.204 ng m
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7675

Ion	Ratio	Lower	Upper
252	100		
253	27.0	19.5	29.3
125	16.2	10.2	15.4#

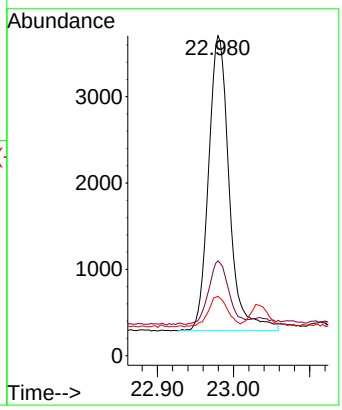




#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 645

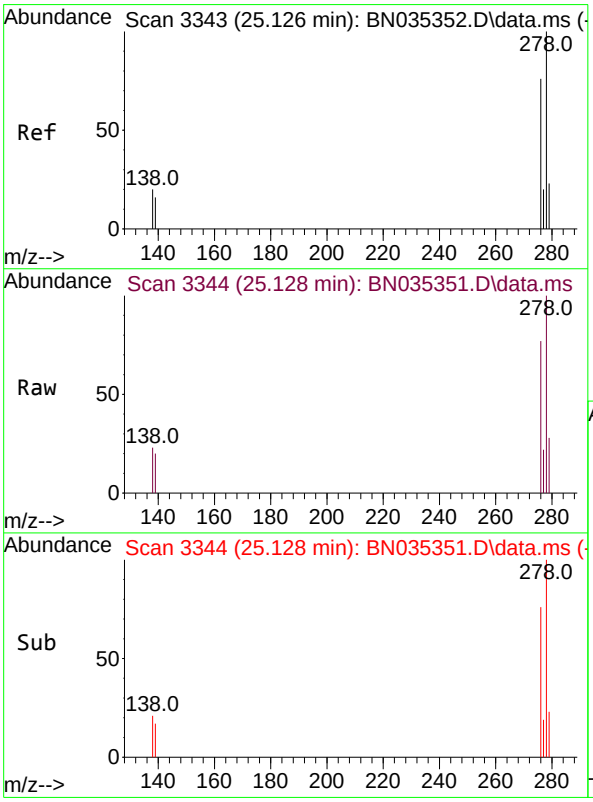
Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

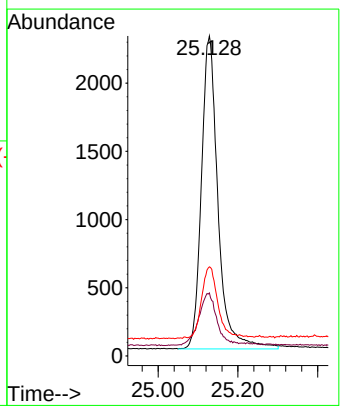
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

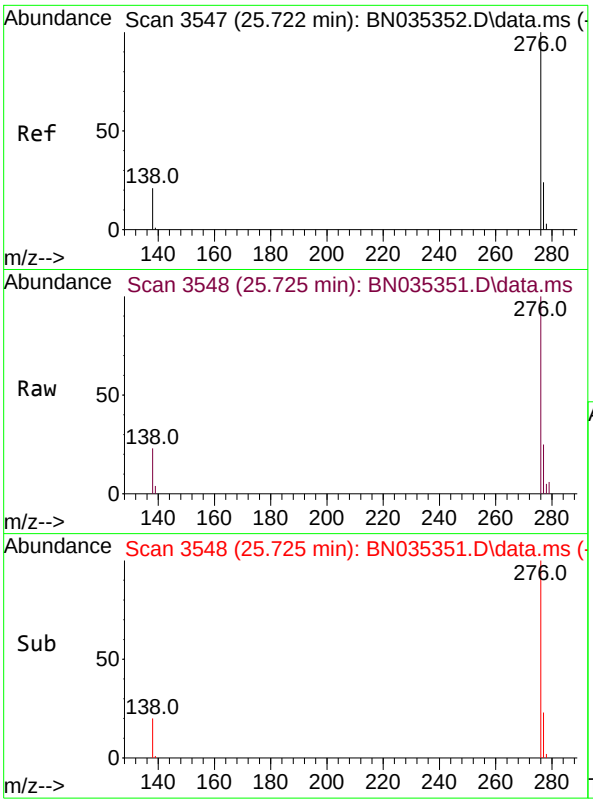


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7

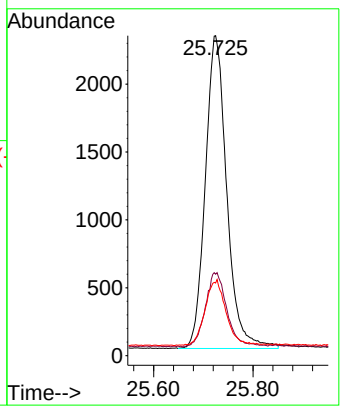




#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 690

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng		0.00
35) Perylene-d12	23.067	264	10842	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2085	0.401	ng		0.00
5) Phenol-d6	6.513	99	2444	0.375	ng		0.00
8) Nitrobenzene-d5	8.440	82	1228m	0.270	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng		0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng		0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng		100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng		100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng		100
9) Naphthalene	10.105	128	5475	0.401	ng		100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng		100
16) Acenaphthylene	13.679	152	6058	0.373	ng		100
17) Acenaphthene	14.031	154	4125	0.388	ng		100
18) Fluorene	15.026	166	5863	0.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng		100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng		100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng		100
23) Atrazine	16.227	200	1461	0.269	ng		100
24) Pentachlorophenol	16.400	266	906	0.309	ng		87
25) Phenanthrene	16.773	178	10127	0.405	ng		100
26) Anthracene	16.860	178	8921	0.389	ng		100
28) Fluoranthene	18.817	202	13438	0.391	ng		100
30) Pyrene	19.179	202	14053	0.443	ng		100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng		100
33) Chrysene	21.009	228	13729	0.418	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng		100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng		100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng		100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng		100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng		100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng		100

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

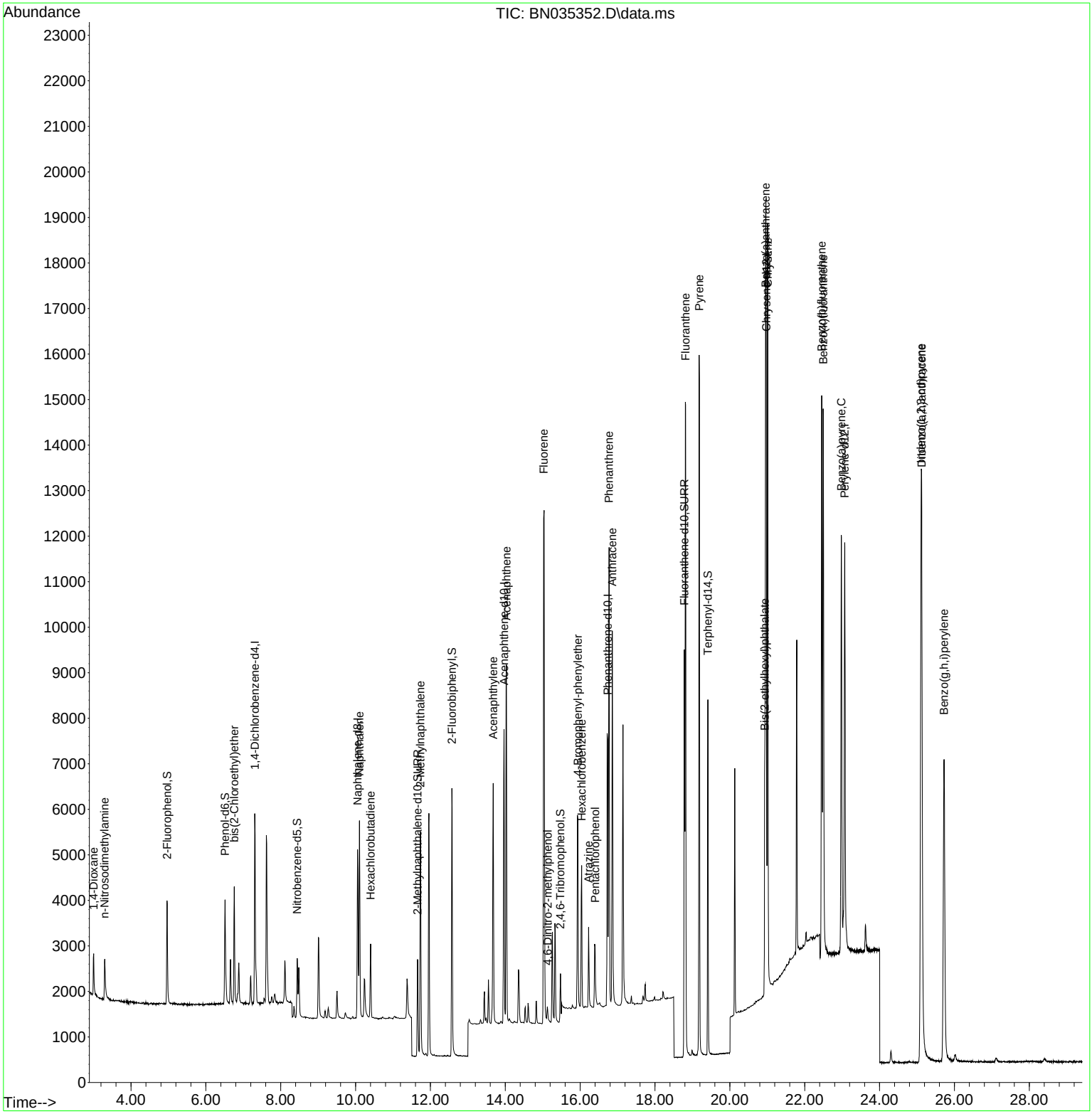
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

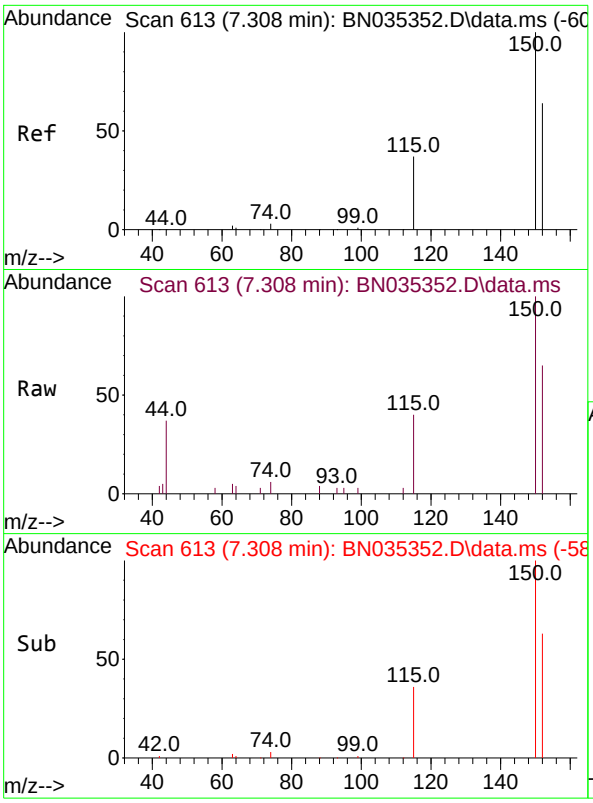
Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

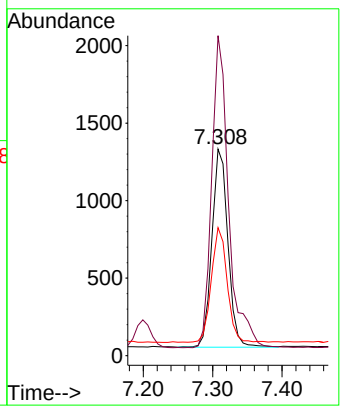




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 204

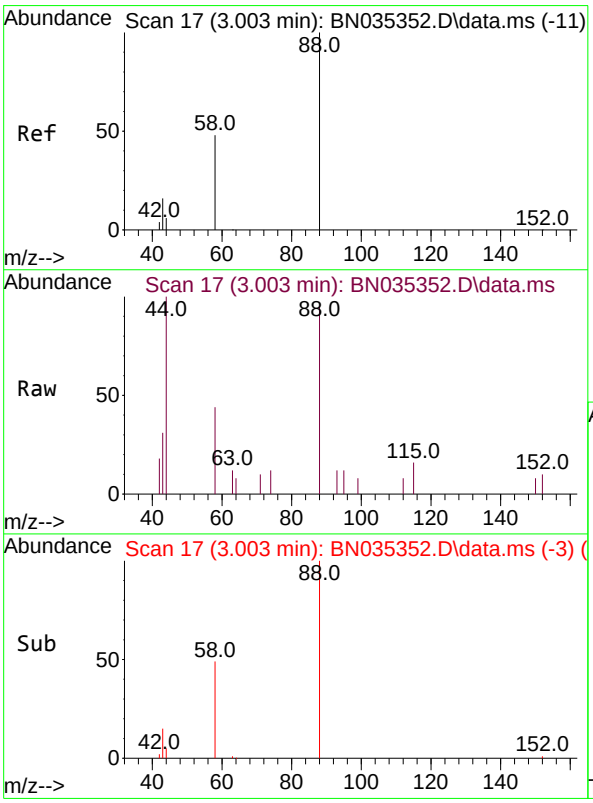
Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

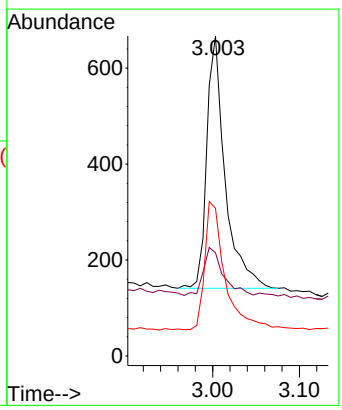
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

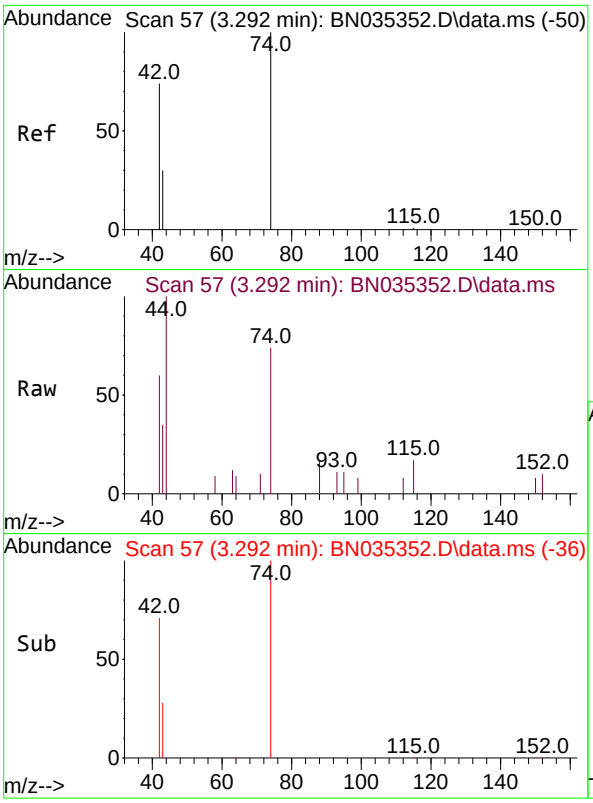


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	55.6	44.5	66.7

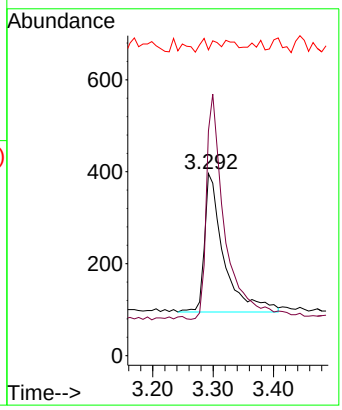




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 42 Resp: 66

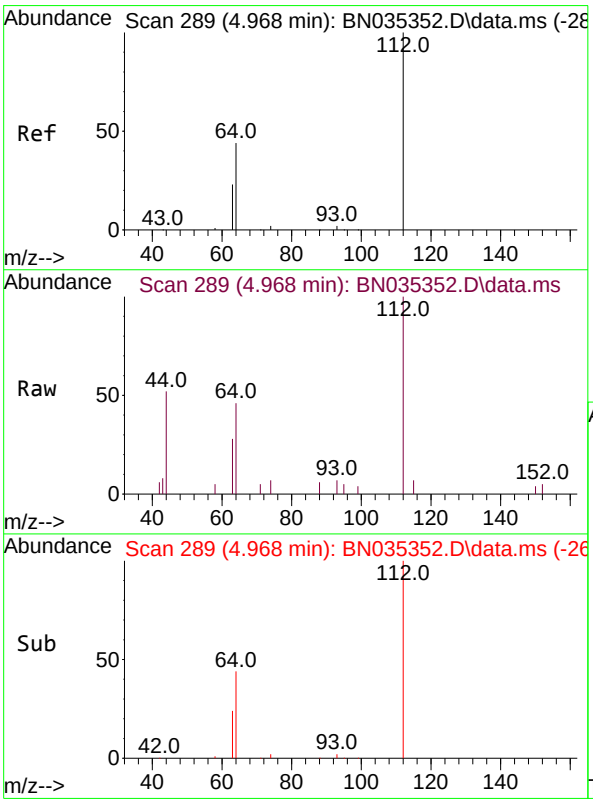
Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

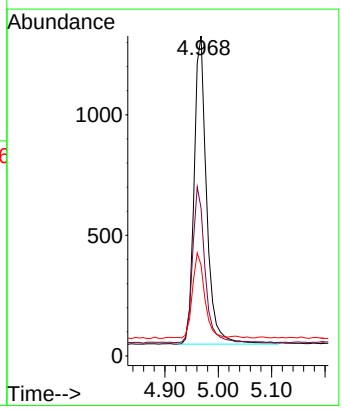
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

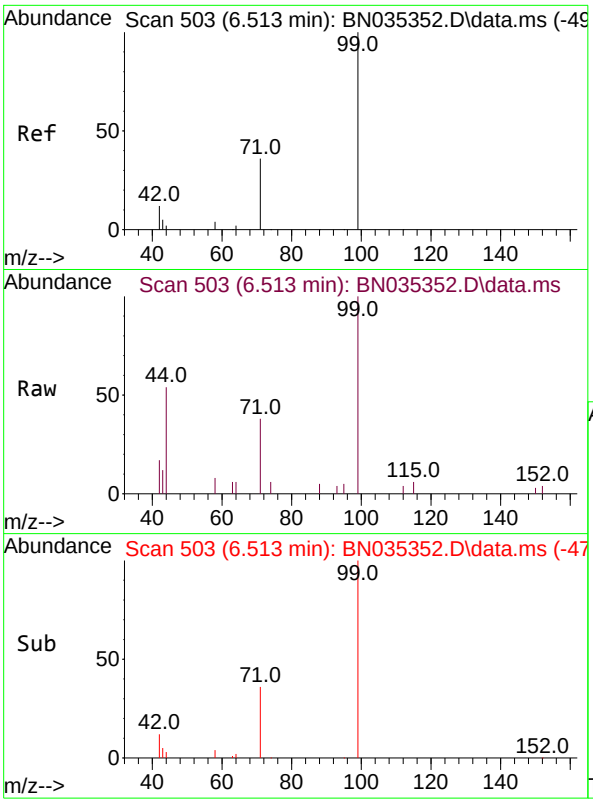


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.8	59.8
63	26.3	21.0	31.6

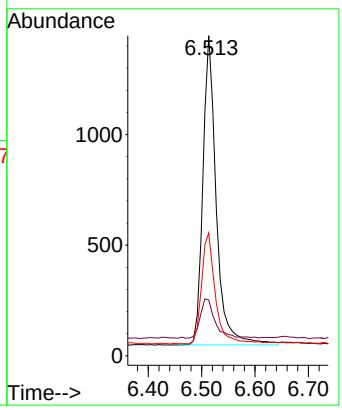




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 99 Resp: 244

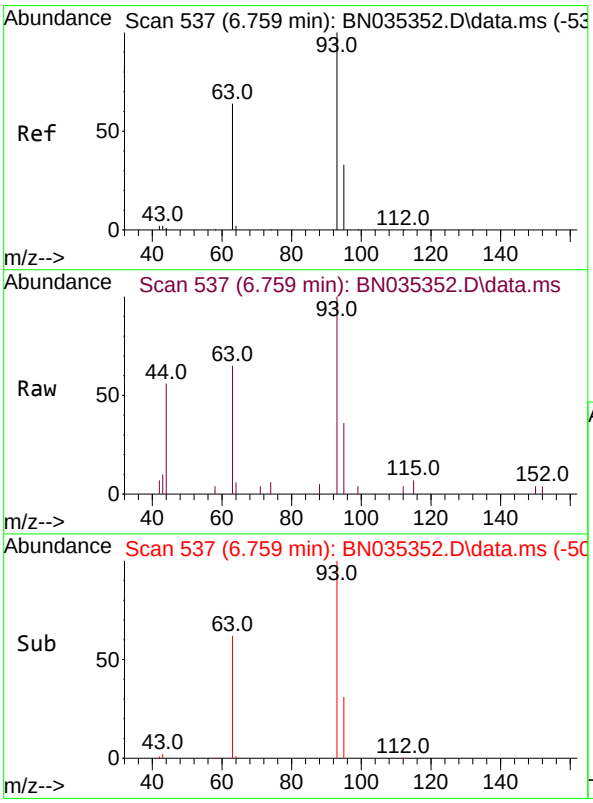
Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

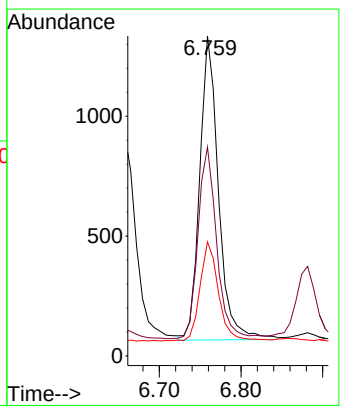
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

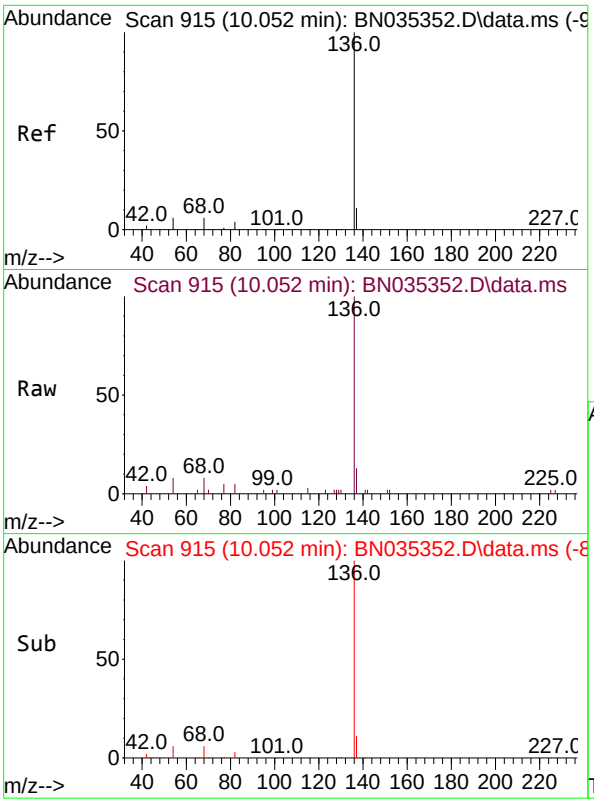


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5

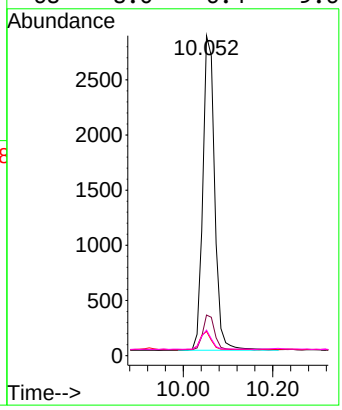




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:136 Resp: 522

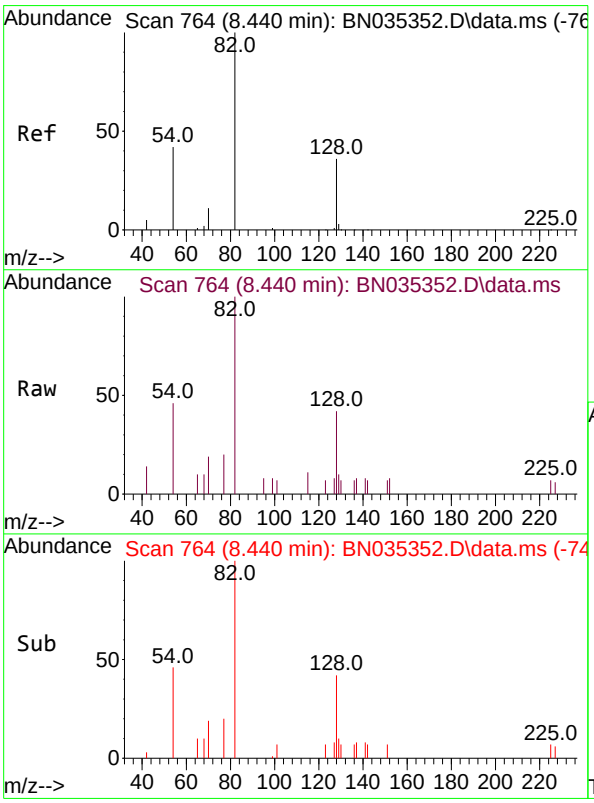
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

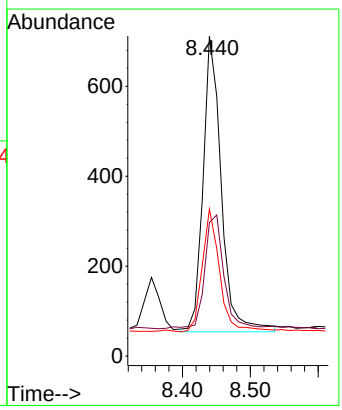
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

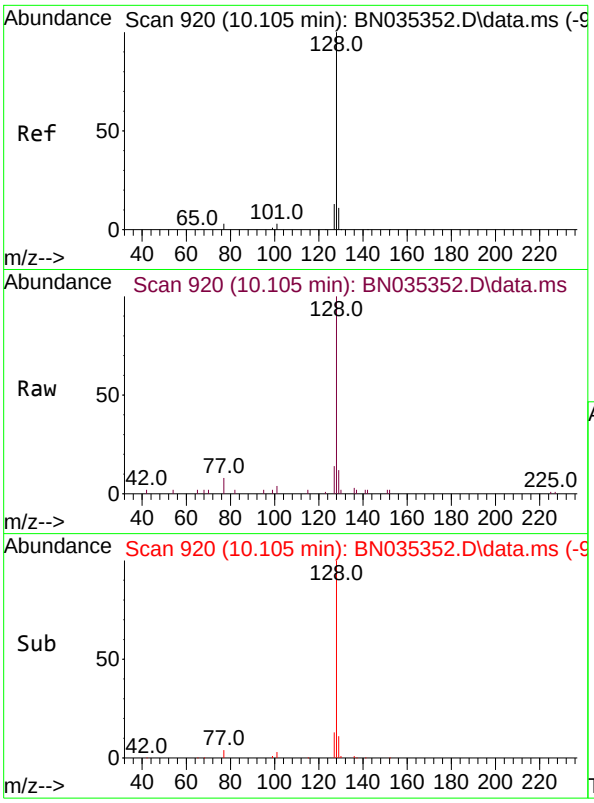


#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1228

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1

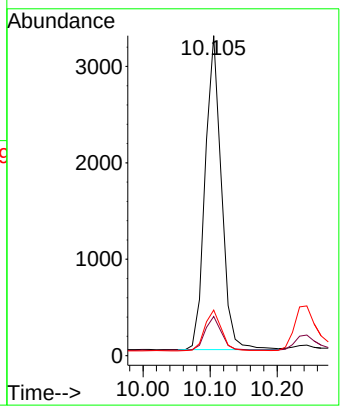




#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:128 Resp: 547

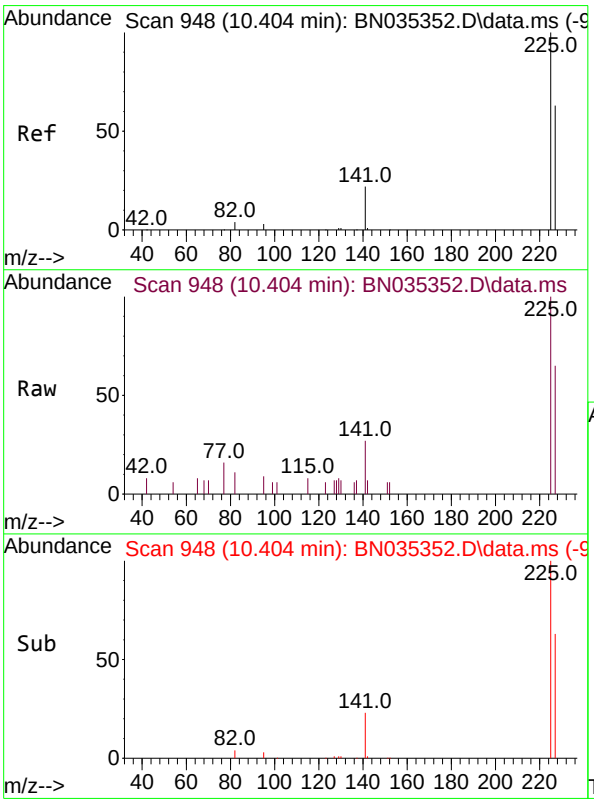
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

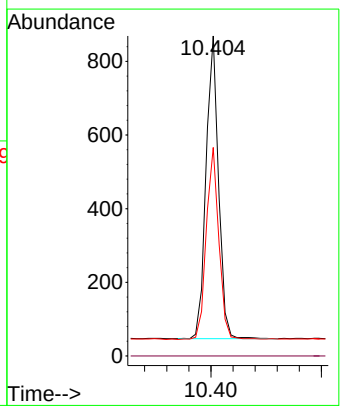
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

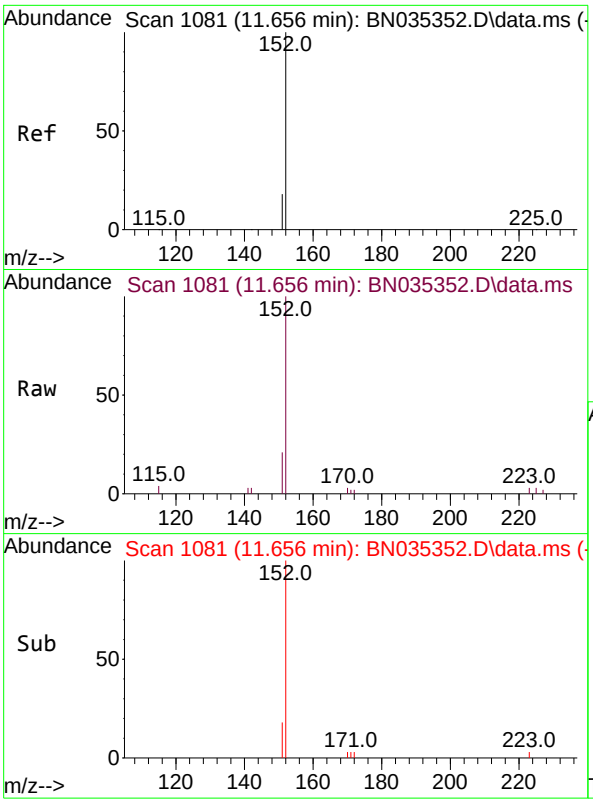


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

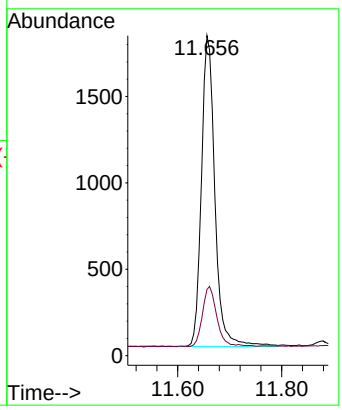
Tgt Ion:152 Resp: 323

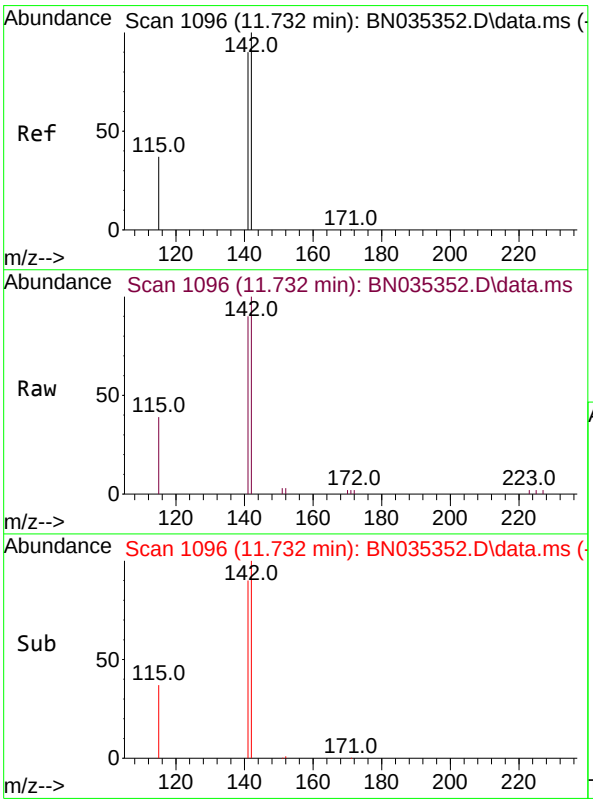
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

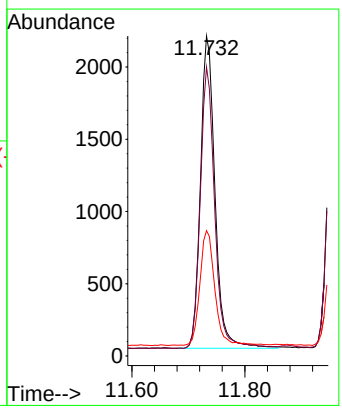


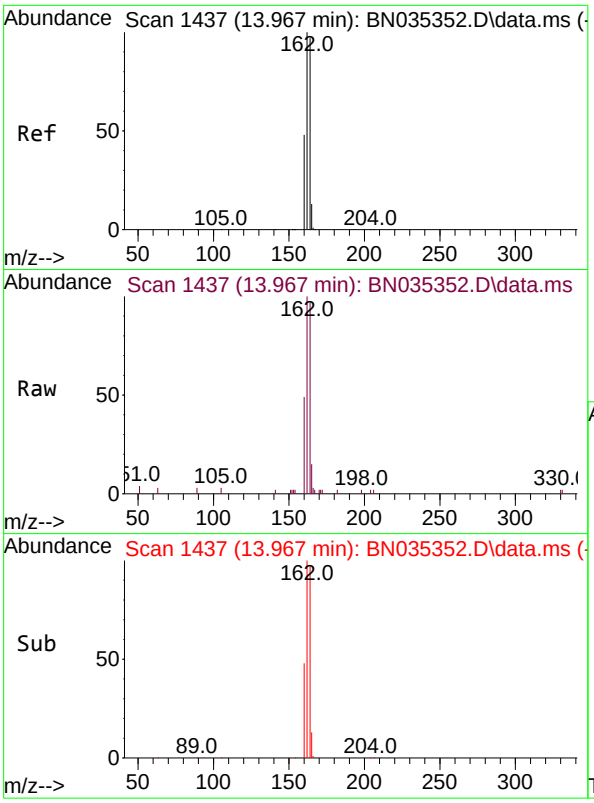


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.2	31.4	47.0

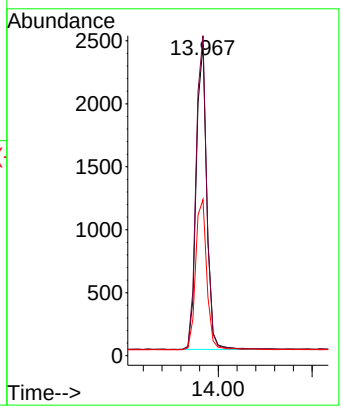




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:164 Resp: 3799

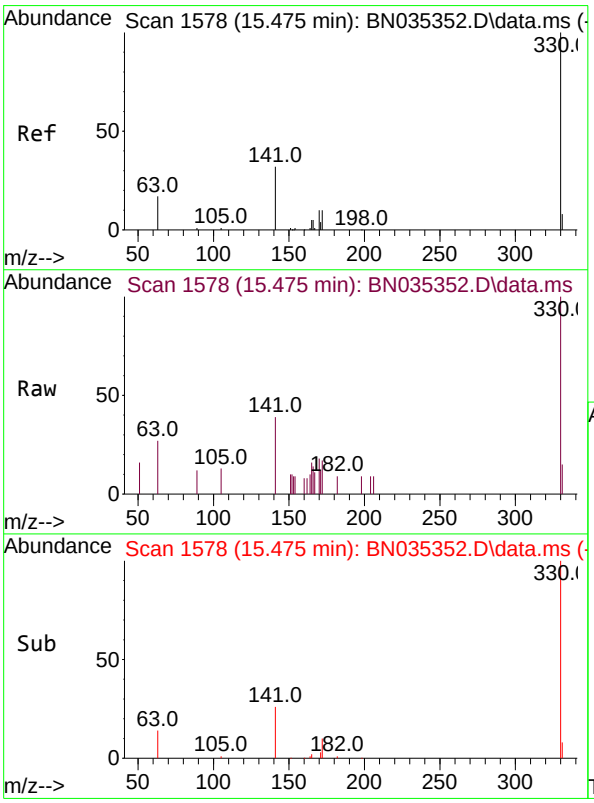
Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.1	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

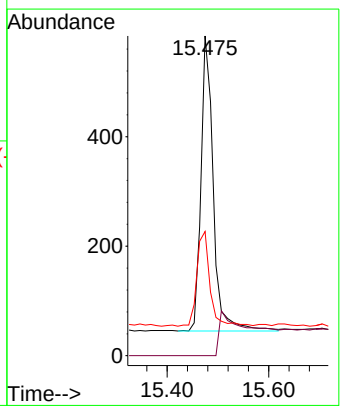
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

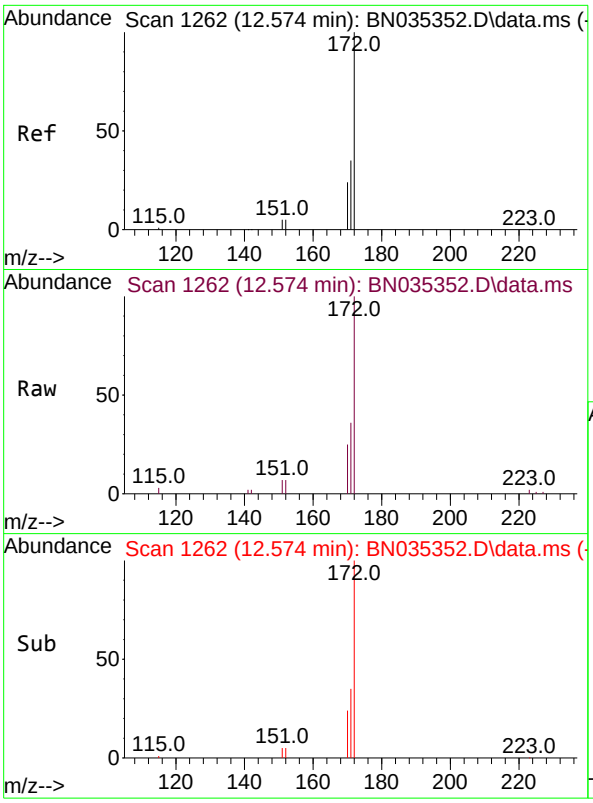


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0

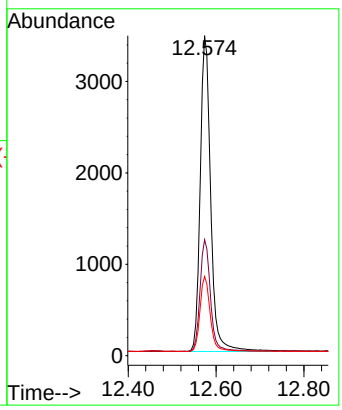




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:172 Resp: 573

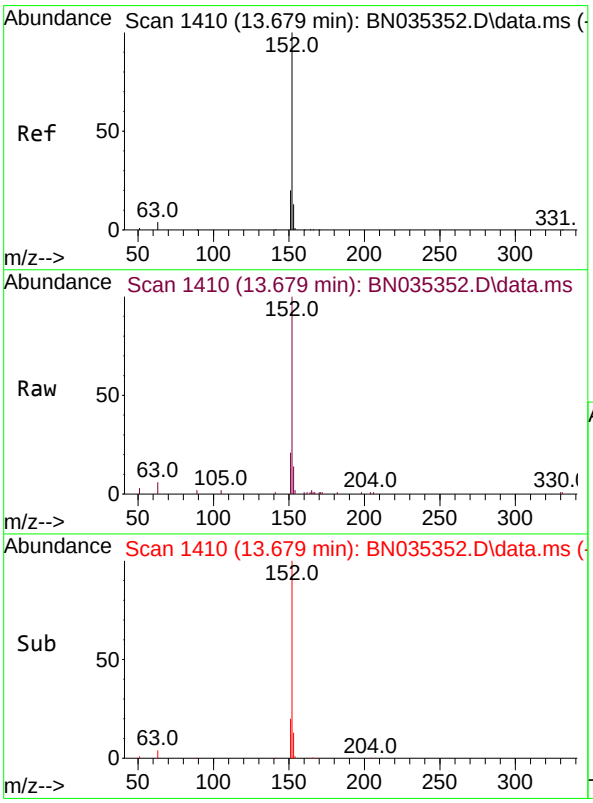
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

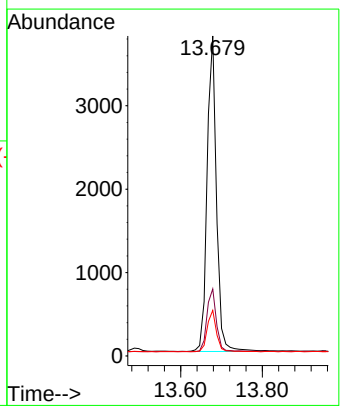
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

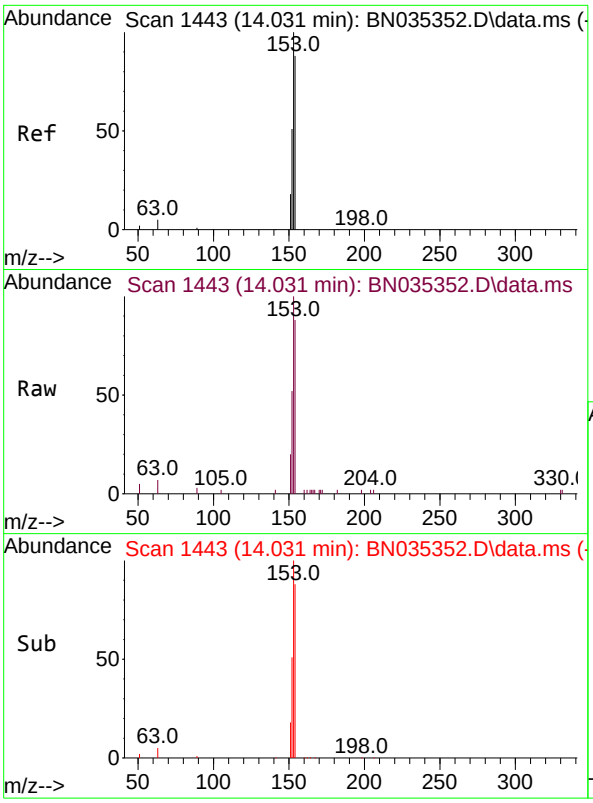


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6

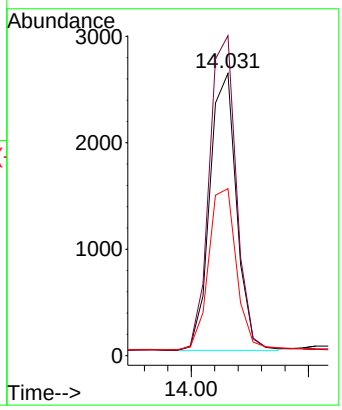




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:154 Resp: 412

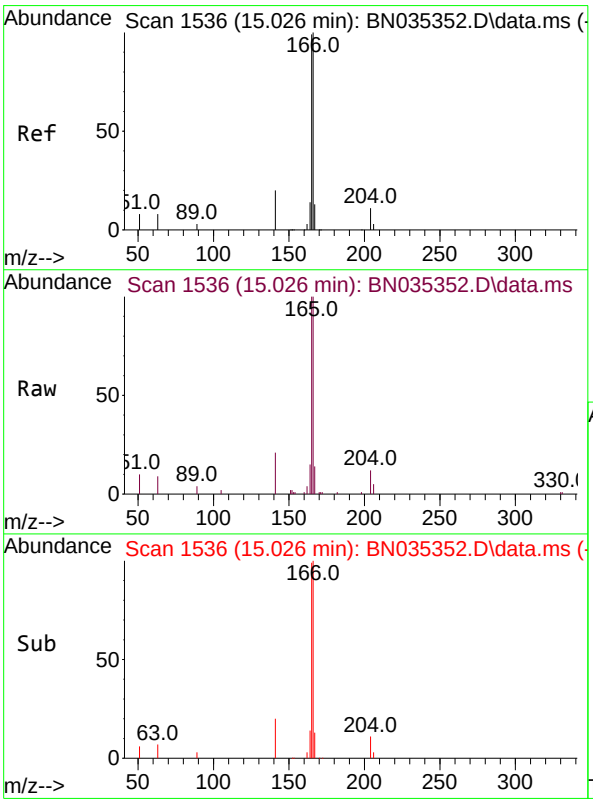
Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

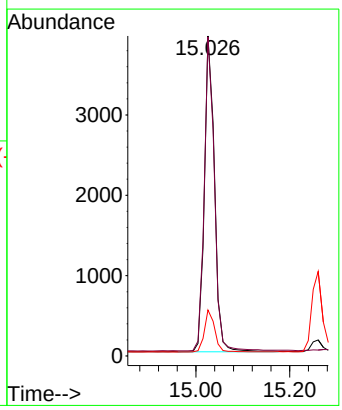
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

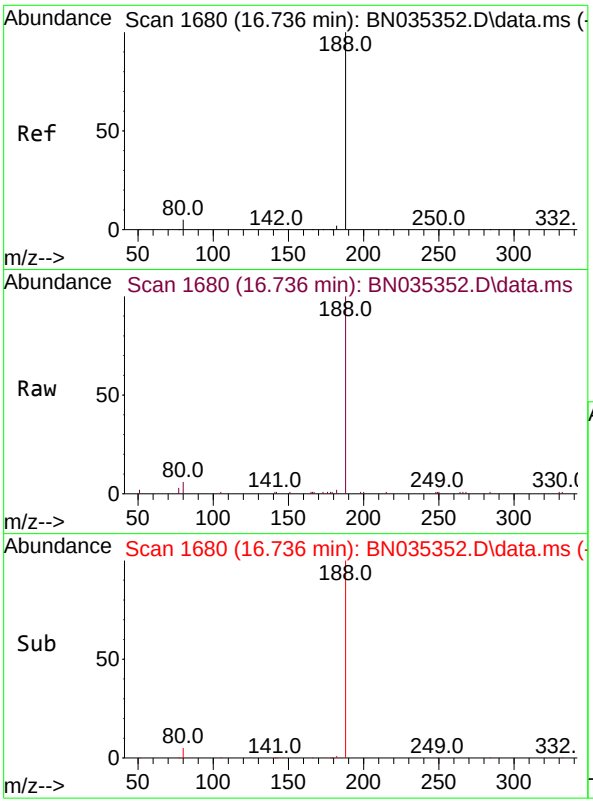


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.5	10.8	16.2

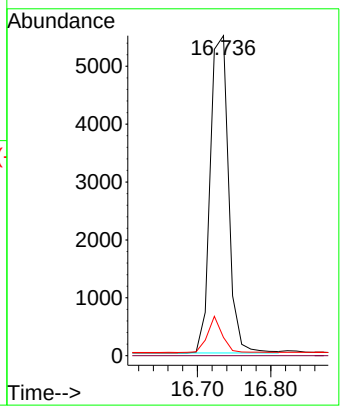




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:188 Resp: 949(

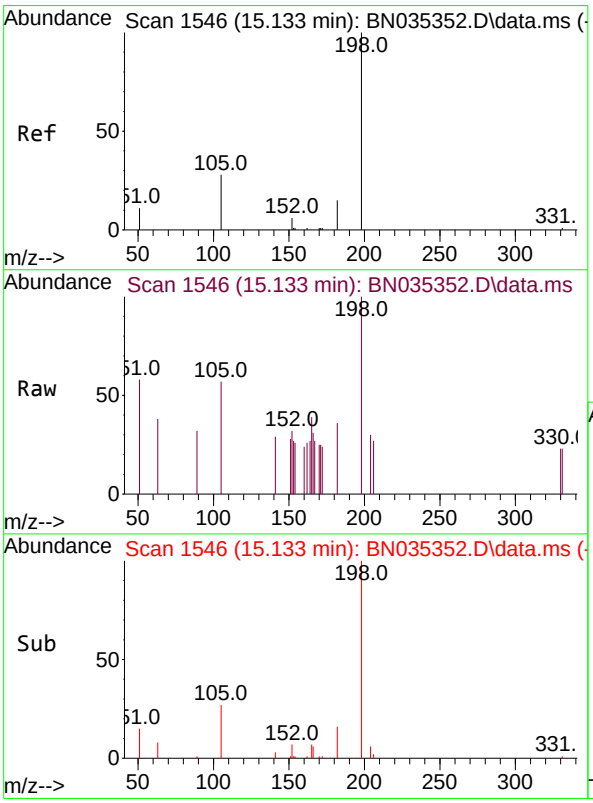
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

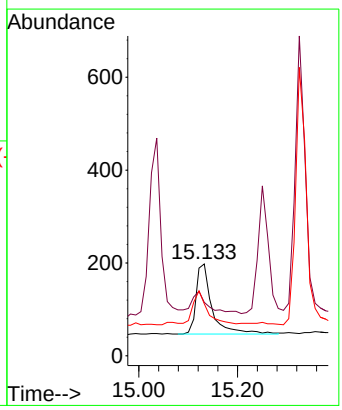
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

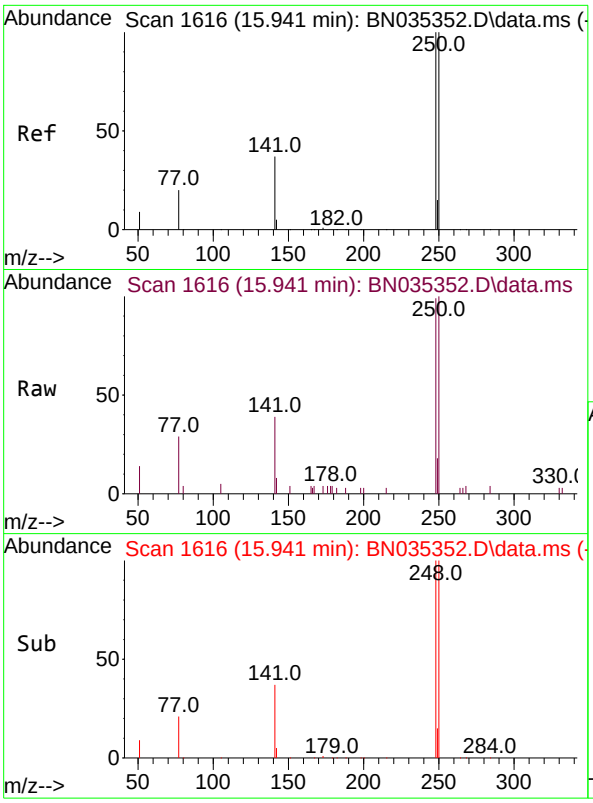


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9

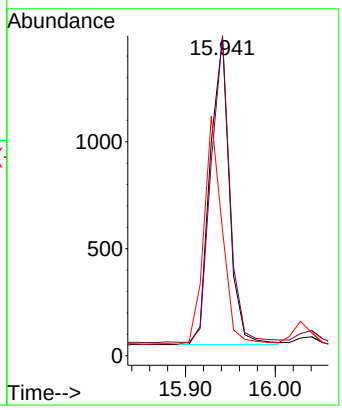




#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:248 Resp: 214(

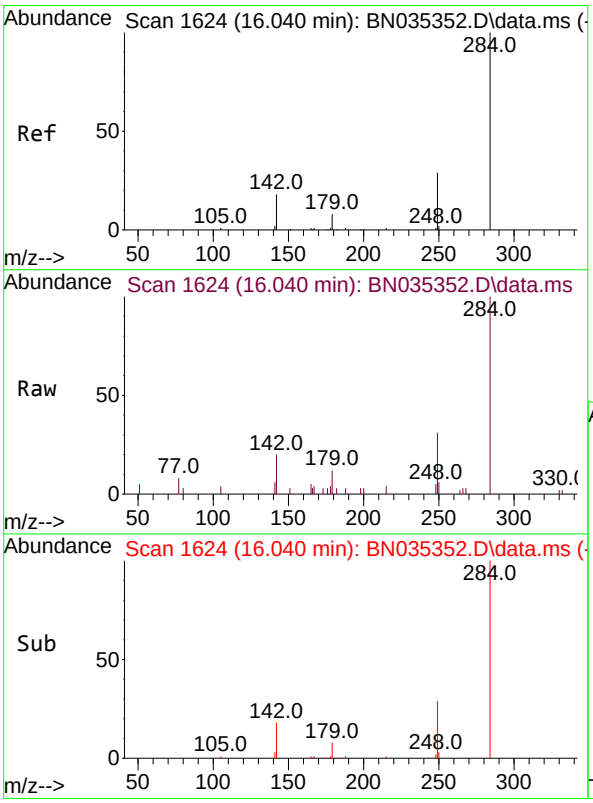
Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

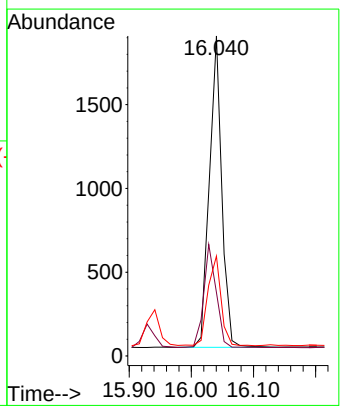
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

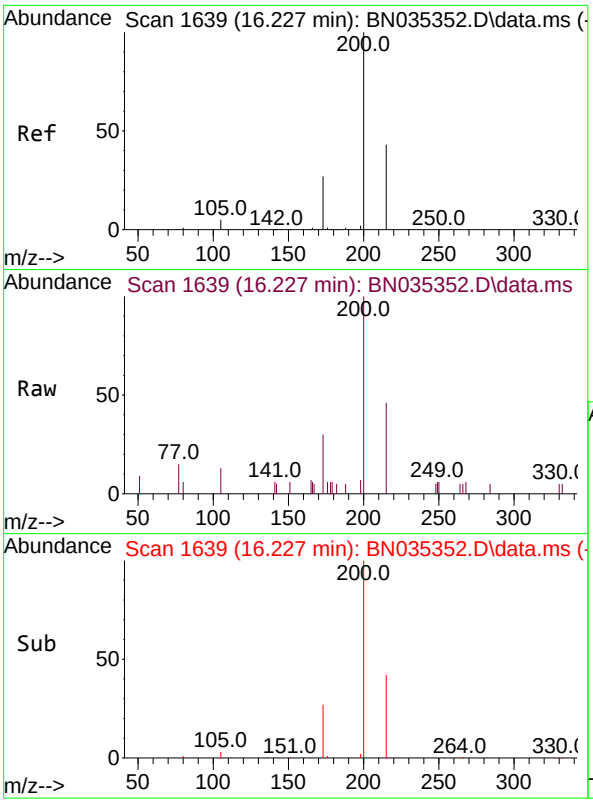


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8

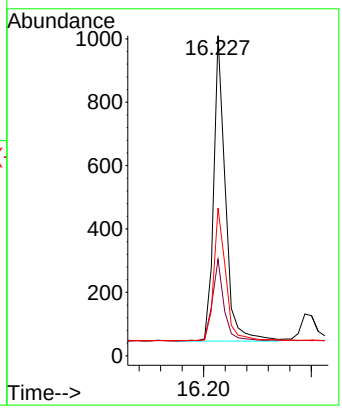




#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:200 Resp: 146

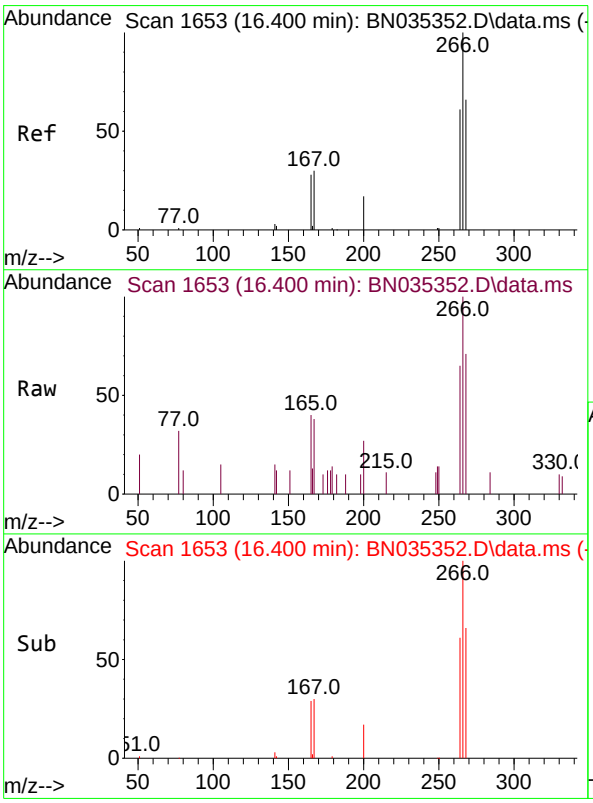
Ion	Ratio	Lower	Upper
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

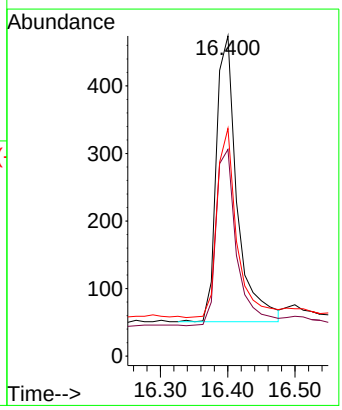
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

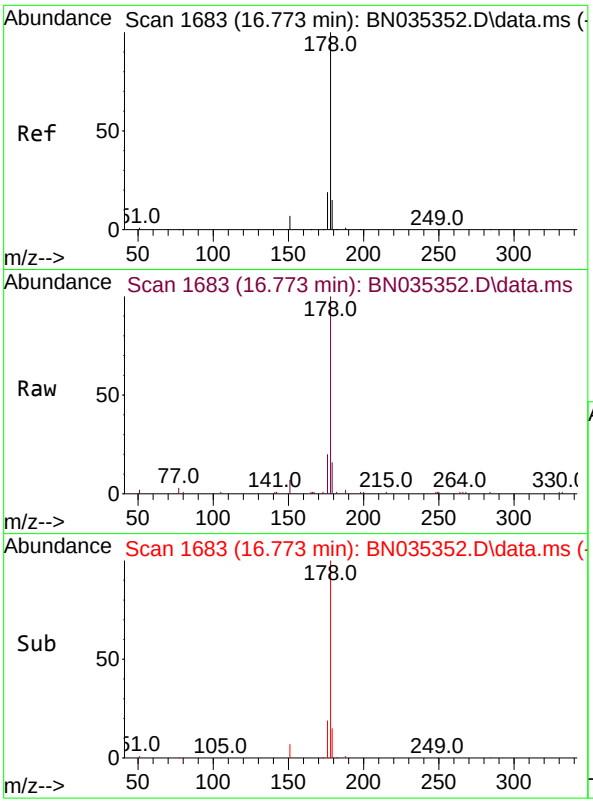


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9

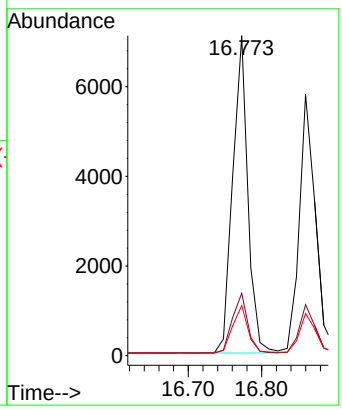




#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 1012

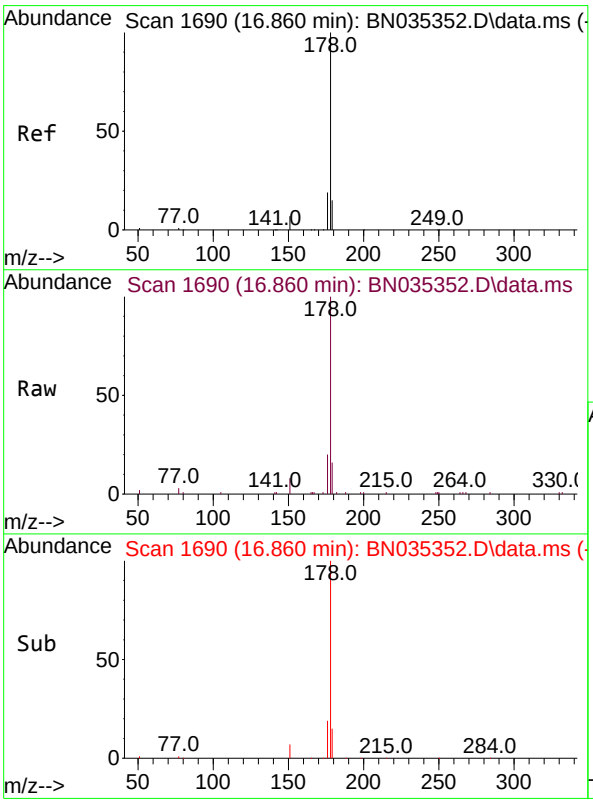
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

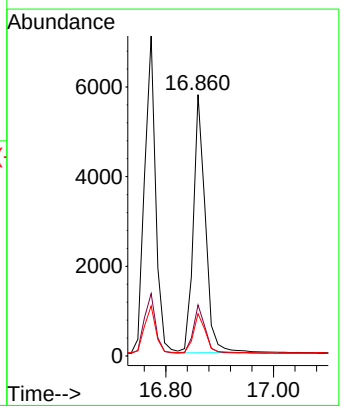
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

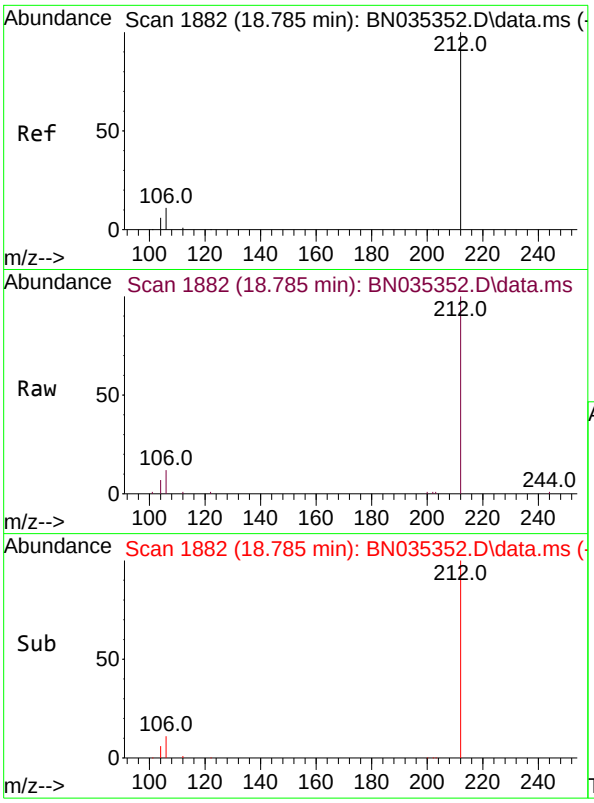


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.6	18.8

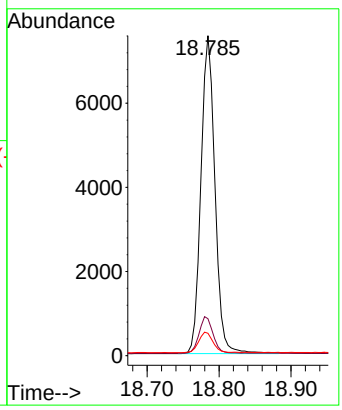




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:212 Resp: 1022

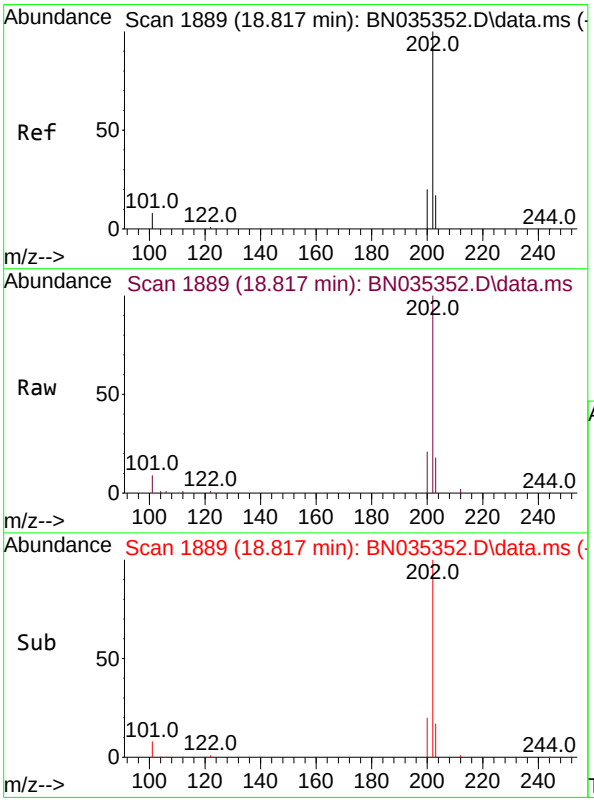
Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

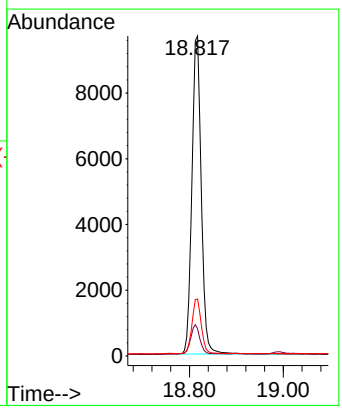
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

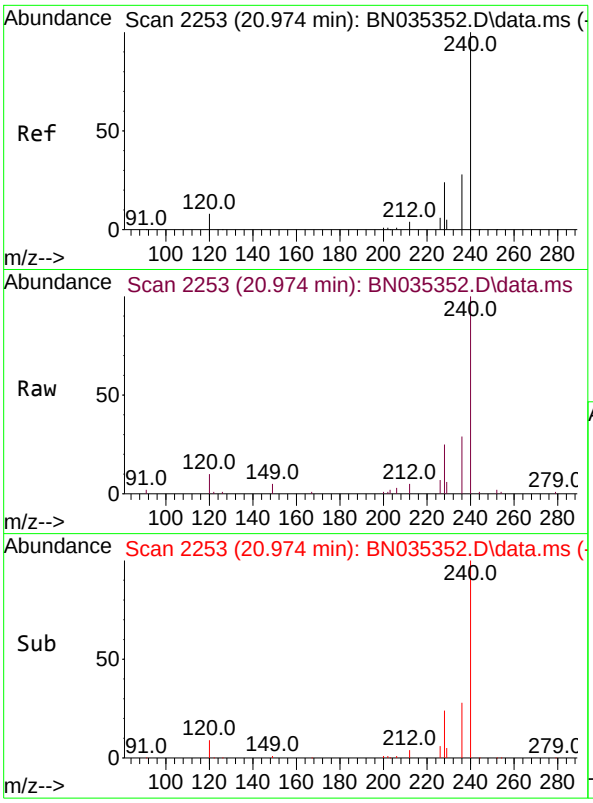


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5

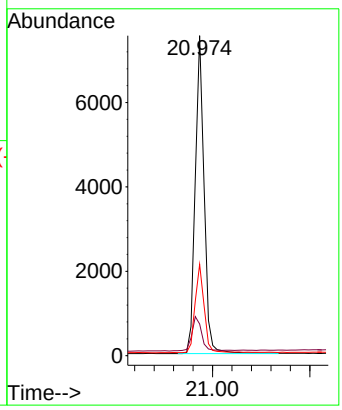




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:240 Resp: 952

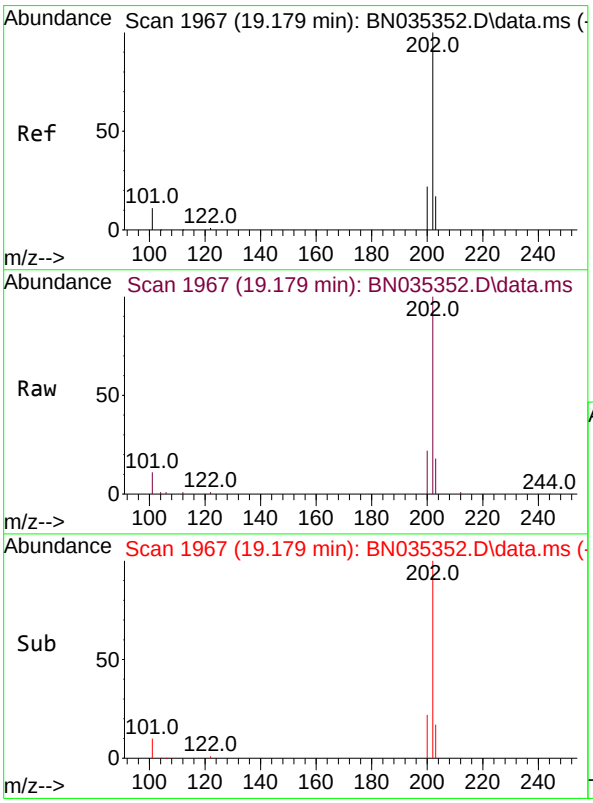
Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

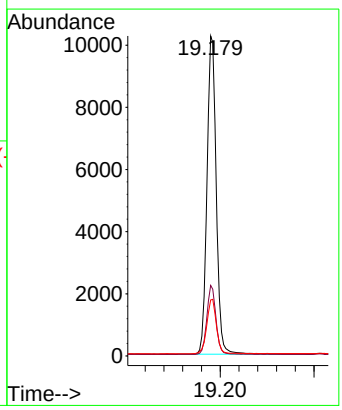
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

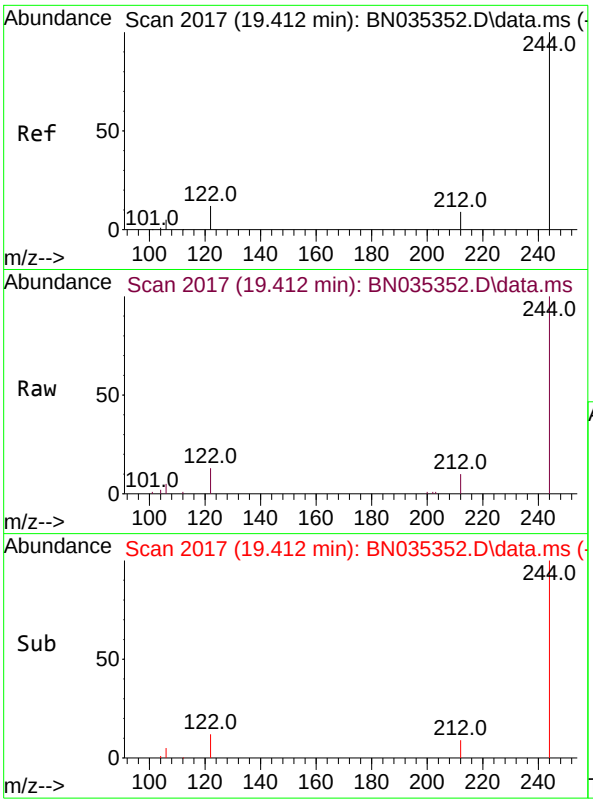


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5

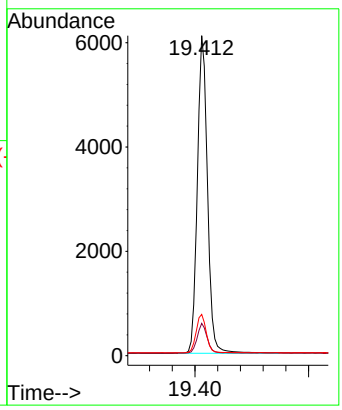




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:244 Resp: 753

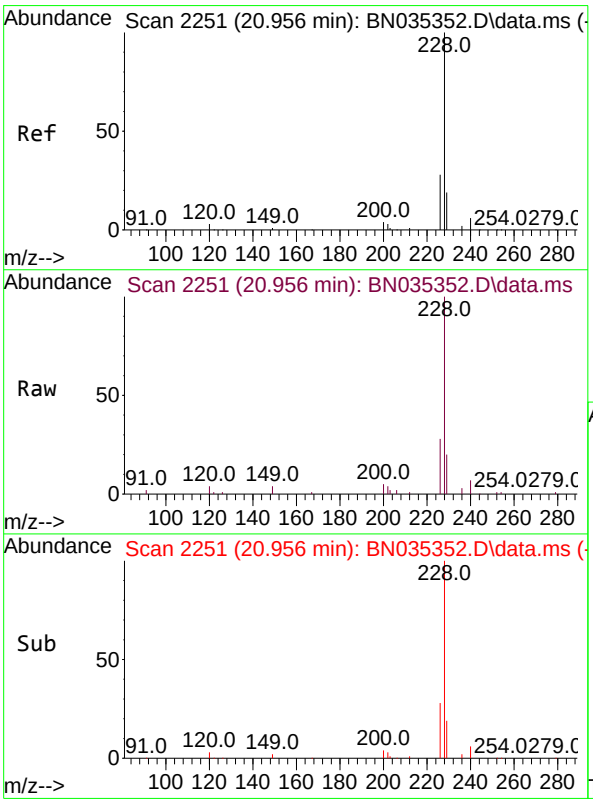
Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

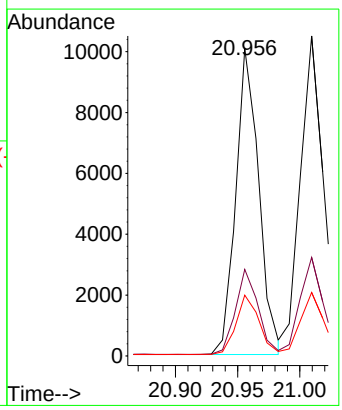
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

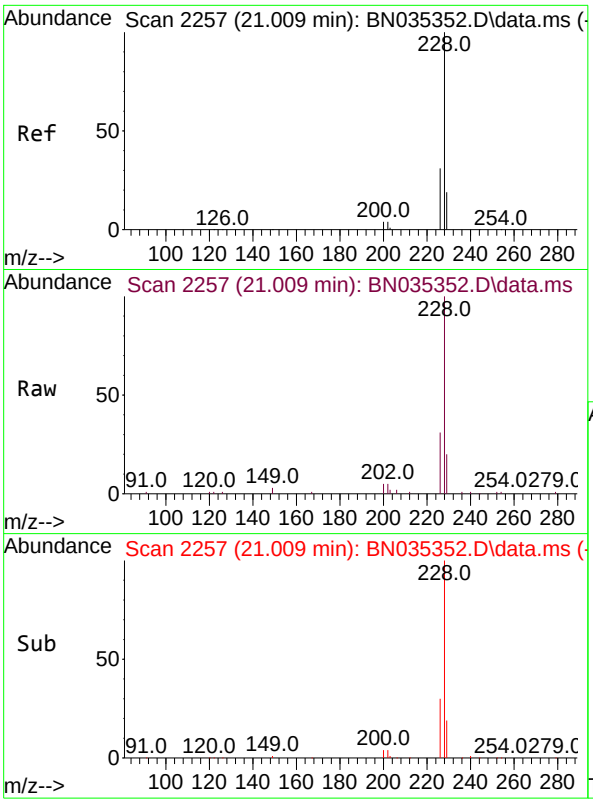


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8

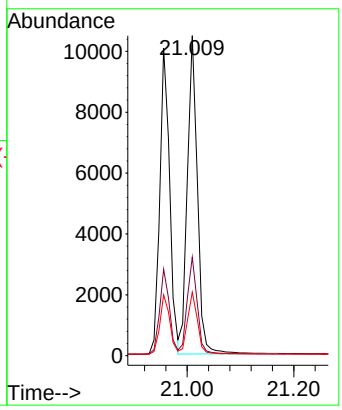




#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 1372

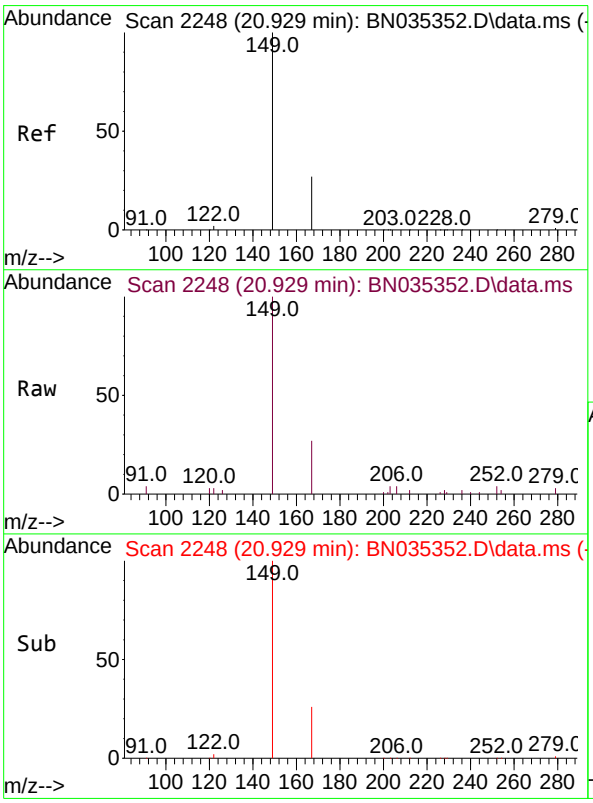
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

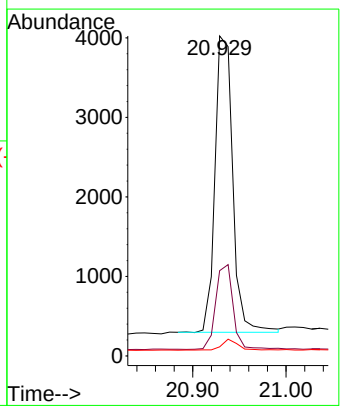
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

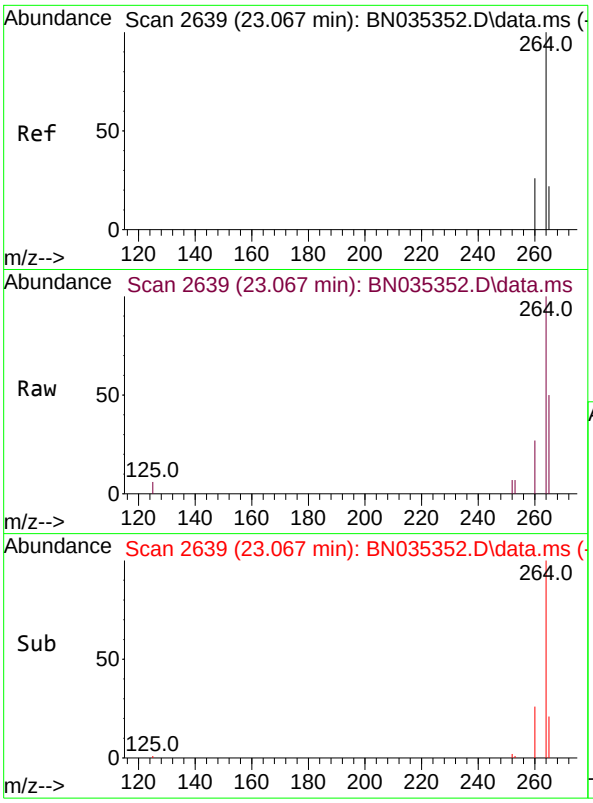


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.4	2.7	4.1

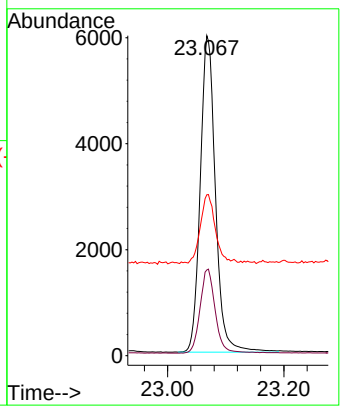




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:264 Resp: 1084

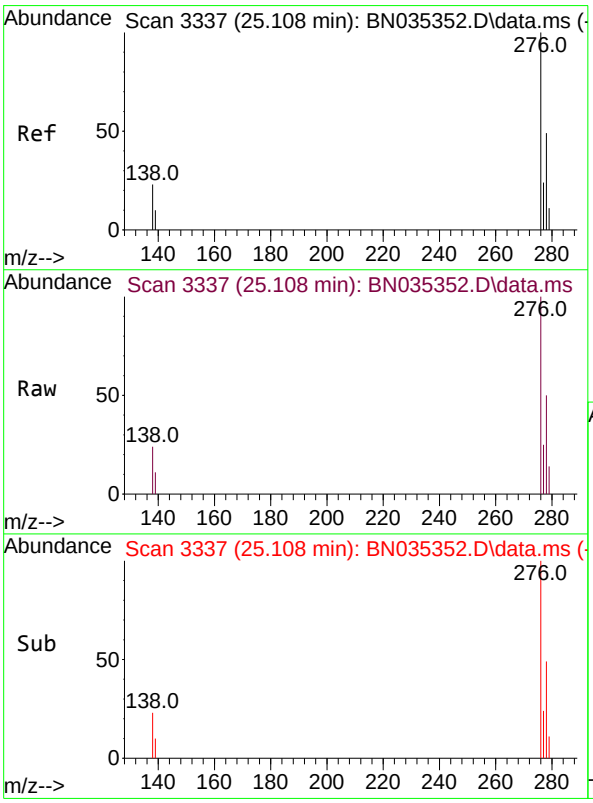
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

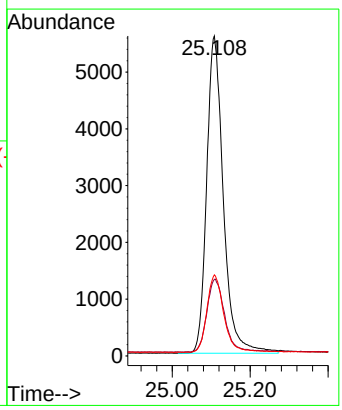
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

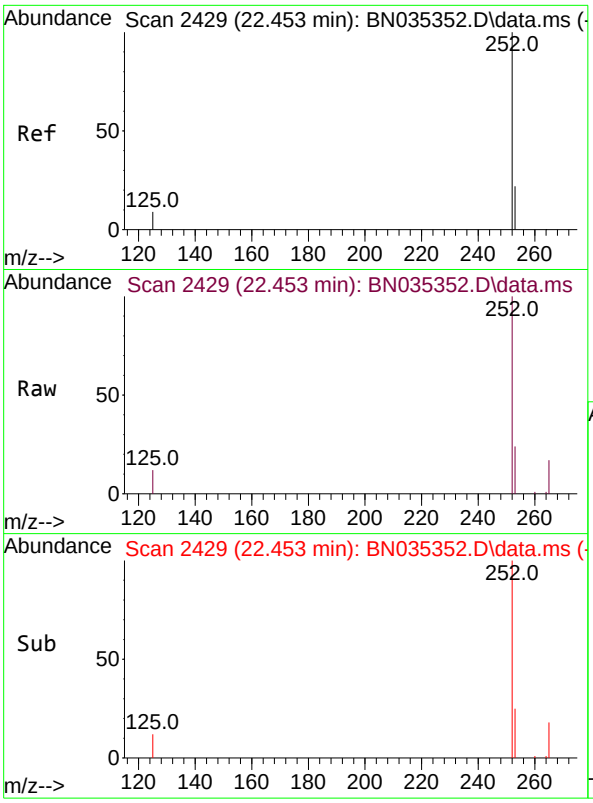


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.4	29.0
277	24.7	19.8	29.6

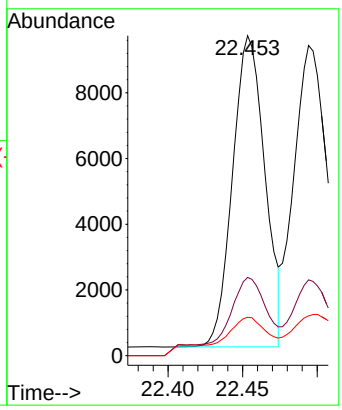




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1423

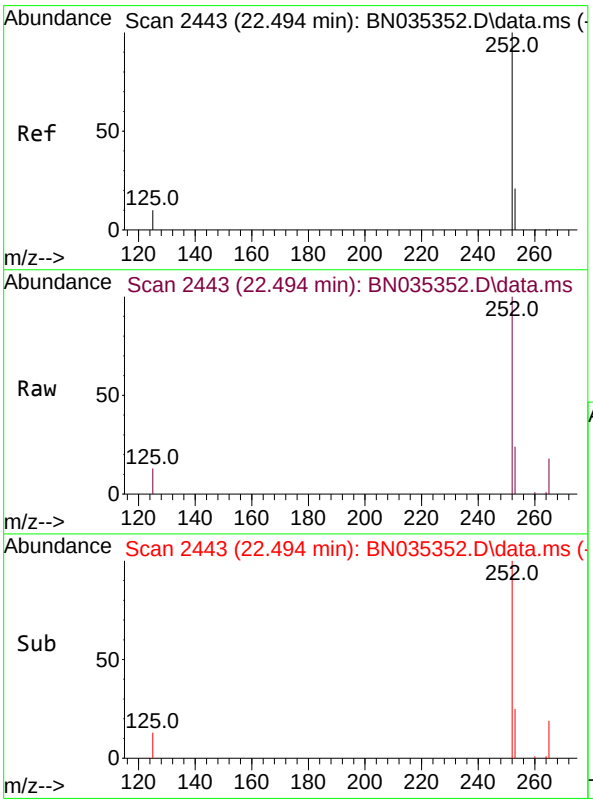
Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

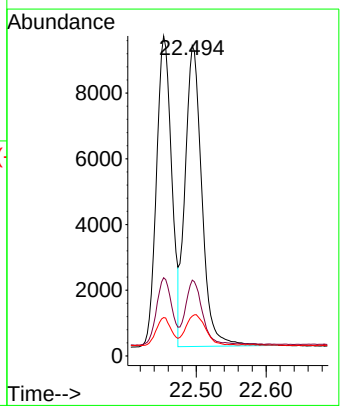
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

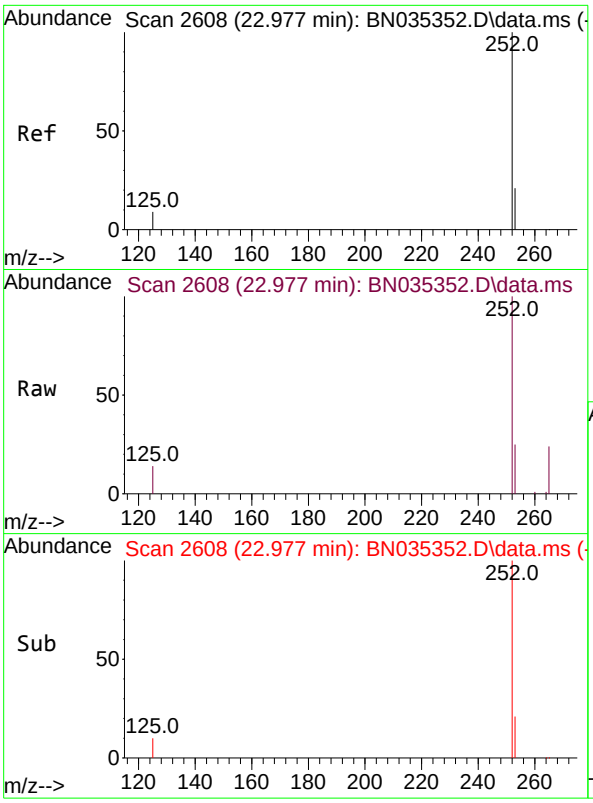


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	12.8	10.2	15.4





#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

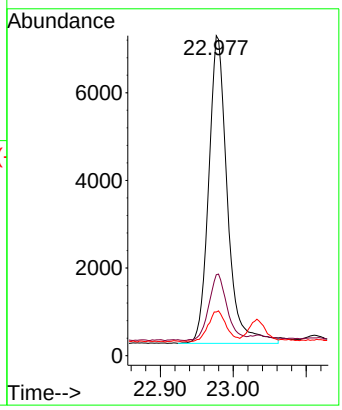
Tgt Ion:252 Resp: 1242

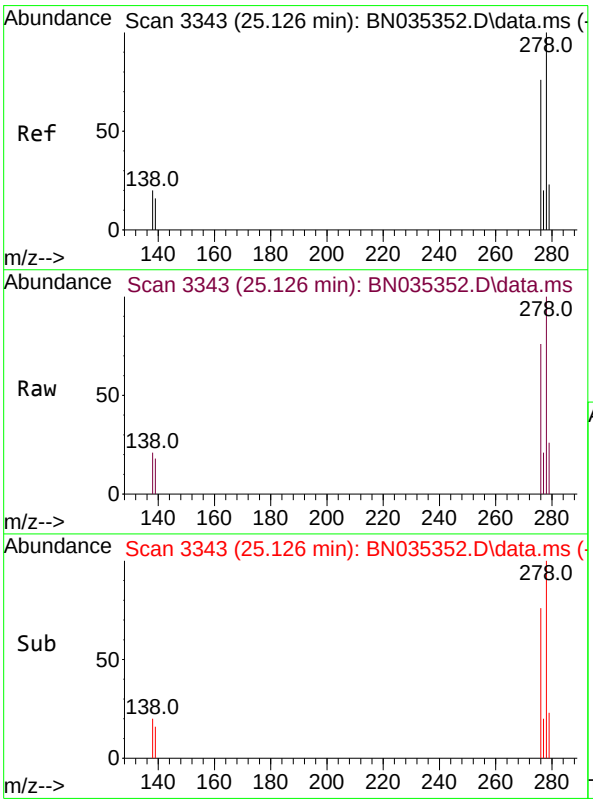
Ion	Ratio	Lower	Upper
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

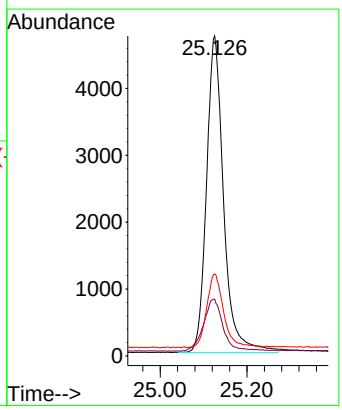


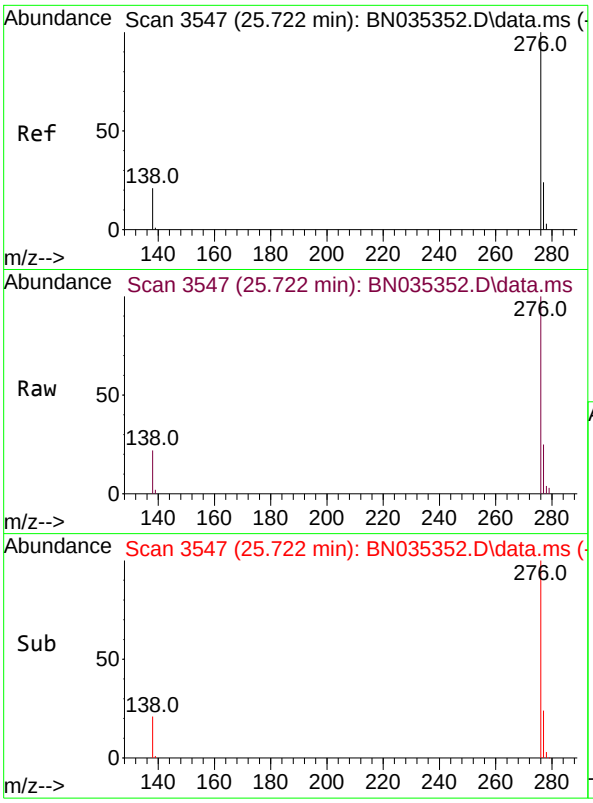


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7

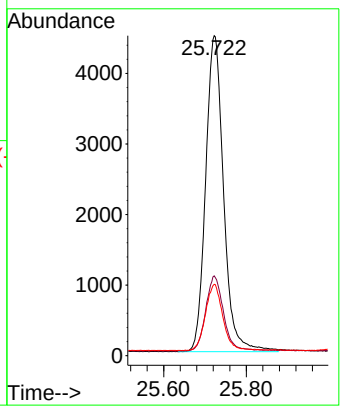




#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 1352

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

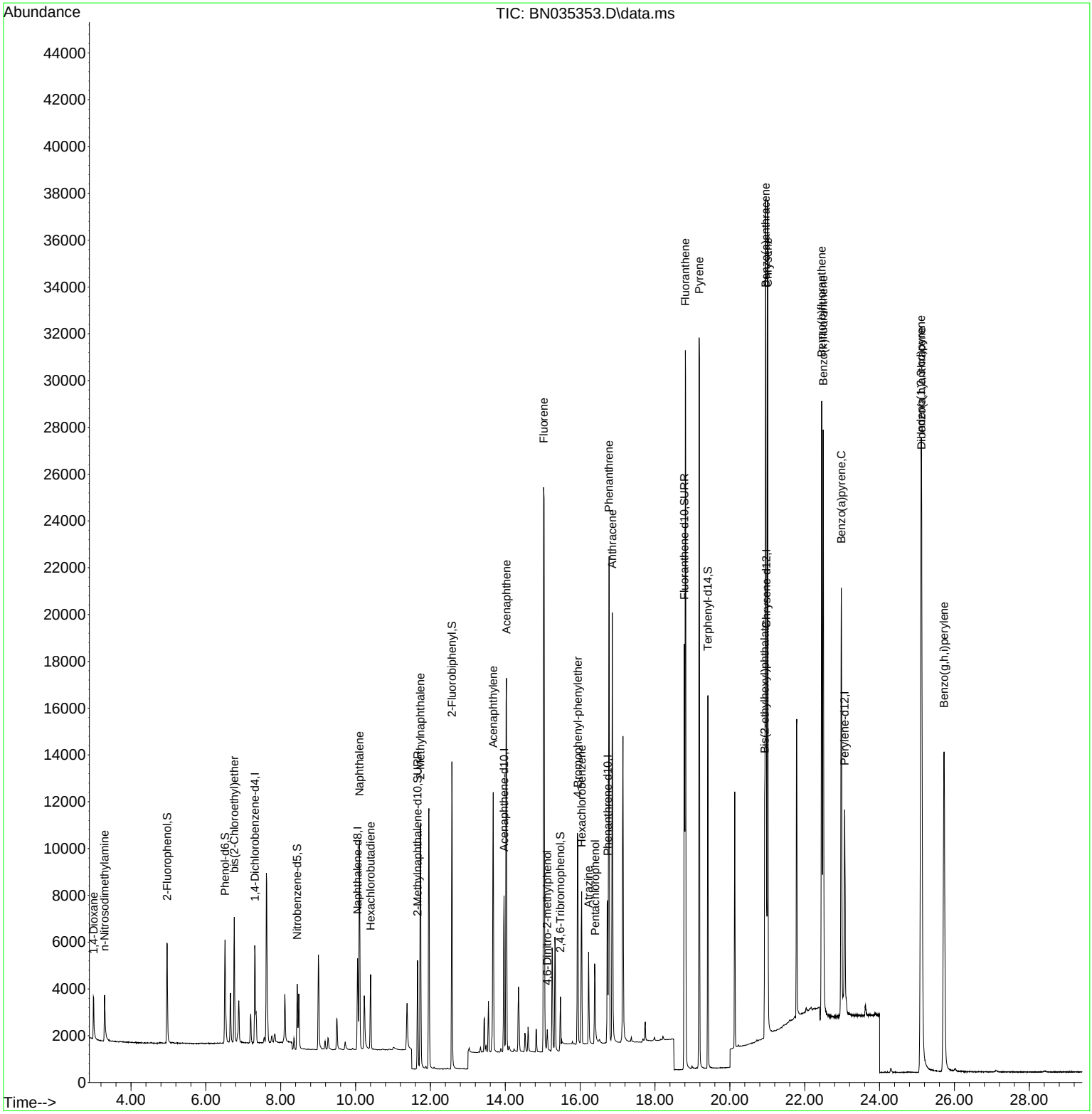
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9837	0.400	ng		0.00
35) Perylene-d12	23.067	264	10698	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	3924	0.755	ng		0.00
5) Phenol-d6	6.513	99	4681	0.718	ng		0.00
8) Nitrobenzene-d5	8.440	82	2634	0.570	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	6530	0.690	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	2051	0.744	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	11528	0.742	ng		0.00
27) Fluoranthene-d10	18.785	212	21050	0.721	ng		0.00
31) Terphenyl-d14	19.412	244	15171	0.735	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	1554	0.836	ng		99
3) n-Nitrosodimethylamine	3.292	42	1291	0.745	ng	#	98
6) bis(2-Chloroethyl)ether	6.759	93	4066	0.831	ng		100
9) Naphthalene	10.105	128	10954	0.790	ng		99
10) Hexachlorobutadiene	10.404	225	2559	0.630	ng	#	100
12) 2-Methylnaphthalene	11.732	142	7925	0.775	ng		99
16) Acenaphthylene	13.679	152	12523	0.766	ng		100
17) Acenaphthene	14.031	154	8470	0.791	ng		99
18) Fluorene	15.026	166	12232	0.777	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	784	0.395	ng	#	88
21) 4-Bromophenyl-phenylether	15.941	248	4440	0.732	ng		98
22) Hexachlorobenzene	16.041	284	5253	0.834	ng		99
23) Atrazine	16.227	200	2978	0.547	ng		99
24) Pentachlorophenol	16.400	266	1968	0.669	ng		87
25) Phenanthrene	16.773	178	20803	0.830	ng		100
26) Anthracene	16.860	178	18528	0.805	ng		99
28) Fluoranthene	18.813	202	27743	0.805	ng		100
30) Pyrene	19.180	202	28384	0.866	ng		100
32) Benzo(a)anthracene	20.956	228	27048	0.790	ng		99
33) Chrysene	21.010	228	27838	0.820	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	9941	0.553	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	33248	0.779	ng		100
37) Benzo(b)fluoranthene	22.453	252	29491	0.819	ng		96
38) Benzo(k)fluoranthene	22.494	252	30369	0.843	ng		96
39) Benzo(a)pyrene	22.977	252	25053	0.791	ng		96
40) Dibenzo(a,h)anthracene	25.123	278	26222	0.775	ng		98
41) Benzo(g,h,i)perylene	25.722	276	27143	0.755	ng		98

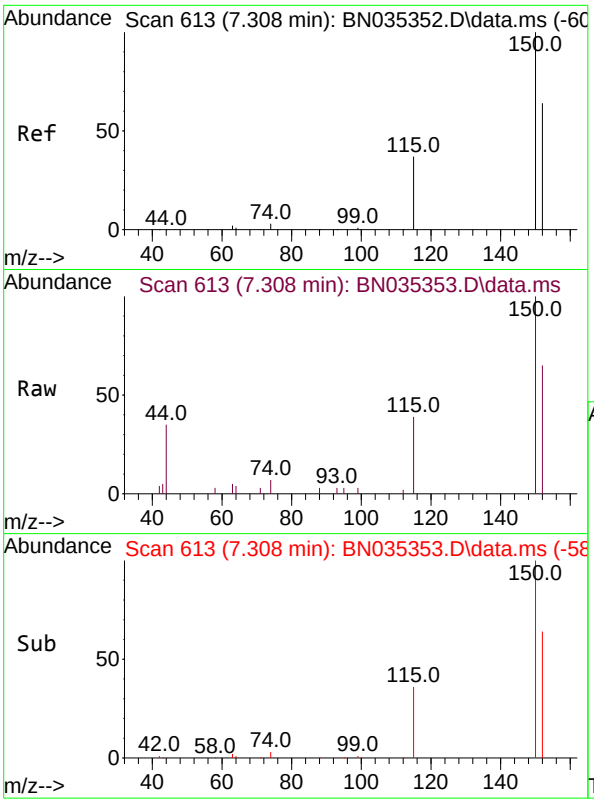
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



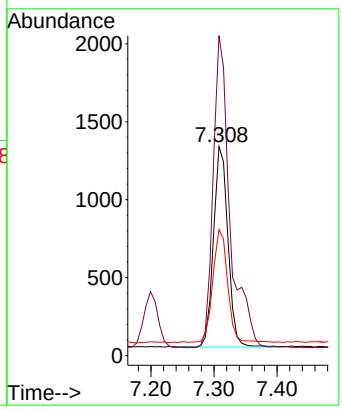


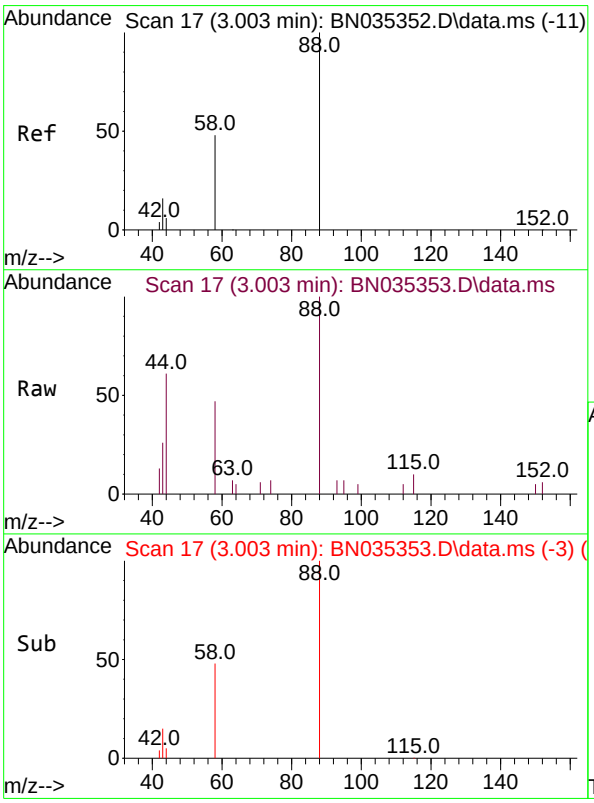
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2047

Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	60.3	49.6	74.4

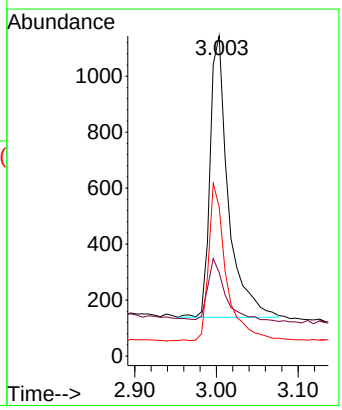


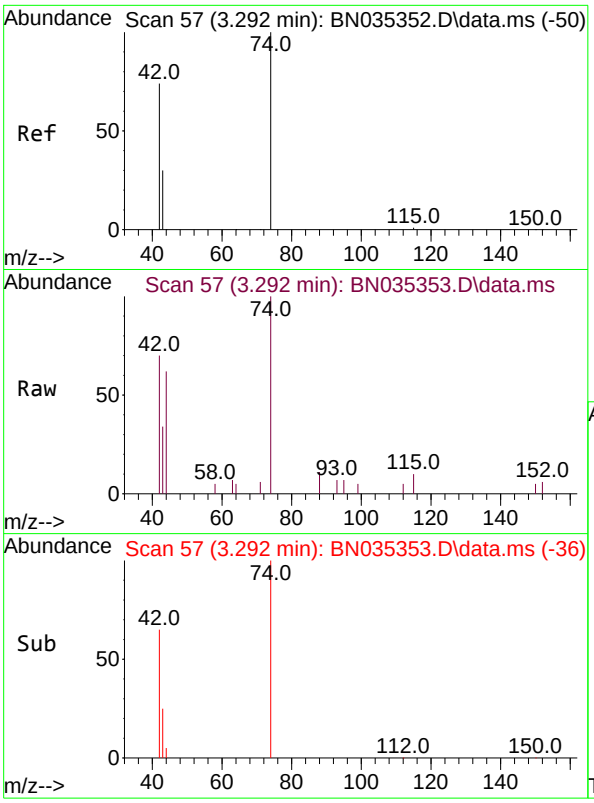


#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 88 Resp: 1554

Ion	Ratio	Lower	Upper
88	100		
43	22.1	17.2	25.8
58	54.8	44.5	66.7



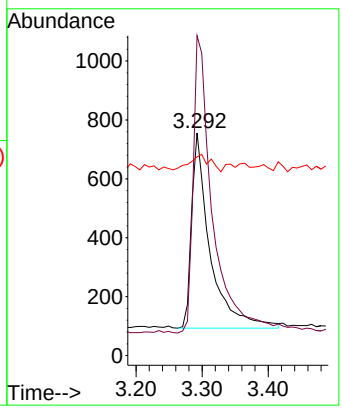


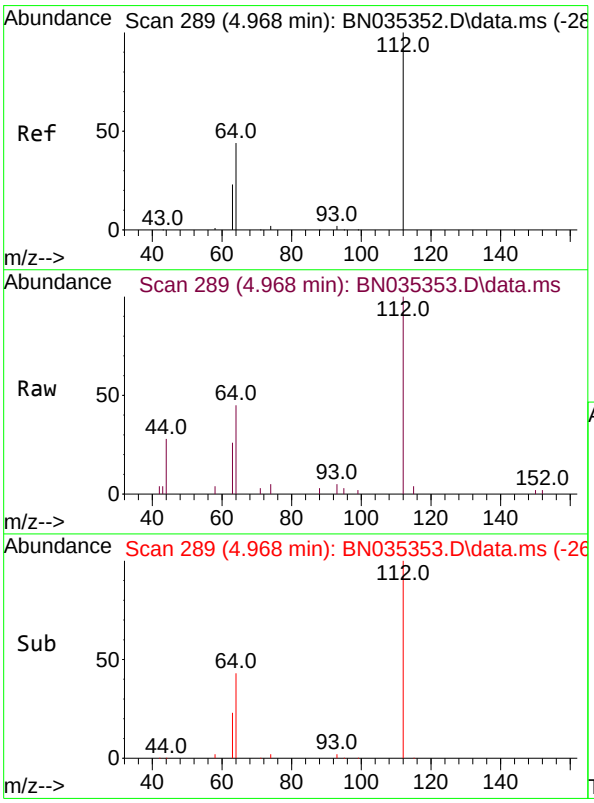
#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 1291

Ion	Ratio	Lower	Upper
42	100		
74	158.7	124.9	187.3
44	9.8	2.2	3.4#

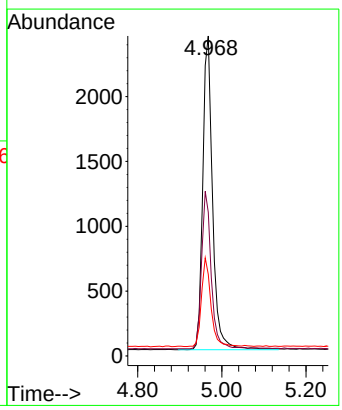


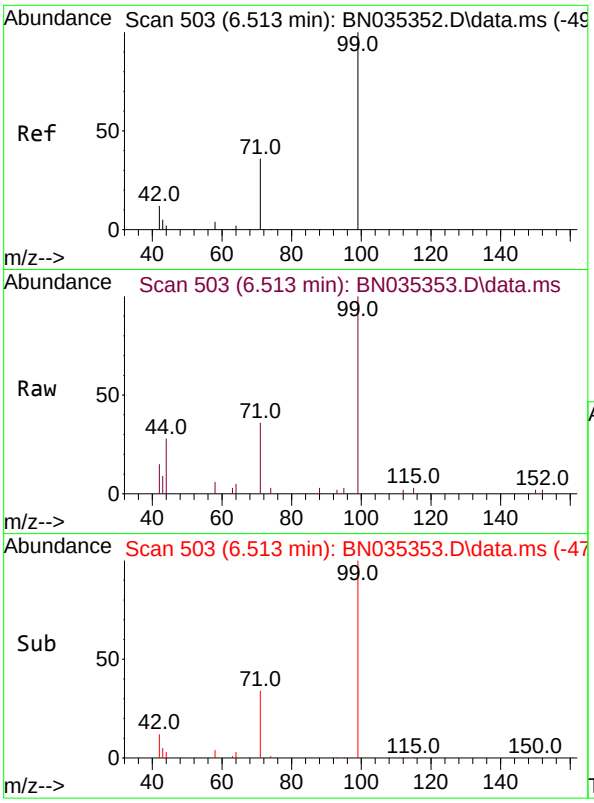


#4
2-Fluorophenol
Concen: 0.755 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:112 Resp: 3924

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	27.0	21.0	31.6



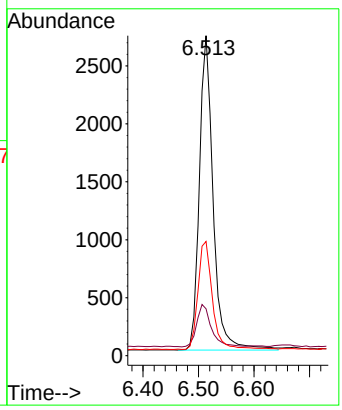


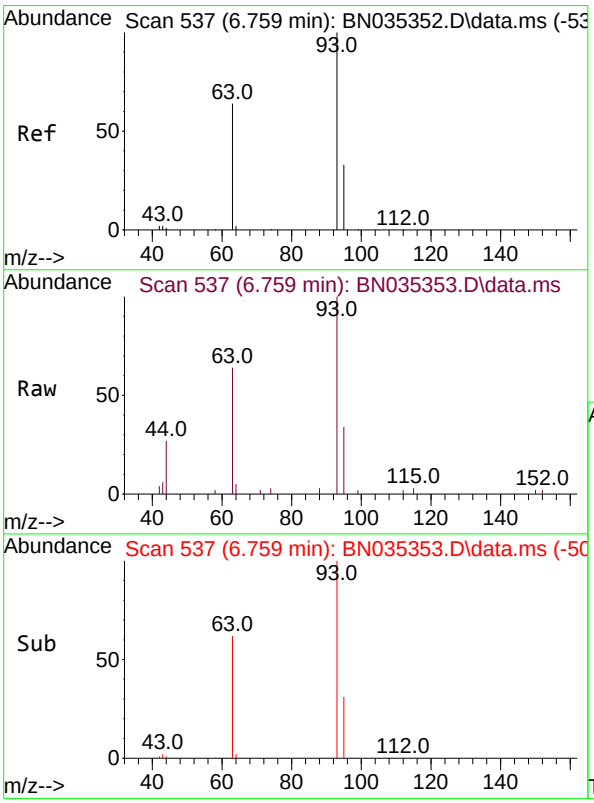
#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 4681

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.1	29.3	43.9

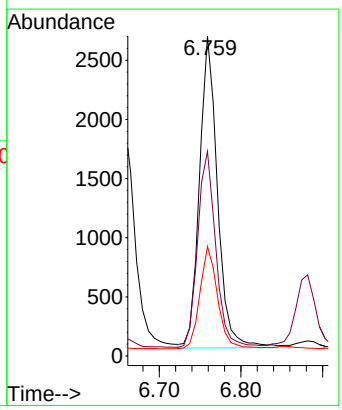


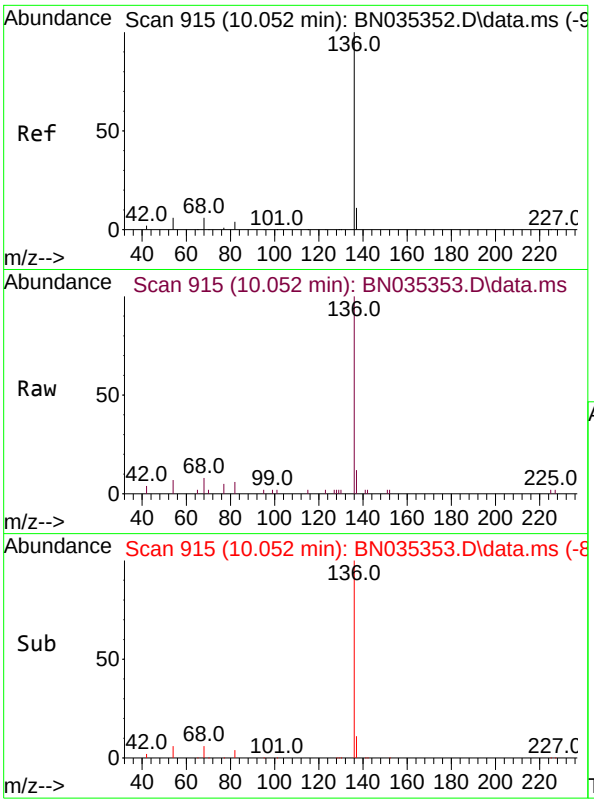


#6
bis(2-Chloroethyl)ether
Concen: 0.831 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 93 Resp: 4066

Ion	Ratio	Lower	Upper
93	100		
63	62.8	50.4	75.6
95	32.4	25.7	38.5



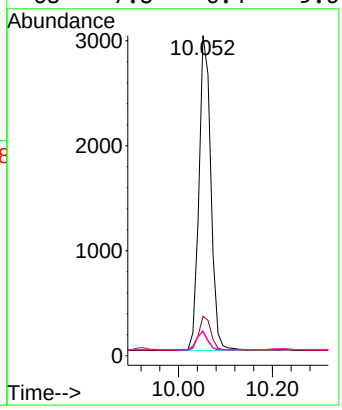


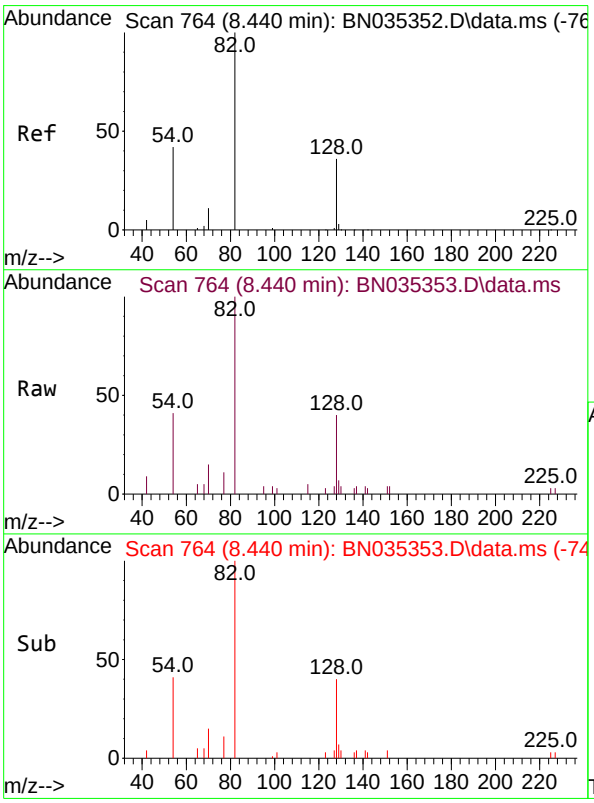
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5308

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.8	6.4	9.6

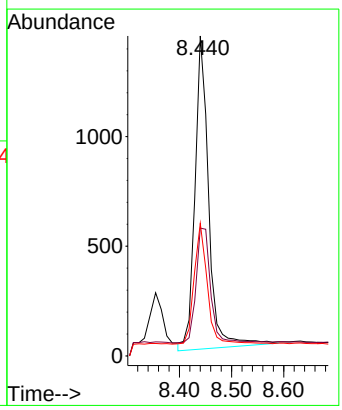


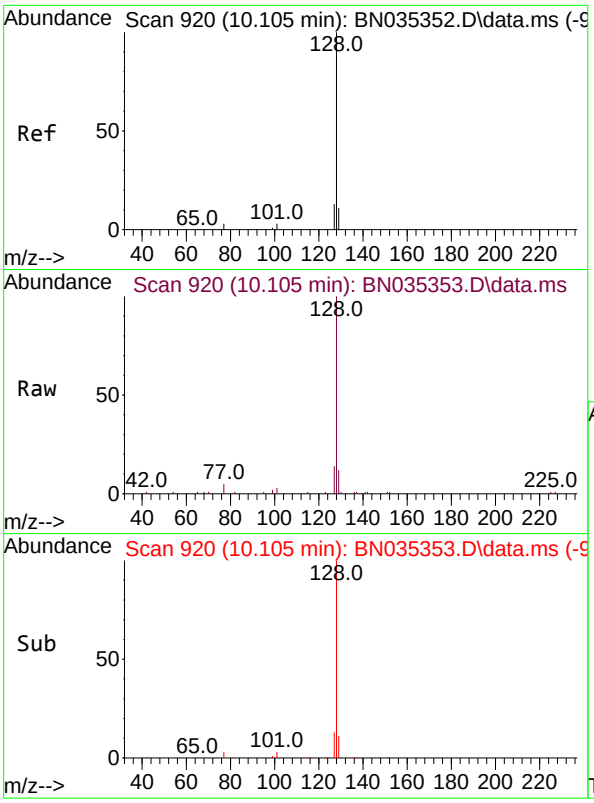


#8
Nitrobenzene-d5
Concen: 0.570 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 82 Resp: 2634

Ion	Ratio	Lower	Upper
82	100		
128	40.0	33.4	50.0
54	41.5	36.7	55.1



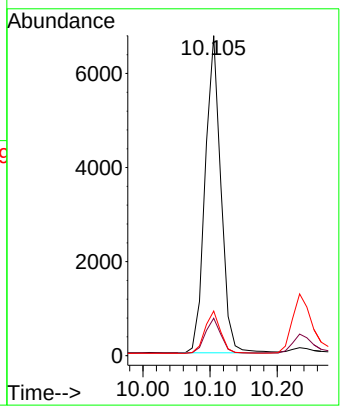


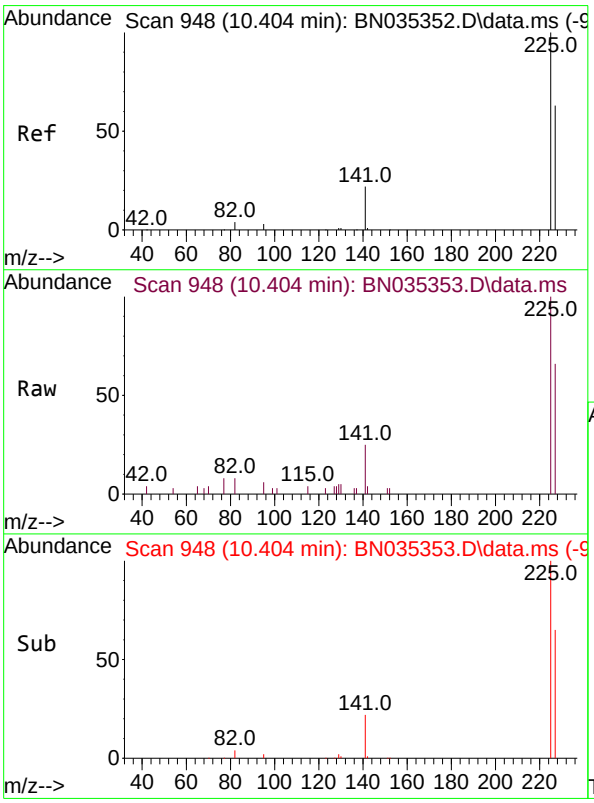
#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 10954

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.9	11.4	17.2

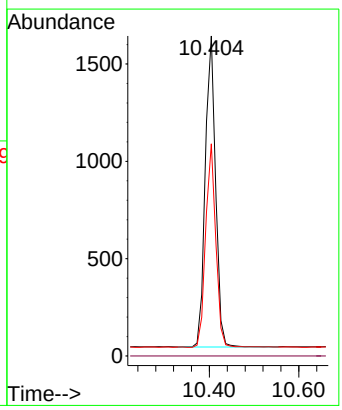


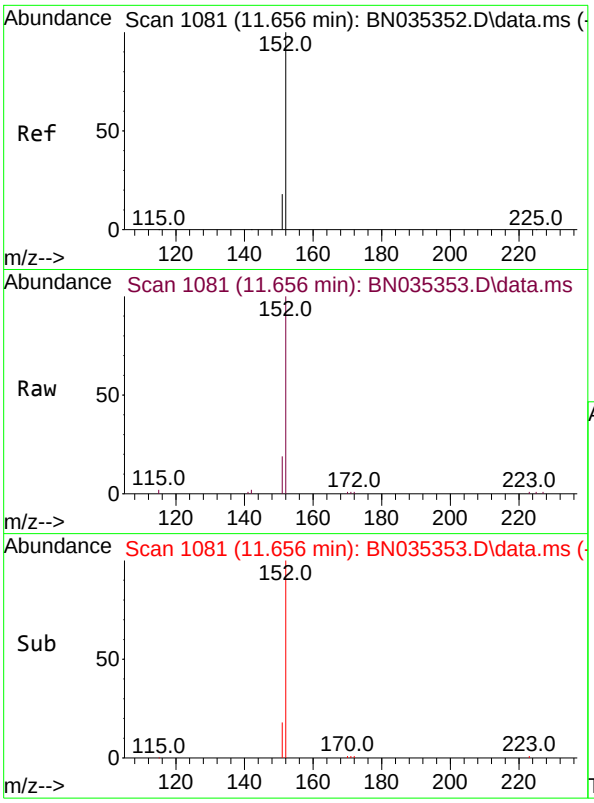


#10
Hexachlorobutadiene
Concen: 0.630 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:225 Resp: 2559

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



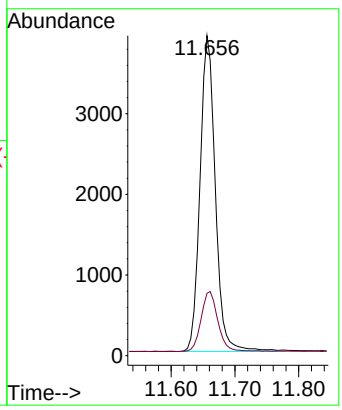


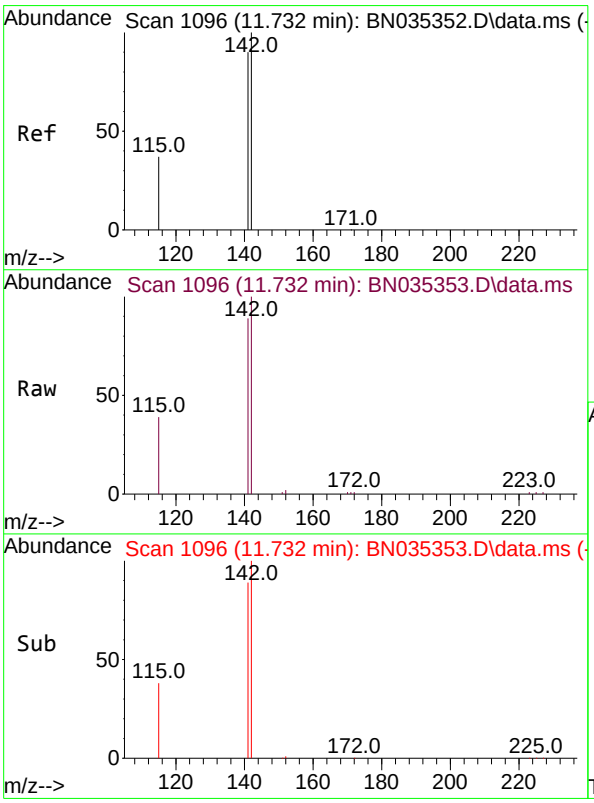
#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6530

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

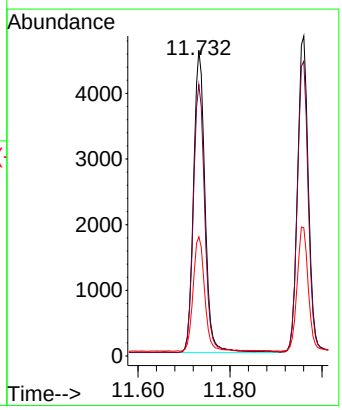


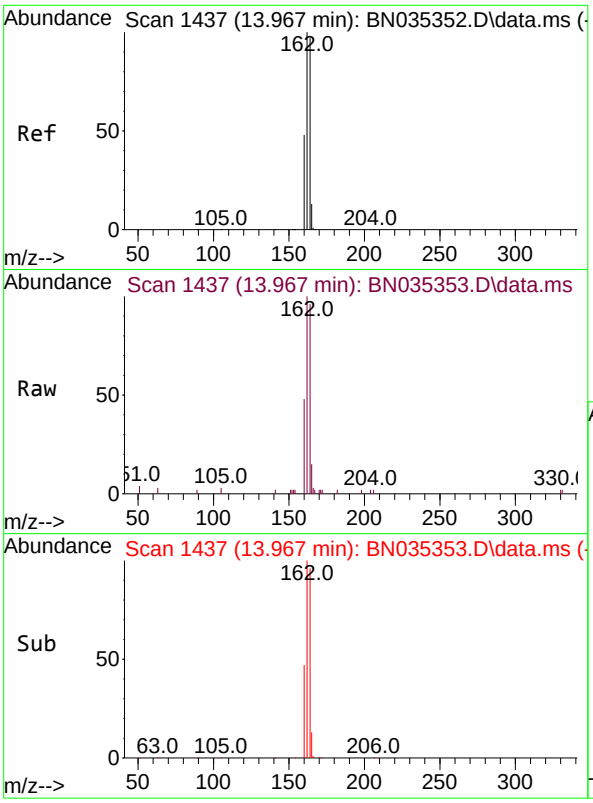


#12
2-Methylnaphthalene
Concen: 0.775 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:142 Resp: 7925

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	39.0	31.4	47.0



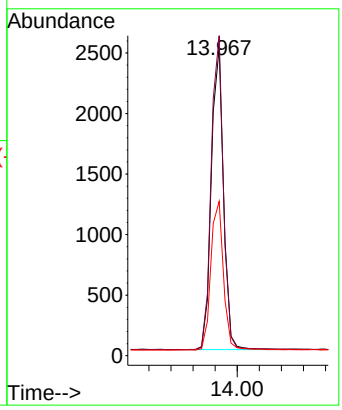


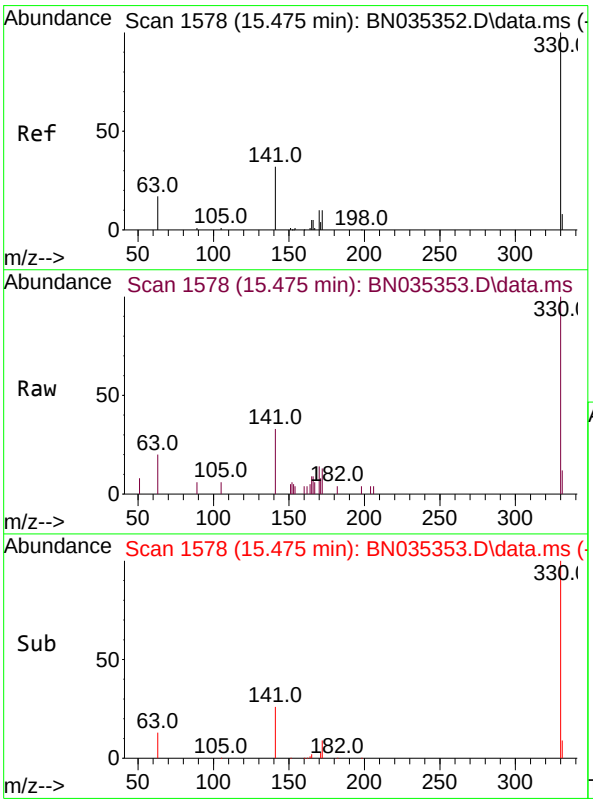
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3823

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.1	40.1	60.1

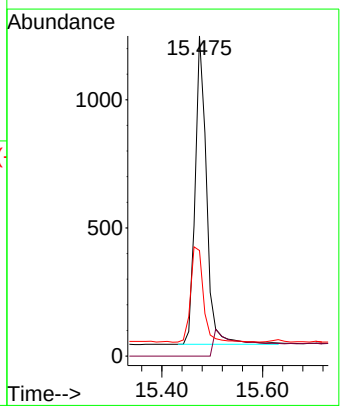


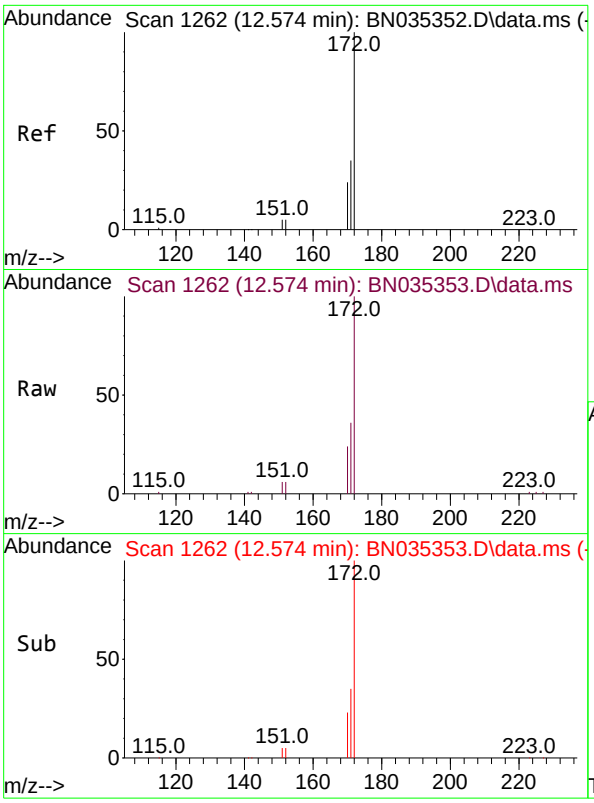


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:330 Resp: 2051

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.3	26.6	40.0



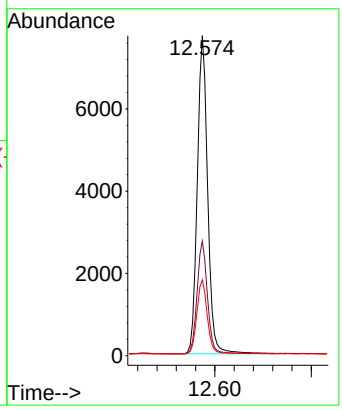


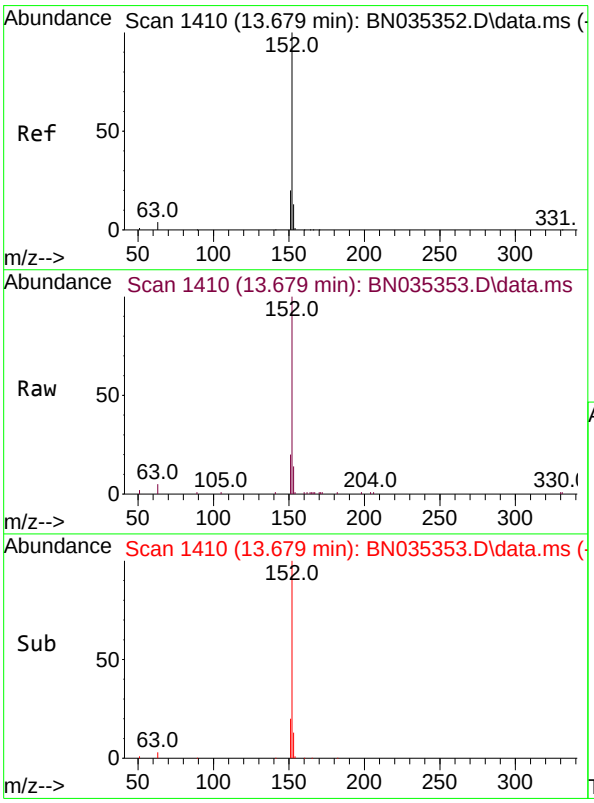
#15
2-Fluorobiphenyl
Concen: 0.742 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 11528

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.7	19.8	29.8

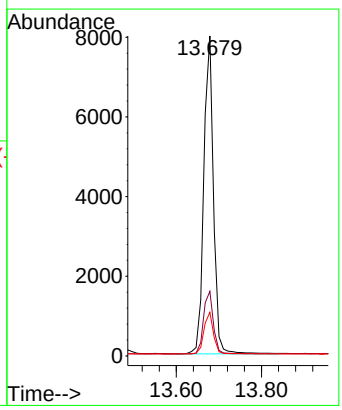


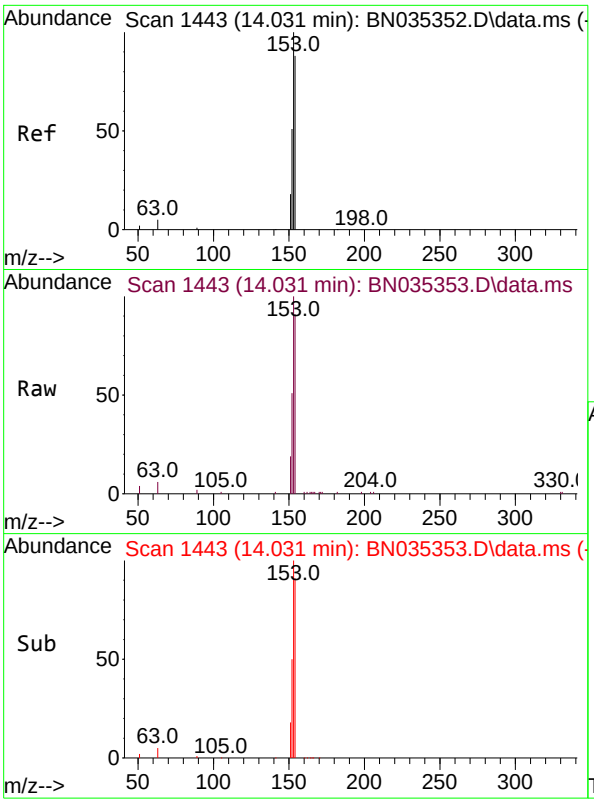


#16
Acenaphthylene
Concen: 0.766 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:152 Resp: 12523

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	12.9	10.4	15.6



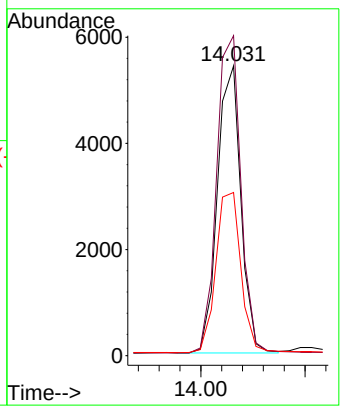


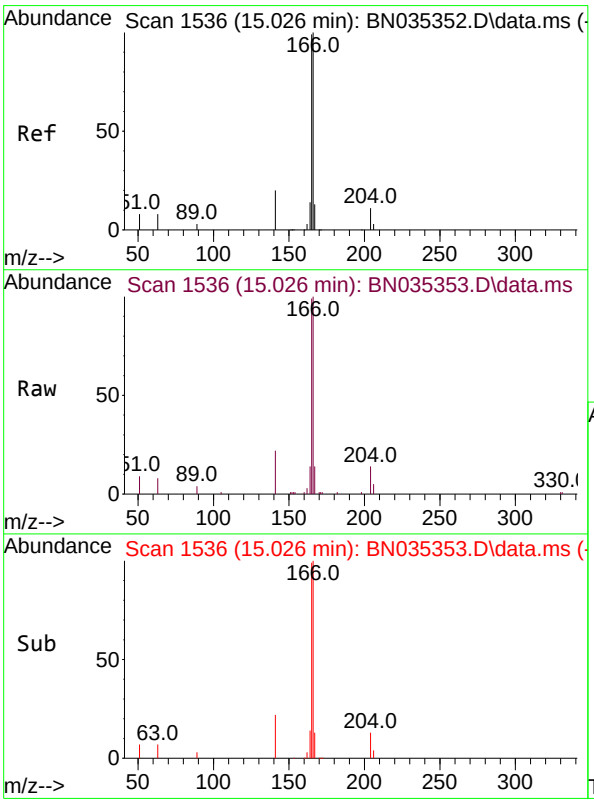
#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 8470

Ion	Ratio	Lower	Upper
154	100		
153	114.8	92.6	139.0
152	60.2	49.0	73.6

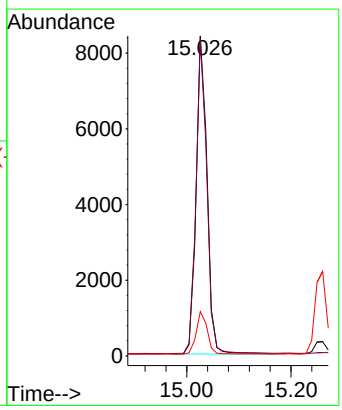


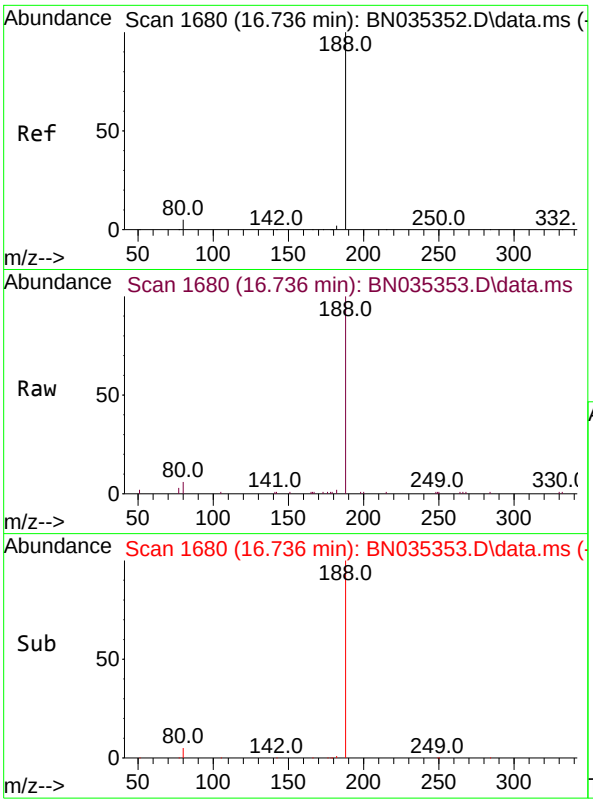


#18
Fluorene
Concen: 0.777 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:166 Resp: 12232

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.5	10.8	16.2



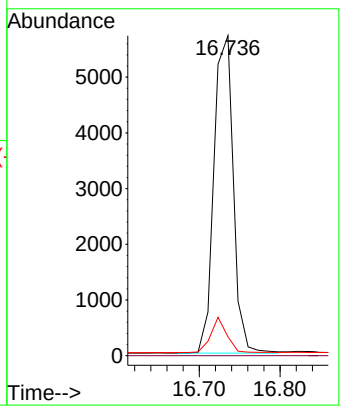


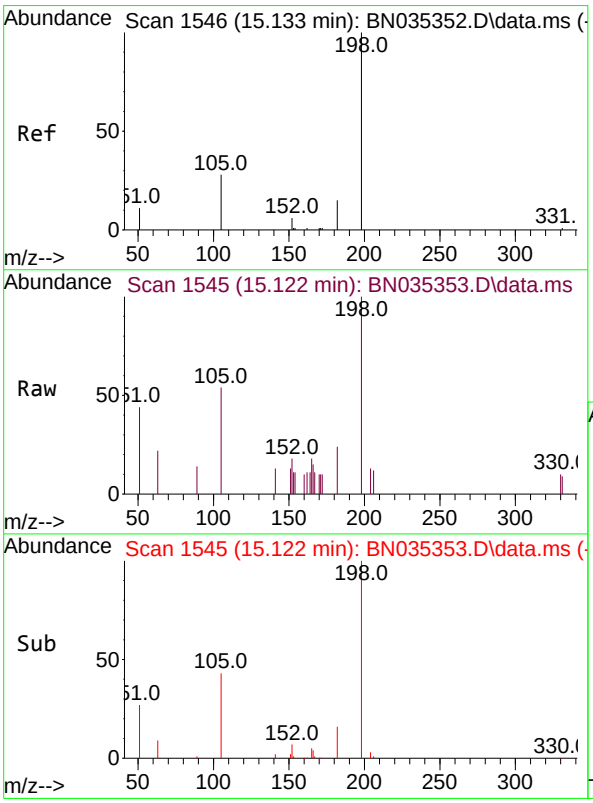
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 9525

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.9	4.6	6.8

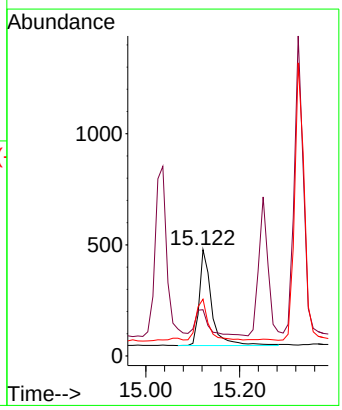


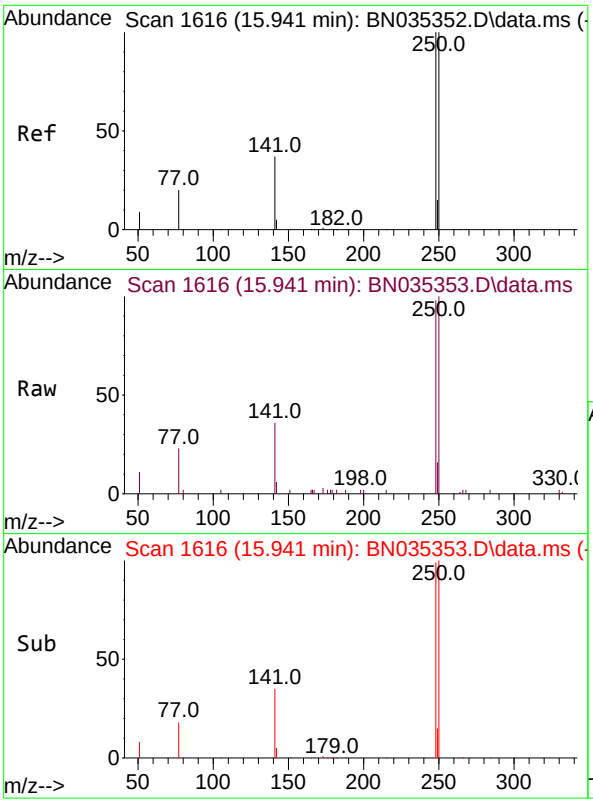


#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:198 Resp: 784

Ion	Ratio	Lower	Upper
198	100		
51	43.5	46.5	69.7#
105	53.6	45.3	67.9



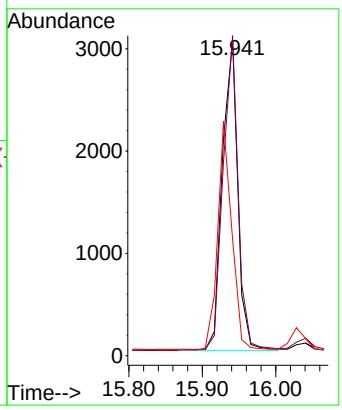


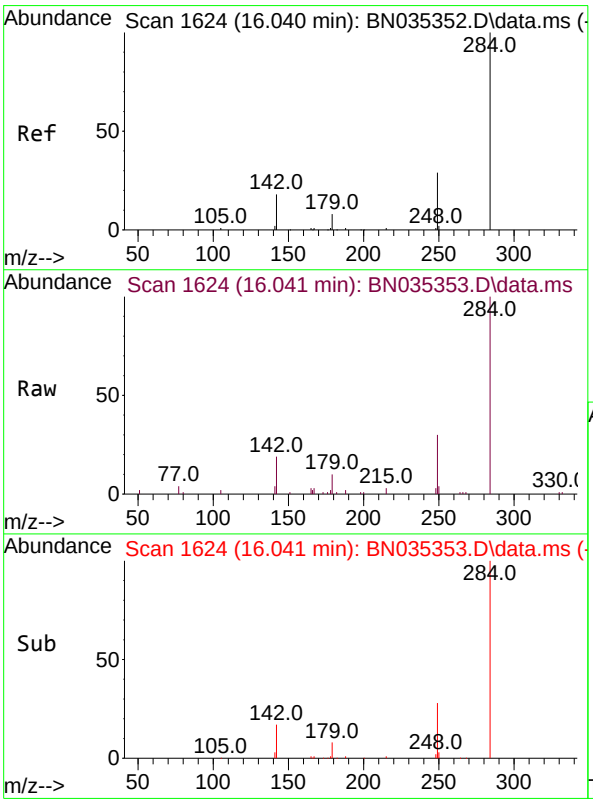
#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 4440

Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	36.9	31.5	47.3

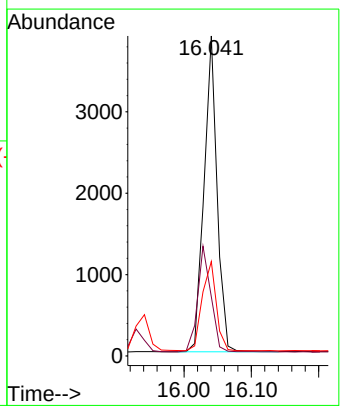


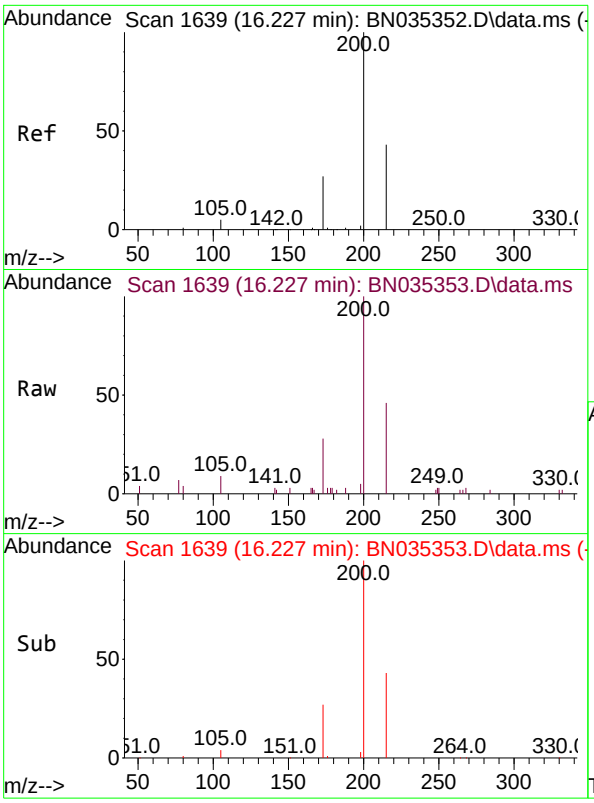


#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:284 Resp: 5253

Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.3	24.6	36.8



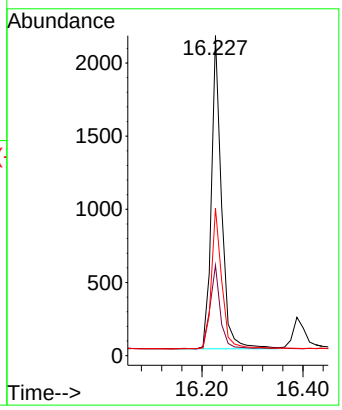


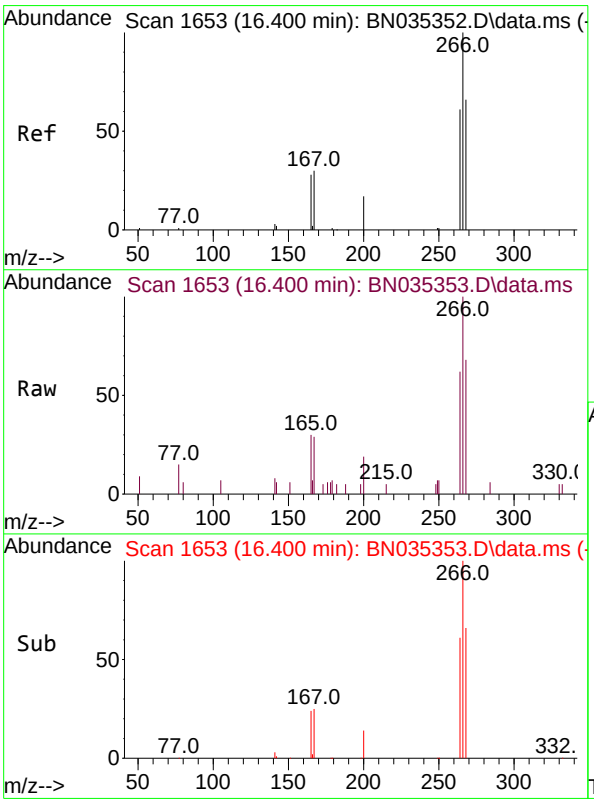
#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2978

Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	46.1	36.9	55.3

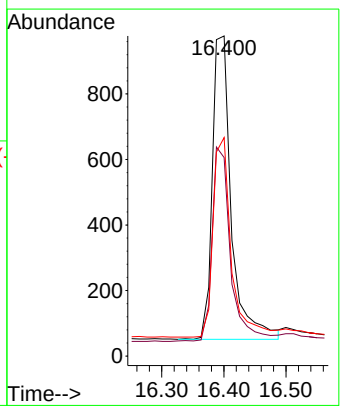


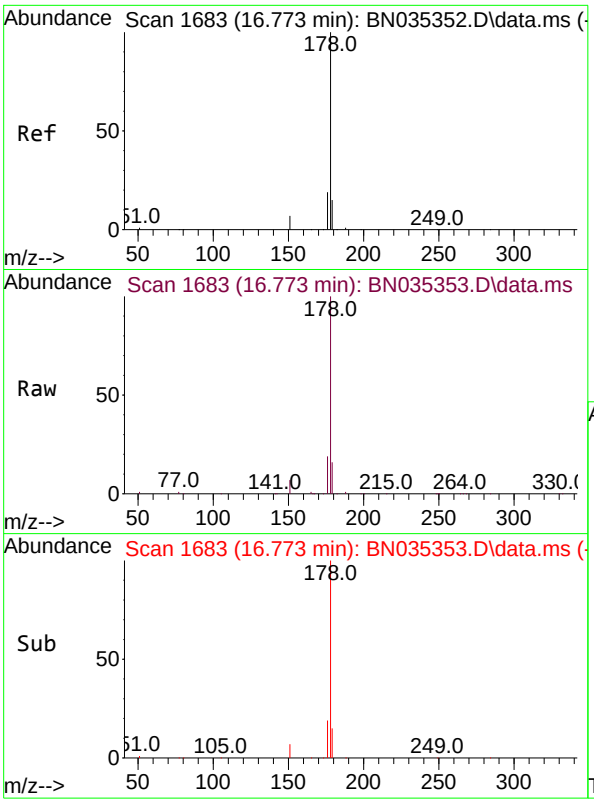


#24
Pentachlorophenol
Concen: 0.669 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:266 Resp: 1968

Ion	Ratio	Lower	Upper
266	100		
264	61.9	42.3	63.5
268	63.7	43.3	64.9



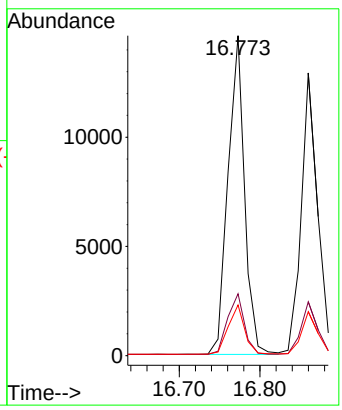


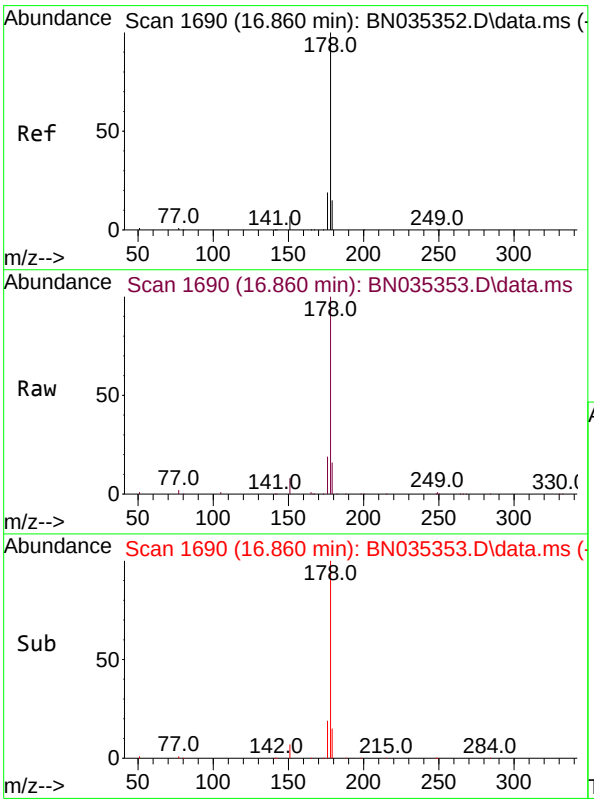
#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 20803

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.3	18.5

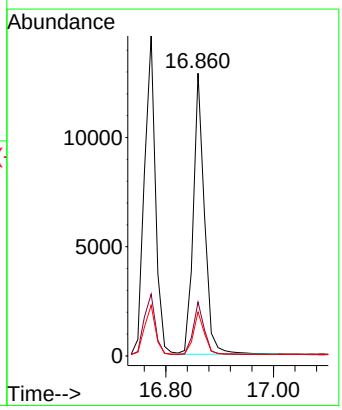


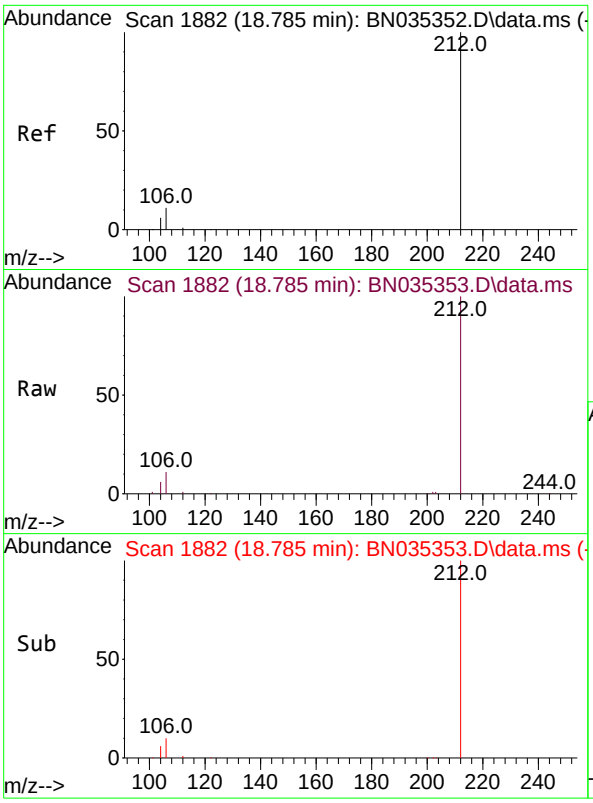


#26
Anthracene
Concen: 0.805 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:178 Resp: 18528

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.2	12.6	18.8



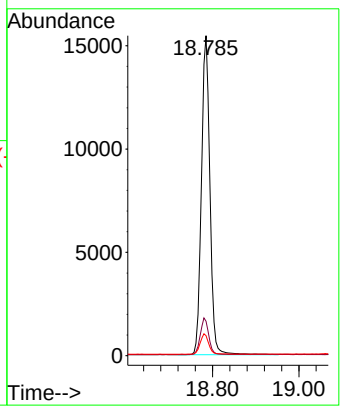


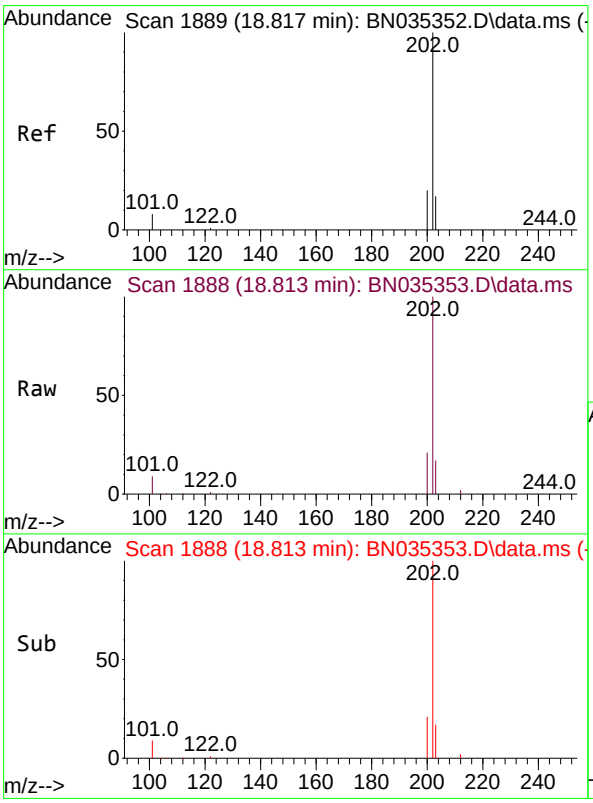
#27
Fluoranthene-d10
Concen: 0.721 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 21050

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

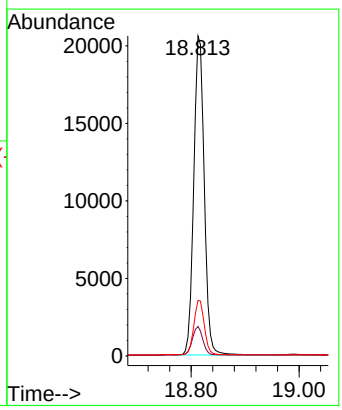


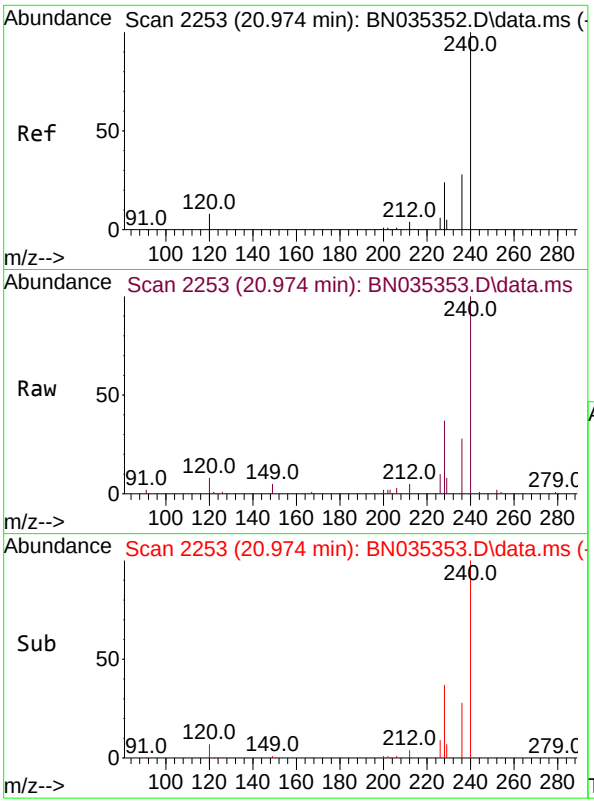


#28
Fluoranthene
Concen: 0.805 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 27743

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.1	13.7	20.5



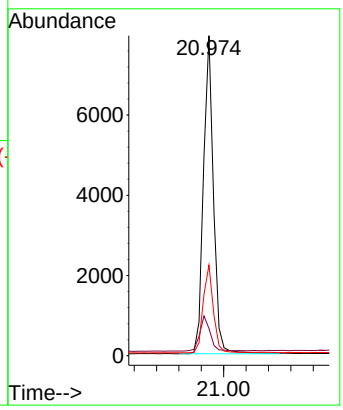


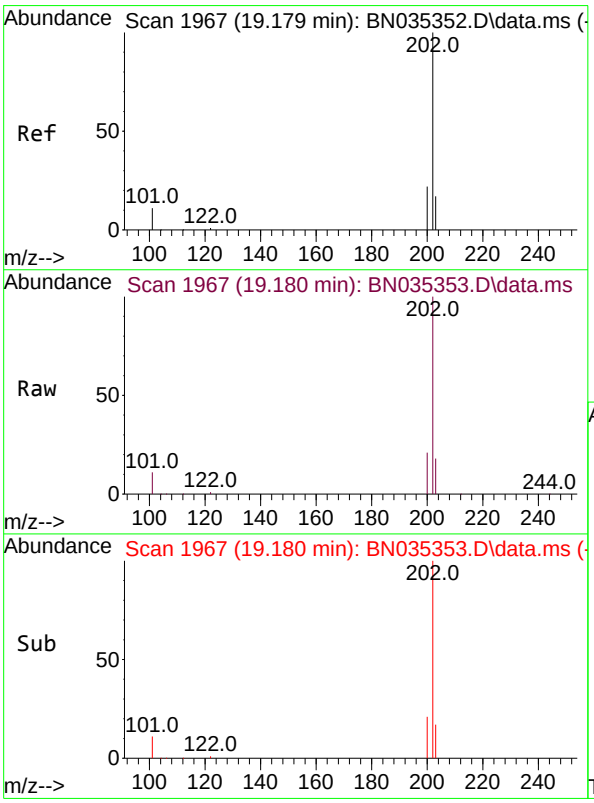
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 9837

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.9	11.9
236	28.3	22.9	34.3

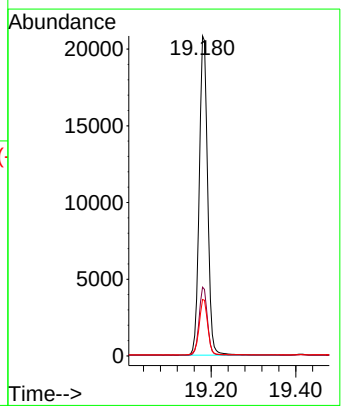


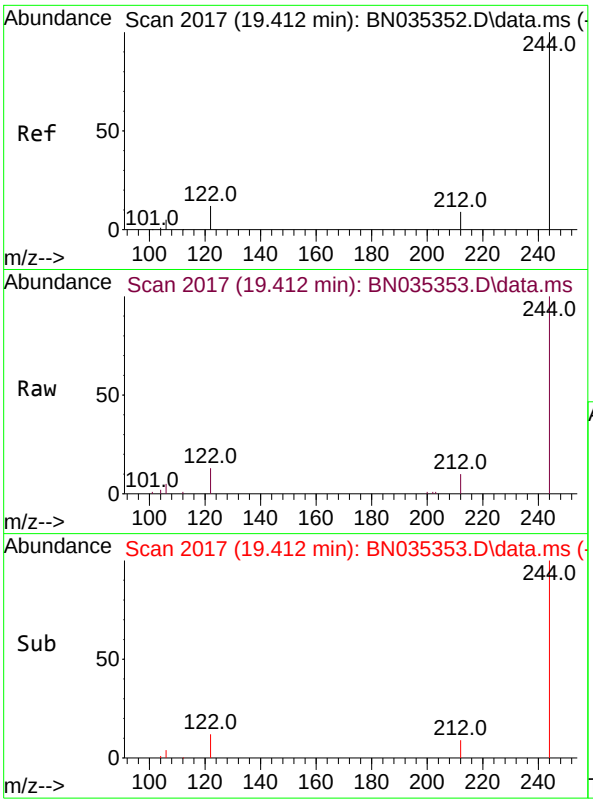


#30
Pyrene
Concen: 0.866 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 28384

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.8	14.3	21.5



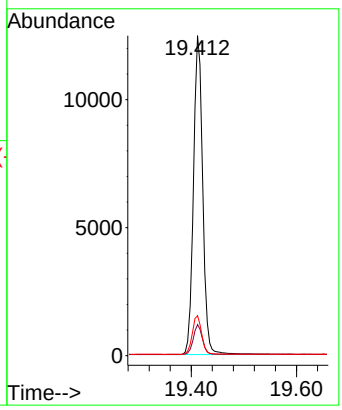


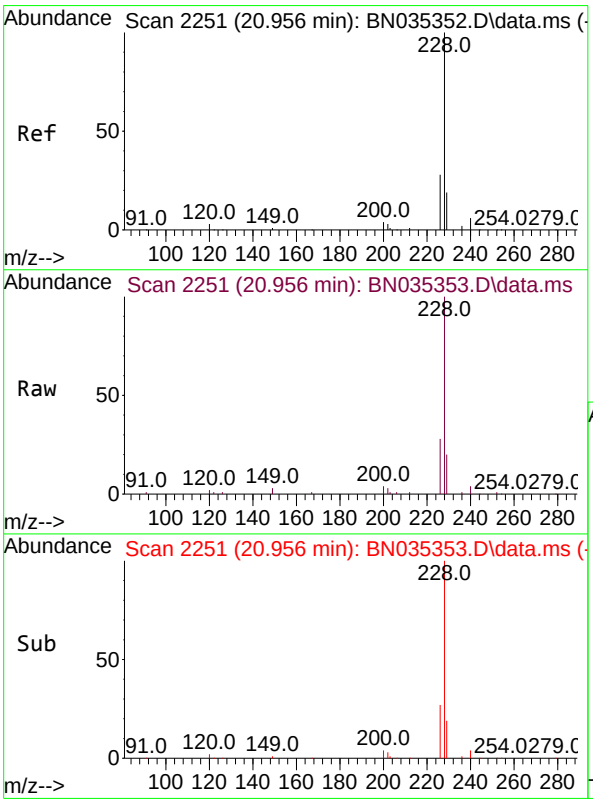
#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 15171

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.5	10.3	15.5

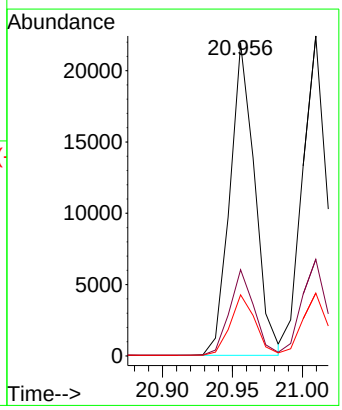


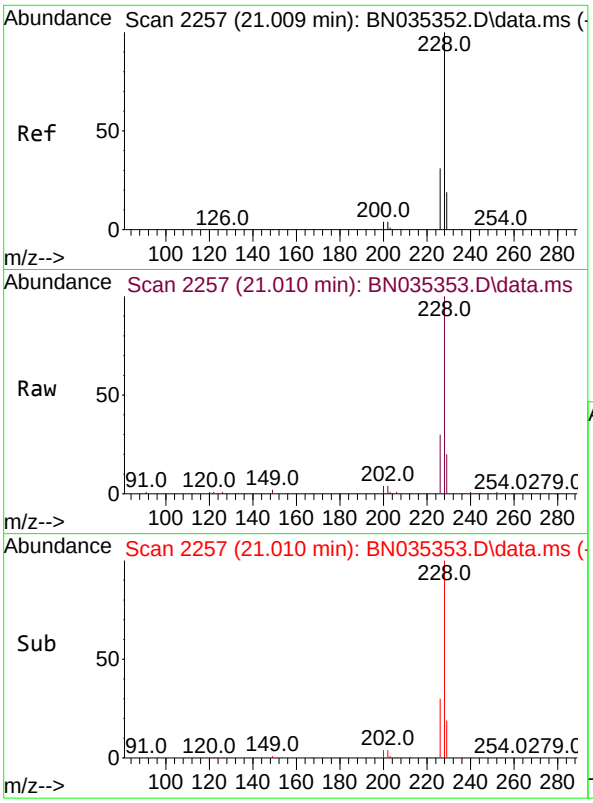


#32
Benzo(a)anthracene
Concen: 0.790 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:228 Resp: 27048

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	19.5	15.8	23.8



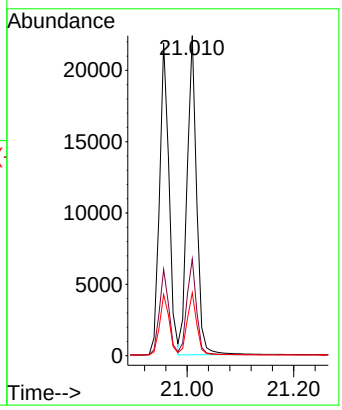


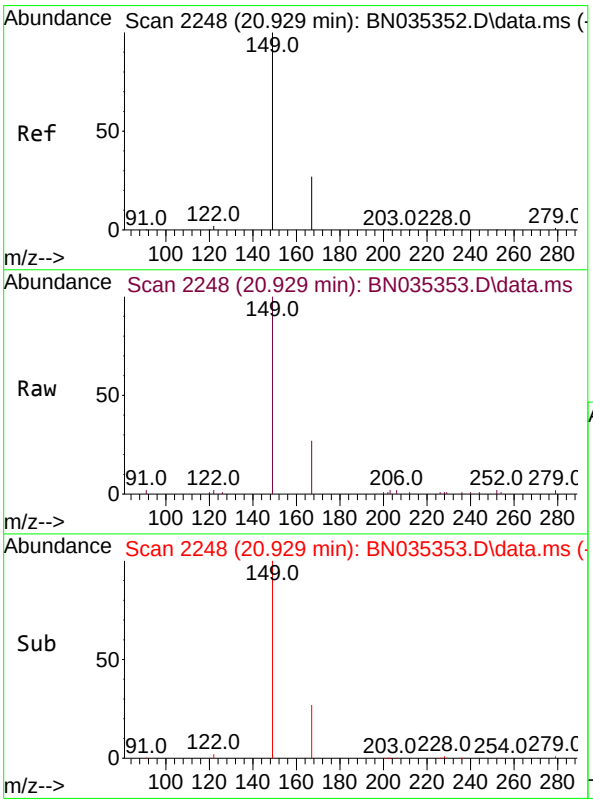
#33
Chrysene
Concen: 0.820 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 27838

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.6	15.9	23.9

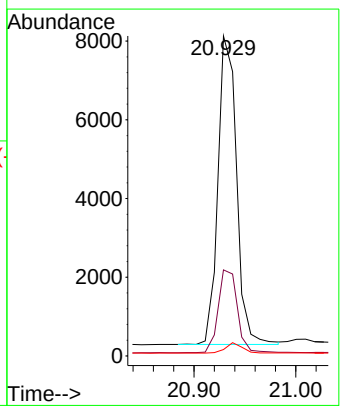


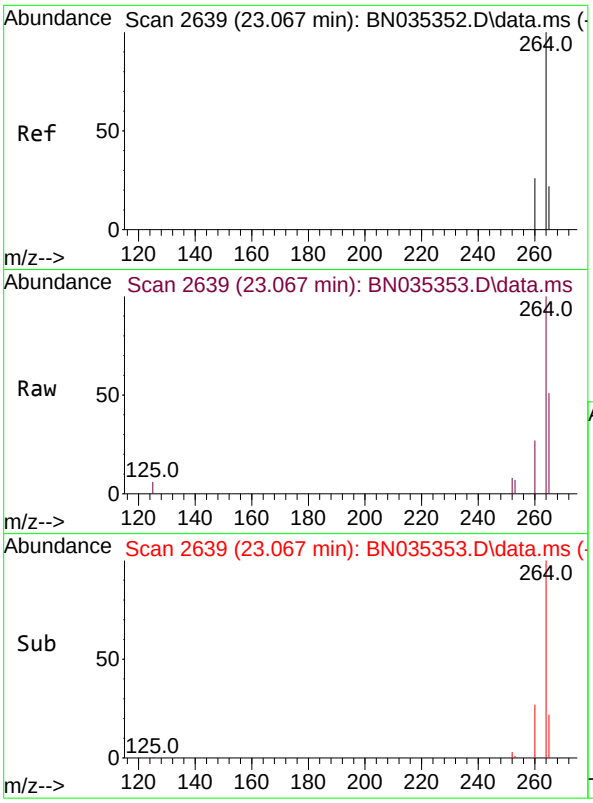


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.553 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:149 Resp: 9941

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.0	2.7	4.1



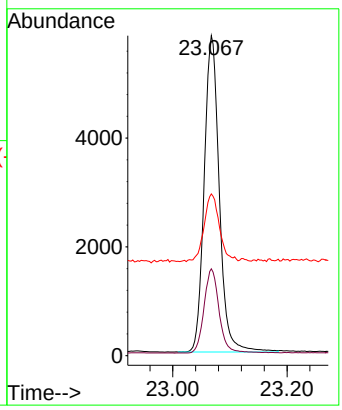


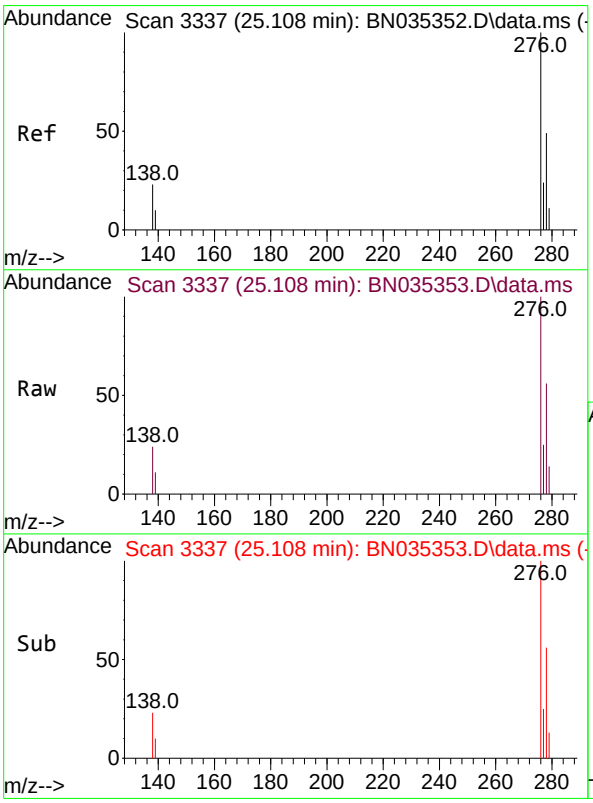
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 10698

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.6	40.2	60.4

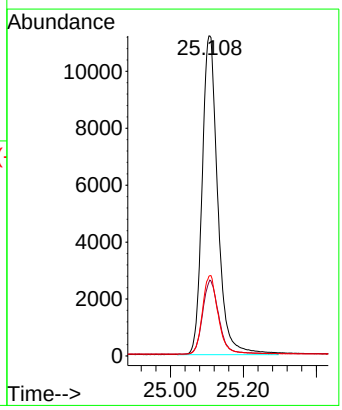


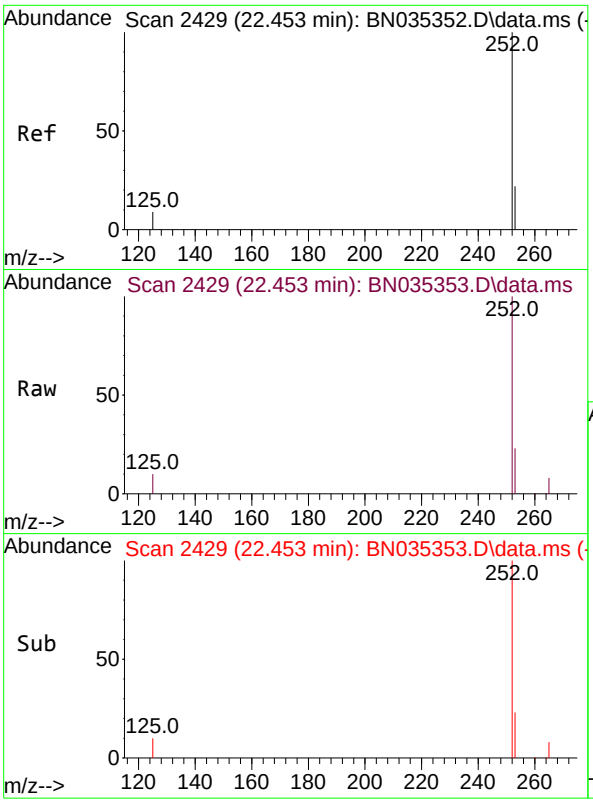


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.779 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:276 Resp: 33248

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.7	19.8	29.6



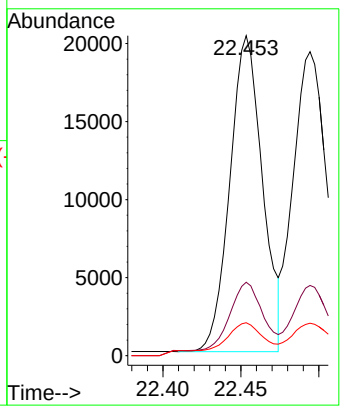


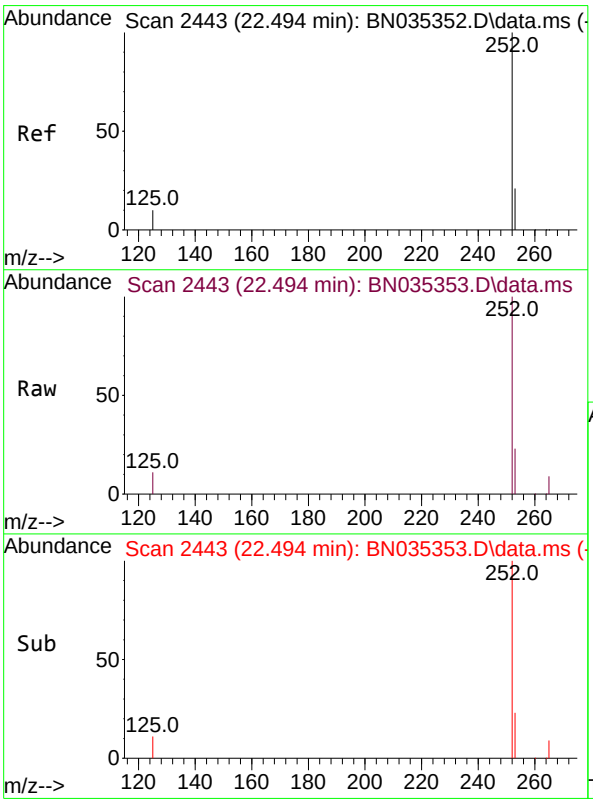
#37
Benzo(b)fluoranthene
Concen: 0.819 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 29491

Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.6	29.4
125	10.3	9.6	14.4

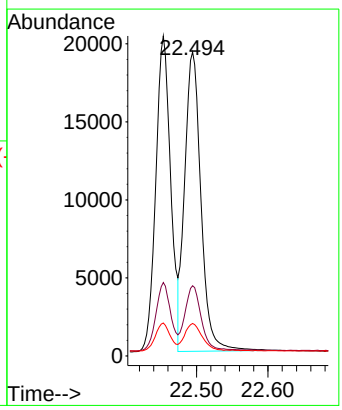


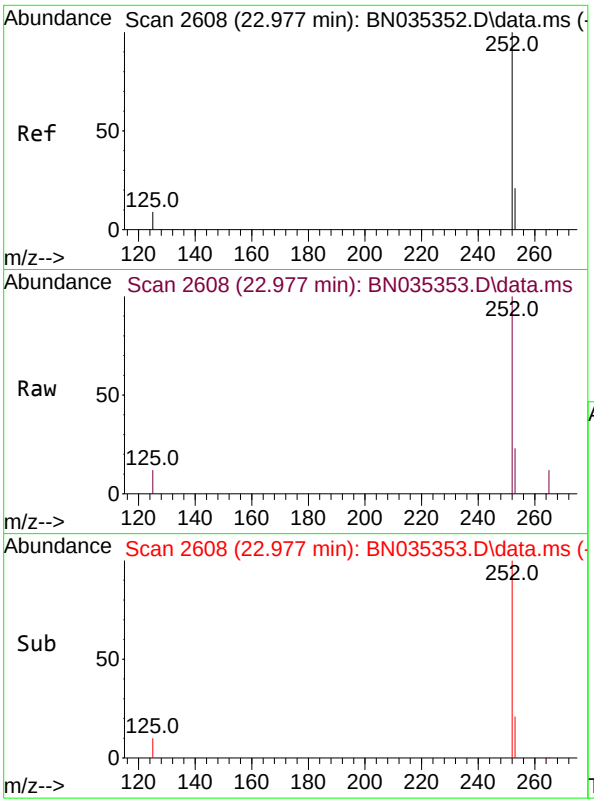


#38
Benzo(k)fluoranthene
Concen: 0.843 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:252 Resp: 30369

Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.5	29.3
125	10.7	10.2	15.4



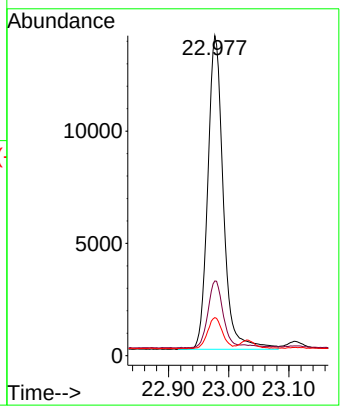


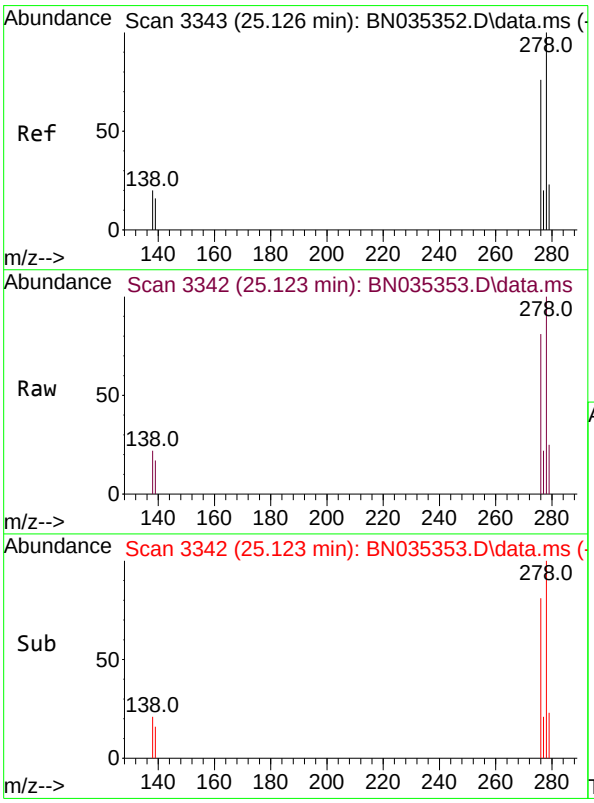
#39
Benzo(a)pyrene
Concen: 0.791 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 25053

Ion	Ratio	Lower	Upper
252	100		
253	23.3	20.2	30.4
125	11.9	10.9	16.3

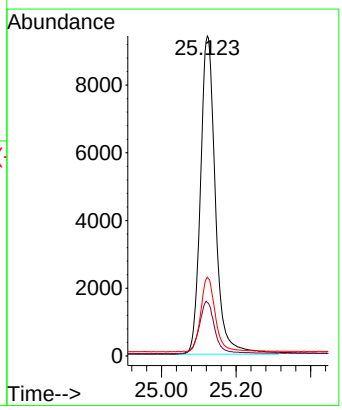


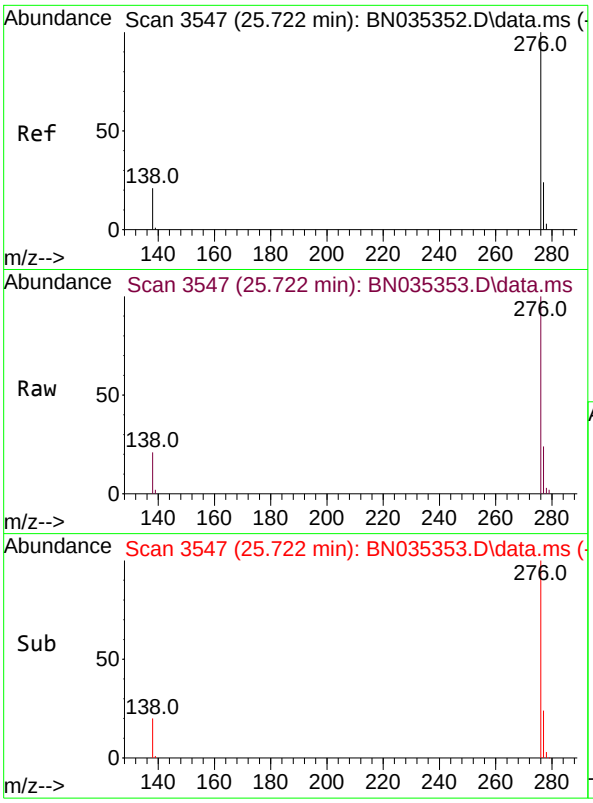


#40
Dibenzo(a,h)anthracene
Concen: 0.775 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:278 Resp: 26222

Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.2	21.4
279	24.6	20.5	30.7



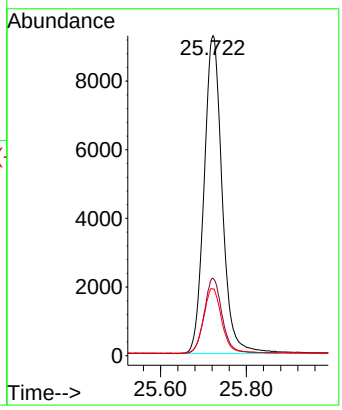


#41
Benzo(g,h,i)perylene
Concen: 0.755 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 27143

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.9	29.9
138	20.8	17.8	26.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

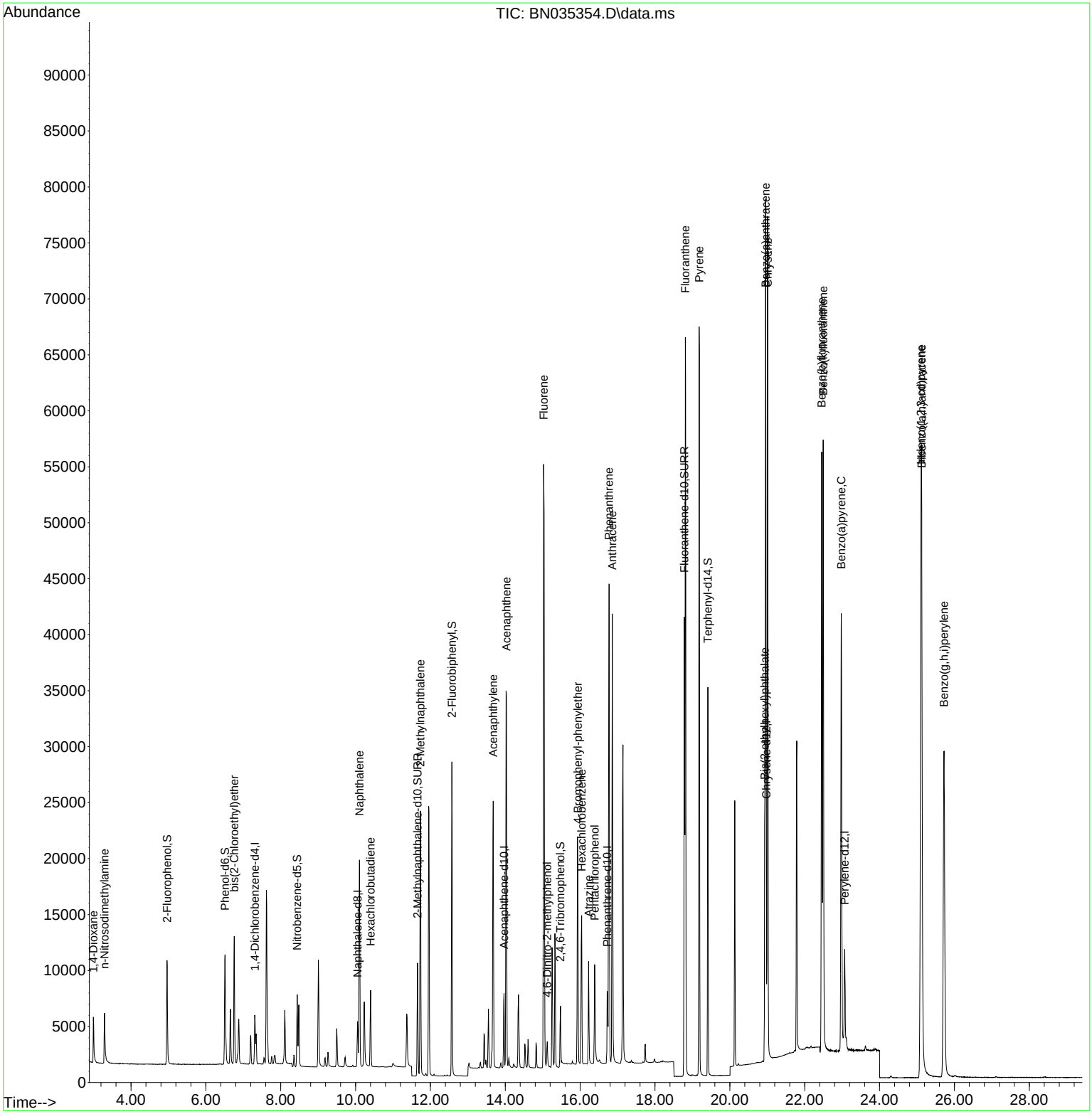
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	9905	0.400	ng		0.00
35) Perylene-d12	23.067	264	10469	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	8194	1.572	ng		0.00
5) Phenol-d6	6.513	99	10139	1.552	ng		0.00
8) Nitrobenzene-d5	8.440	82	5450	1.179	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	13988	1.478	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	4615	1.623	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	24687	1.542	ng		0.00
27) Fluoranthene-d10	18.785	212	44338	1.521	ng		0.00
31) Terphenyl-d14	19.412	244	32174	1.548	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	3220	1.727	ng		99
3) n-Nitrosodimethylamine	3.292	42	2729	1.570	ng	#	97
6) bis(2-Chloroethyl)ether	6.759	93	8629	1.759	ng		100
9) Naphthalene	10.105	128	23280	1.680	ng		98
10) Hexachlorobutadiene	10.404	225	5409	1.331	ng	#	100
12) 2-Methylnaphthalene	11.732	142	16881	1.651	ng		98
16) Acenaphthylene	13.679	152	27389	1.626	ng		99
17) Acenaphthene	14.032	154	18061	1.636	ng		99
18) Fluorene	15.026	166	26044	1.604	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	1947	0.983	ng	#	69
21) 4-Bromophenyl-phenylether	15.941	248	9493	1.566	ng		96
22) Hexachlorobenzene	16.041	284	10969	1.743	ng		100
23) Atrazine	16.227	200	6644	1.221	ng		96
24) Pentachlorophenol	16.388	266	4618	1.571	ng	#	85
25) Phenanthrene	16.773	178	43698	1.745	ng		100
26) Anthracene	16.860	178	39964	1.737	ng		99
28) Fluoranthene	18.813	202	58605	1.702	ng		100
30) Pyrene	19.180	202	60164	1.824	ng		100
32) Benzo(a)anthracene	20.956	228	57498	1.667	ng		100
33) Chrysene	21.010	228	58919	1.725	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	20598	1.138	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	69517	1.665	ng		99
37) Benzo(b)fluoranthene	22.454	252	76506	2.172	ng		95
38) Benzo(k)fluoranthene	22.494	252	63925	1.814	ng	#	95
39) Benzo(a)pyrene	22.977	252	52595	1.697	ng	#	94
40) Dibenzo(a,h)anthracene	25.126	278	55068	1.664	ng		96
41) Benzo(g,h,i)perylene	25.719	276	56947	1.618	ng		97

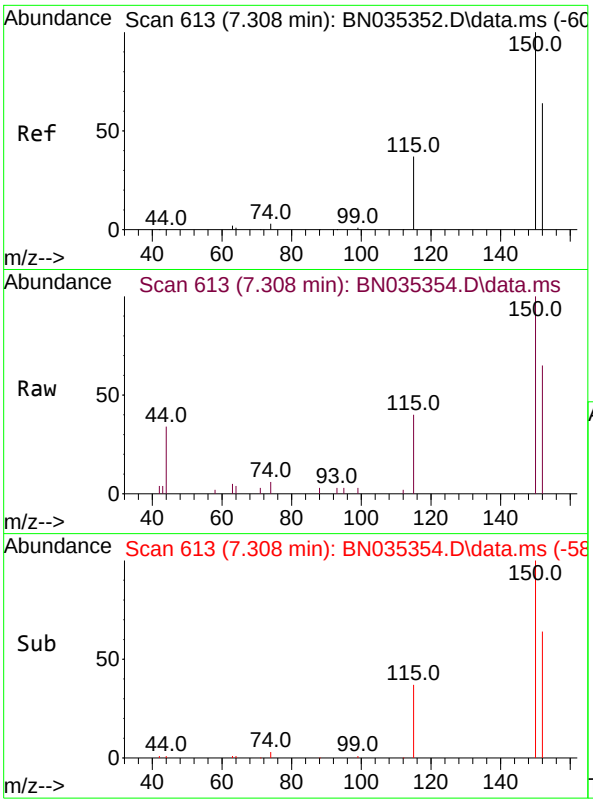
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



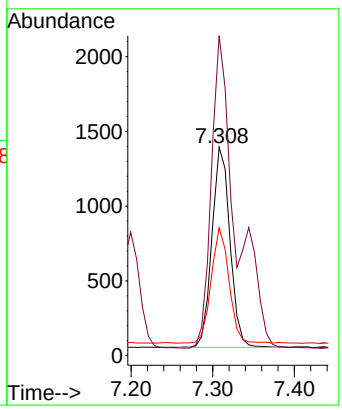


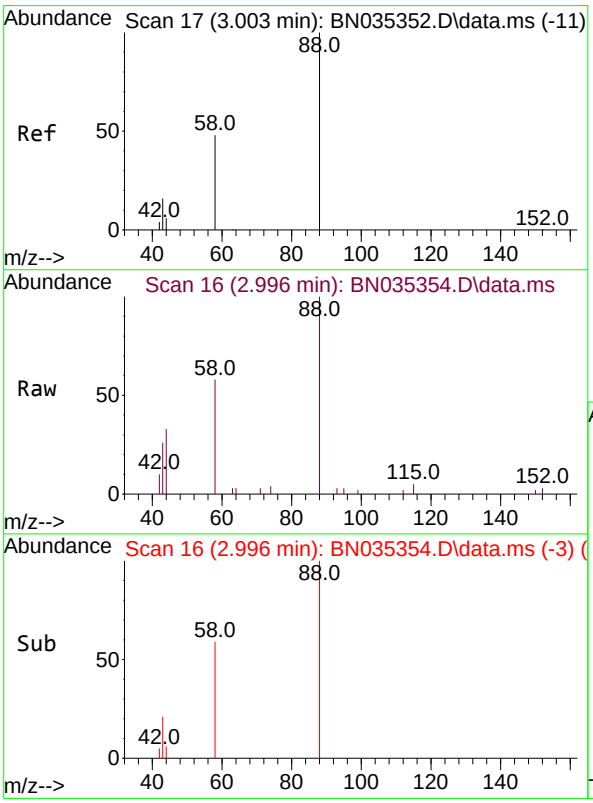
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2053

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	61.4	49.6	74.4

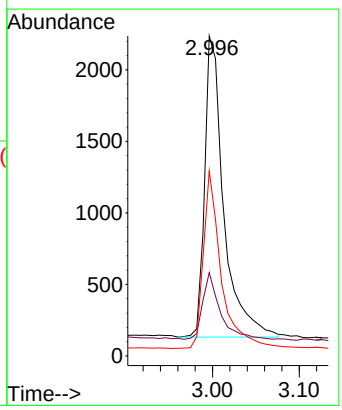


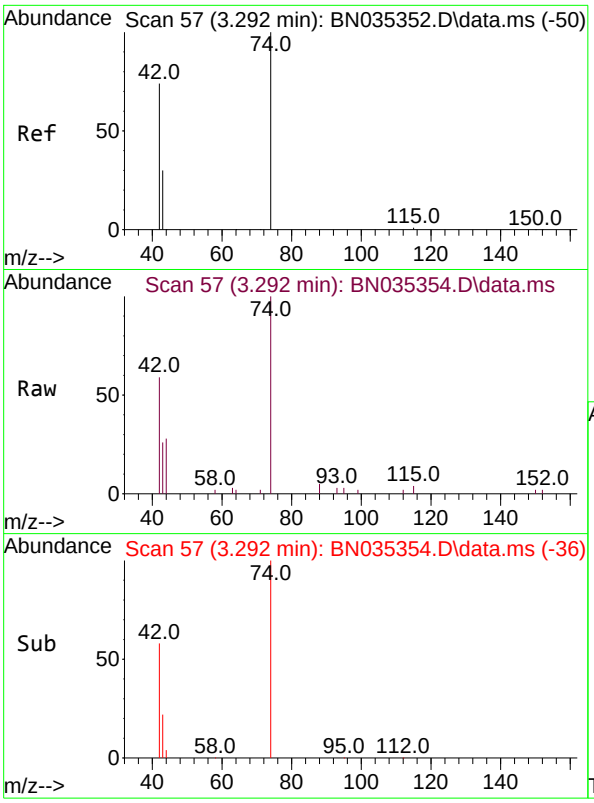


#2
1,4-Dioxane
Concen: 1.727 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 88 Resp: 3220

Ion	Ratio	Lower	Upper
88	100		
43	20.3	17.2	25.8
58	55.1	44.5	66.7



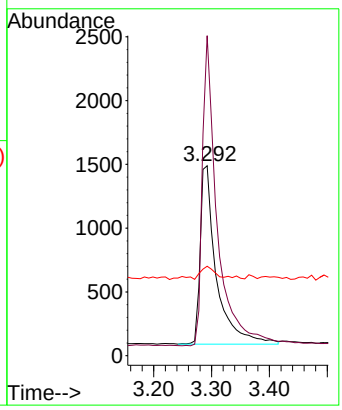


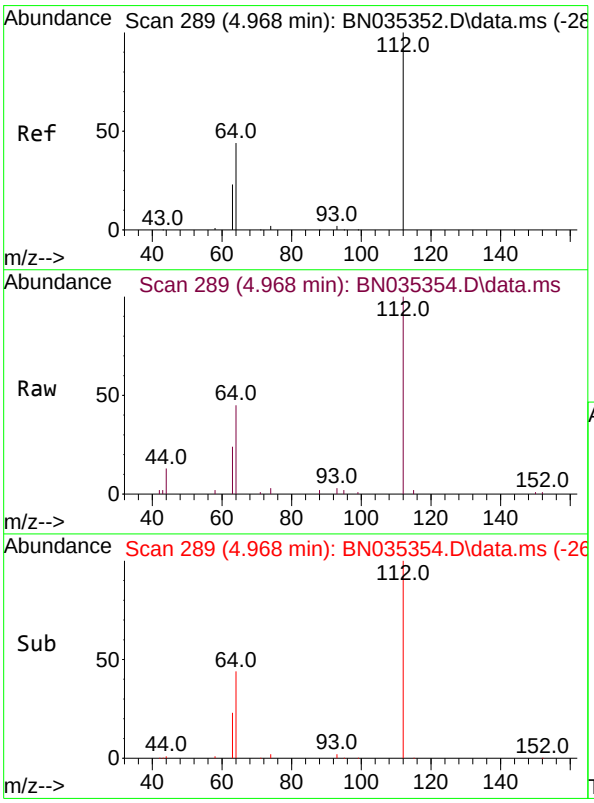
#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 2729

Ion	Ratio	Lower	Upper
42	100		
74	160.4	124.9	187.3
44	6.2	2.2	3.4#

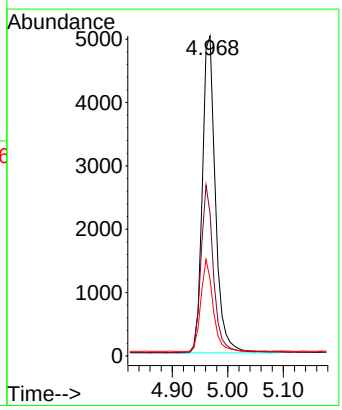


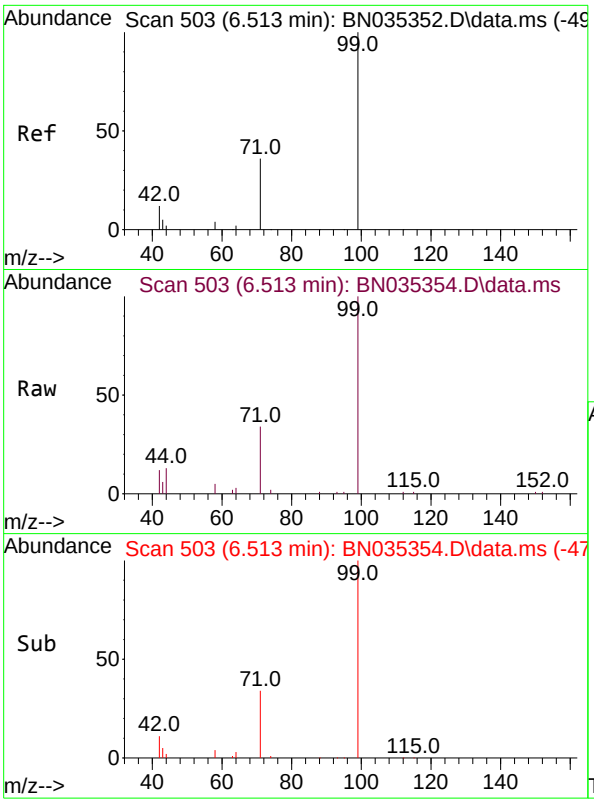


#4
2-Fluorophenol
Concen: 1.572 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:112 Resp: 8194

Ion	Ratio	Lower	Upper
112	100		
64	50.7	39.8	59.8
63	27.5	21.0	31.6



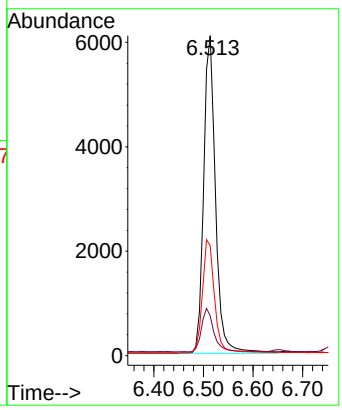


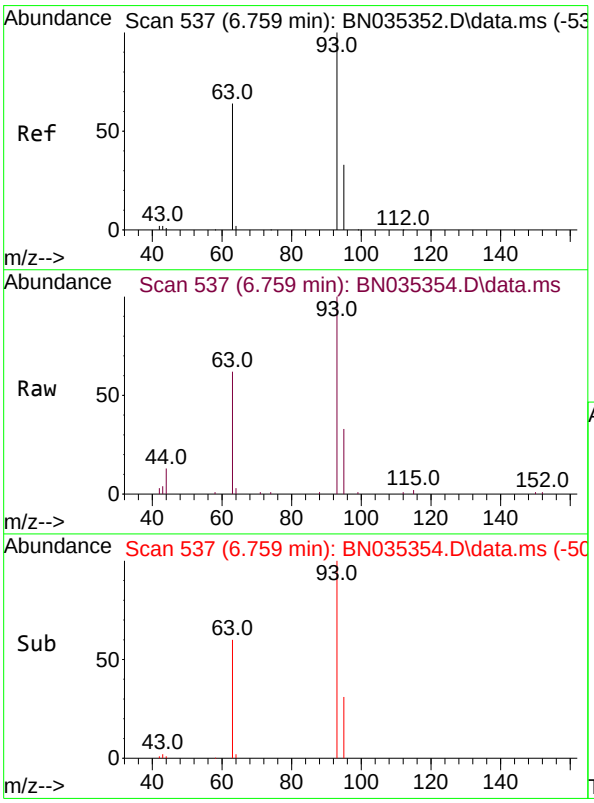
#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 10139

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	36.3	29.3	43.9

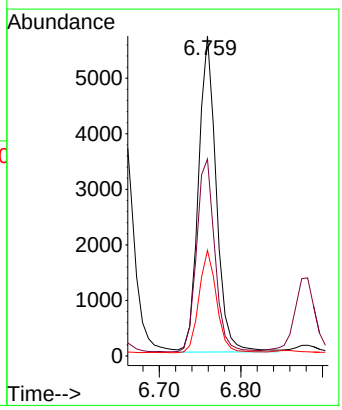


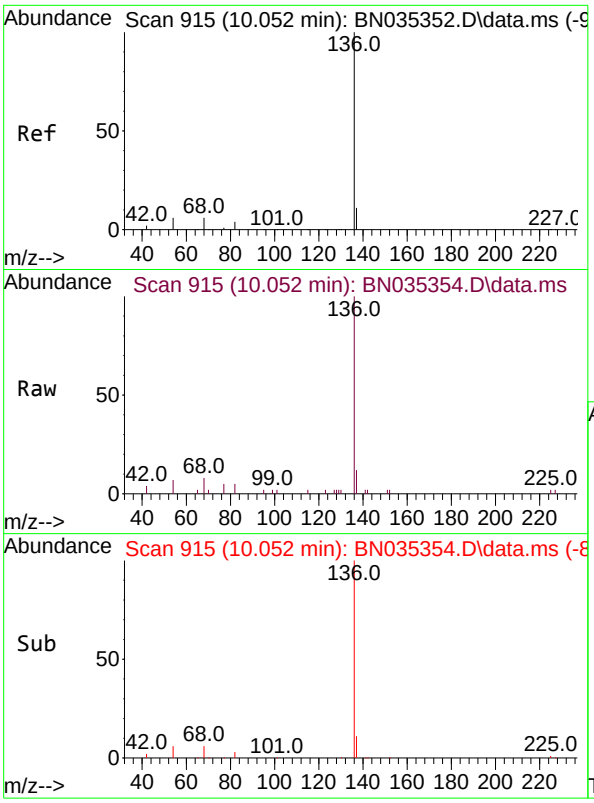


#6
bis(2-Chloroethyl)ether
Concen: 1.759 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 93 Resp: 8629

Ion	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	32.2	25.7	38.5



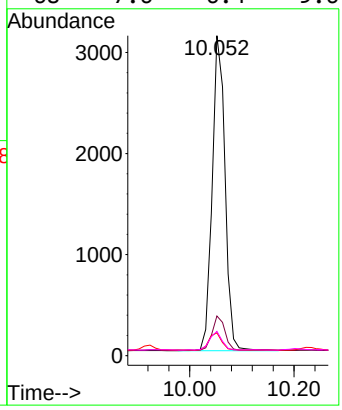


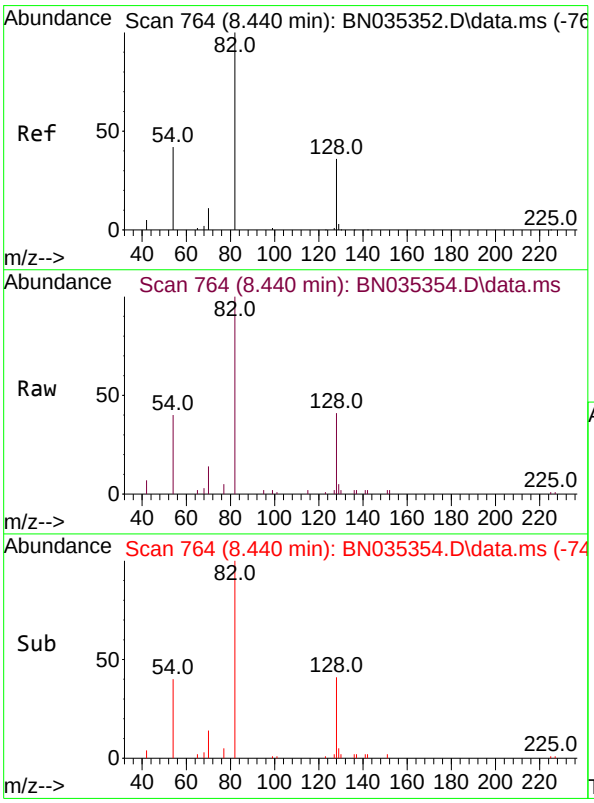
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 5309

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.2	6.1	9.1
68	7.6	6.4	9.6

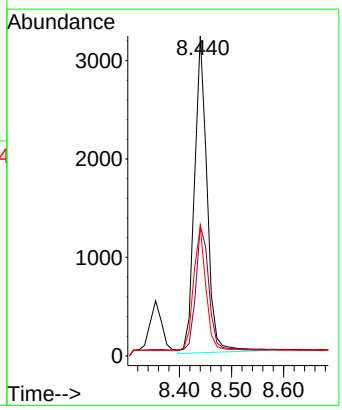


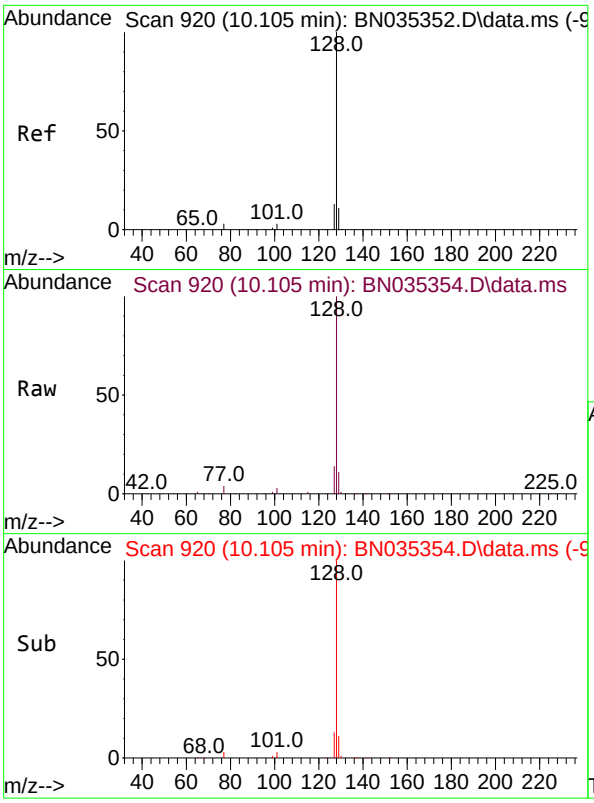


#8
Nitrobenzene-d5
Concen: 1.179 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 82 Resp: 5450

Ion	Ratio	Lower	Upper
82	100		
128	40.8	33.4	50.0
54	40.3	36.7	55.1



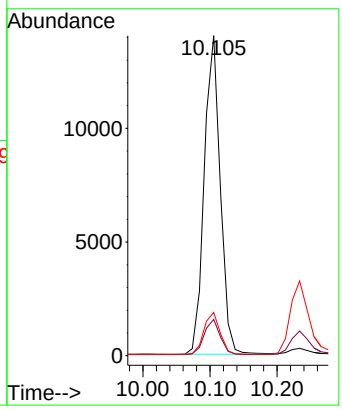


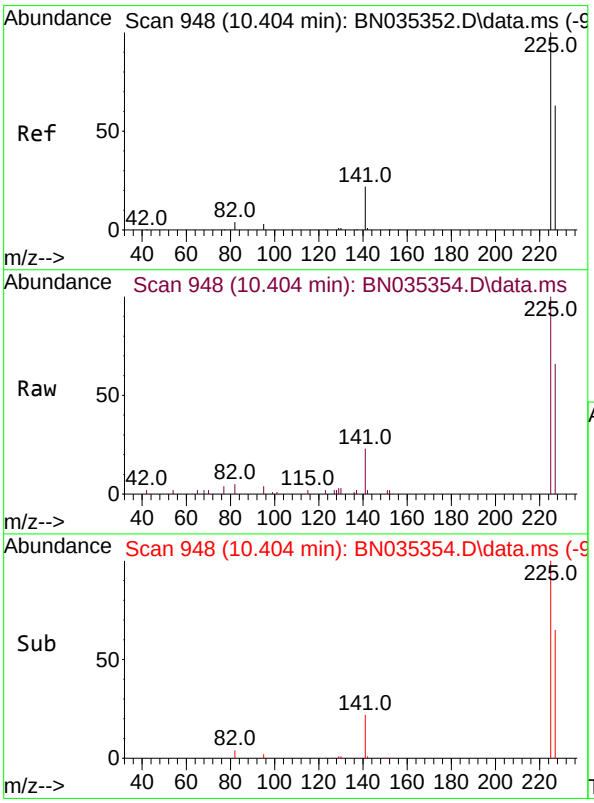
#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 23280

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

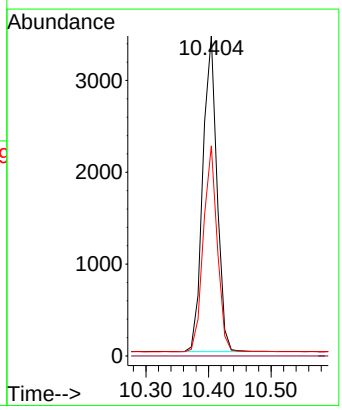


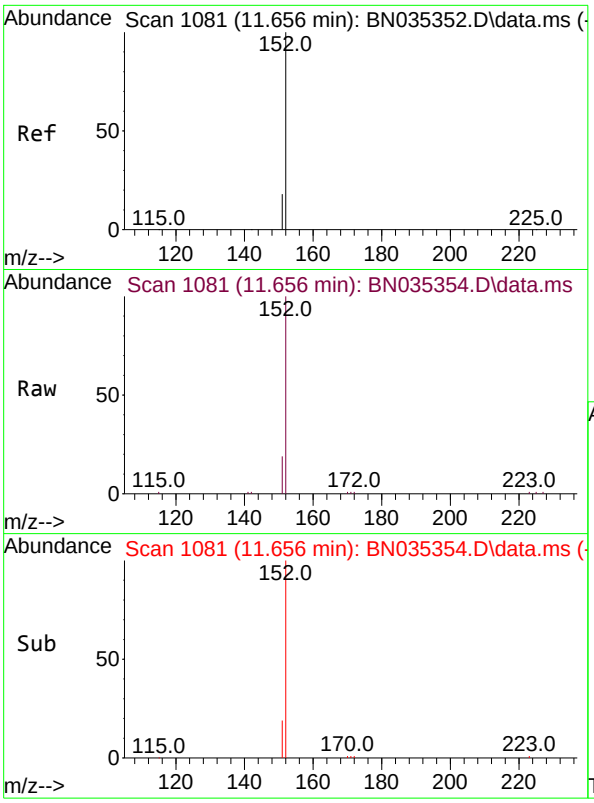


#10
Hexachlorobutadiene
Concen: 1.331 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:225 Resp: 5409

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.3	76.9



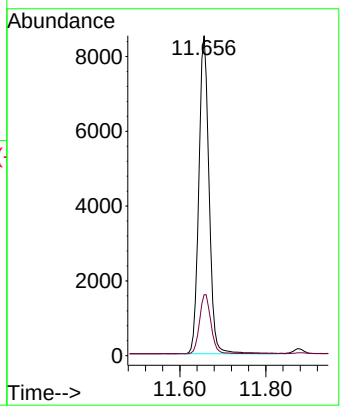


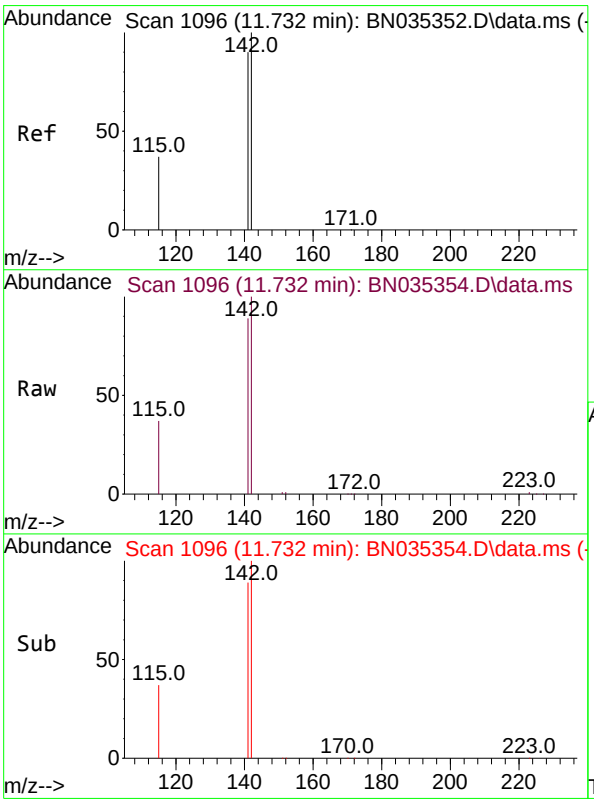
#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 13988

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

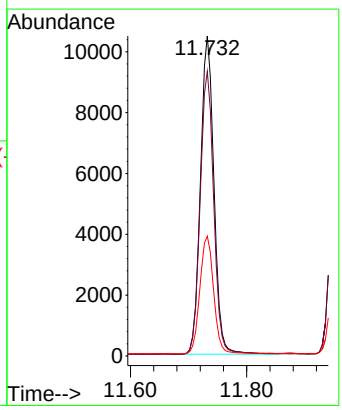


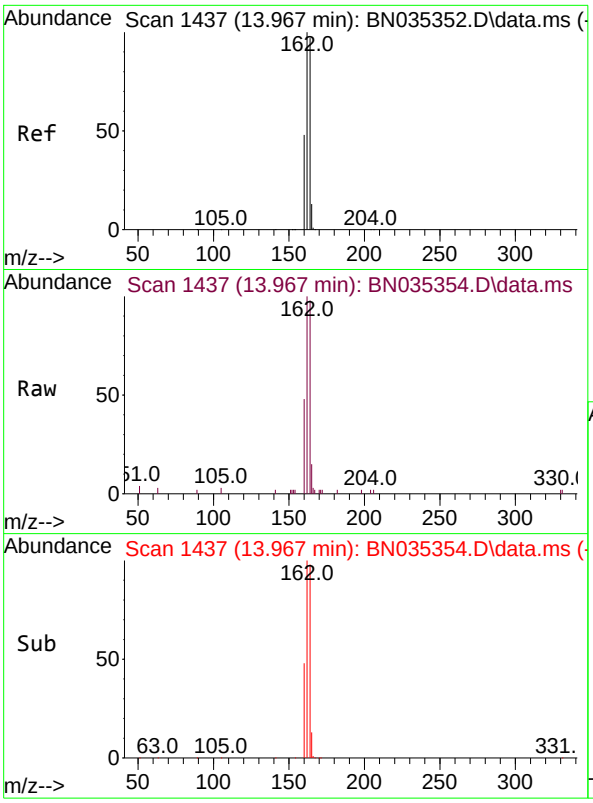


#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:142 Resp: 16881

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	37.5	31.4	47.0



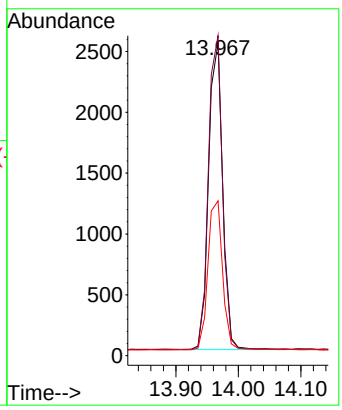


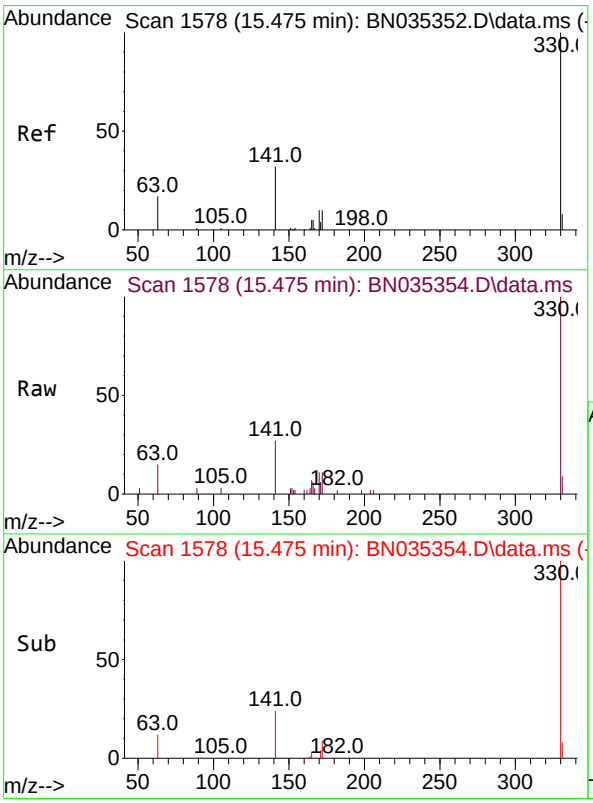
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3942

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.5	40.1	60.1

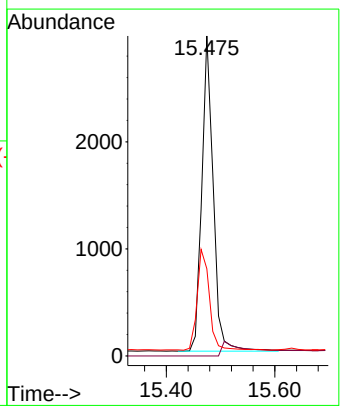


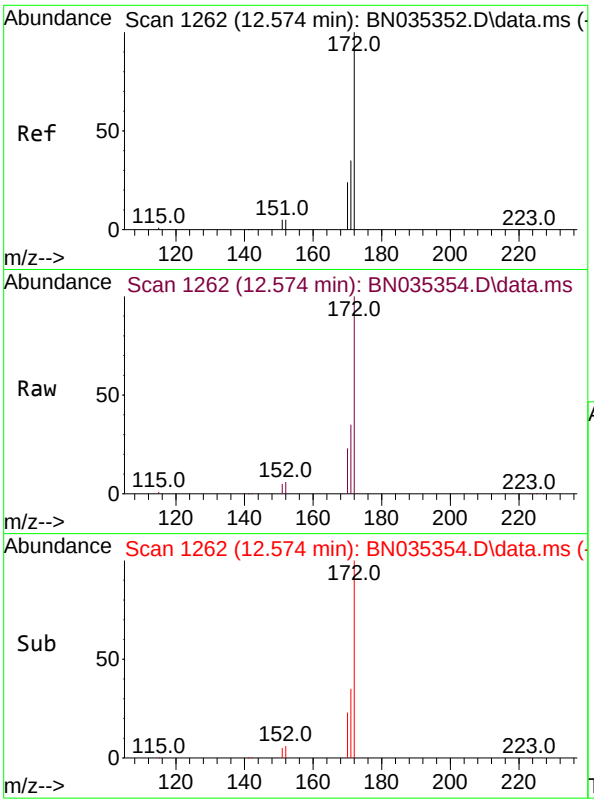


#14
2,4,6-Tribromophenol
Concen: 1.623 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:330 Resp: 4615

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.6	26.6	40.0



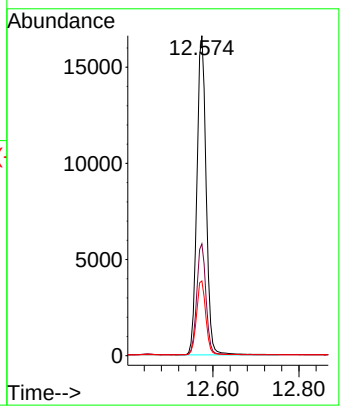


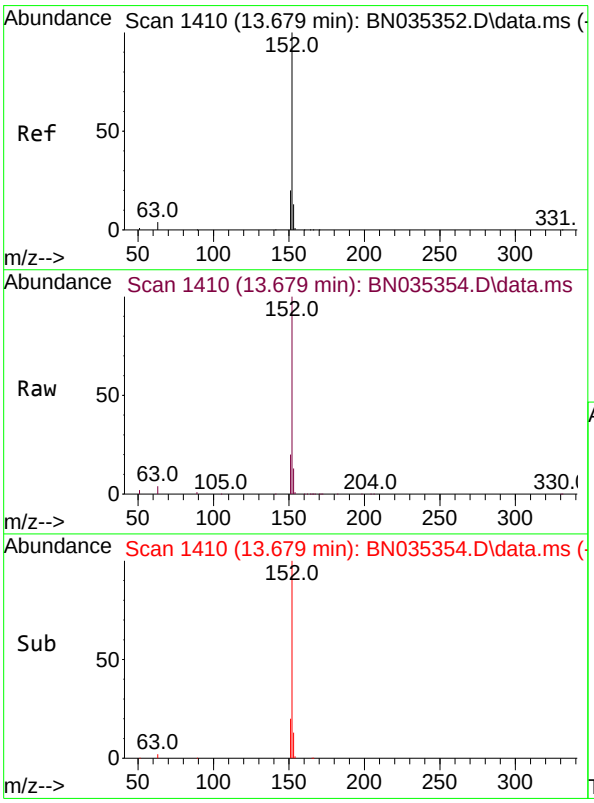
#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 24687

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.4	19.8	29.8

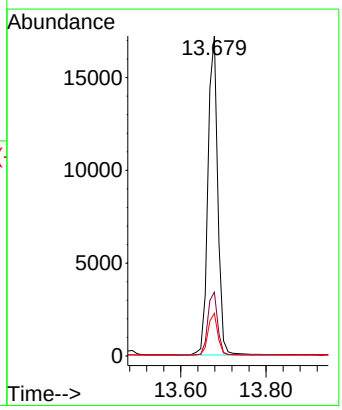


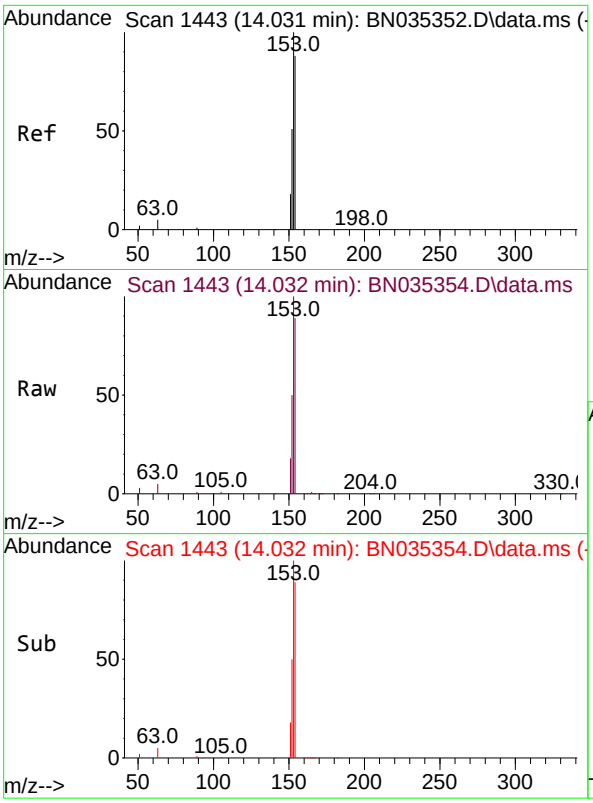


#16
Acenaphthylene
Concen: 1.626 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:152 Resp: 27389

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6



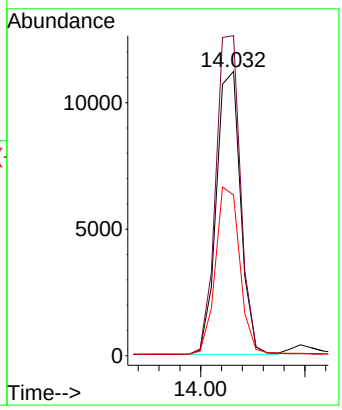


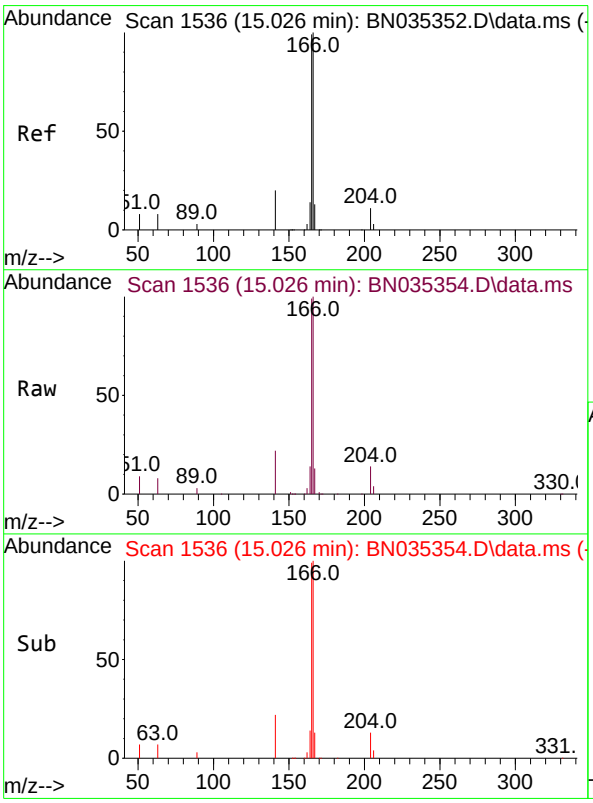
#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 18061

Ion	Ratio	Lower	Upper
154	100		
153	115.1	92.6	139.0
152	59.9	49.0	73.6

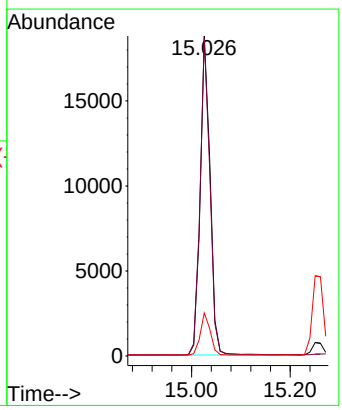


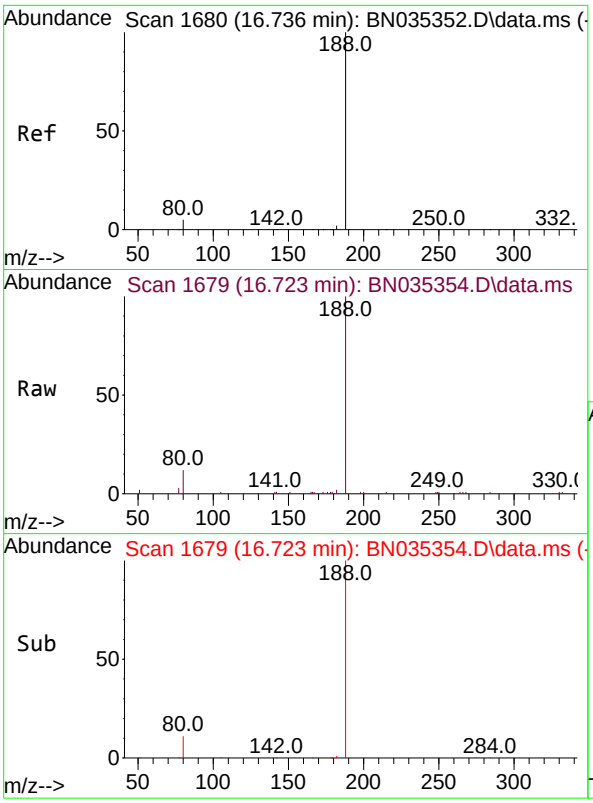


#18
Fluorene
Concen: 1.604 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:166 Resp: 26044

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.7	119.5
167	13.3	10.8	16.2



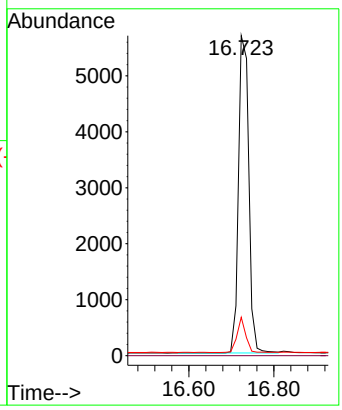


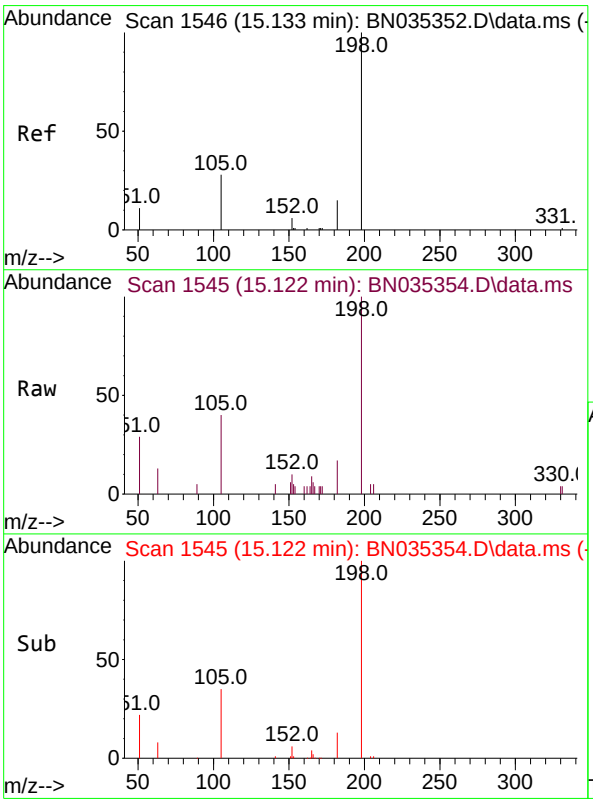
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 9517

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	4.6	6.8#

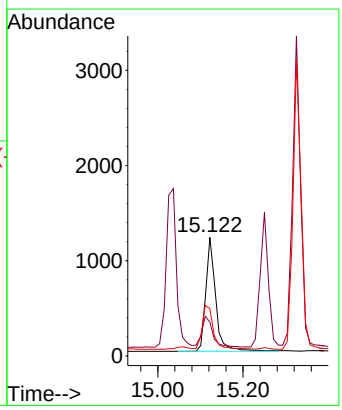


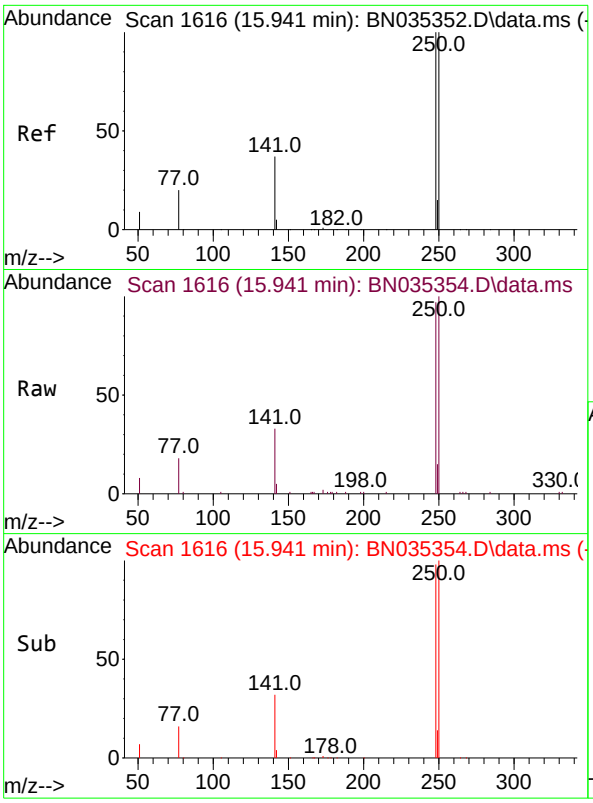


#20
4,6-Dinitro-2-methylphenol
Concen: 0.983 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:198 Resp: 1947

Ion	Ratio	Lower	Upper
198	100		
51	28.6	46.5	69.7#
105	39.8	45.3	67.9#



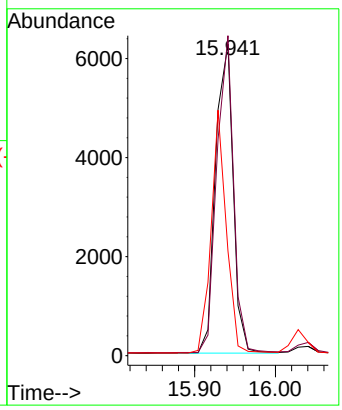


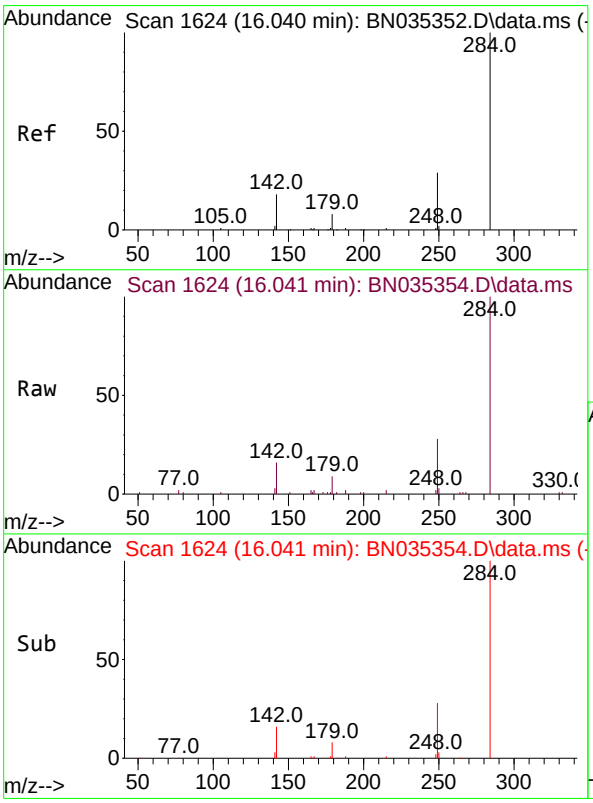
#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 9493

Ion	Ratio	Lower	Upper
248	100		
250	102.7	80.6	120.8
141	33.7	31.5	47.3

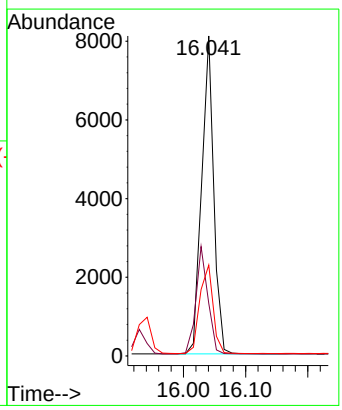


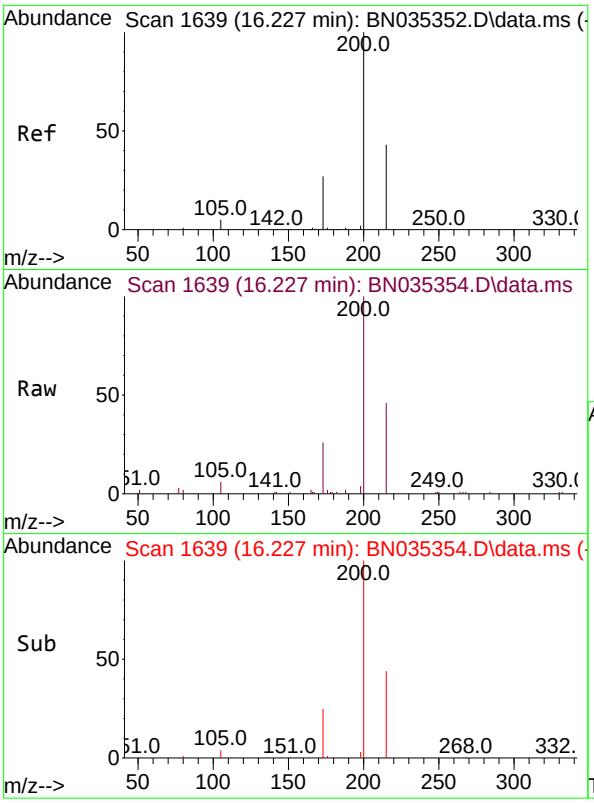


#22
Hexachlorobenzene
Concen: 1.743 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:284 Resp: 10969

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.6	24.6	36.8



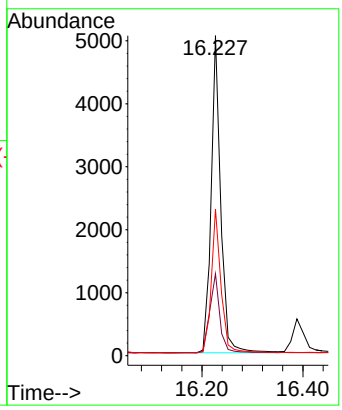


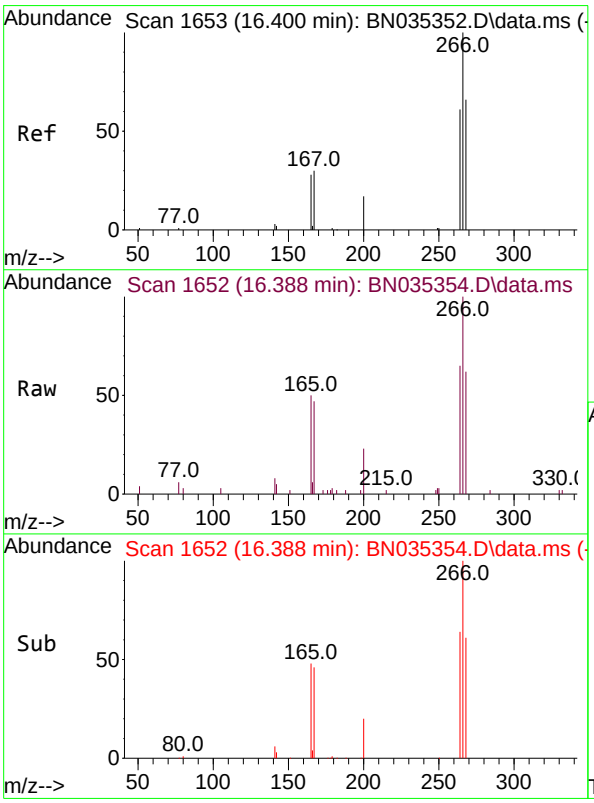
#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6644

Ion	Ratio	Lower	Upper
200	100		
173	25.6	24.1	36.1
215	45.8	36.9	55.3

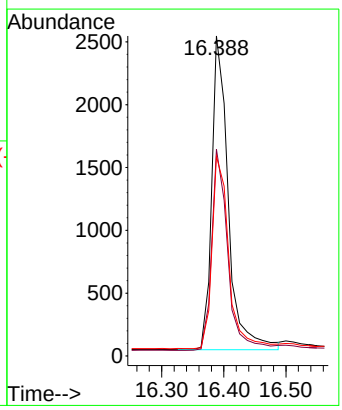


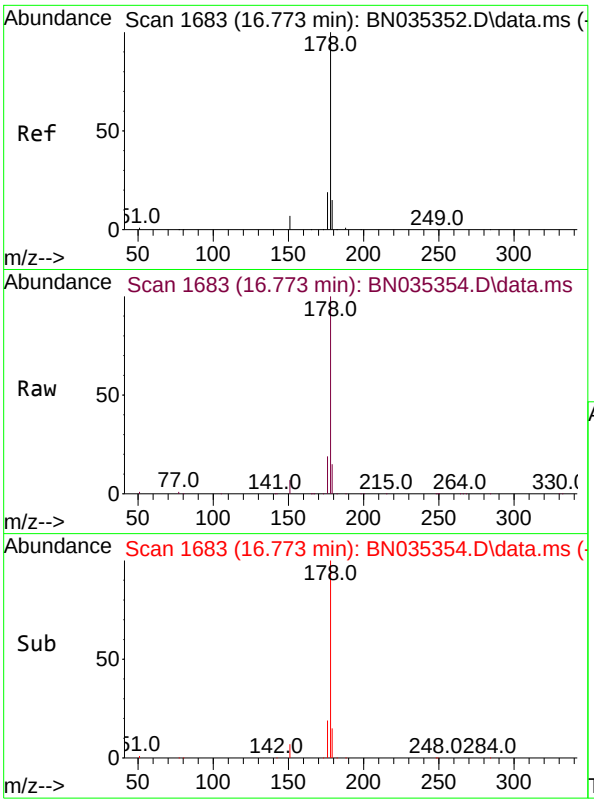


#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:266 Resp: 4618

Ion	Ratio	Lower	Upper
266	100		
264	64.8	42.3	63.5#
268	62.9	43.3	64.9



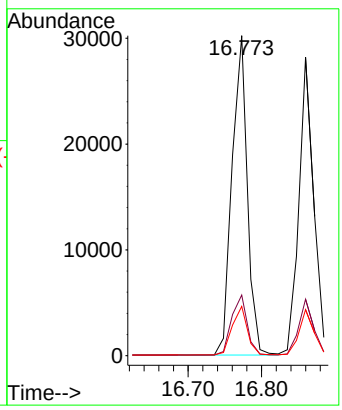


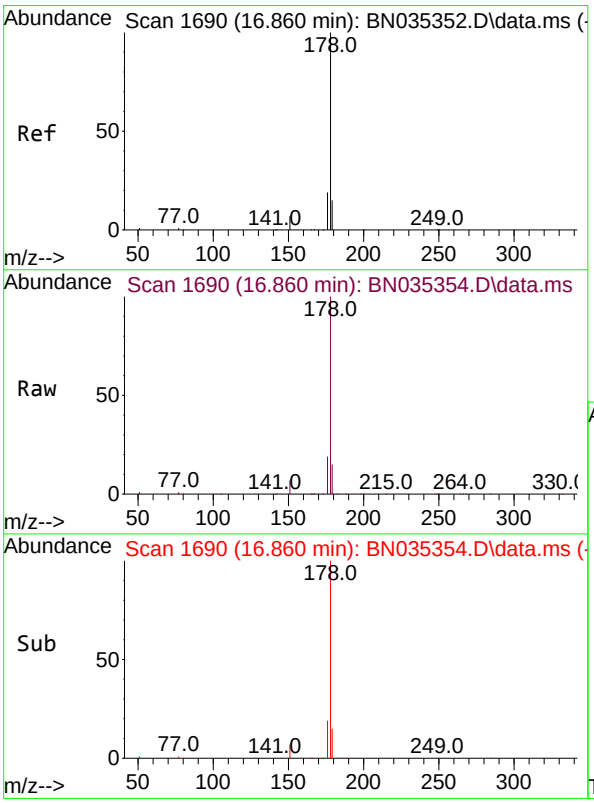
#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 43698

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.2	12.3	18.5

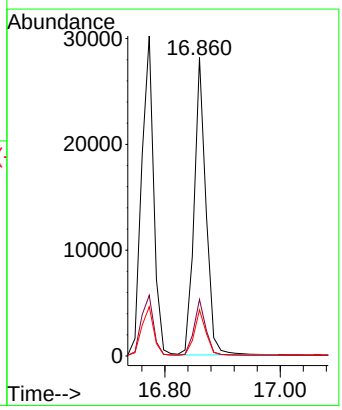


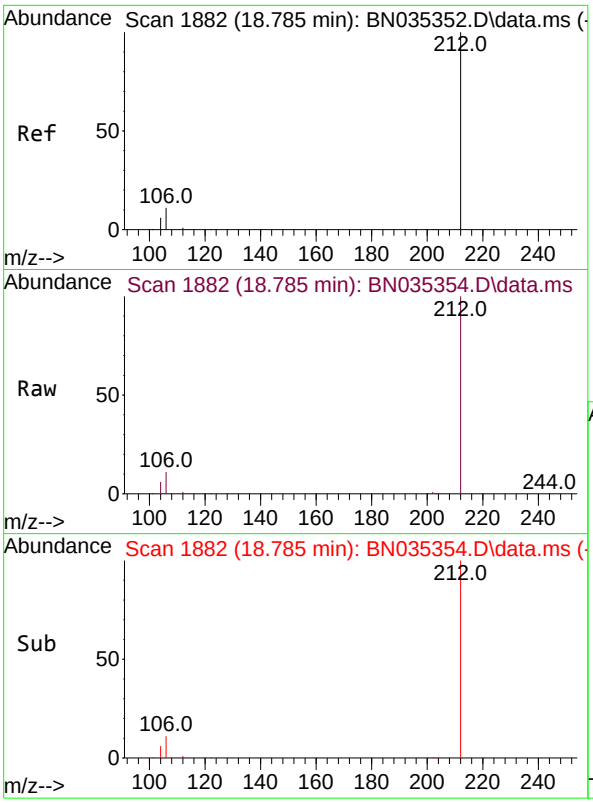


#26
Anthracene
Concen: 1.737 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:178 Resp: 39964

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.3	12.6	18.8



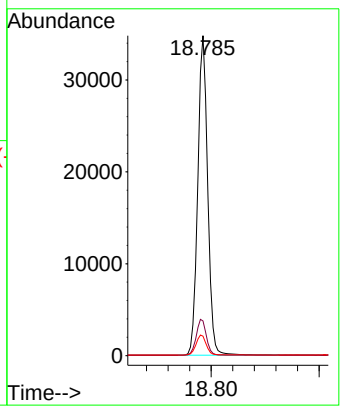


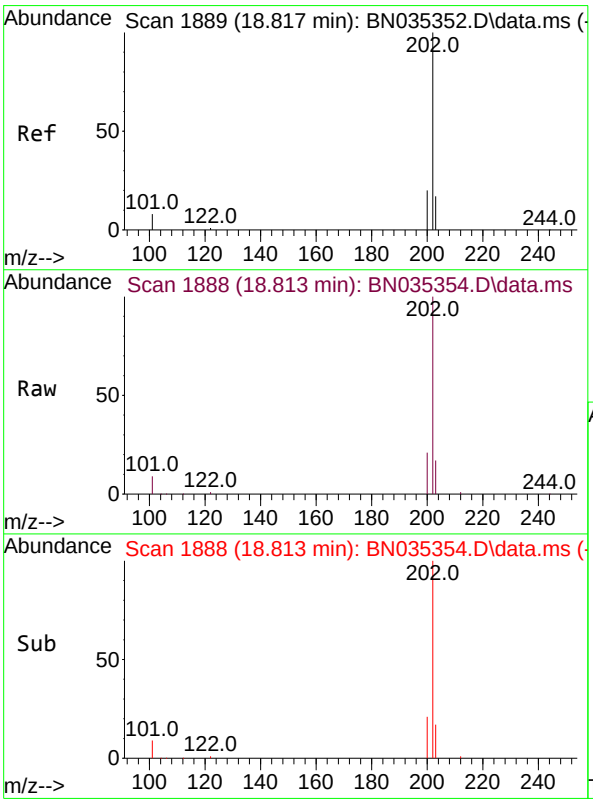
#27
Fluoranthene-d10
Concen: 1.521 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 44338

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9

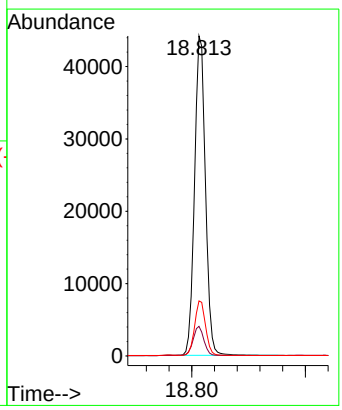


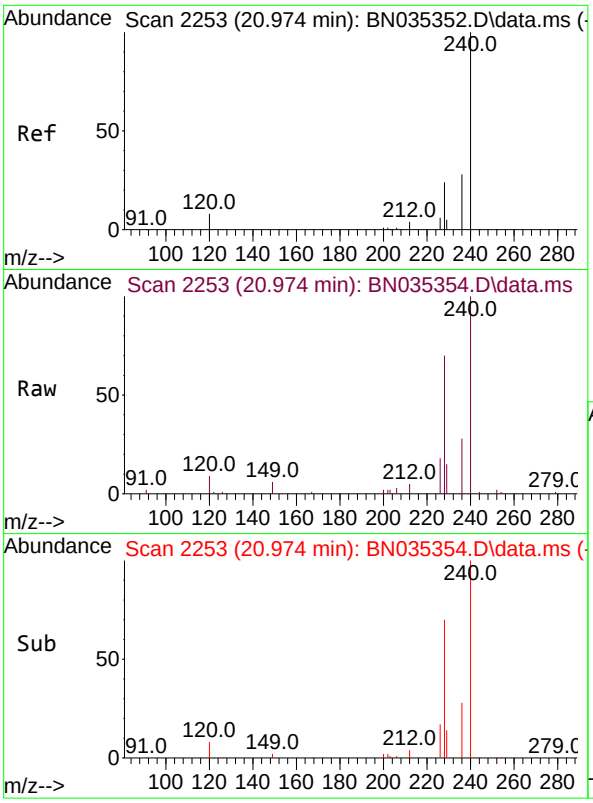


#28
Fluoranthene
Concen: 1.702 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 58605

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



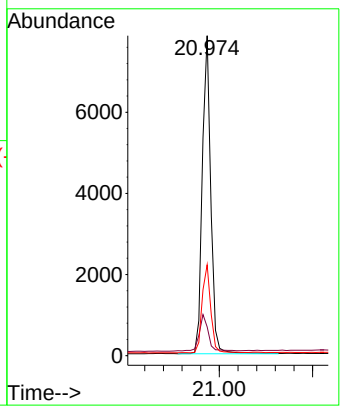


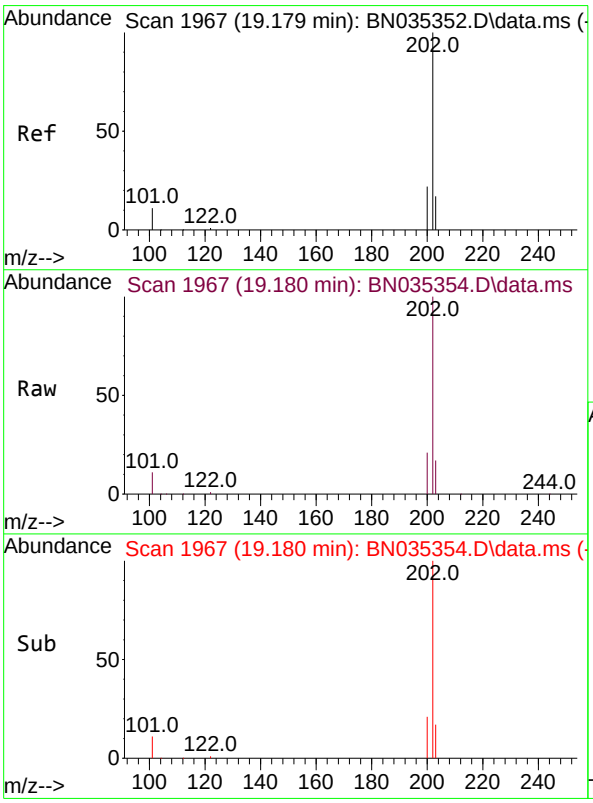
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 9905

Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.9	11.9
236	28.4	22.9	34.3

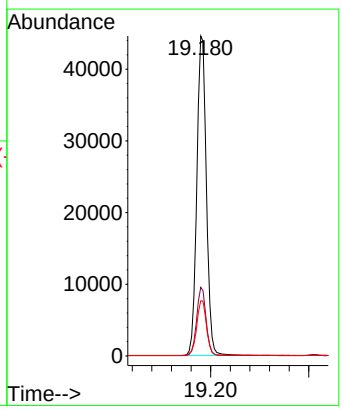


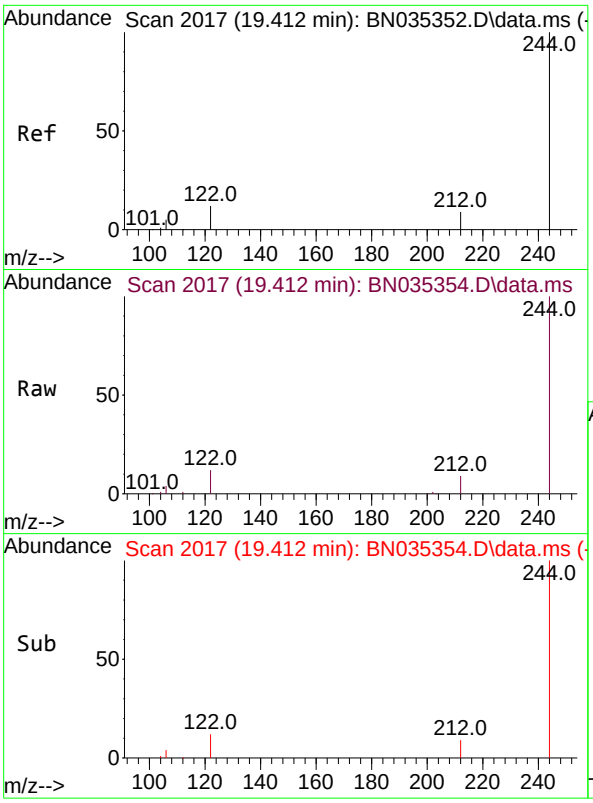


#30
Pyrene
Concen: 1.824 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 60164

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.7	14.3	21.5



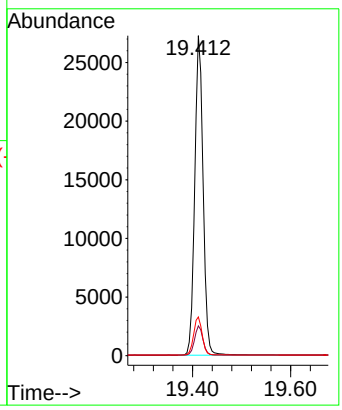


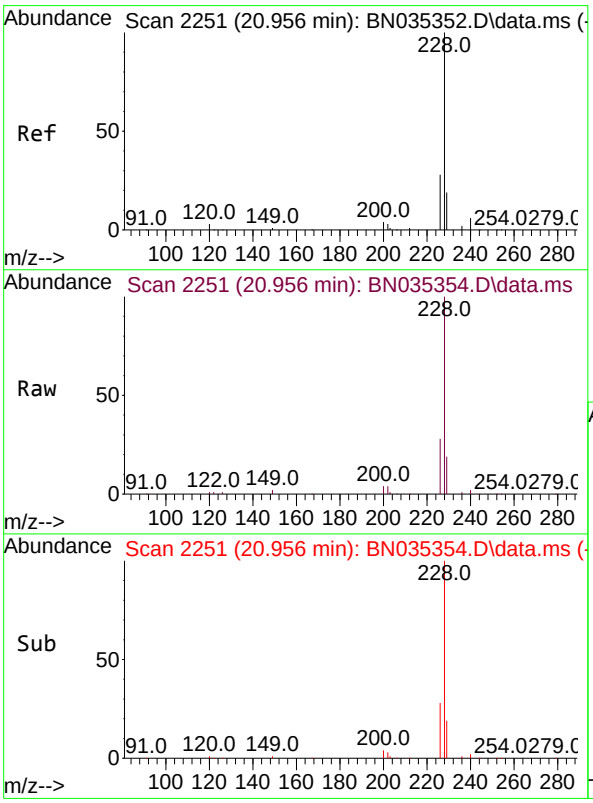
#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 32174

Ion	Ratio	Lower	Upper
244	100		
212	9.3	8.1	12.1
122	12.1	10.3	15.5

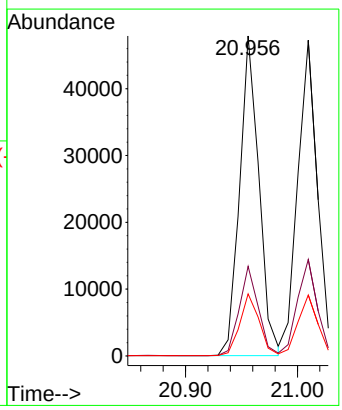


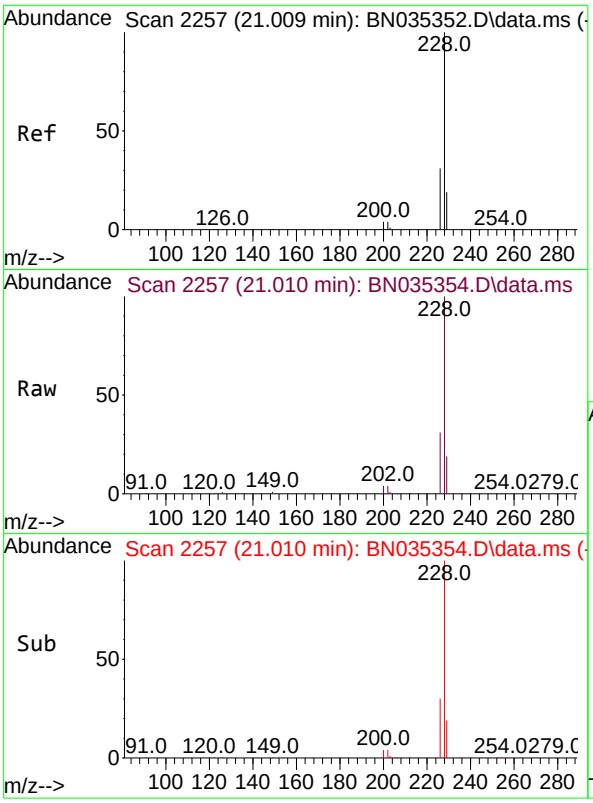


#32
Benzo(a)anthracene
Concen: 1.667 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.4	15.8	23.8



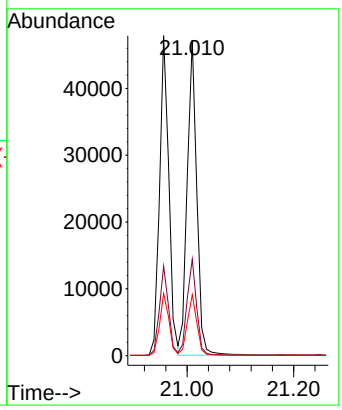


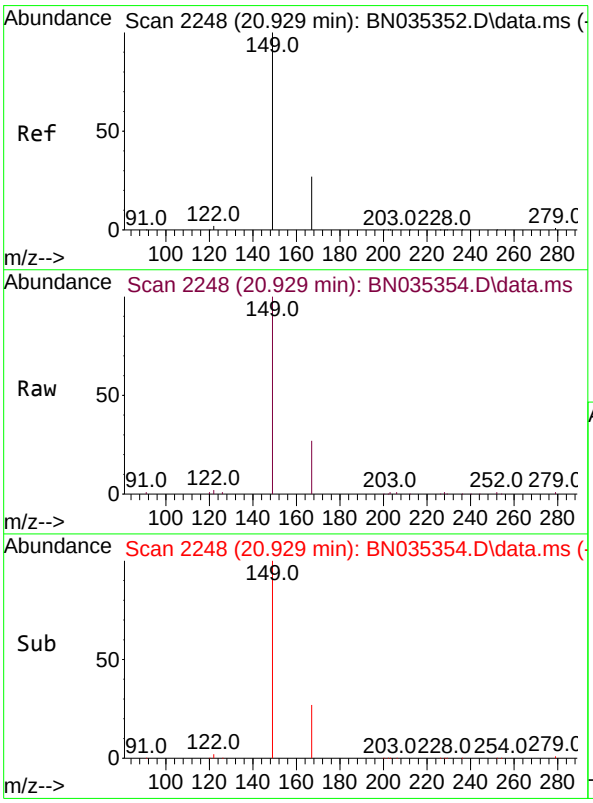
#33
Chrysene
Concen: 1.725 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 58919

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.3	15.9	23.9

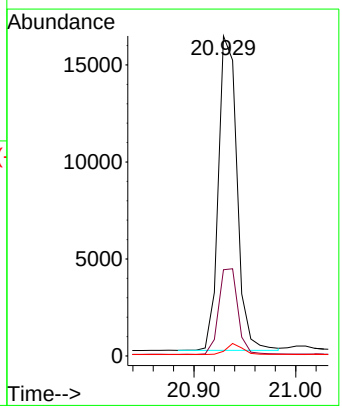


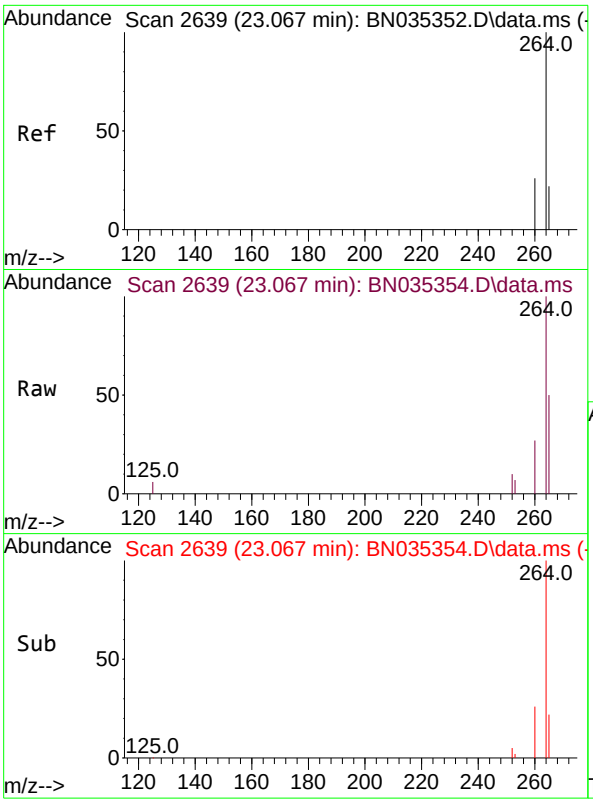


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.138 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:149 Resp: 20598

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.4
279	3.2	2.7	4.1



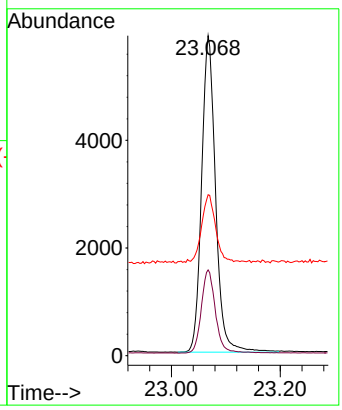


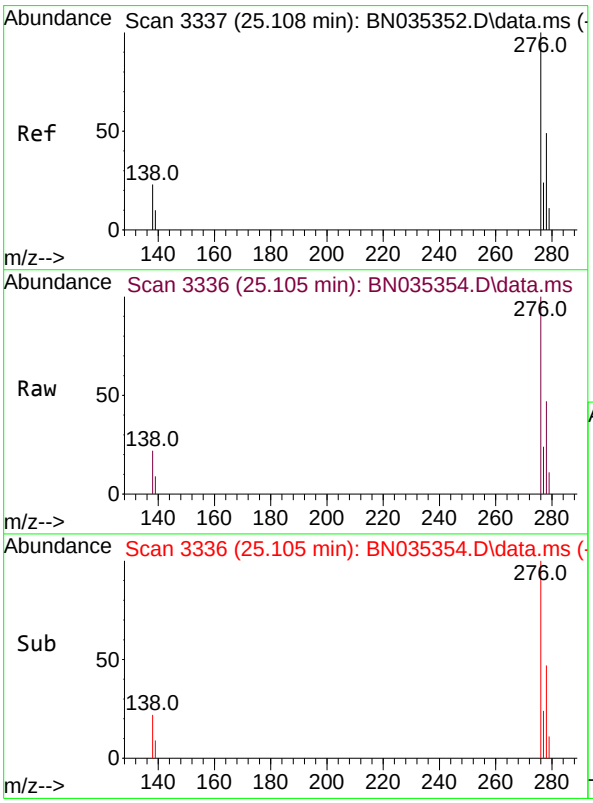
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 10469

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

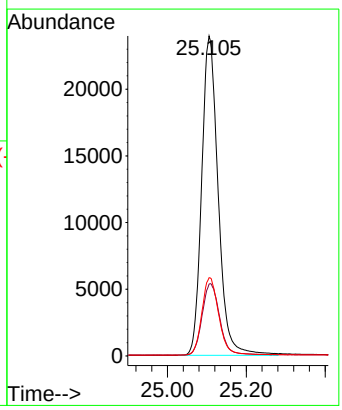


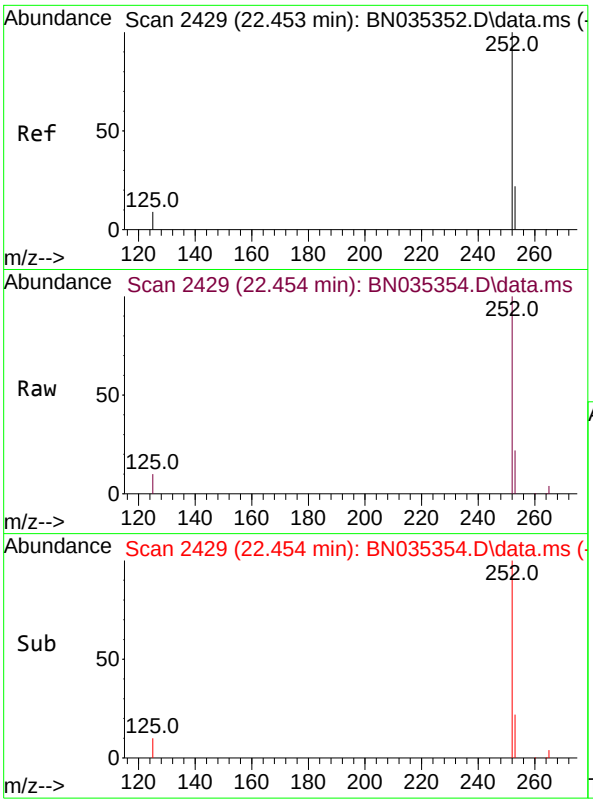


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.665 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:276 Resp: 69517

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.8	19.8	29.6



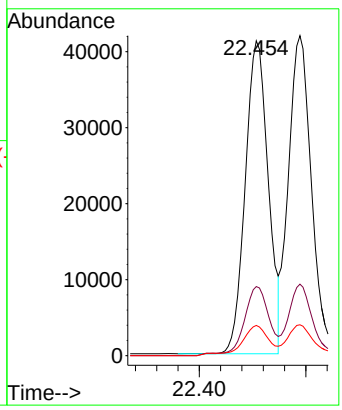


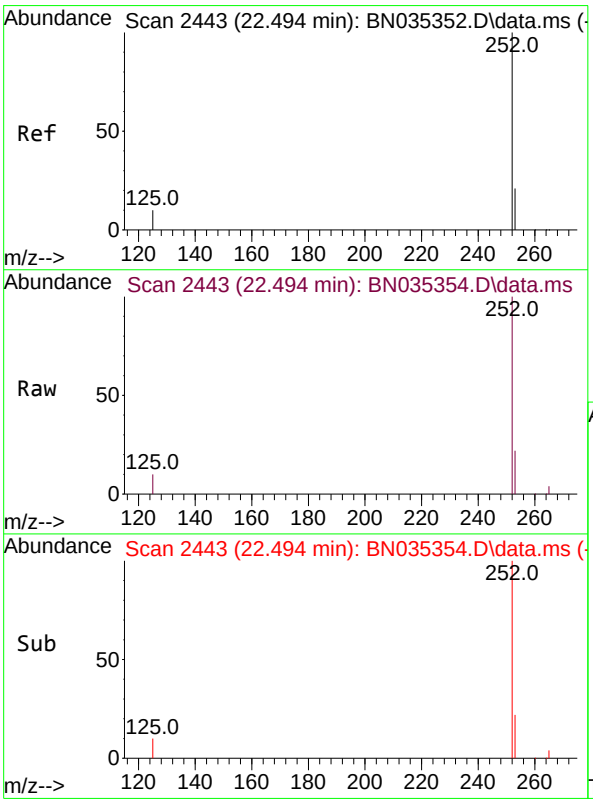
#37
Benzo(b)fluoranthene
Concen: 2.172 ng
RT: 22.454 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 76506

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.6	9.6	14.4

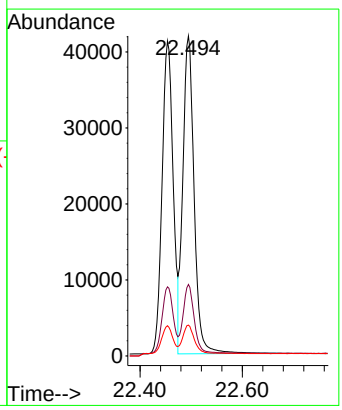


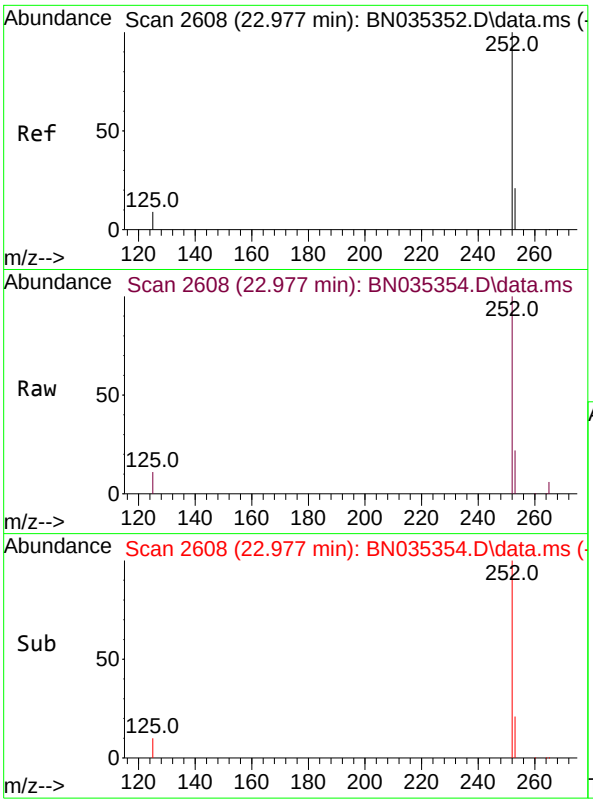


#38
Benzo(k)fluoranthene
Concen: 1.814 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:252 Resp: 63925

Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.5	29.3
125	9.7	10.2	15.4#



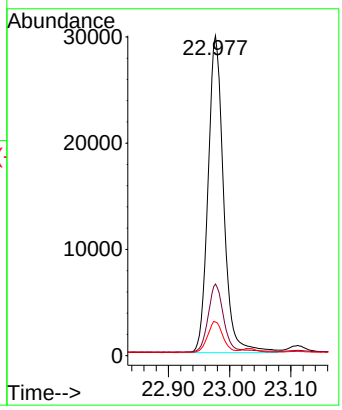


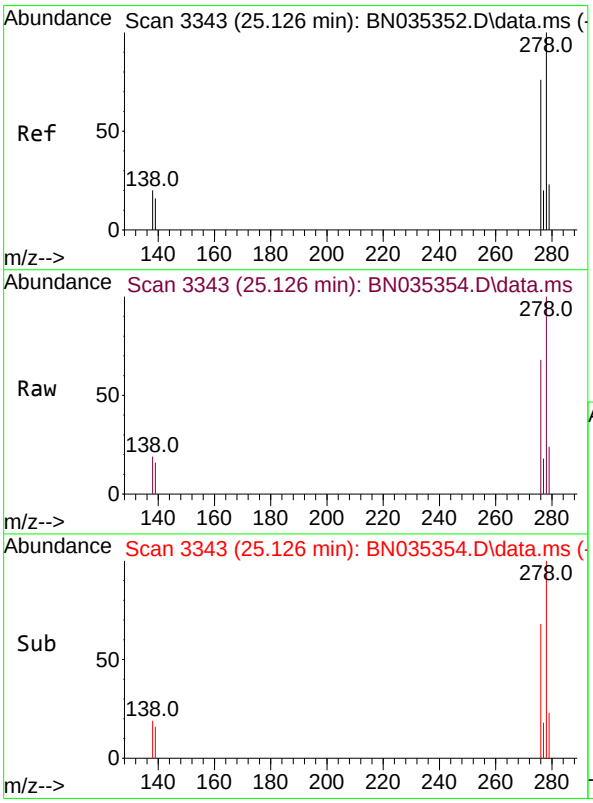
#39
Benzo(a)pyrene
Concen: 1.697 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 52595

Ion	Ratio	Lower	Upper
252	100		
253	22.4	20.2	30.4
125	10.5	10.9	16.3#

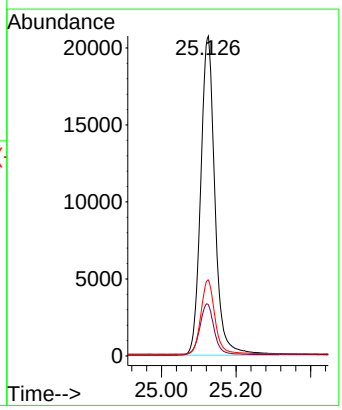


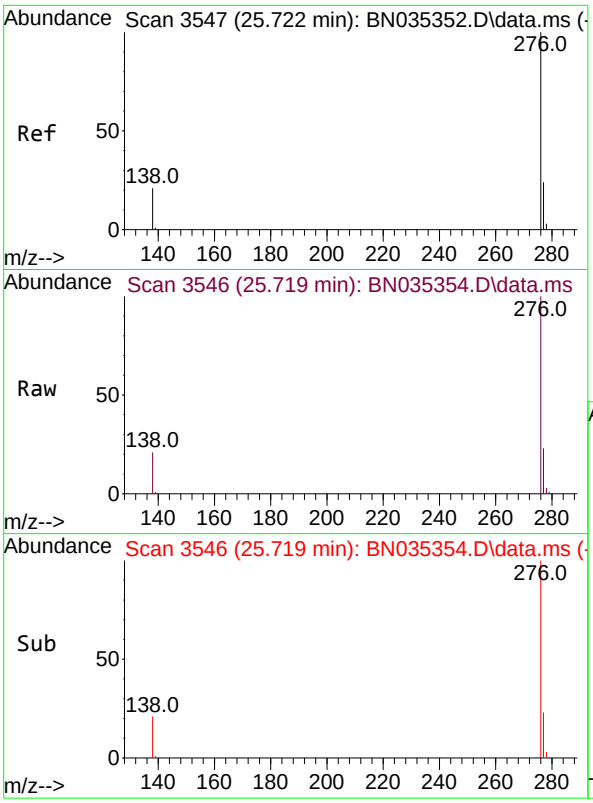


#40
Dibenzo(a,h)anthracene
Concen: 1.664 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:278 Resp: 55068

Ion	Ratio	Lower	Upper
278	100		
139	16.0	14.2	21.4
279	23.8	20.5	30.7



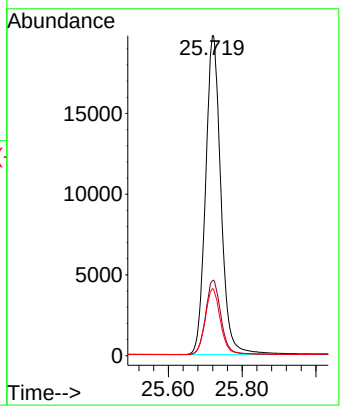


#41
Benzo(g,h,i)perylene
Concen: 1.618 ng
RT: 25.719 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 56947

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.9	29.9
138	20.9	17.8	26.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

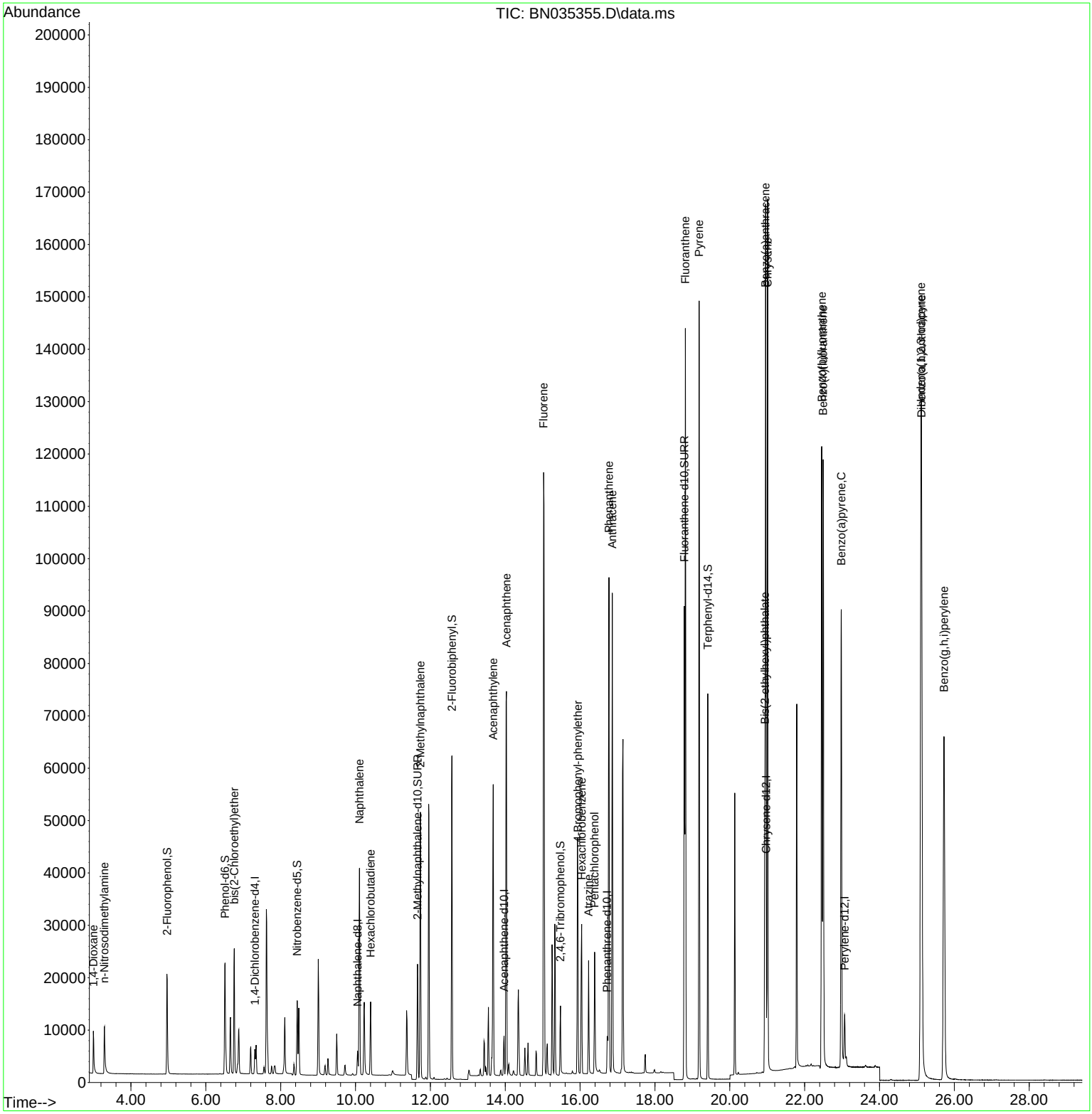
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	11206	0.400	ng		0.00
35) Perylene-d12	23.067	264	11643	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	16991	3.007	ng		0.00
5) Phenol-d6	6.513	99	21633	3.053	ng		0.00
8) Nitrobenzene-d5	8.440	82	11759	2.307	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	29957	2.870	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	10700	3.444	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	52048	2.976	ng		0.00
27) Fluoranthene-d10	18.785	212	95675	2.971	ng		0.00
31) Terphenyl-d14	19.412	244	69164	2.941	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	6360	3.146	ng		99
3) n-Nitrosodimethylamine	3.285	42	5524	2.932	ng	#	95
6) bis(2-Chloroethyl)ether	6.759	93	17762	3.339	ng		99
9) Naphthalene	10.105	128	49151	3.214	ng		97
10) Hexachlorobutadiene	10.404	225	11039	2.463	ng	#	100
12) 2-Methylnaphthalene	11.732	142	36121	3.202	ng		98
16) Acenaphthylene	13.679	152	60734	3.300	ng		99
17) Acenaphthene	14.031	154	38676	3.206	ng		99
18) Fluorene	15.026	166	55613	3.134	ng		99
21) 4-Bromophenyl-phenylether	15.941	248	20321	3.034	ng	#	93
22) Hexachlorobenzene	16.040	284	23349	3.359	ng		99
23) Atrazine	16.227	200	15072	2.508	ng		96
24) Pentachlorophenol	16.388	266	11439	3.522	ng		86
25) Phenanthrene	16.773	178	94243	3.406	ng		100
26) Anthracene	16.860	178	87657	3.449	ng		99
28) Fluoranthene	18.812	202	125901	3.309	ng		100
30) Pyrene	19.179	202	129105	3.460	ng		100
32) Benzo(a)anthracene	20.956	228	126517	3.242	ng		99
33) Chrysene	21.009	228	127439	3.297	ng		99
34) Bis(2-ethylhexyl)phtha...	20.938	149	46251	2.259	ng		99
36) Indeno(1,2,3-cd)pyrene	25.108	276	150433	3.239	ng		99
37) Benzo(b)fluoranthene	22.456	252	136261	3.478	ng	#	94
38) Benzo(k)fluoranthene	22.494	252	134789	3.439	ng	#	93
39) Benzo(a)pyrene	22.980	252	114719	3.328	ng	#	93
40) Dibenzo(a,h)anthracene	25.123	278	119216	3.240	ng		96
41) Benzo(g,h,i)perylene	25.722	276	123841	3.164	ng		97

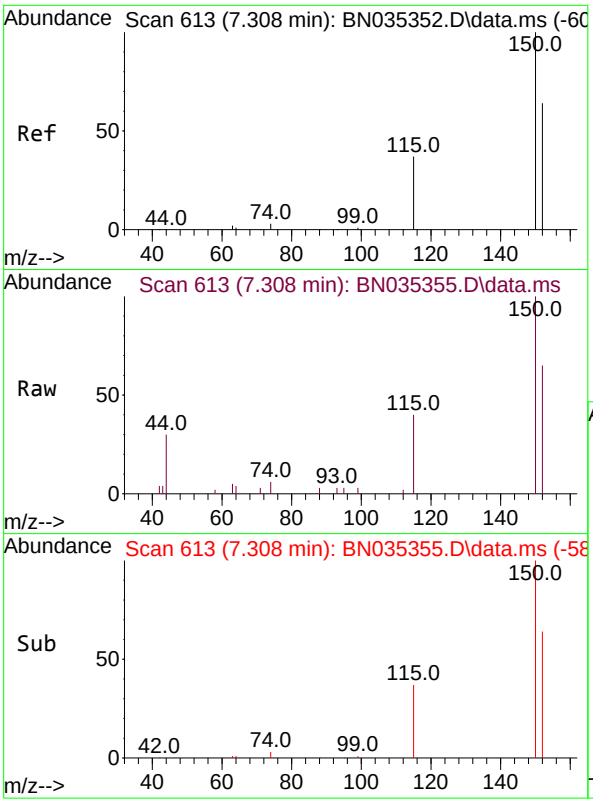
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



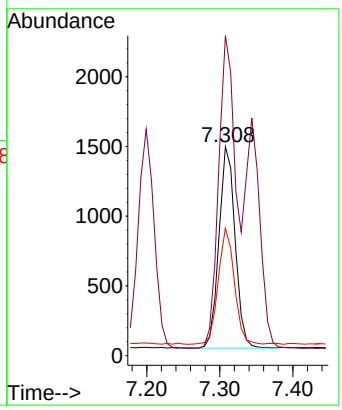


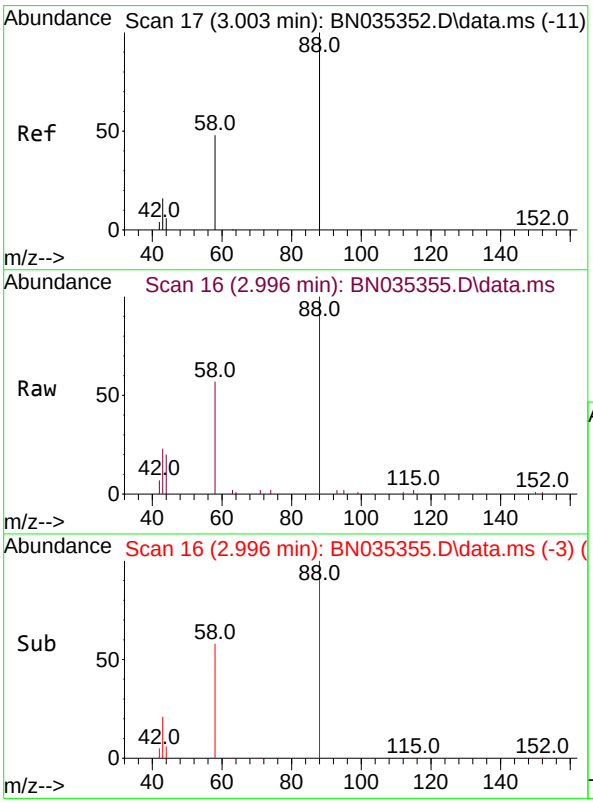
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2226

Ion	Ratio	Lower	Upper
152	100		
150	153.0	124.0	186.0
115	61.0	49.6	74.4

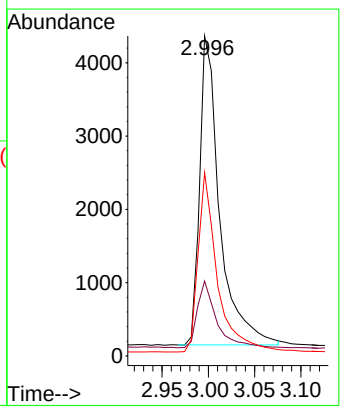


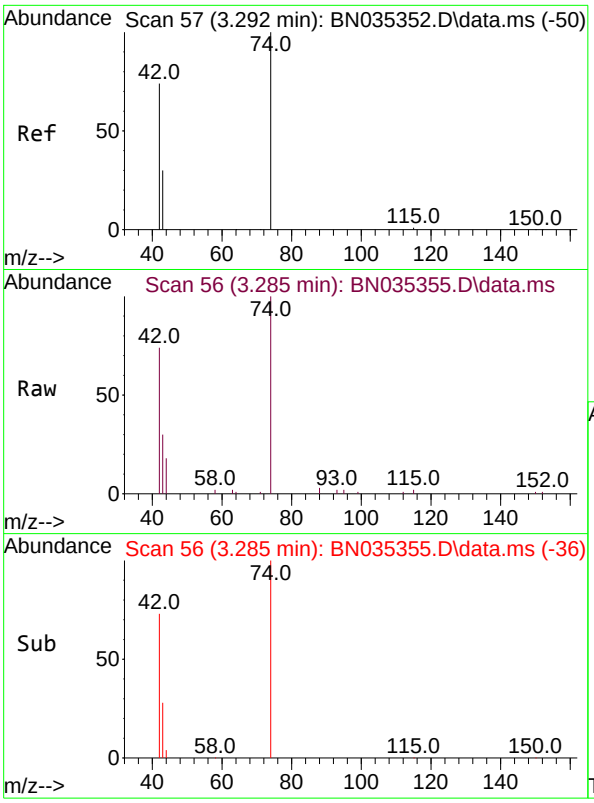


#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360

Ion	Ratio	Lower	Upper
88	100		
43	20.6	17.2	25.8
58	55.4	44.5	66.7



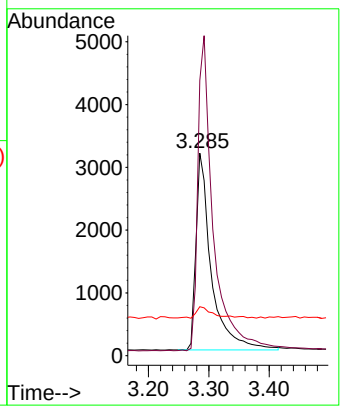


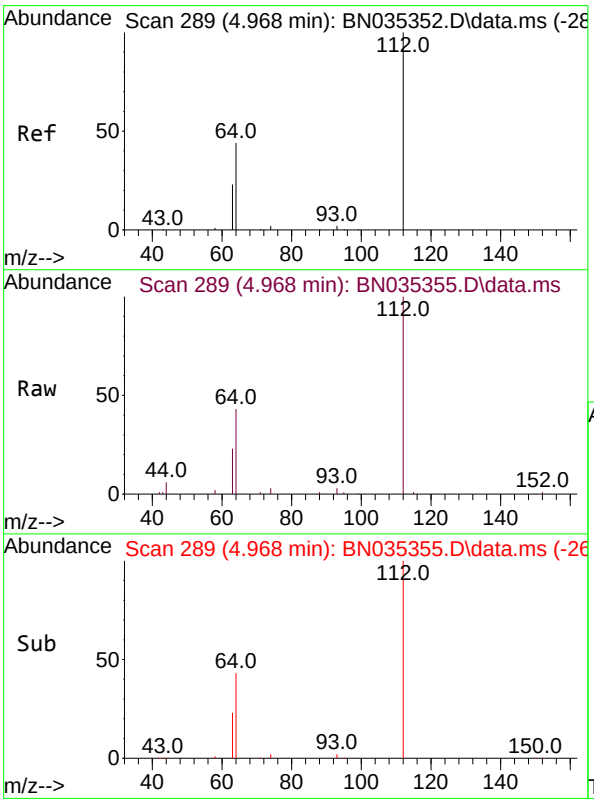
#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 5524

Ion	Ratio	Lower	Upper
42	100		
74	162.0	124.9	187.3
44	6.4	2.2	3.4#

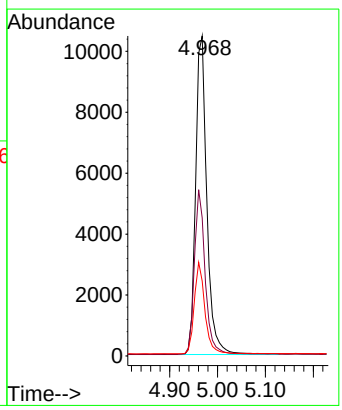


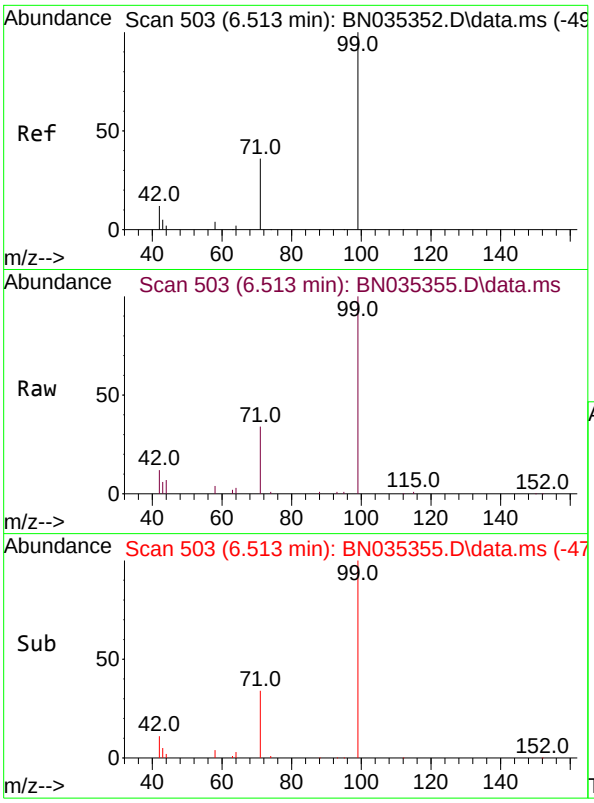


#4
2-Fluorophenol
Concen: 3.007 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:112 Resp: 16991

Ion	Ratio	Lower	Upper
112	100		
64	49.7	39.8	59.8
63	27.1	21.0	31.6



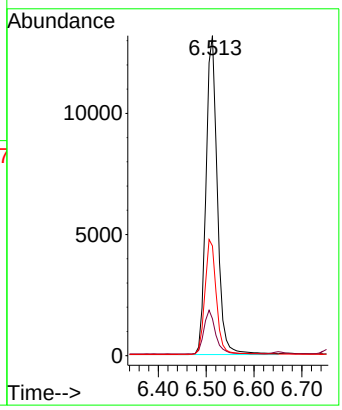


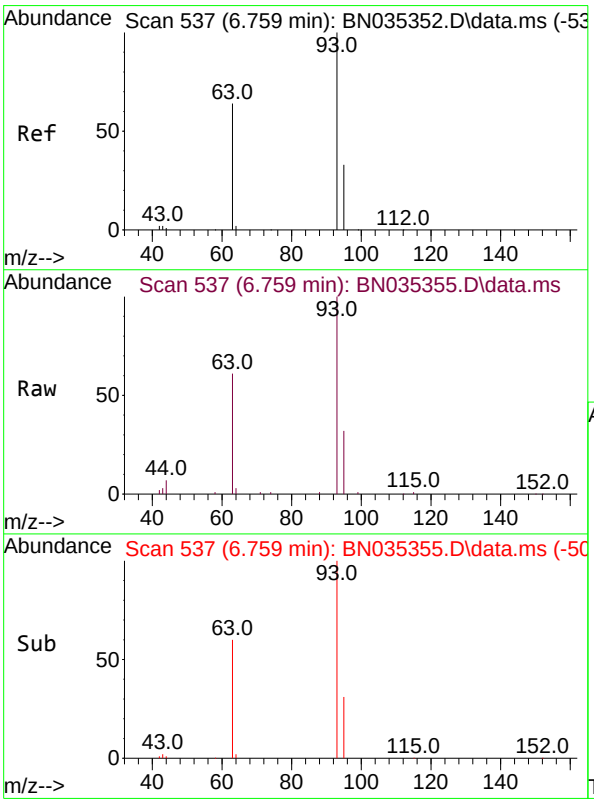
#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 21633

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.5	29.3	43.9

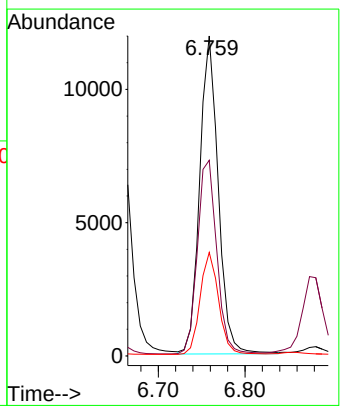


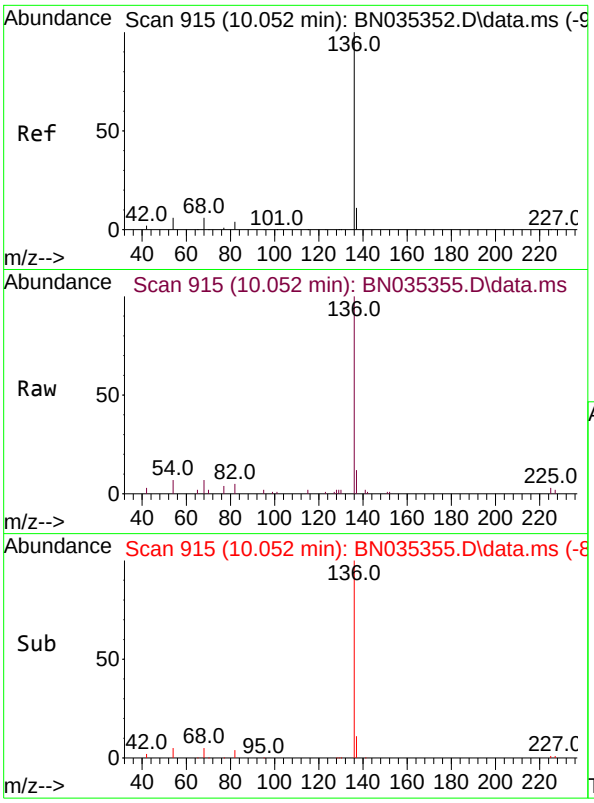


#6
bis(2-Chloroethyl)ether
Concen: 3.339 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 93 Resp: 17762

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	32.0	25.7	38.5



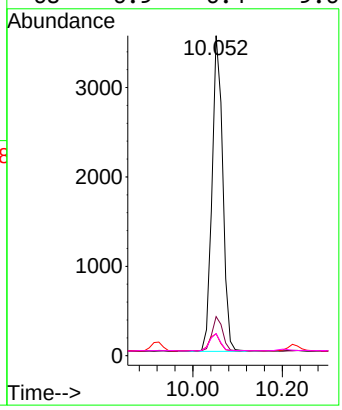


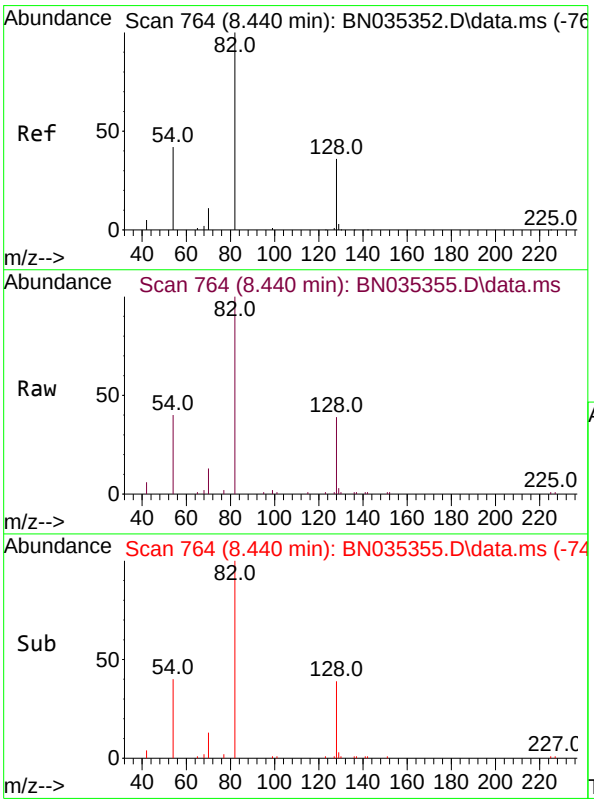
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5857

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	6.9	6.4	9.6

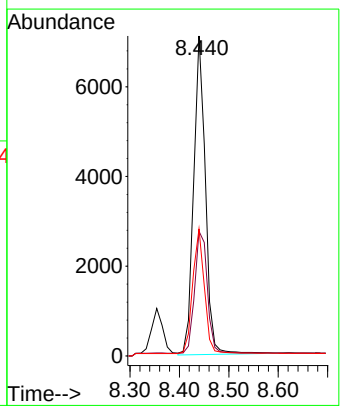


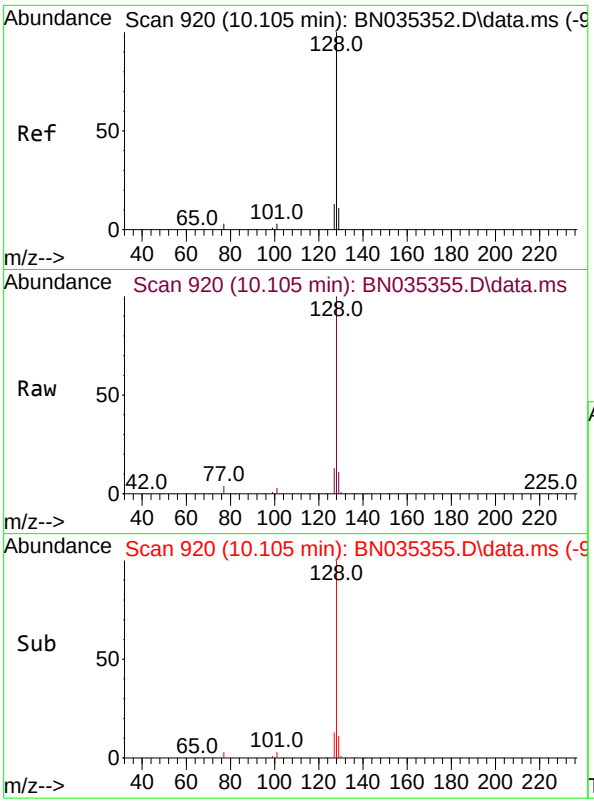


#8
Nitrobenzene-d5
Concen: 2.307 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 82 Resp: 11759

Ion	Ratio	Lower	Upper
82	100		
128	39.0	33.4	50.0
54	39.7	36.7	55.1



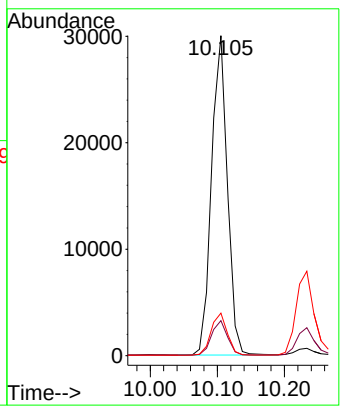


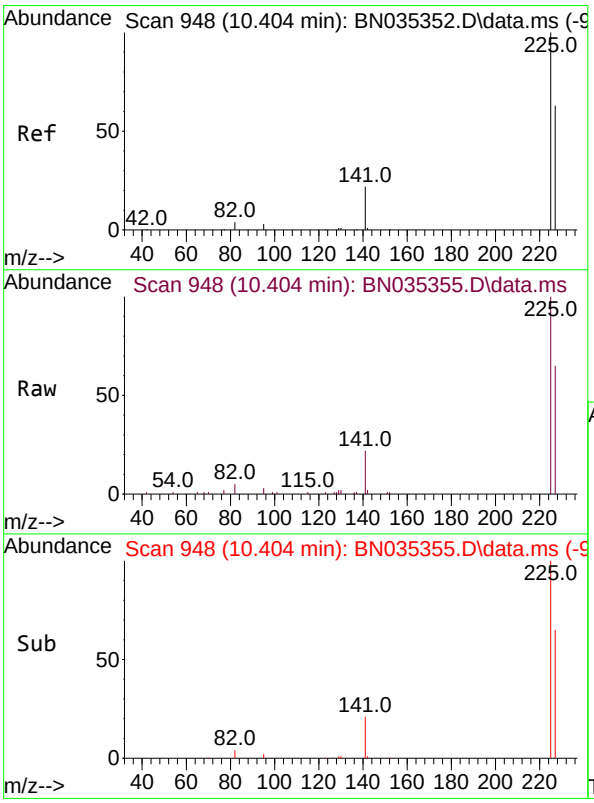
#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 49151

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.8	14.6
127	13.3	11.4	17.2

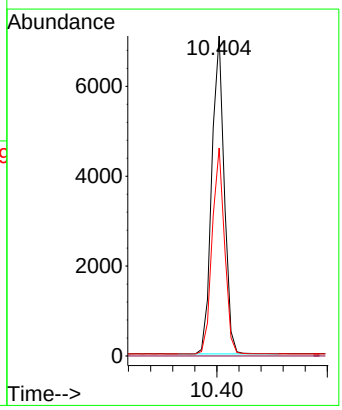


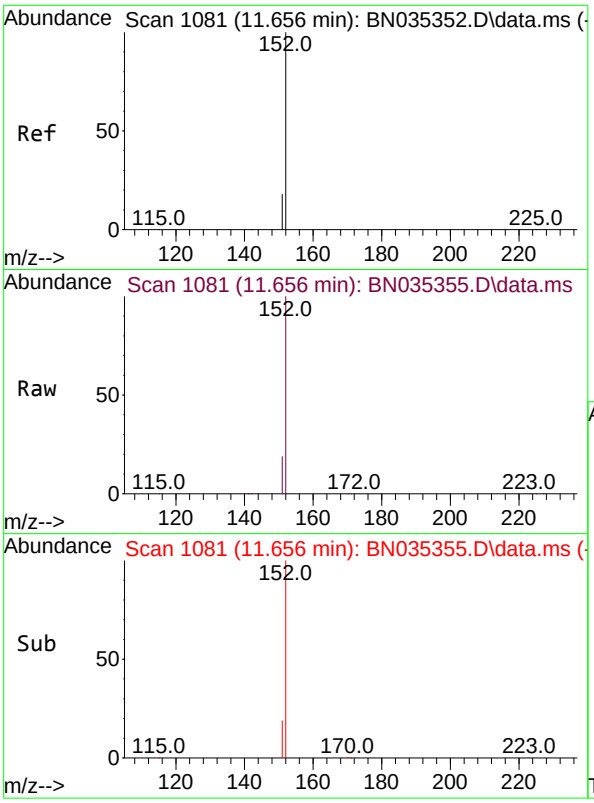


#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.3	76.9



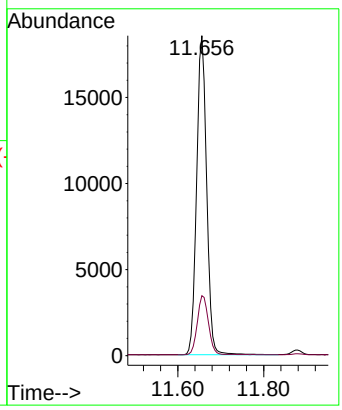


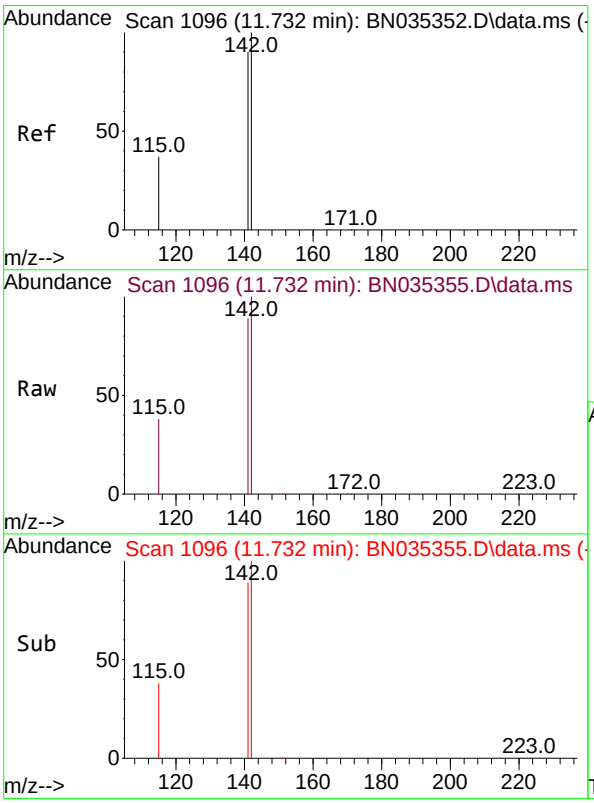
#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 29957

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

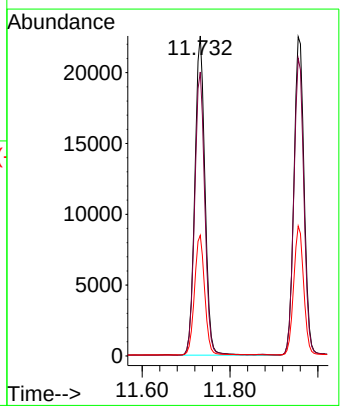


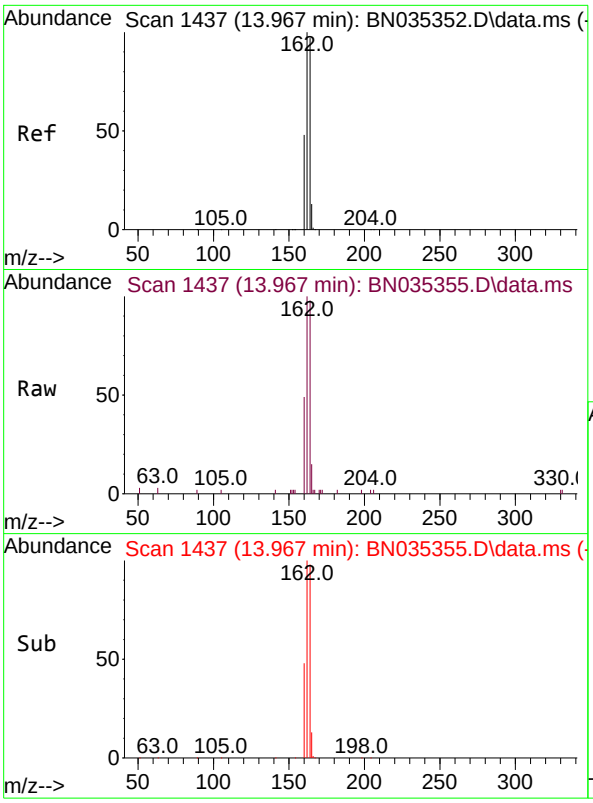


#12
2-Methylnaphthalene
Concen: 3.202 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121

Ion	Ratio	Lower	Upper
142	100		
141	88.7	72.2	108.4
115	37.7	31.4	47.0



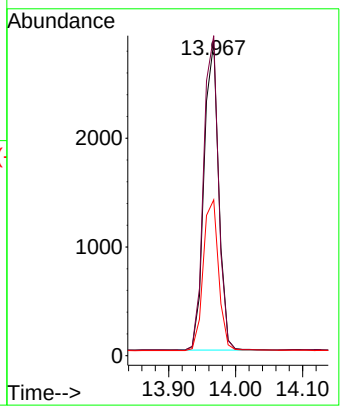


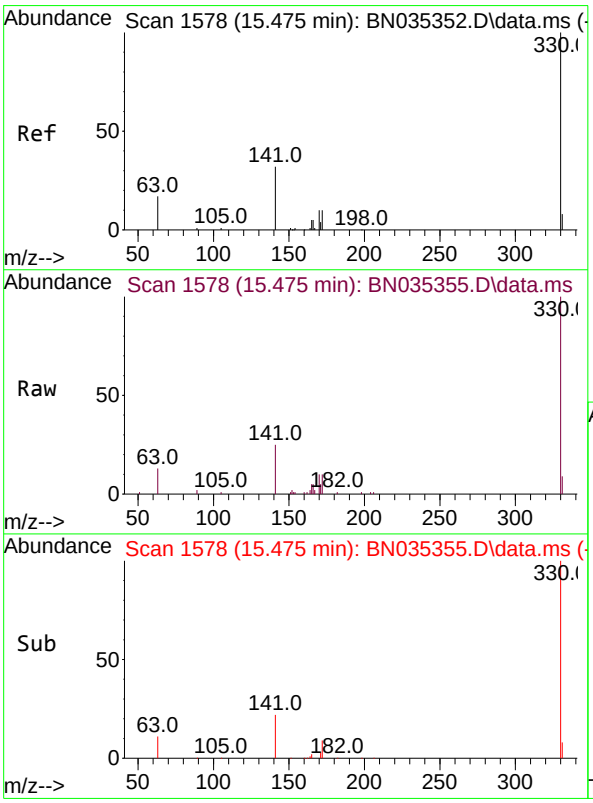
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 4307

Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.2	123.2
160	49.7	40.1	60.1

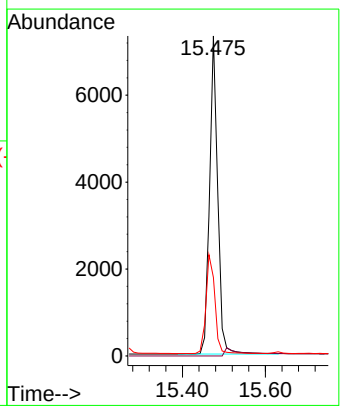


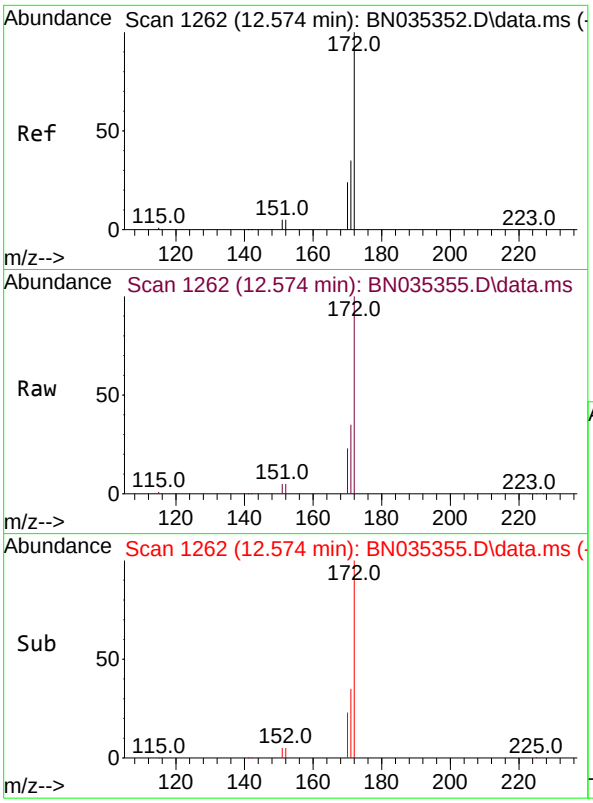


#14
2,4,6-Tribromophenol
Concen: 3.444 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:330 Resp: 10700

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.7	26.6	40.0



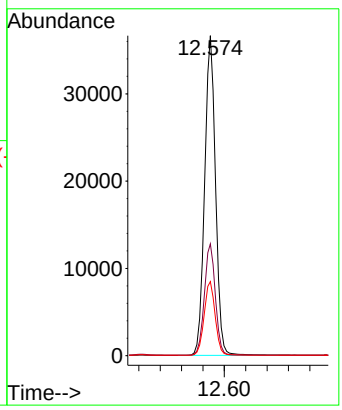


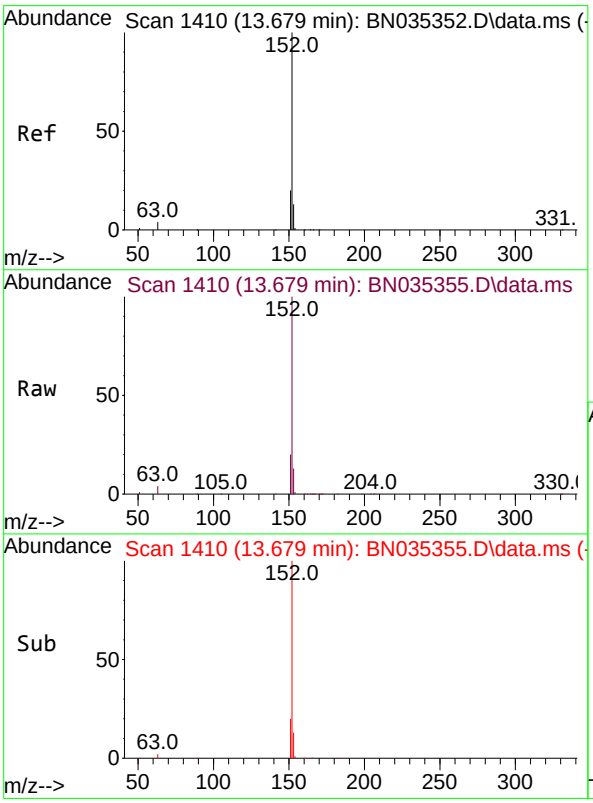
#15
2-Fluorobiphenyl
Concen: 2.976 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 52048

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.1	19.8	29.8

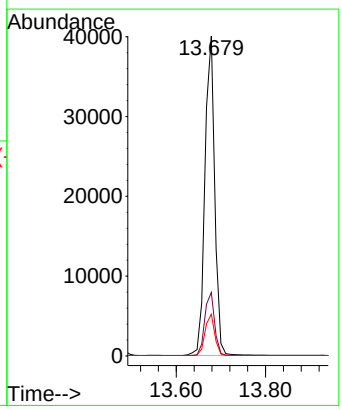


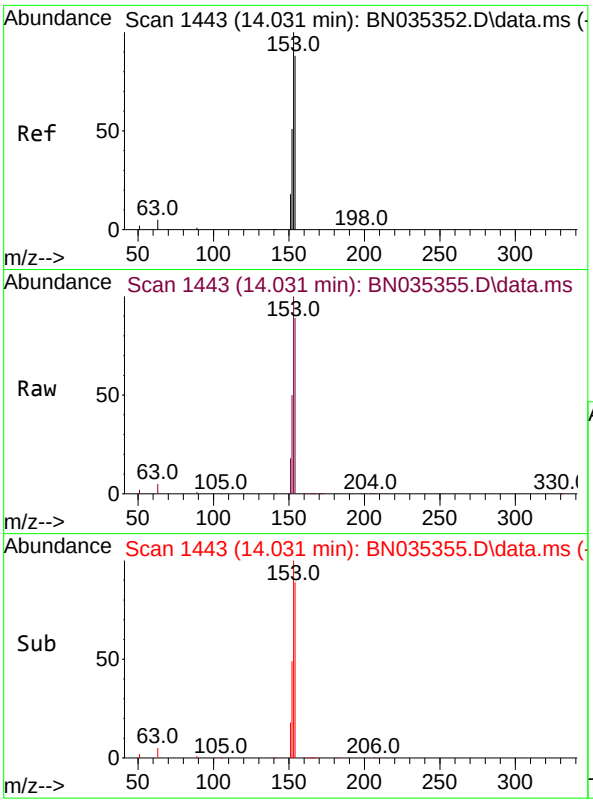


#16
Acenaphthylene
Concen: 3.300 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6



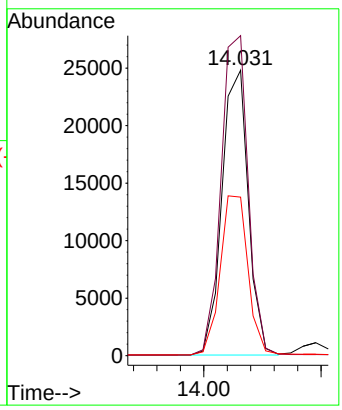


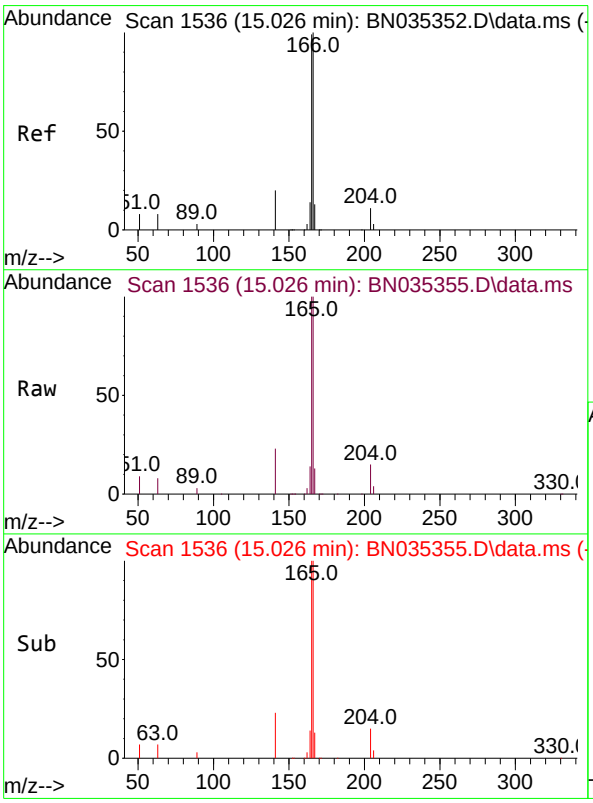
#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 38676

Ion	Ratio	Lower	Upper
154	100		
153	115.5	92.6	139.0
152	59.2	49.0	73.6

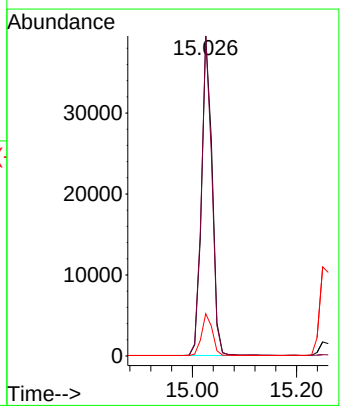


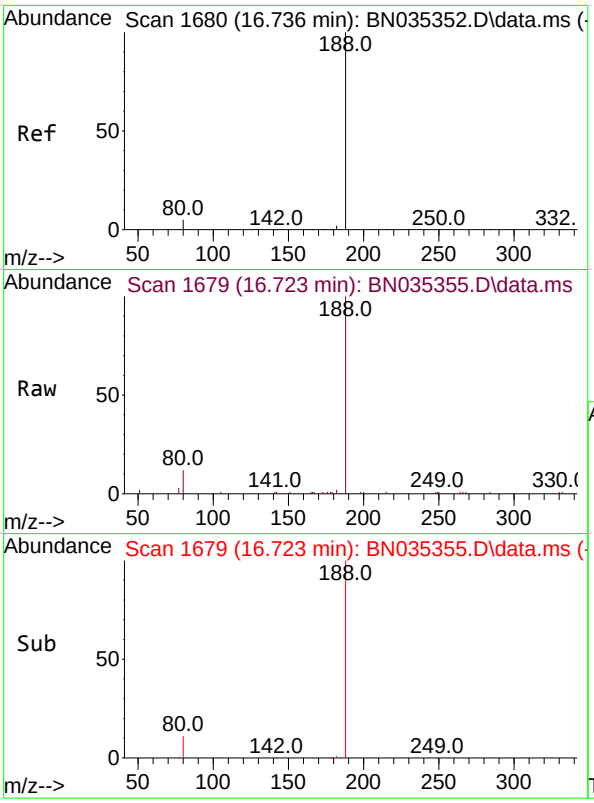


#18
Fluorene
Concen: 3.134 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:166 Resp: 55613

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.3	10.8	16.2



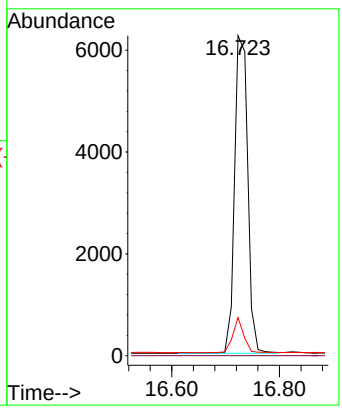


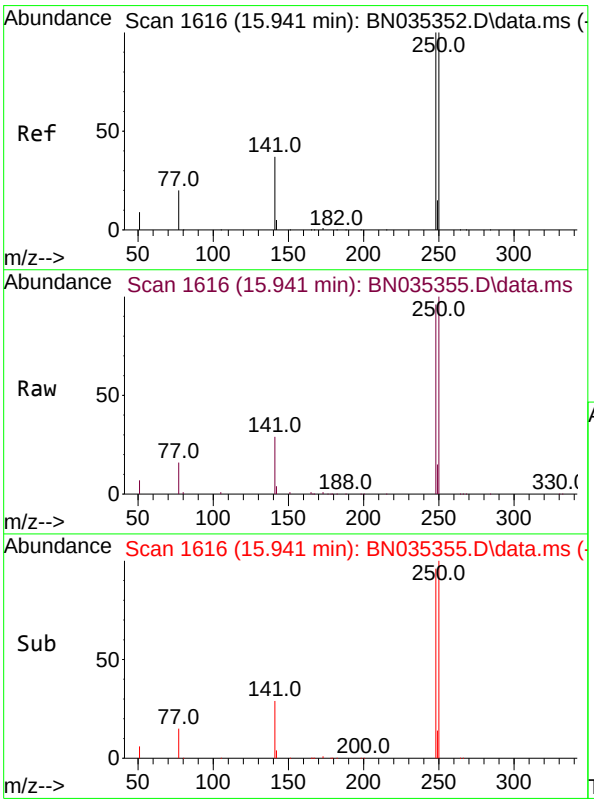
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 10513

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#

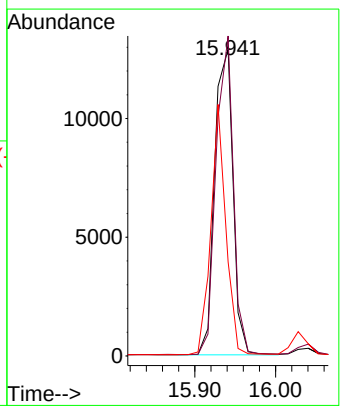


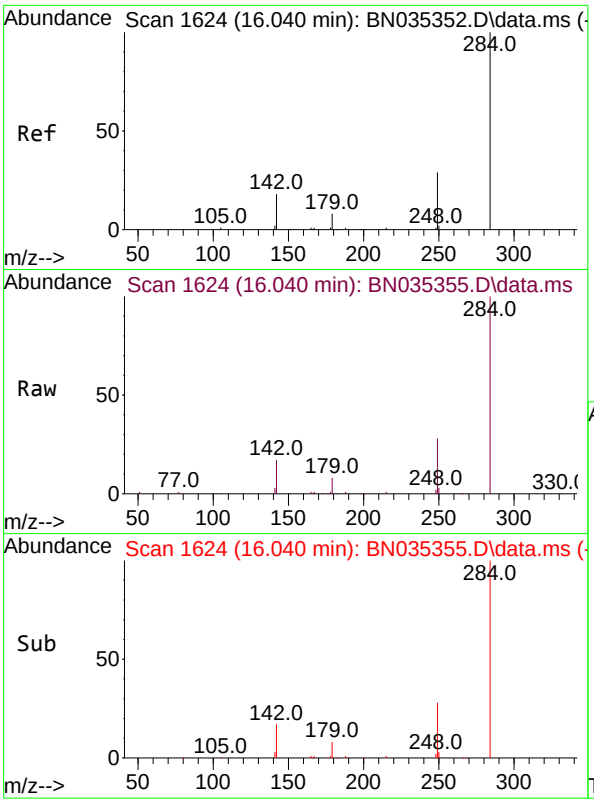


#21
4-Bromophenyl-phenylether
Concen: 3.034 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:248 Resp: 20321

Ion	Ratio	Lower	Upper
248	100		
250	104.3	80.6	120.8
141	30.7	31.5	47.3#



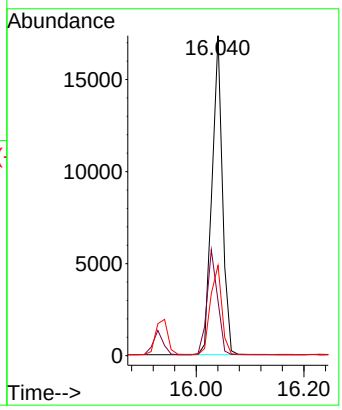


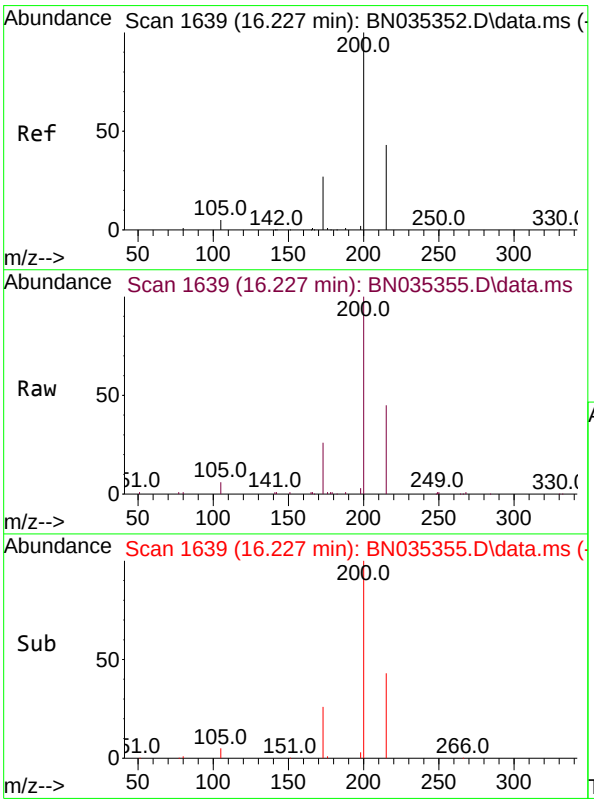
#22
Hexachlorobenzene
Concen: 3.359 ng
RT: 16.040 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:284 Resp: 23349

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.7	40.1
249	30.2	24.6	36.8

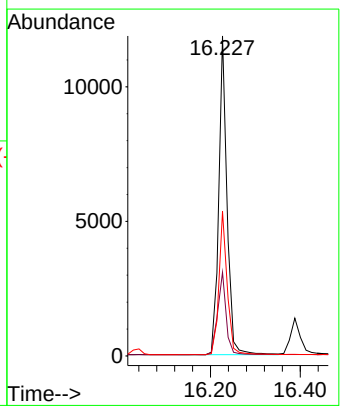


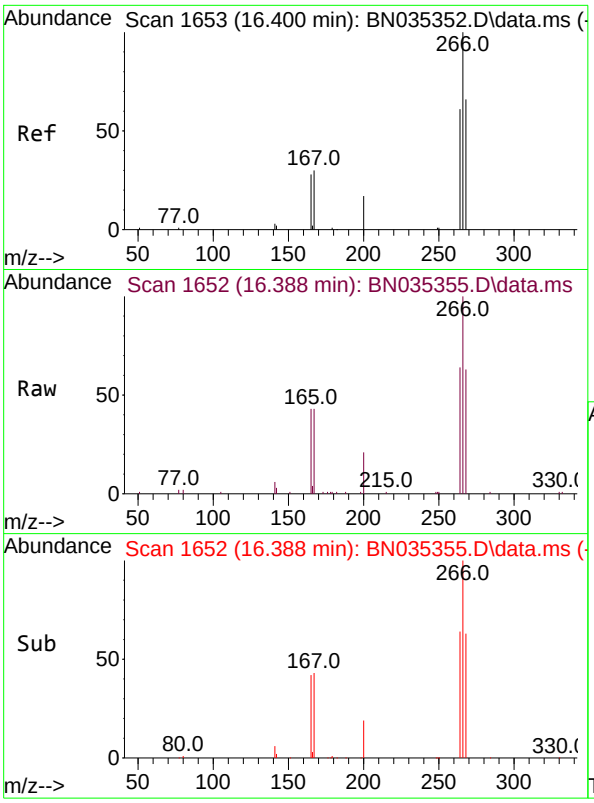


#23
Atrazine
Concen: 2.508 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:200 Resp: 15072

Ion	Ratio	Lower	Upper
200	100		
173	26.2	24.1	36.1
215	45.1	36.9	55.3



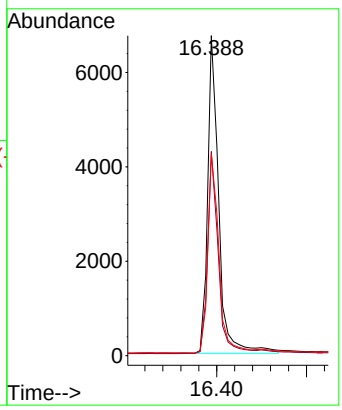


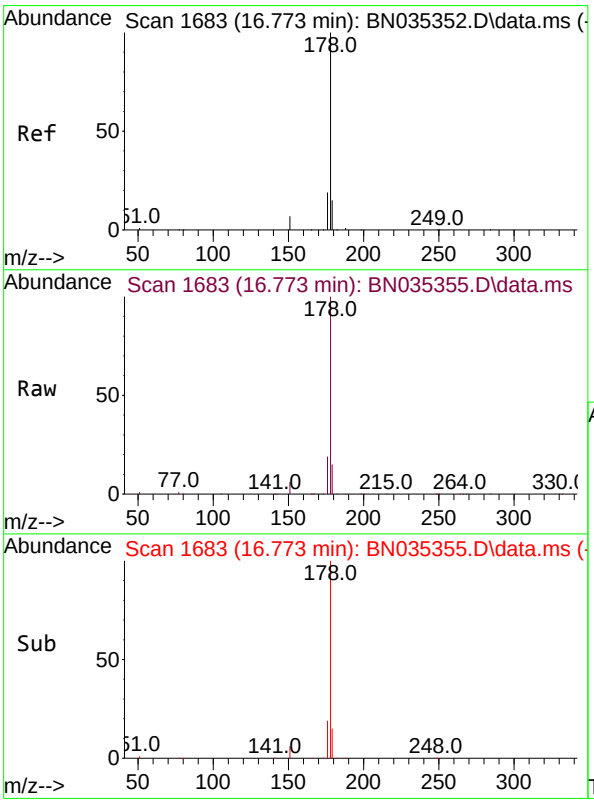
#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:266 Resp: 11439

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	64.4	43.3	64.9

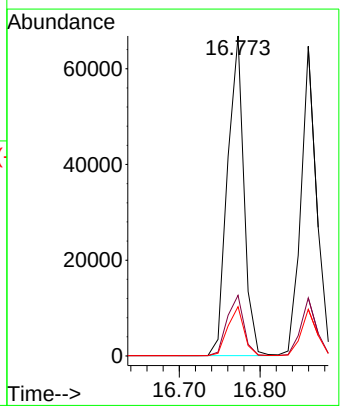


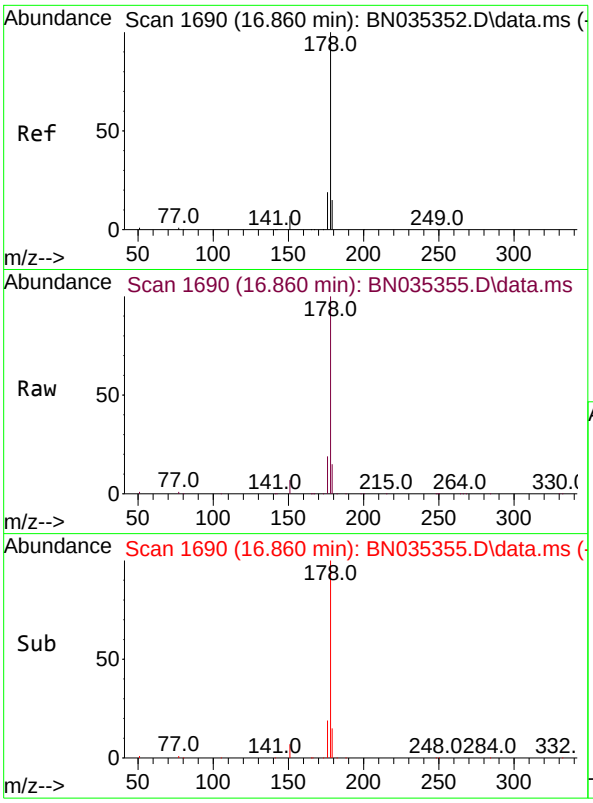


#25
Phenanthrene
Concen: 3.406 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:178 Resp: 94243

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.3	18.5



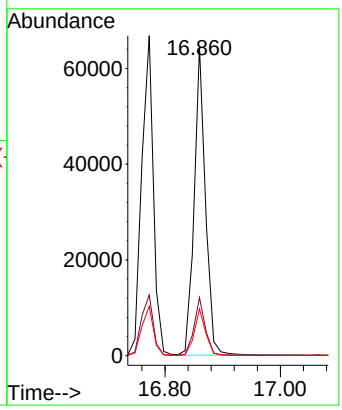


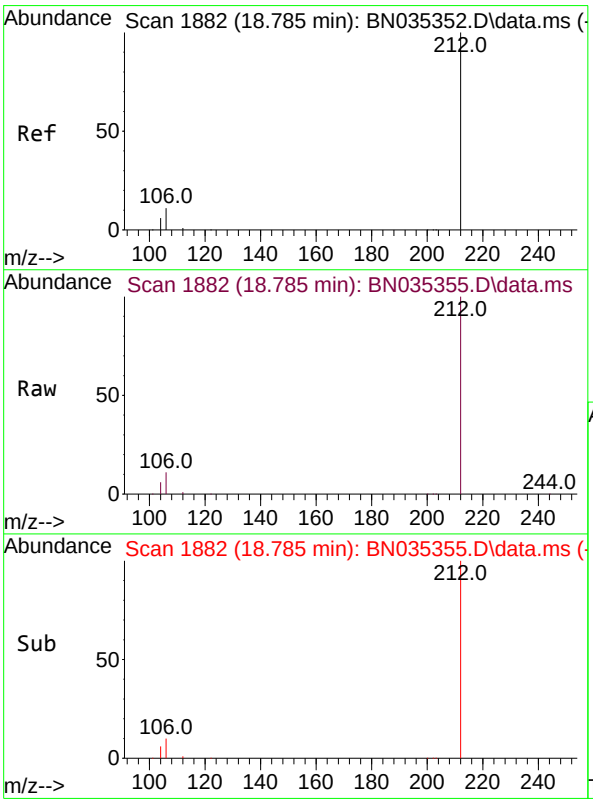
#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 87657

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.1	12.6	18.8

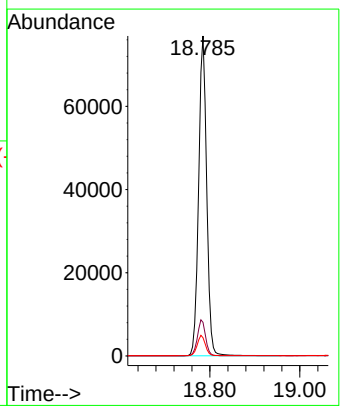


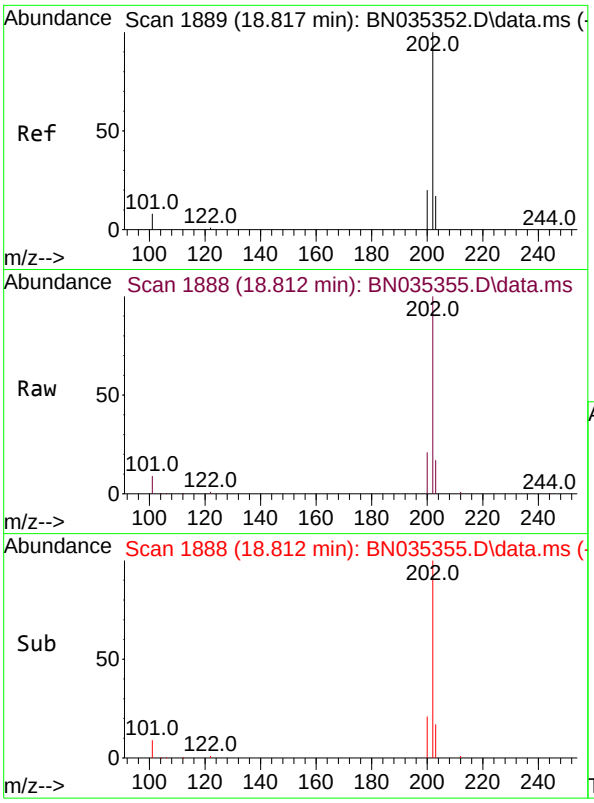


#27
Fluoranthene-d10
Concen: 2.971 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9



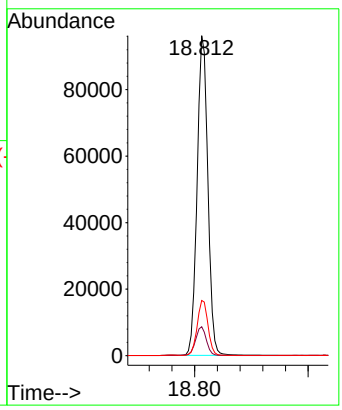


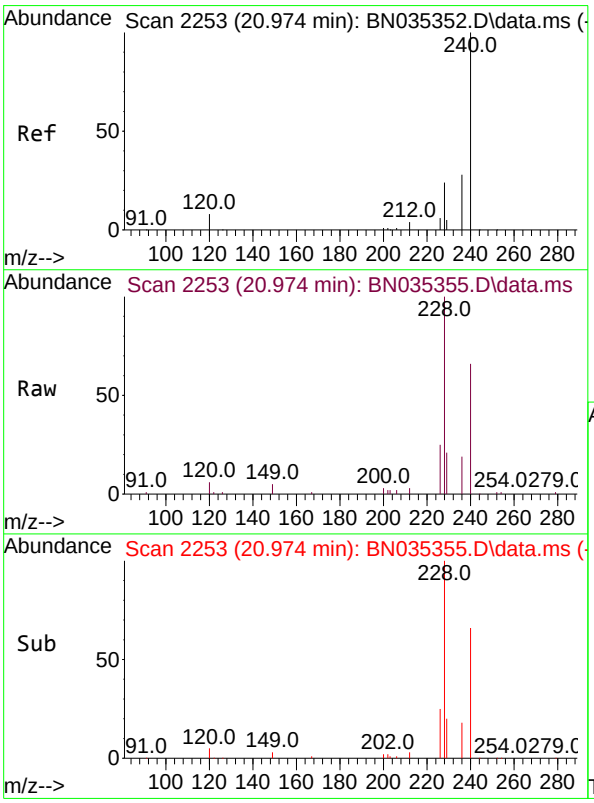
#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 125901

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.3	13.7	20.5

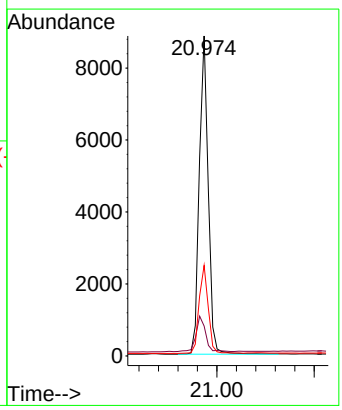


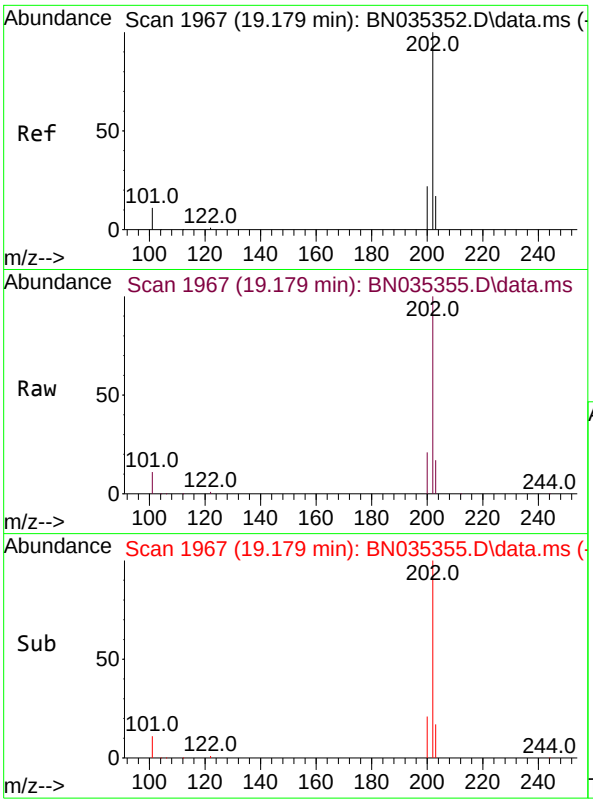


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:240 Resp: 11206

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.9	11.9
236	28.3	22.9	34.3



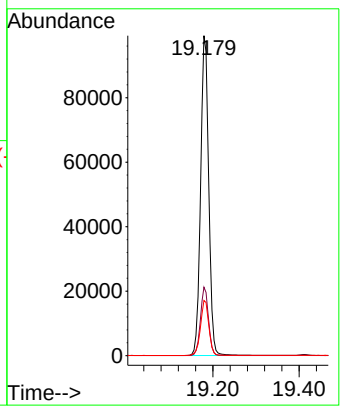


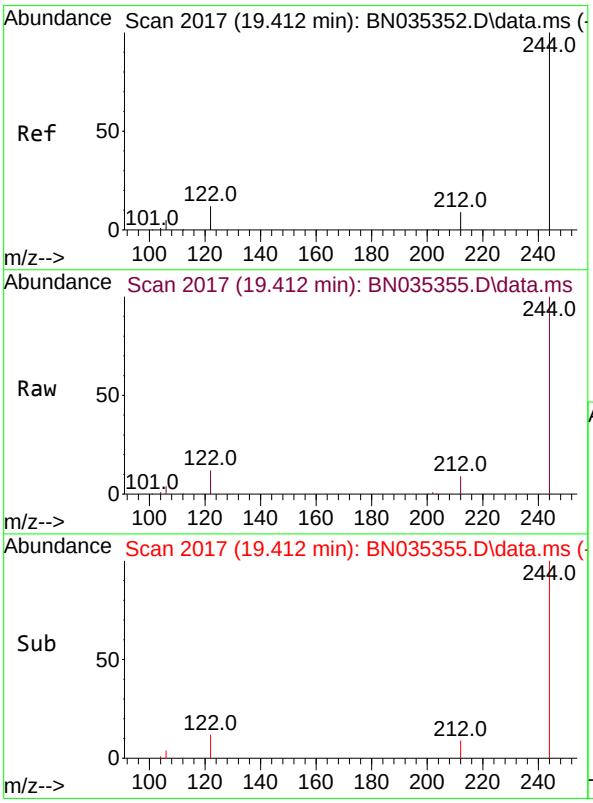
#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 129105

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

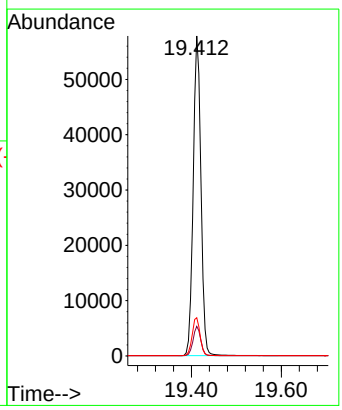


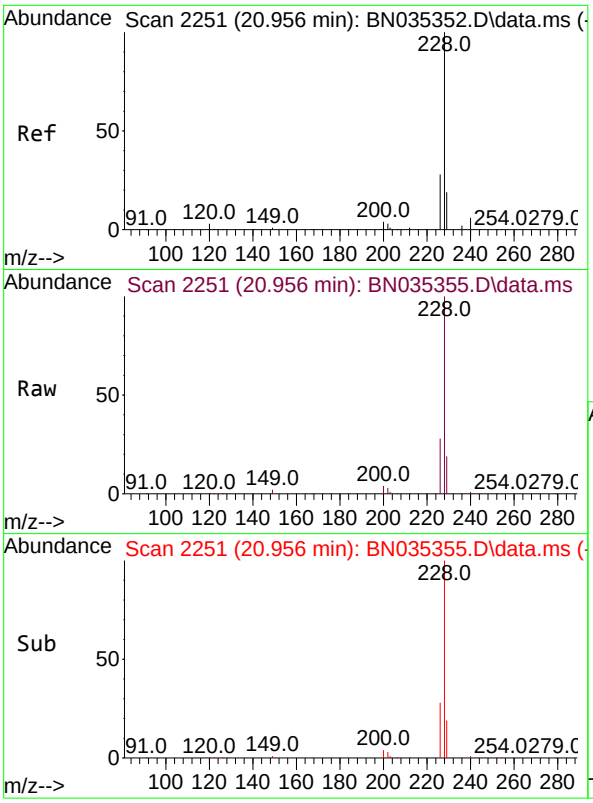


#31
Terphenyl-d14
Concen: 2.941 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:244 Resp: 69164

Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.0	10.3	15.5



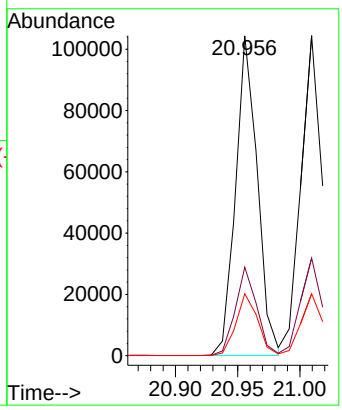


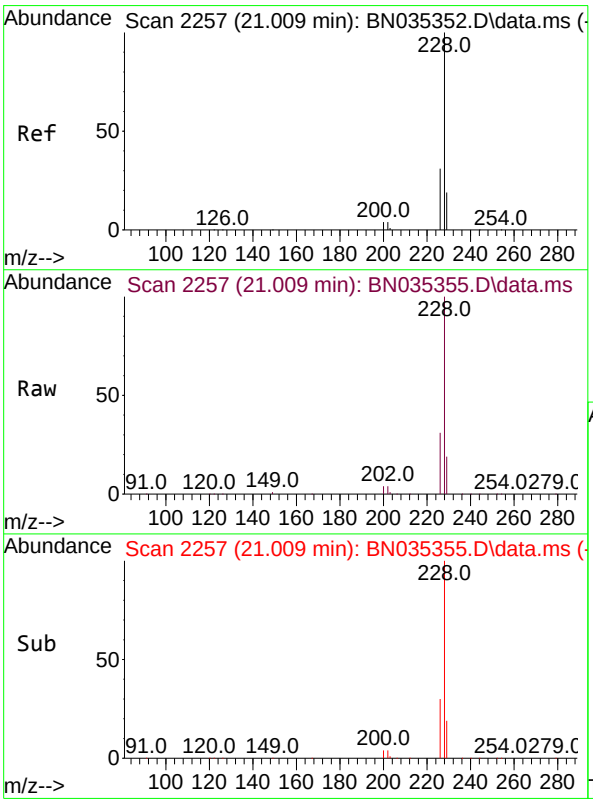
#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 126517

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	19.4	15.8	23.8

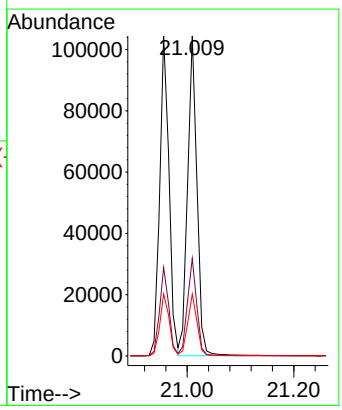


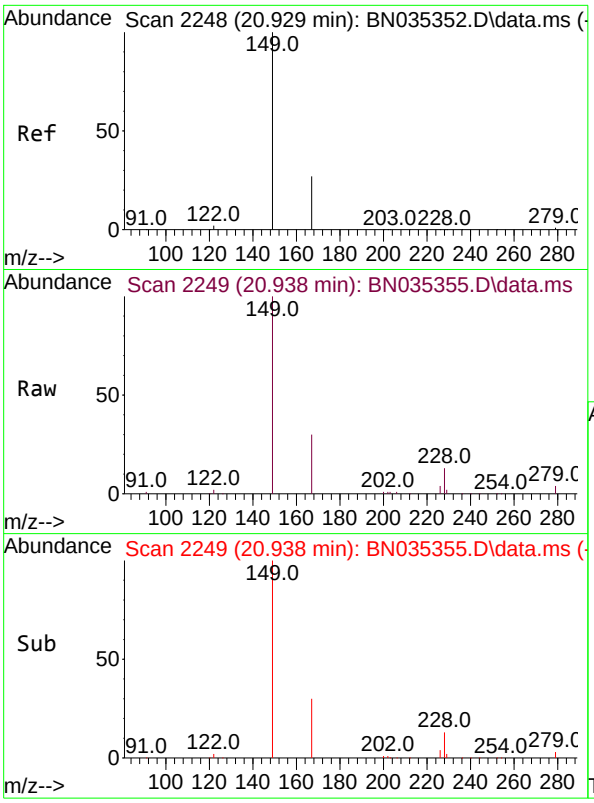


#33
Chrysene
Concen: 3.297 ng
RT: 21.009 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:228 Resp: 127439

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.4	15.9	23.9



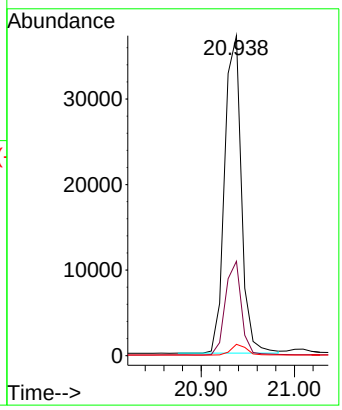


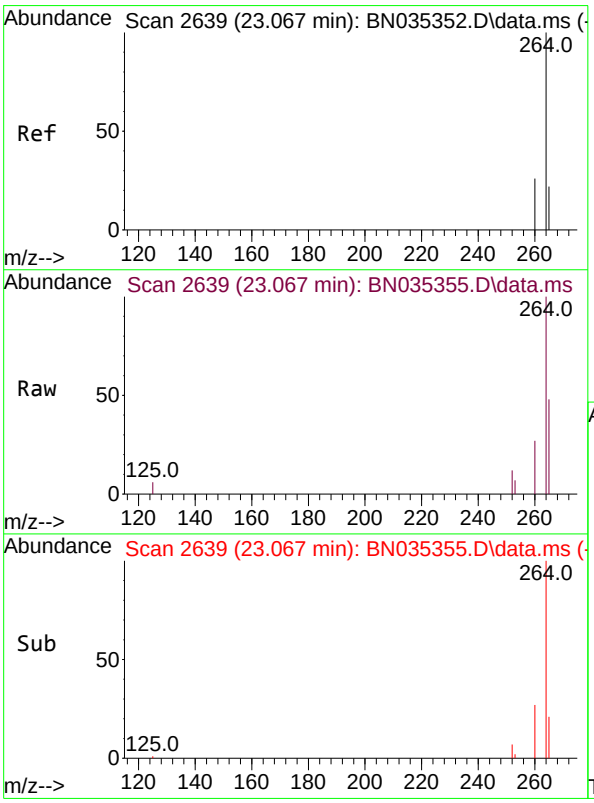
#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:149 Resp: 46251

Ion	Ratio	Lower	Upper
149	100		
167	28.3	22.2	33.4
279	3.2	2.7	4.1

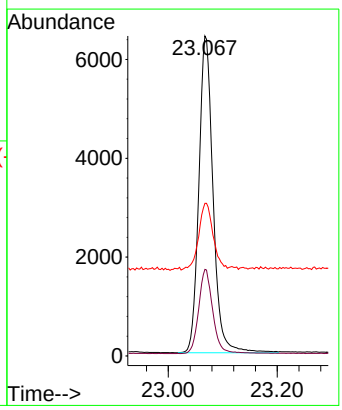


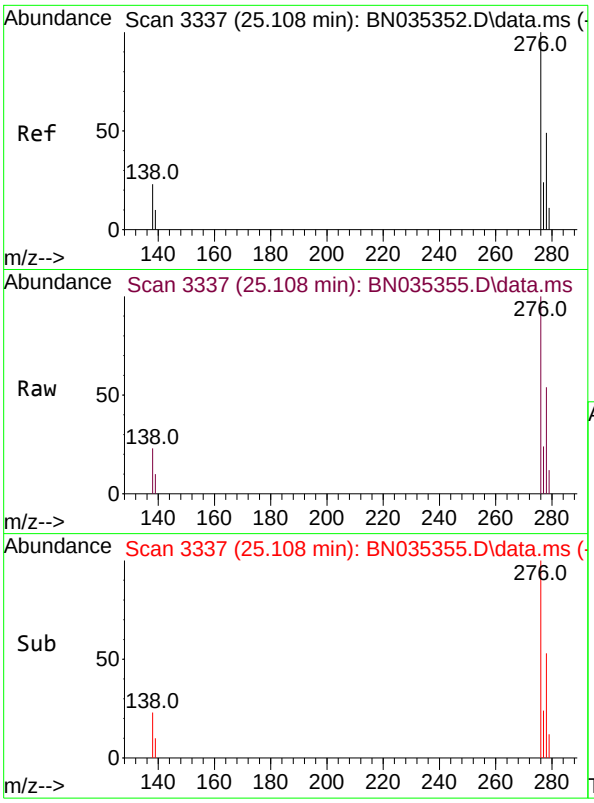


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:264 Resp: 11643

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	47.7	40.2	60.4



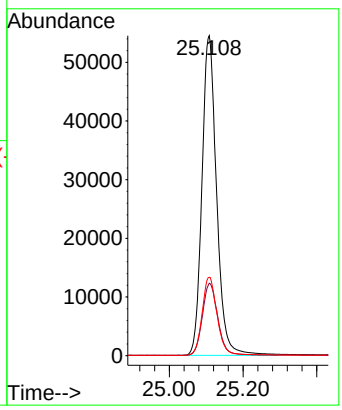


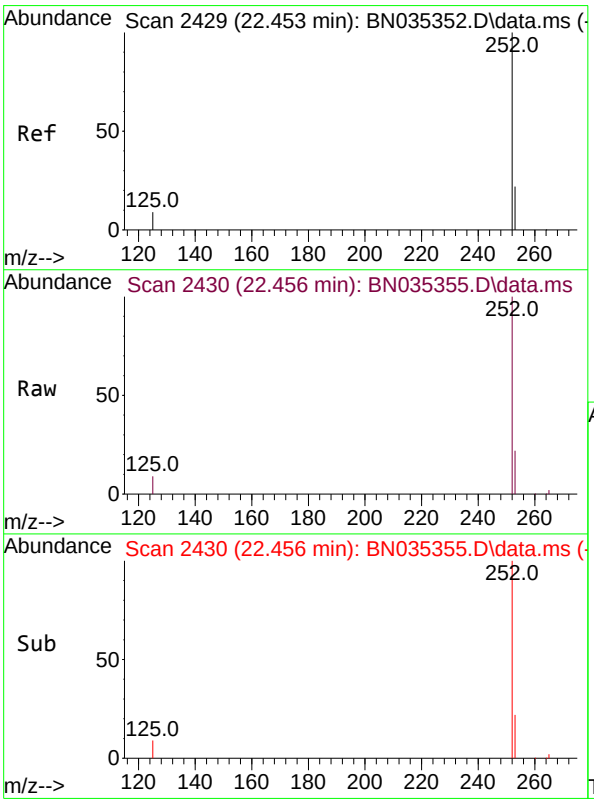
#36
Indeno(1,2,3-cd)pyrene
Concen: 3.239 ng
RT: 25.108 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 150433

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.9	19.8	29.6

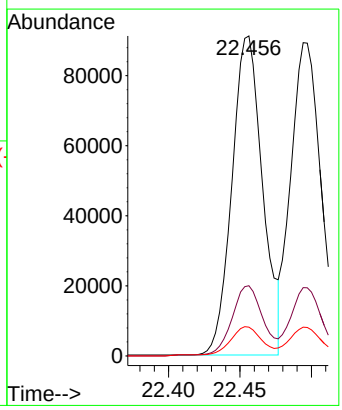


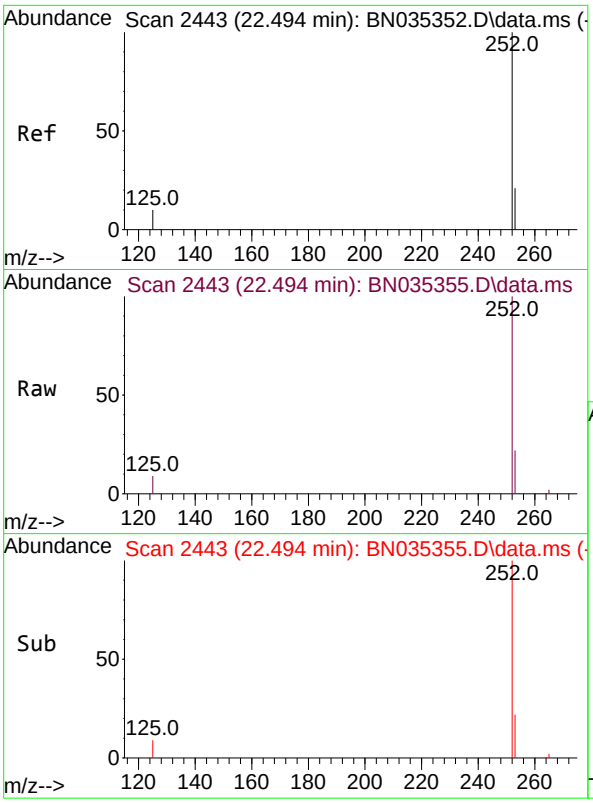


#37
Benzo(b)fluoranthene
Concen: 3.478 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 136261

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



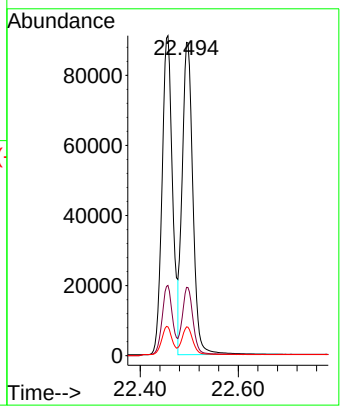


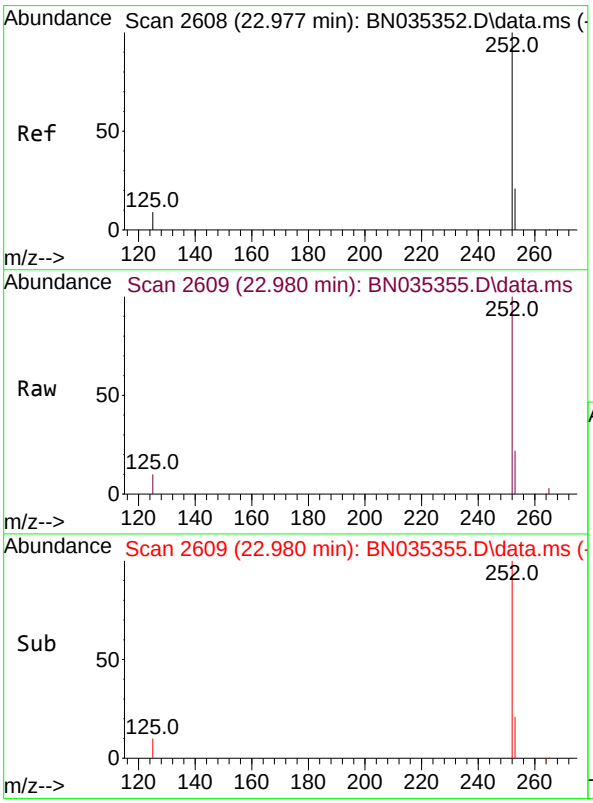
#38
Benzo(k)fluoranthene
Concen: 3.439 ng
RT: 22.494 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 134789

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.5	29.3
125	9.2	10.2	15.4#

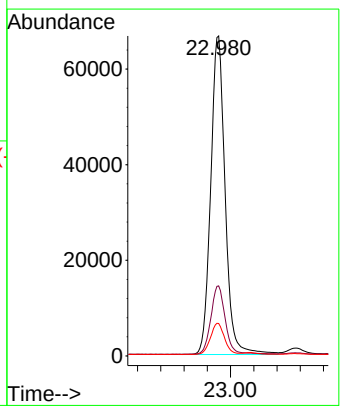


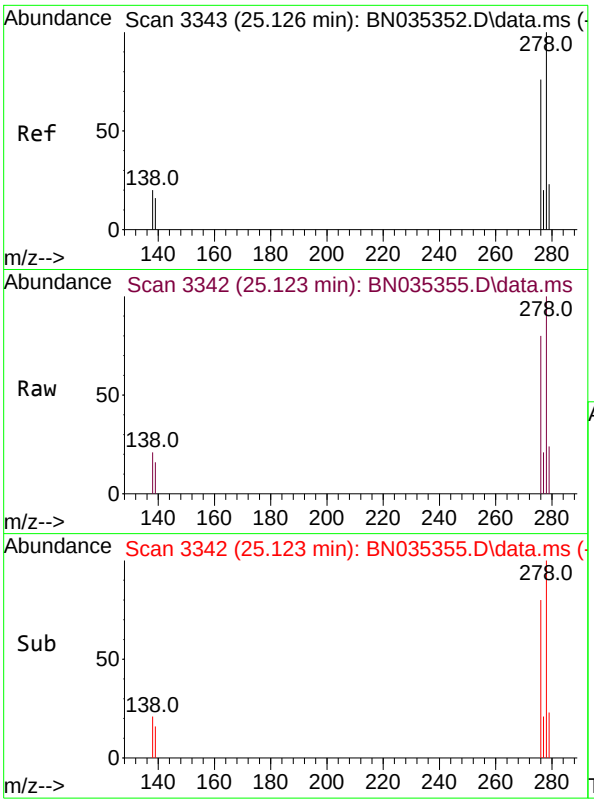


#39
Benzo(a)pyrene
Concen: 3.328 ng
RT: 22.980 min Scan# 2609
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 114719

Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.2	30.4
125	10.1	10.9	16.3#



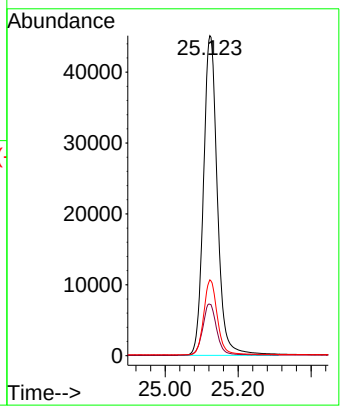


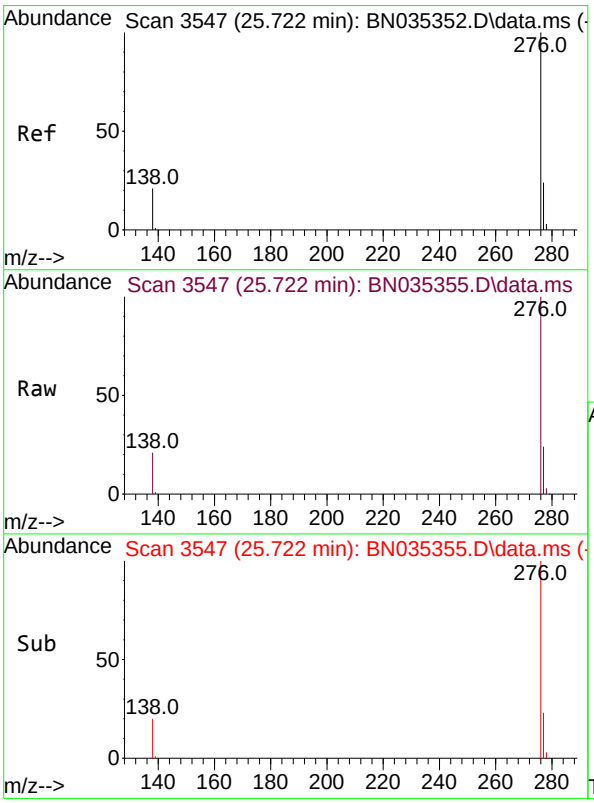
#40
Dibenzo(a,h)anthracene
Concen: 3.240 ng
RT: 25.123 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:278 Resp: 119216

Ion	Ratio	Lower	Upper
278	100		
139	16.1	14.2	21.4
279	23.7	20.5	30.7

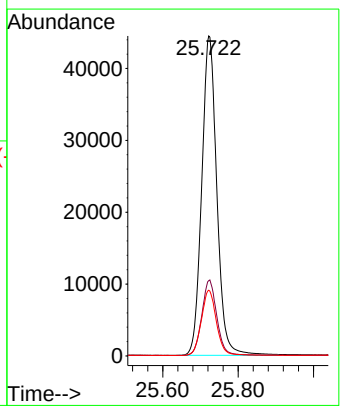




#41
Benzo(g,h,i)perylene
Concen: 3.164 ng
RT: 25.722 min Scan# 3547
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:276 Resp: 123841

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.9	29.9
138	20.6	17.8	26.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

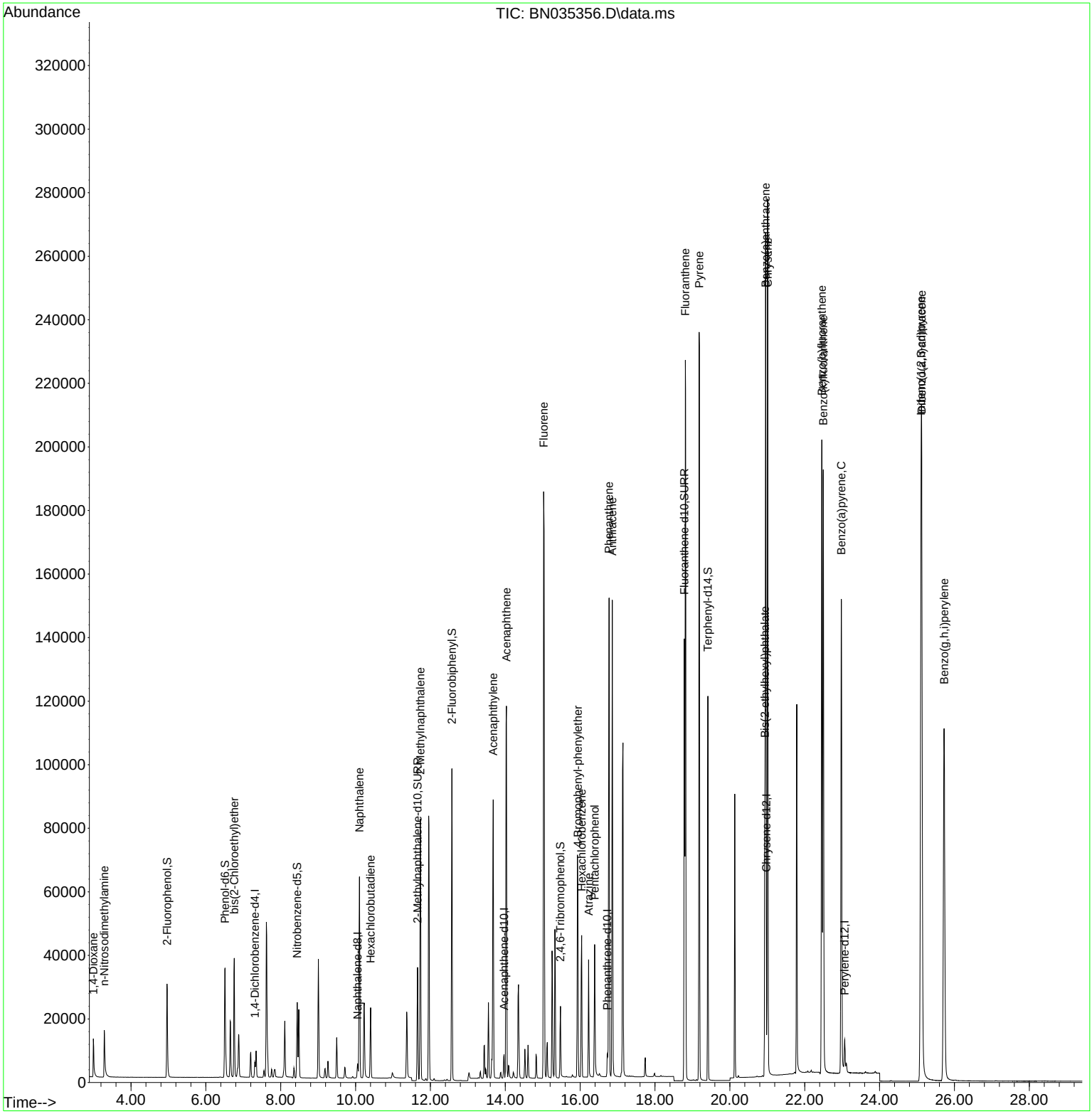
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	11520	0.400	ng		0.00
35) Perylene-d12	23.067	264	12000	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	26472	4.637	ng		0.00
5) Phenol-d6	6.513	99	34560	4.828	ng		0.00
8) Nitrobenzene-d5	8.440	82	18911	3.741	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	47612	4.601	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	17905	5.689	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	82401	4.650	ng		0.00
27) Fluoranthene-d10	18.785	212	152416	4.748	ng		0.00
31) Terphenyl-d14	19.412	244	110737	4.581	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	9786	4.790	ng		99
3) n-Nitrosodimethylamine	3.285	42	8681	4.560	ng	#	96
6) bis(2-Chloroethyl)ether	6.759	93	27872	5.187	ng		99
9) Naphthalene	10.105	128	77668	5.123	ng		97
10) Hexachlorobutadiene	10.404	225	17273	3.887	ng	#	100
12) 2-Methylnaphthalene	11.732	142	57698	5.158	ng		98
16) Acenaphthylene	13.679	152	97129	5.209	ng		99
17) Acenaphthene	14.031	154	62170	5.088	ng		98
18) Fluorene	15.026	166	88648	4.932	ng		99
21) 4-Bromophenyl-phenylether	15.941	248	31947	4.785	ng	#	94
22) Hexachlorobenzene	16.040	284	36315	5.241	ng		100
23) Atrazine	16.227	200	25034	4.179	ng		96
24) Pentachlorophenol	16.388	266	19691	6.083	ng		86
25) Phenanthrene	16.773	178	147357	5.343	ng		100
26) Anthracene	16.860	178	139399	5.503	ng		99
28) Fluoranthene	18.812	202	199850	5.270	ng		99
30) Pyrene	19.179	202	206018	5.370	ng		100
32) Benzo(a)anthracene	20.956	228	205712	5.128	ng		99
33) Chrysene	21.009	228	204475	5.146	ng		99
34) Bis(2-ethylhexyl)phtha...	20.938	149	78322	3.721	ng		99
36) Indeno(1,2,3-cd)pyrene	25.108	276	252709	5.279	ng		99
37) Benzo(b)fluoranthene	22.456	252	241201	5.974	ng	#	94
38) Benzo(k)fluoranthene	22.497	252	220146	5.449	ng	#	93
39) Benzo(a)pyrene	22.977	252	190665	5.367	ng	#	92
40) Dibenzo(a,h)anthracene	25.126	278	199852	5.269	ng		96
41) Benzo(g,h,i)perylene	25.725	276	209119	5.183	ng		97

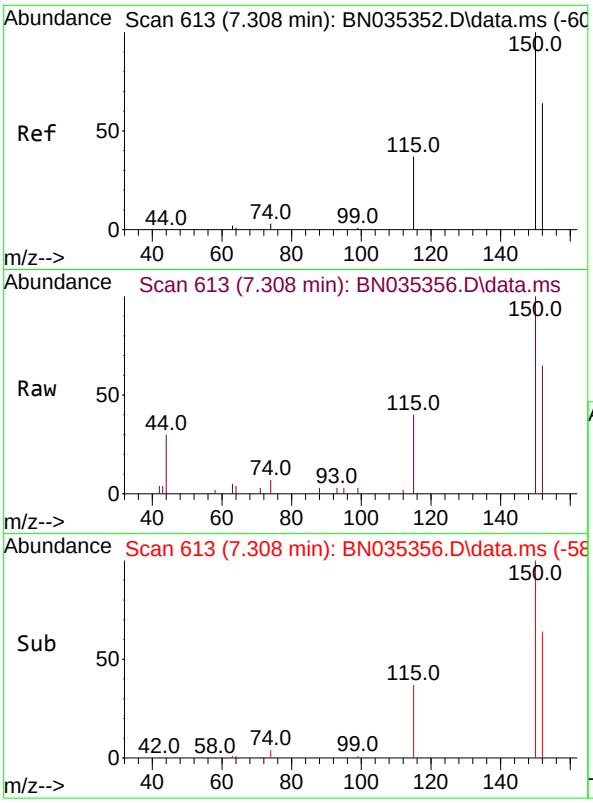
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



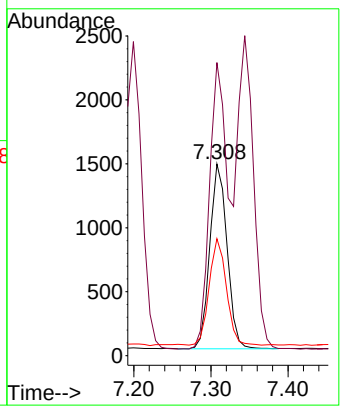


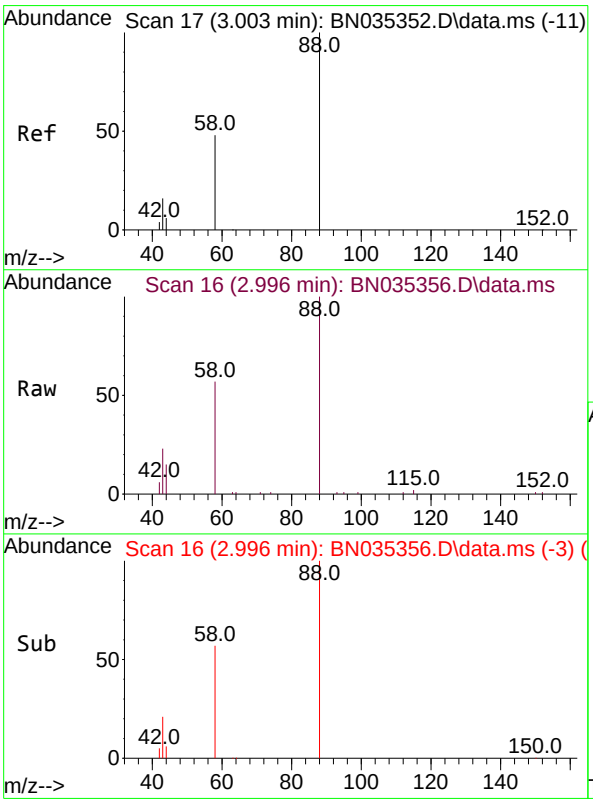
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2249

Ion	Ratio	Lower	Upper
152	100		
150	152.9	124.0	186.0
115	61.0	49.6	74.4

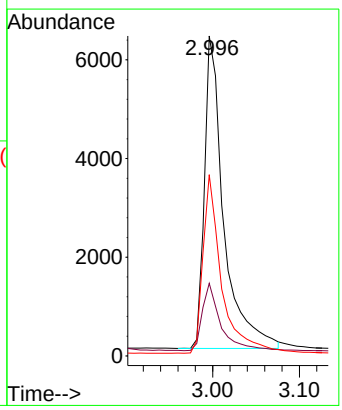


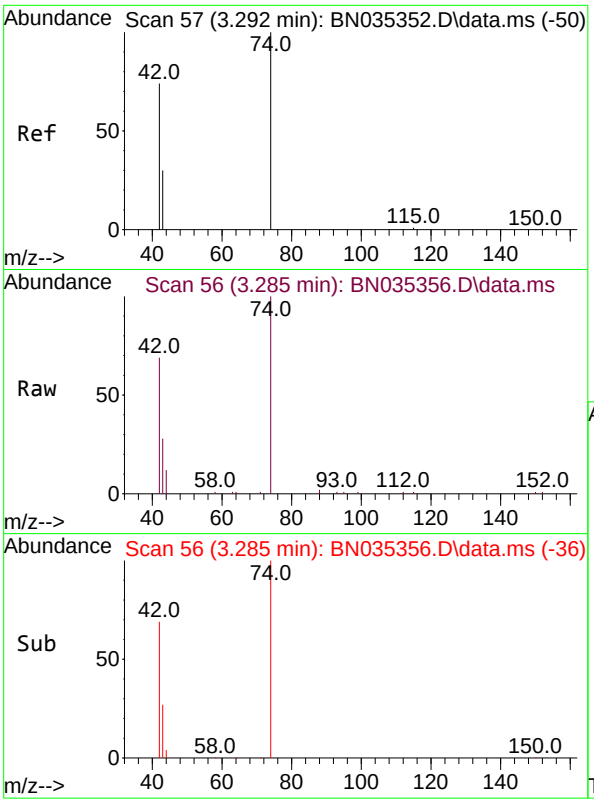


#2
1,4-Dioxane
Concen: 4.790 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 88 Resp: 9786

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	54.8	44.5	66.7



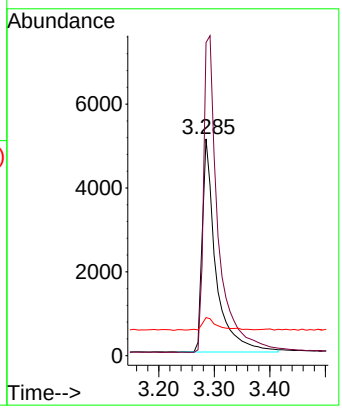


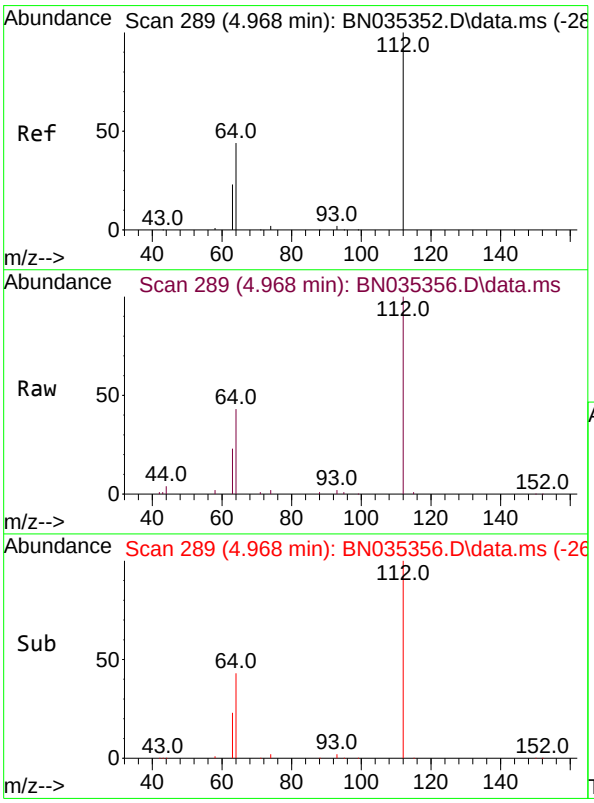
#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 8681

Ion	Ratio	Lower	Upper
42	100		
74	161.2	124.9	187.3
44	6.7	2.2	3.4#

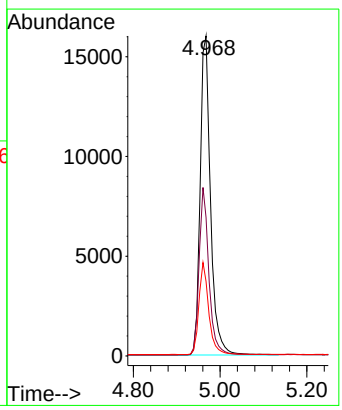


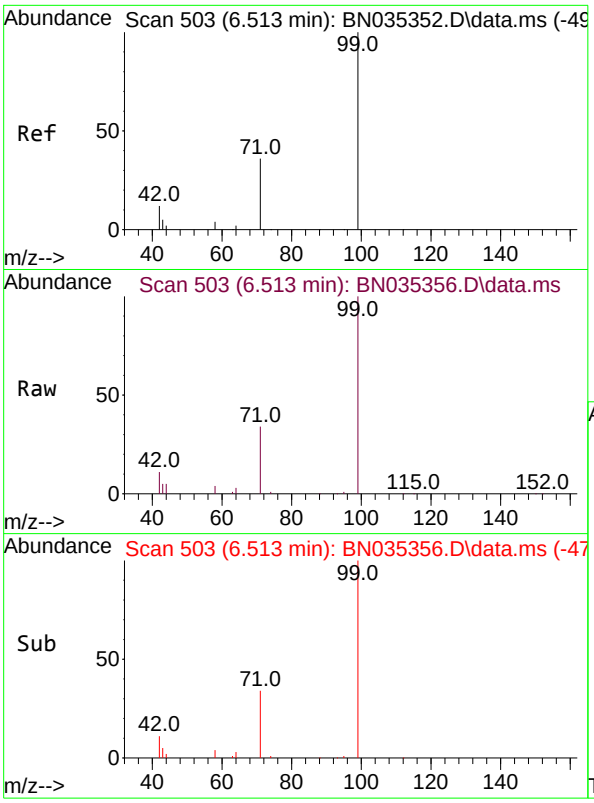


#4
2-Fluorophenol
Concen: 4.637 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:112 Resp: 26472

Ion	Ratio	Lower	Upper
112	100		
64	50.0	39.8	59.8
63	27.4	21.0	31.6



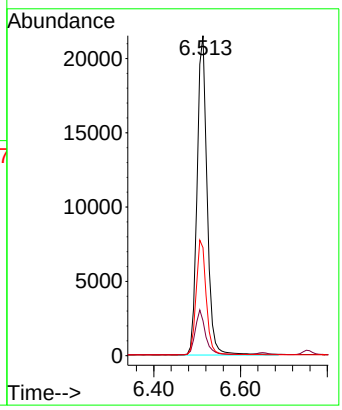


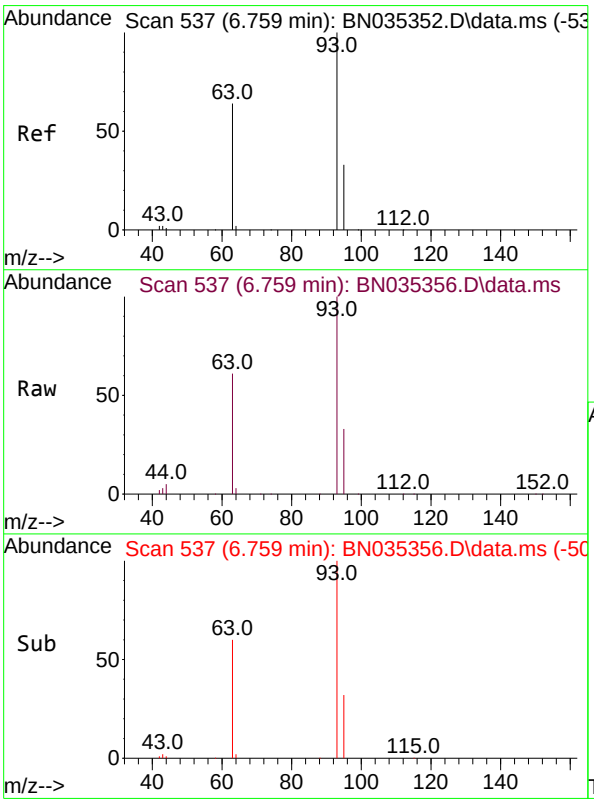
#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 34560

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.4	29.3	43.9

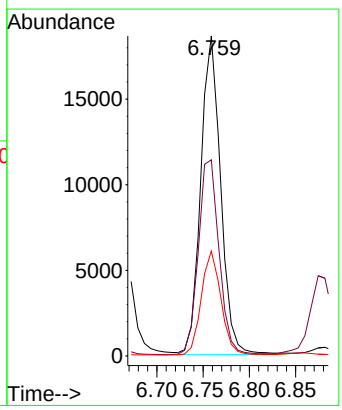


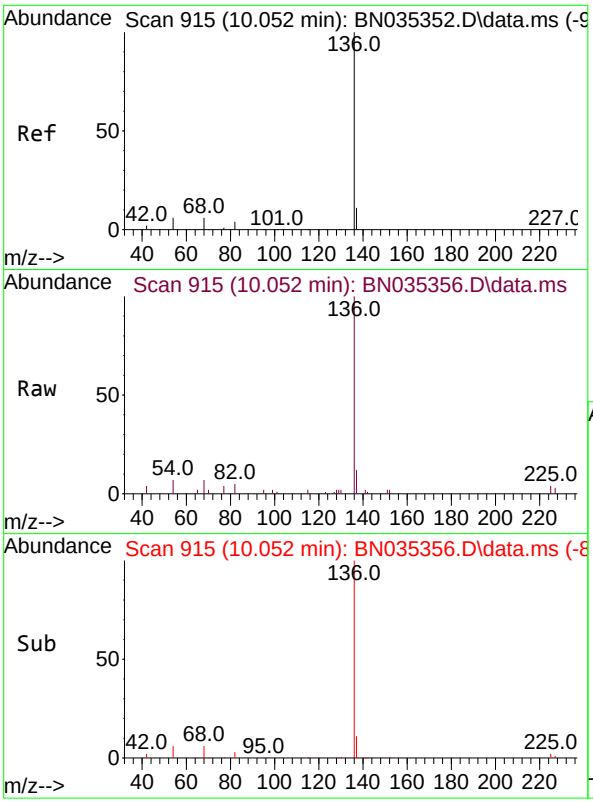


#6
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 93 Resp: 27872

Ion	Ratio	Lower	Upper
93	100		
63	63.7	50.4	75.6
95	32.1	25.7	38.5



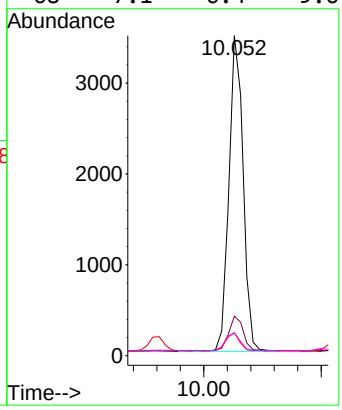


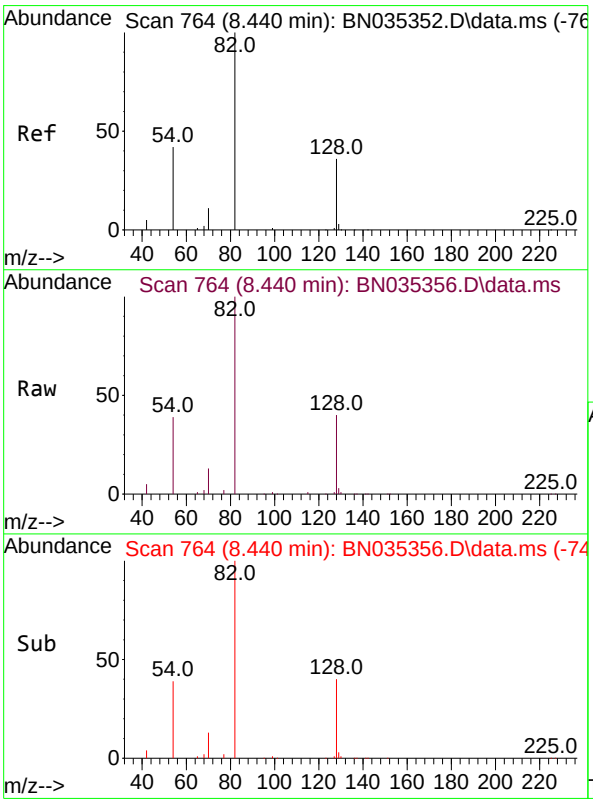
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 5807

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.1	6.1	9.1
68	7.1	6.4	9.6

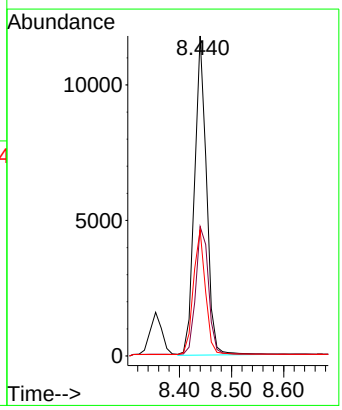


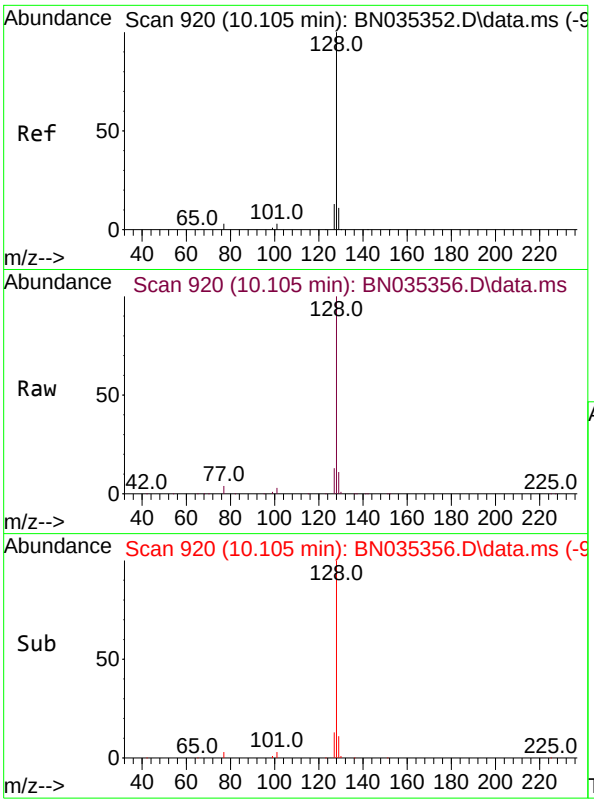


#8
Nitrobenzene-d5
Concen: 3.741 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 82 Resp: 18911

Ion	Ratio	Lower	Upper
82	100		
128	40.4	33.4	50.0
54	39.4	36.7	55.1



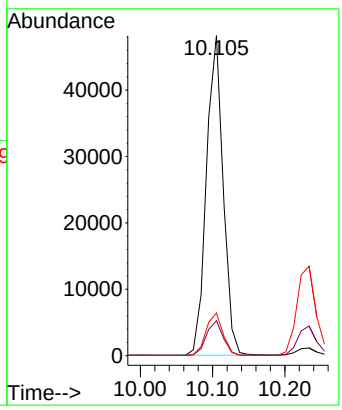


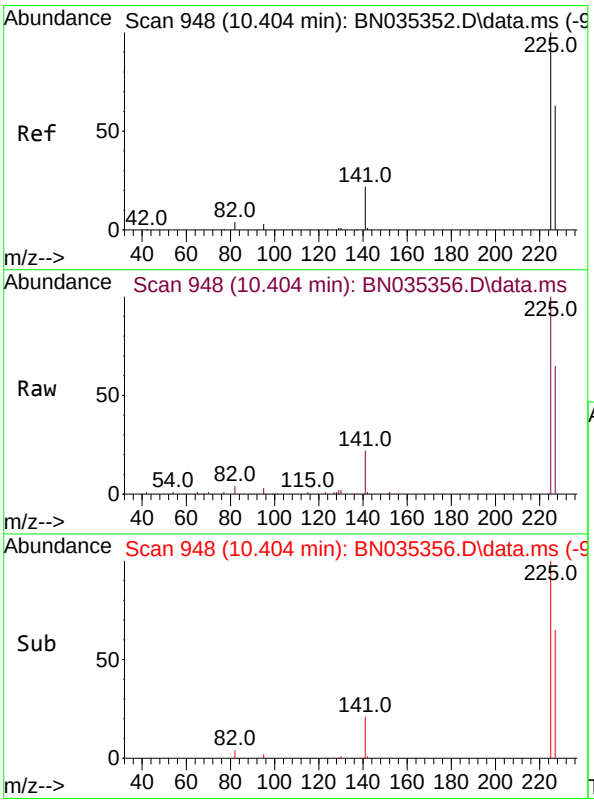
#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 77668

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.4	11.4	17.2

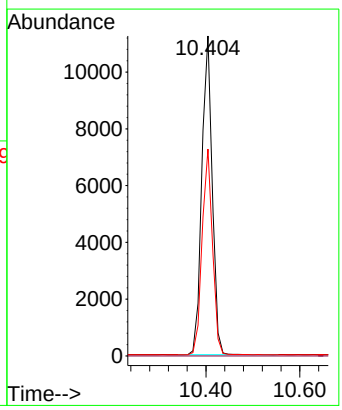


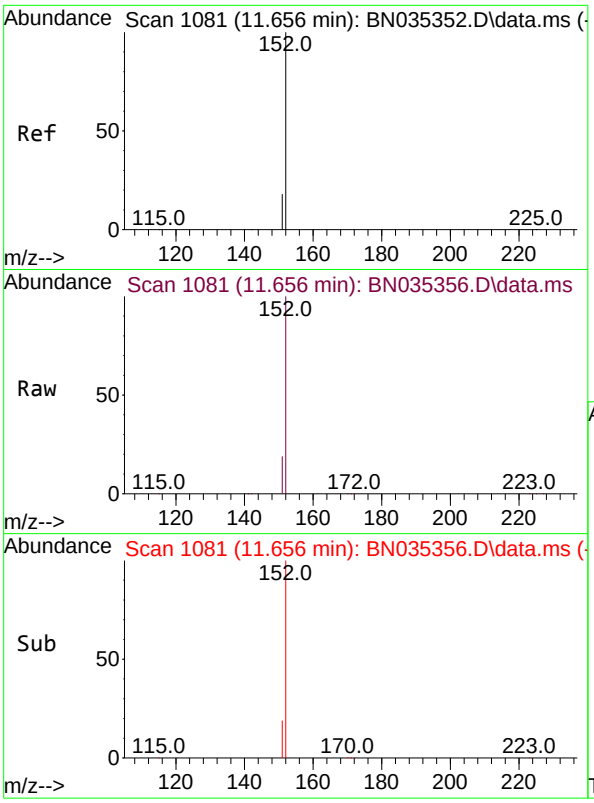


#10
Hexachlorobutadiene
Concen: 3.887 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:225 Resp: 17273

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	51.3	76.9



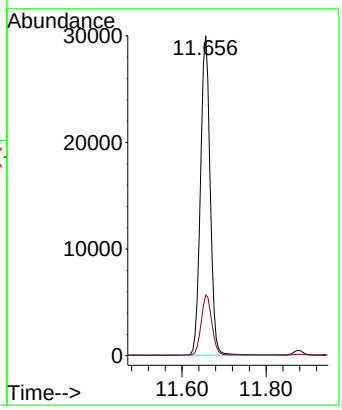


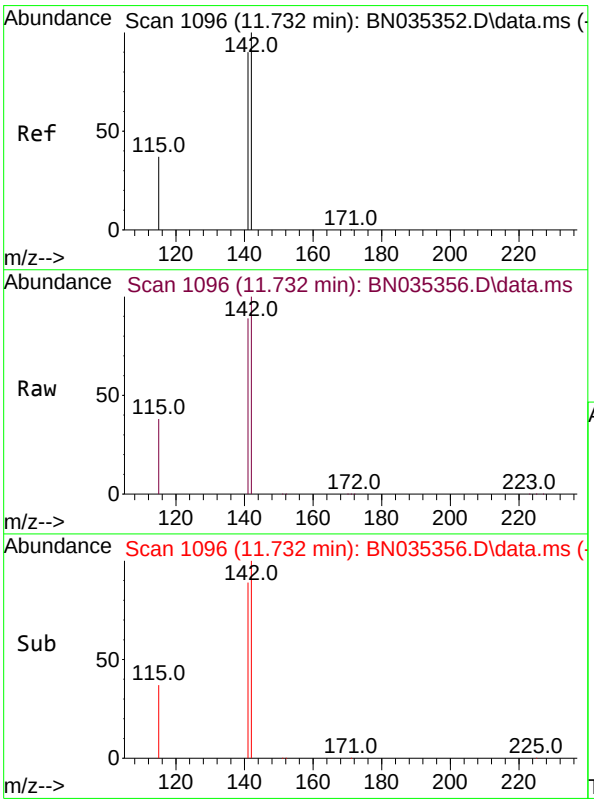
#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 47612

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

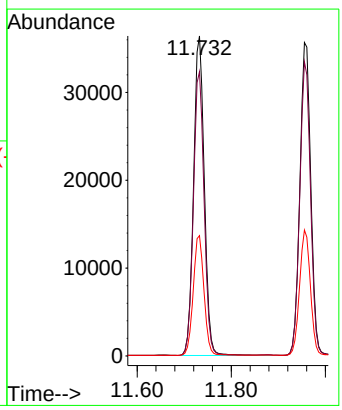


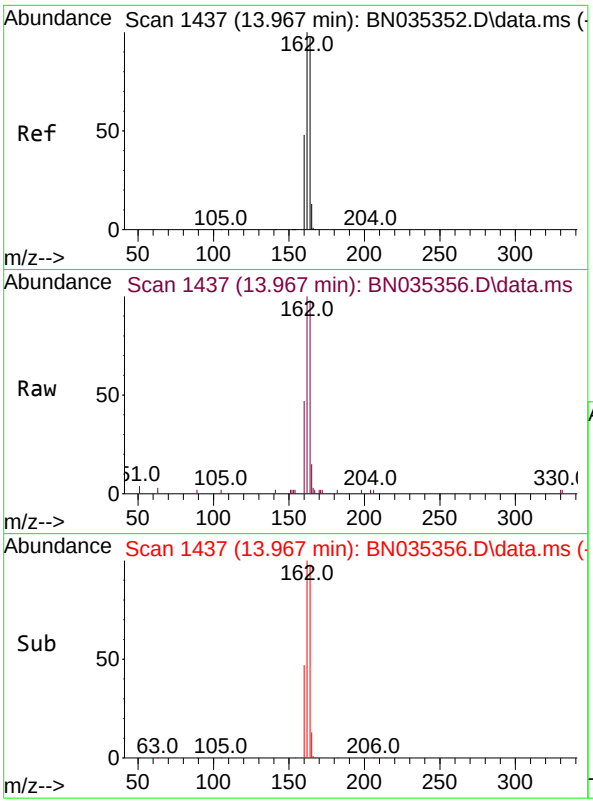


#12
2-Methylnaphthalene
Concen: 5.158 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:142 Resp: 57698

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	37.6	31.4	47.0



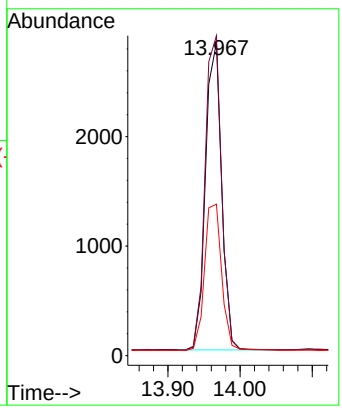


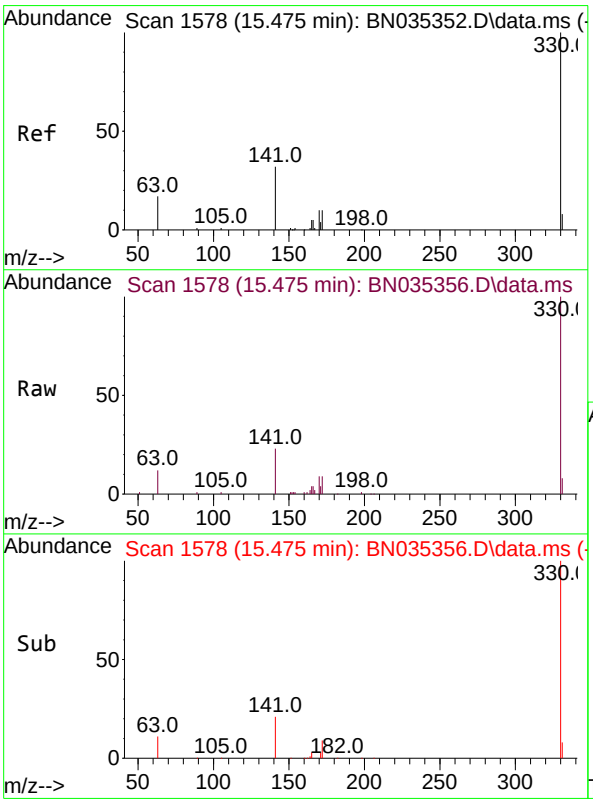
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4363

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	48.4	40.1	60.1

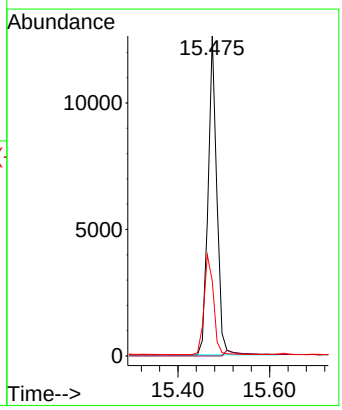


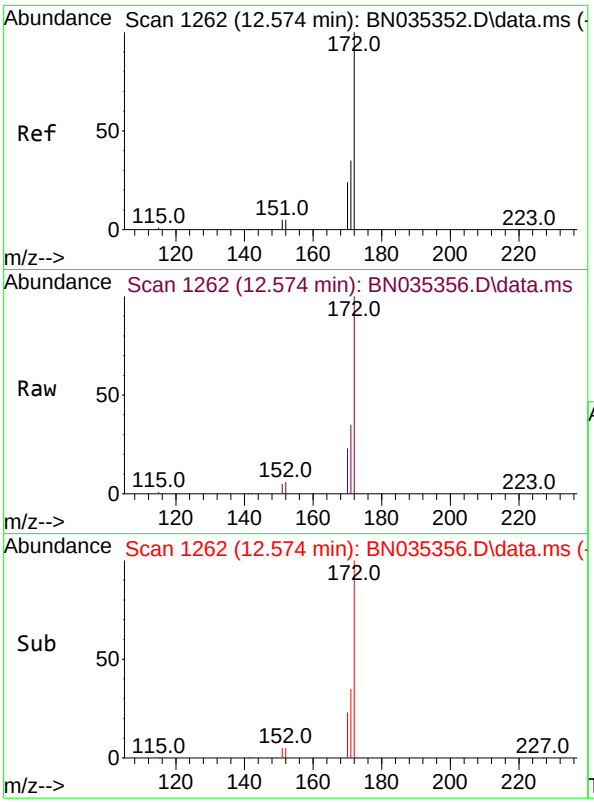


#14
2,4,6-Tribromophenol
Concen: 5.689 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:330 Resp: 17905

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.4	26.6	40.0



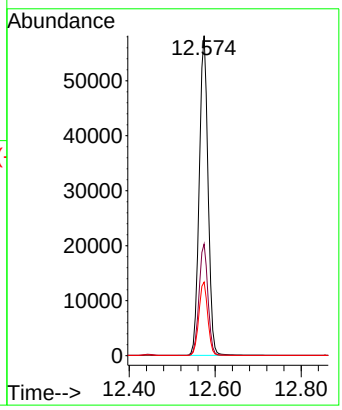


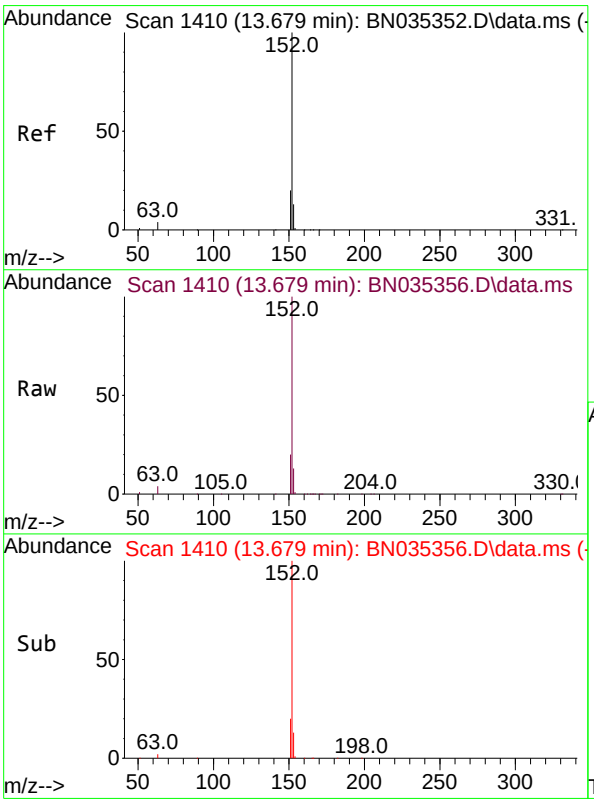
#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 82401

Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.0	43.4
170	23.0	19.8	29.8

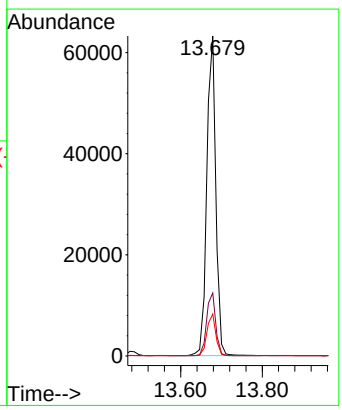


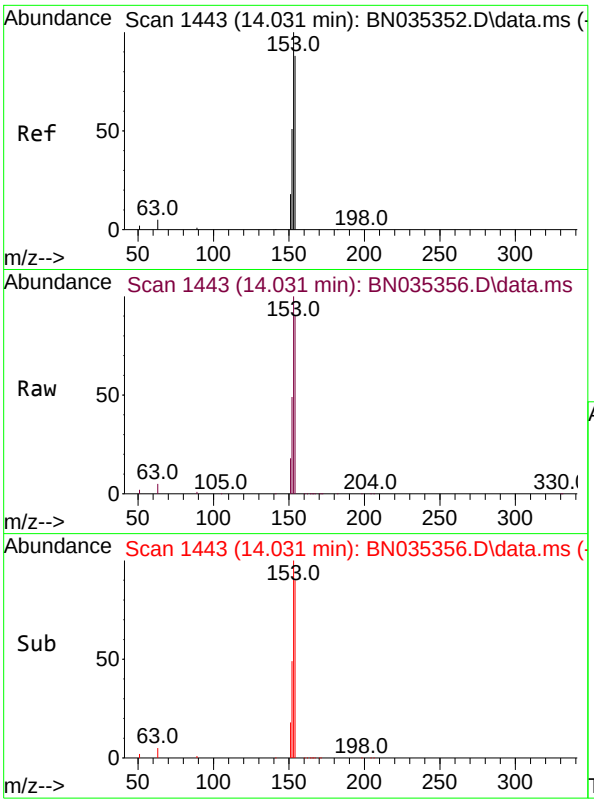


#16
Acenaphthylene
Concen: 5.209 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:152 Resp: 97129

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6



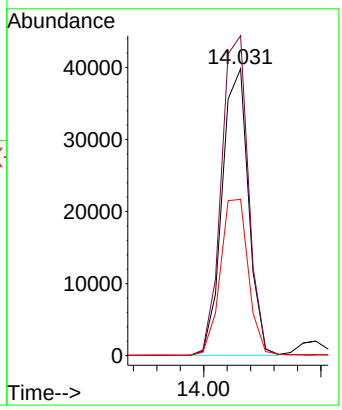


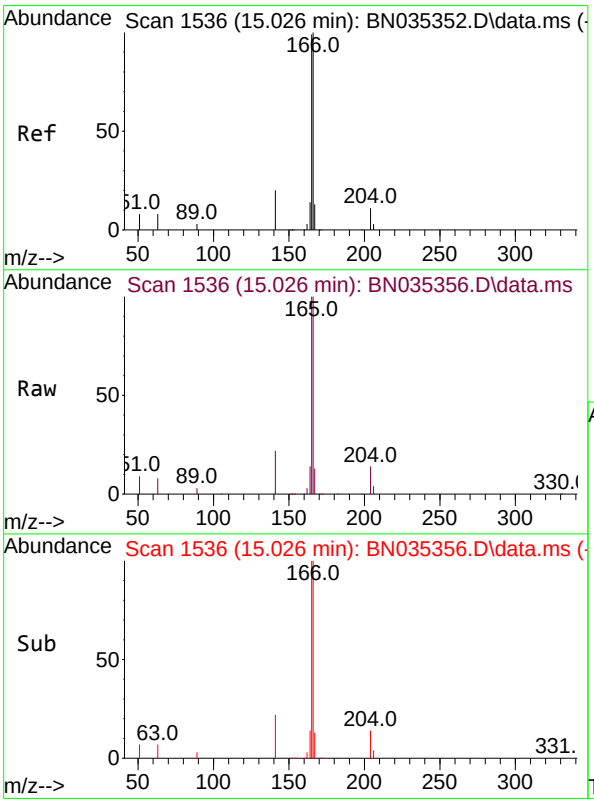
#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 62170

Ion	Ratio	Lower	Upper
154	100		
153	114.7	92.6	139.0
152	58.1	49.0	73.6

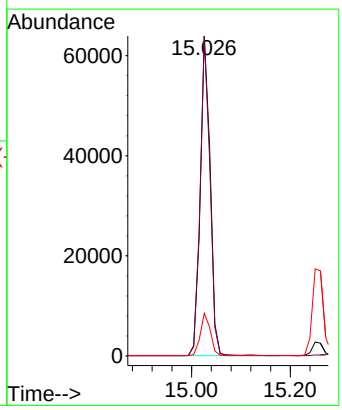


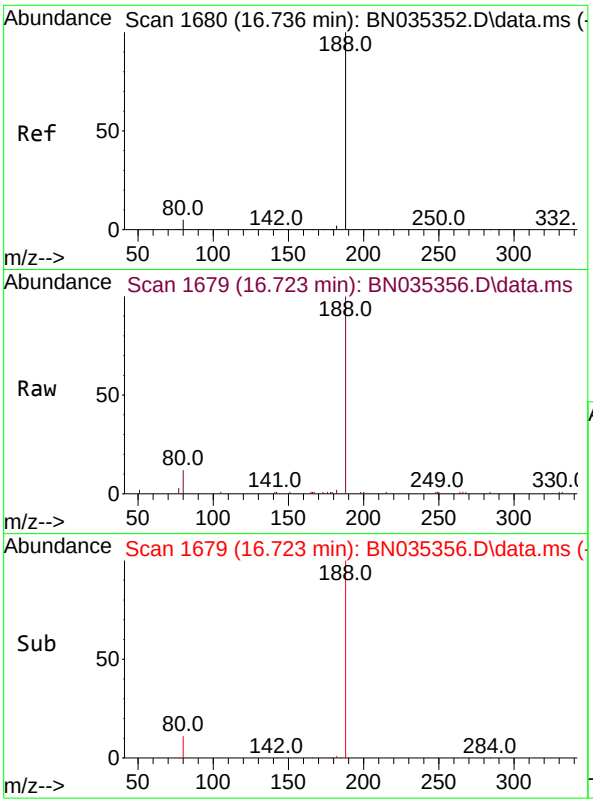


#18
Fluorene
Concen: 4.932 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:166 Resp: 88648

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.4	10.8	16.2



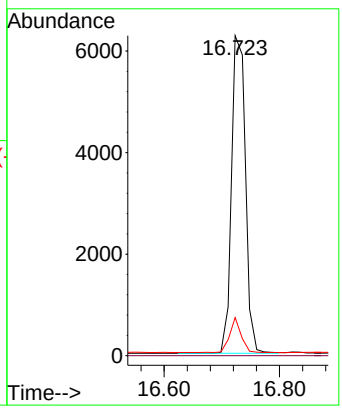


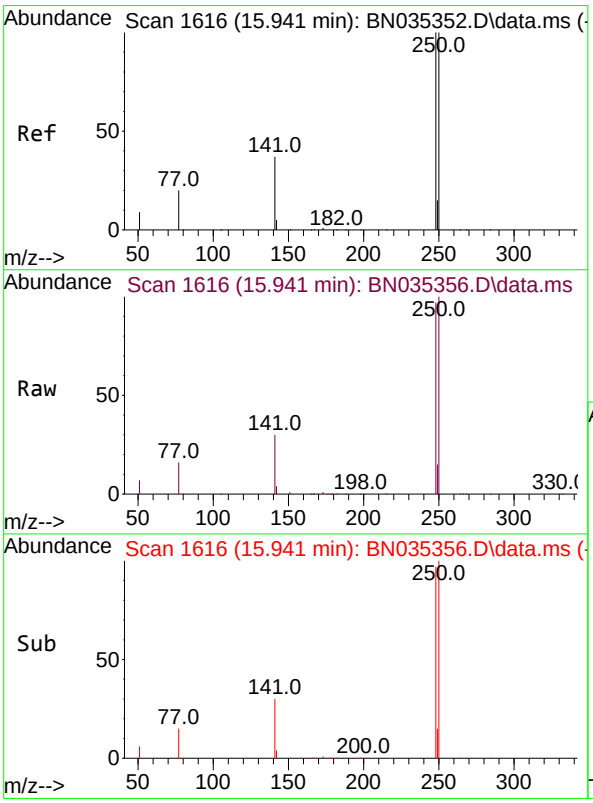
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 10479

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#

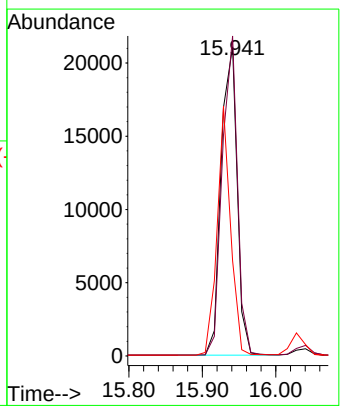


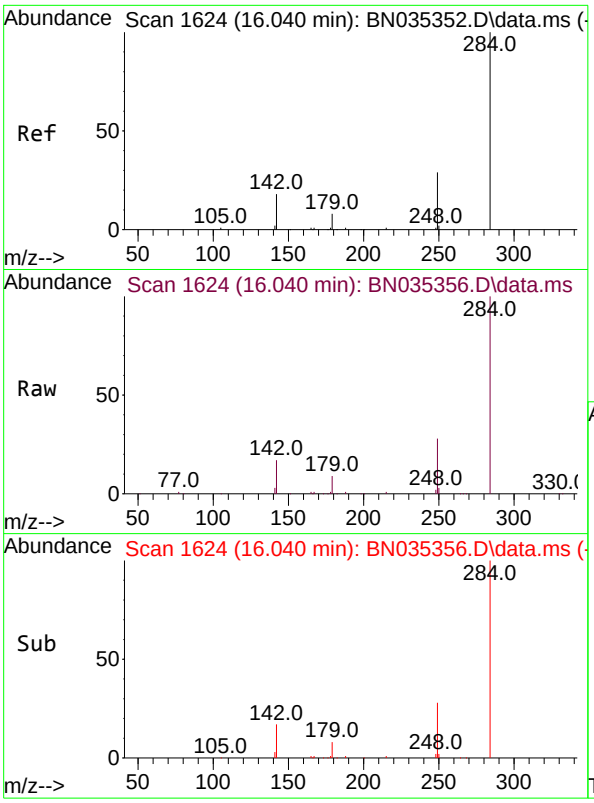


#21
4-Bromophenyl-phenylether
Concen: 4.785 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:248 Resp: 31947

Ion	Ratio	Lower	Upper
248	100		
250	103.5	80.6	120.8
141	30.8	31.5	47.3#



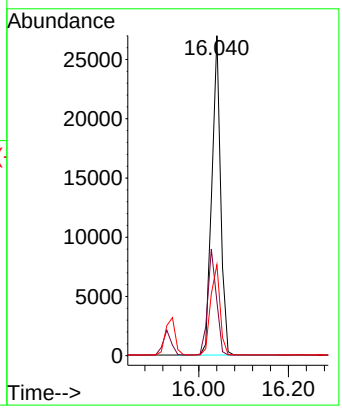


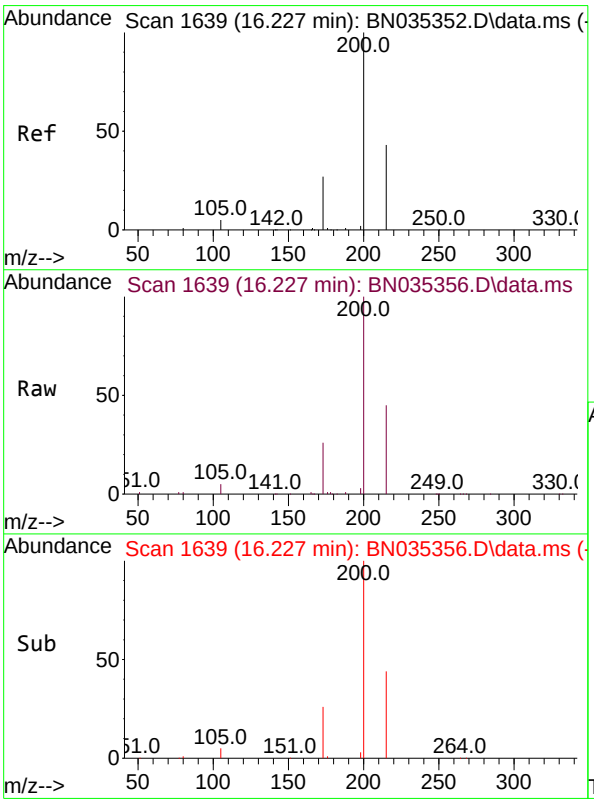
#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:284 Resp: 36315

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.4	24.6	36.8

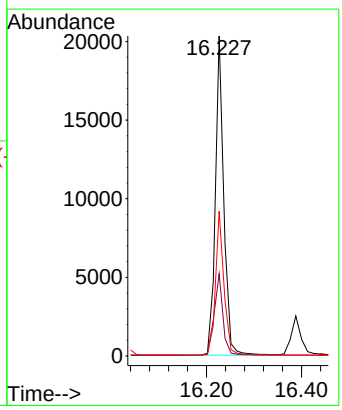


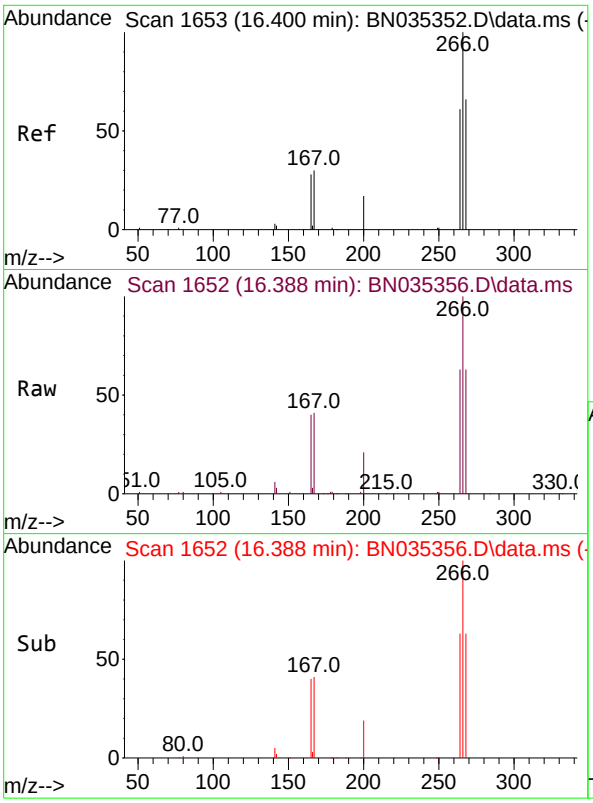


#23
Atrazine
Concen: 4.179 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:200 Resp: 25034

Ion	Ratio	Lower	Upper
200	100		
173	25.7	24.1	36.1
215	45.2	36.9	55.3



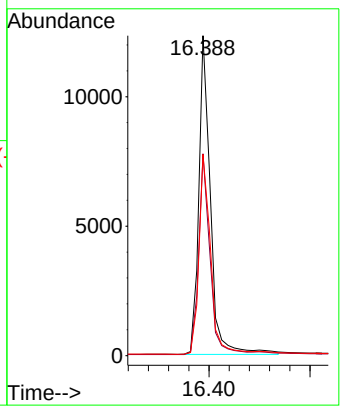


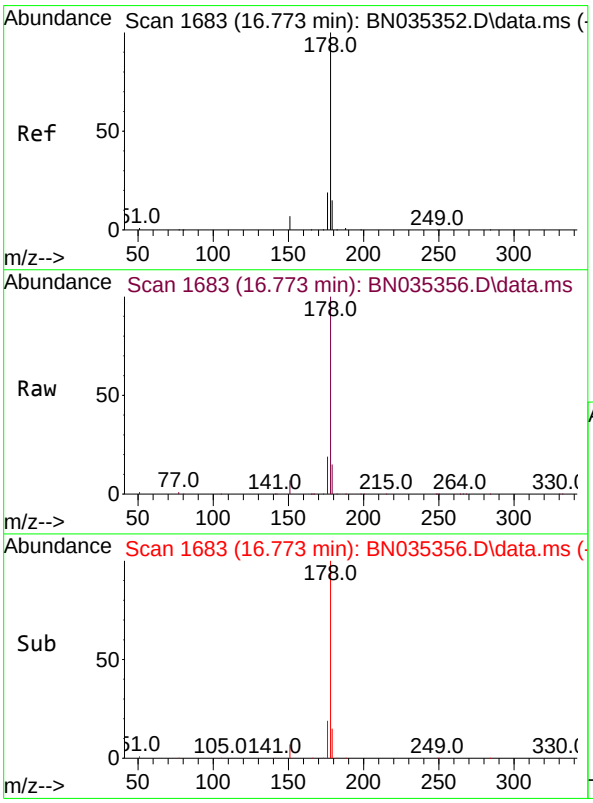
#24
Pentachlorophenol
Concen: 6.083 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:266 Resp: 19691

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	64.1	43.3	64.9

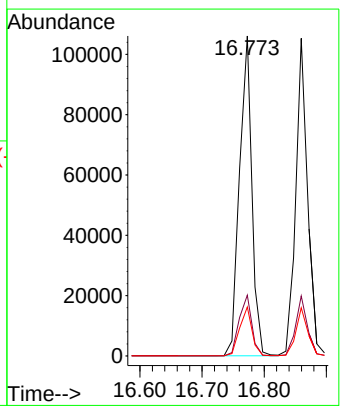


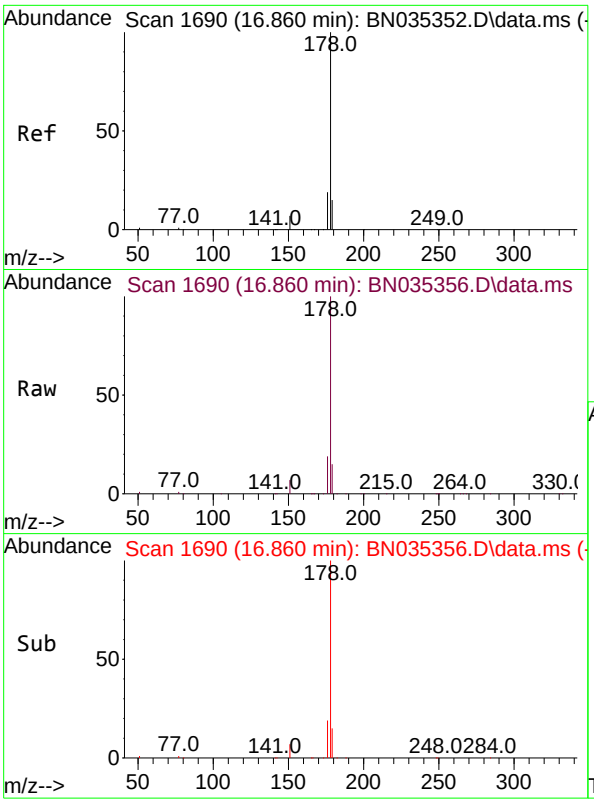


#25
Phenanthrene
Concen: 5.343 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:178 Resp: 147357

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.2	12.3	18.5



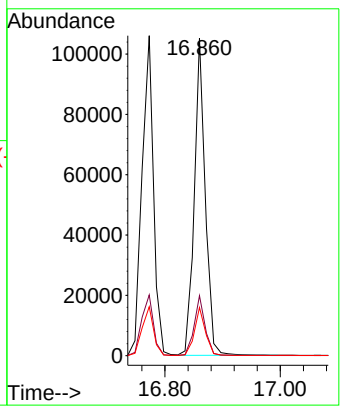


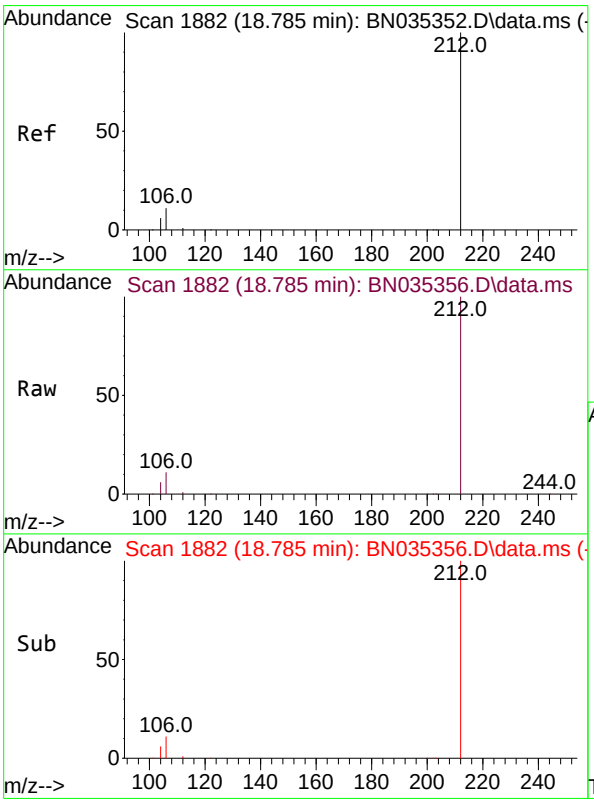
#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 139399

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.1	12.6	18.8

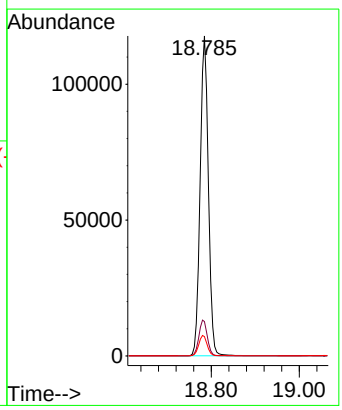


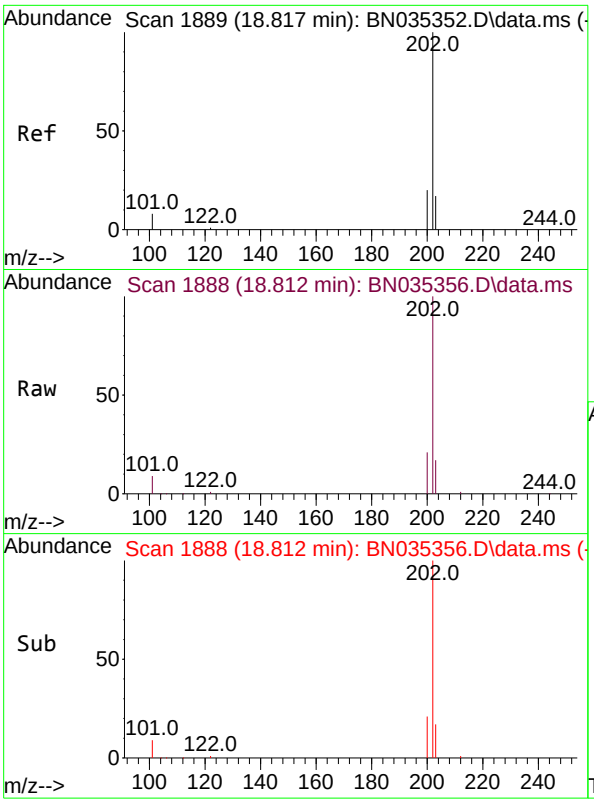


#27
Fluoranthene-d10
Concen: 4.748 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:212 Resp: 152416

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.5	5.3	7.9



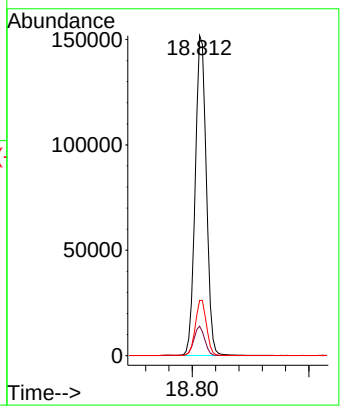


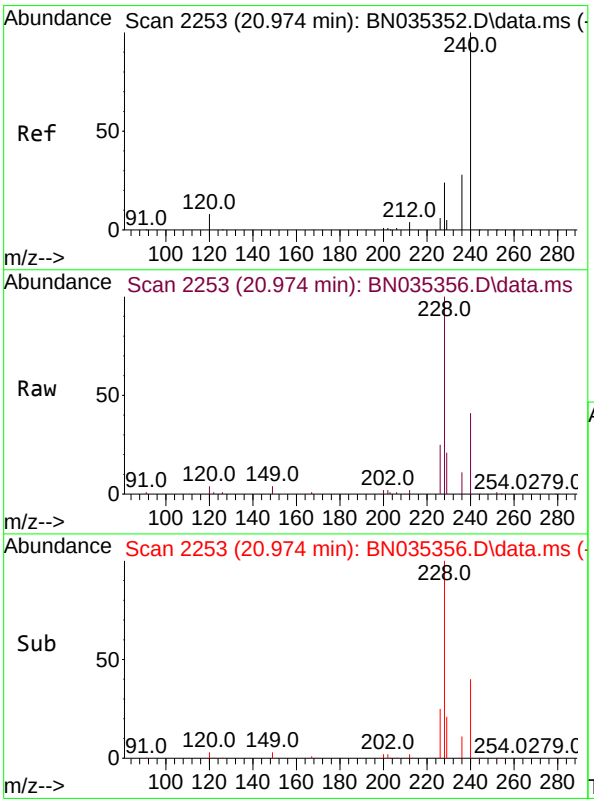
#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 199850

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.4	13.7	20.5

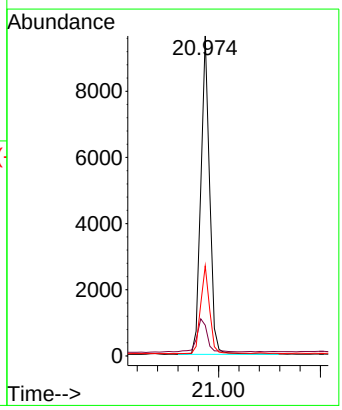


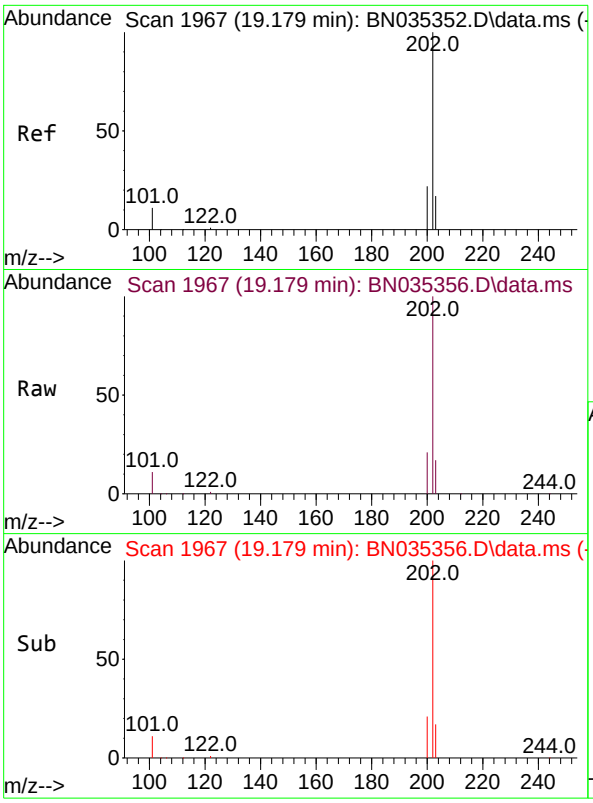


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	28.1	22.9	34.3



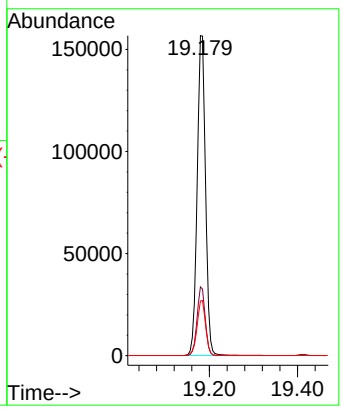


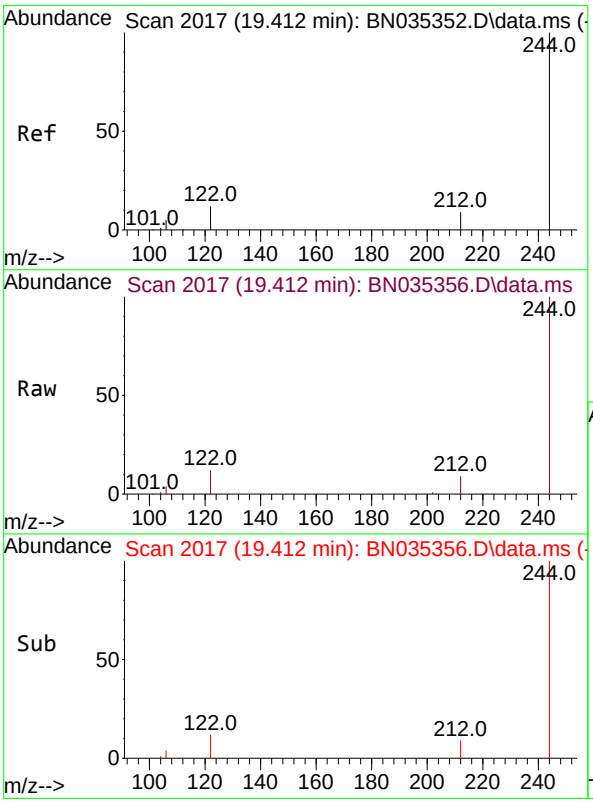
#30
Pyrene
Concen: 5.370 ng
RT: 19.179 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 206018

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

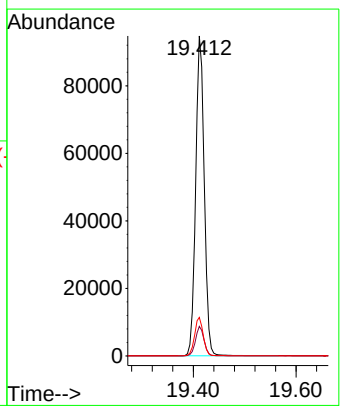


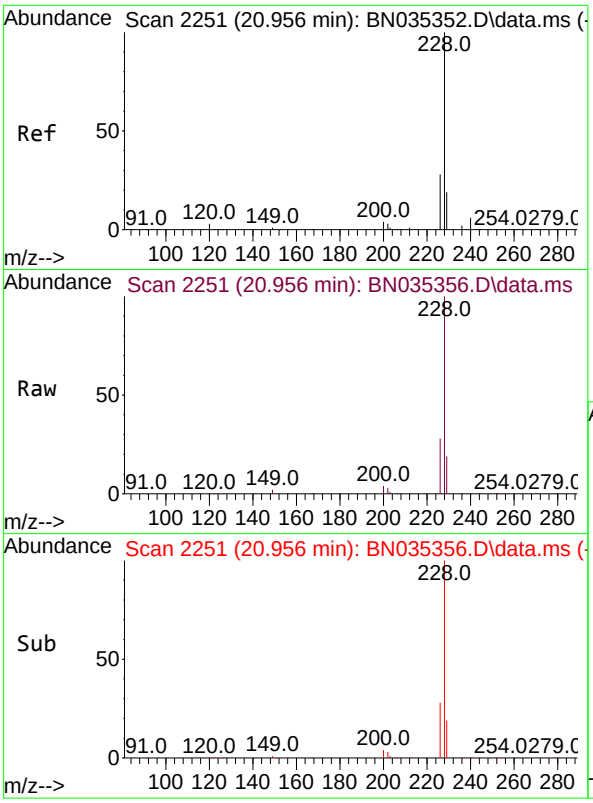


#31
Terphenyl-d14
Concen: 4.581 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:244 Resp: 110737

Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.1	10.3	15.5



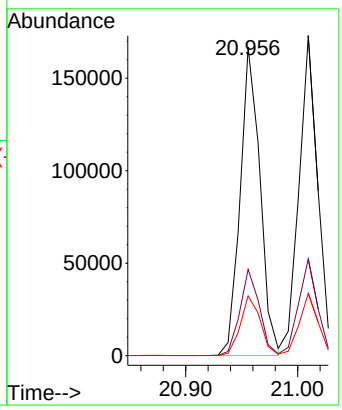


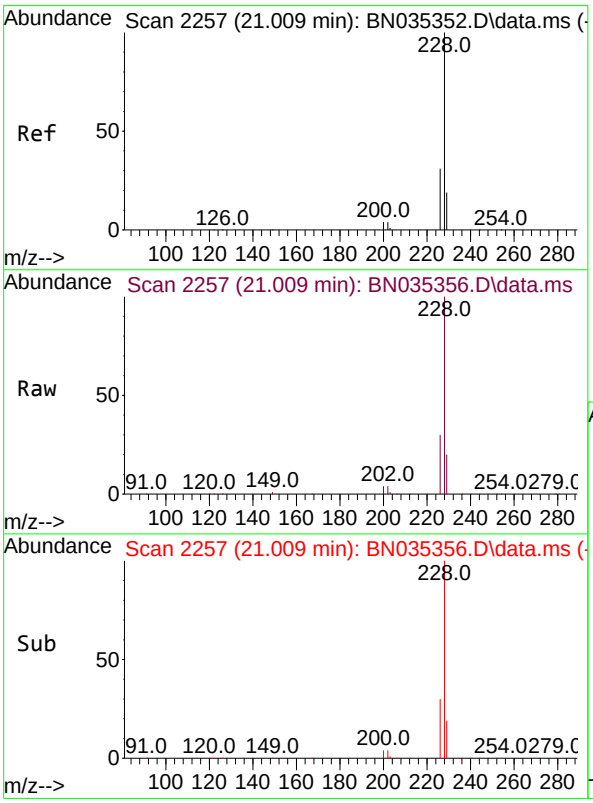
#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 205712

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.5	33.7
229	19.4	15.8	23.8

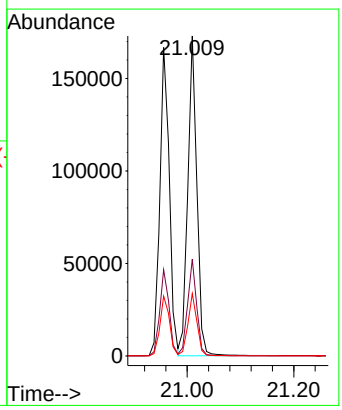


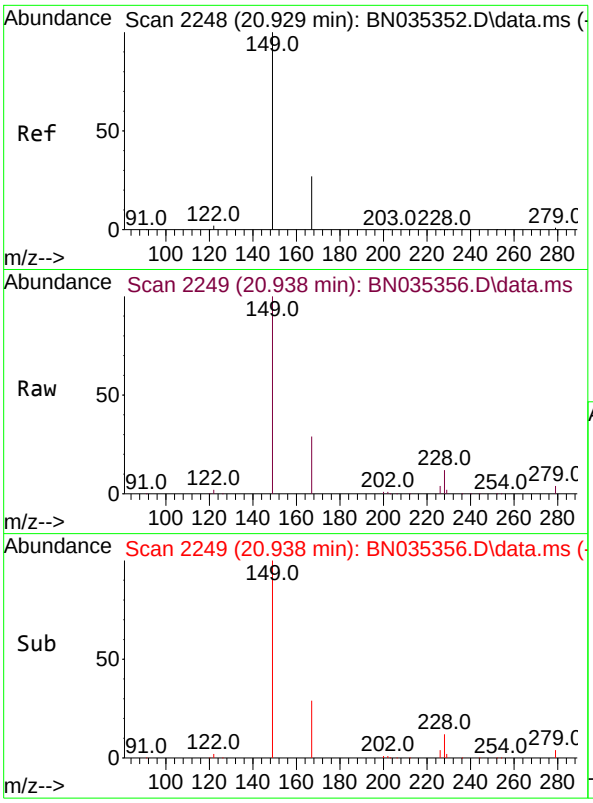


#33
Chrysene
Concen: 5.146 ng
RT: 21.009 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.5	15.9	23.9



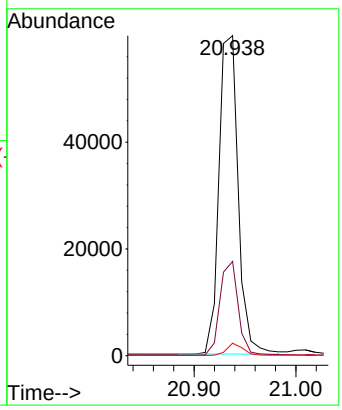


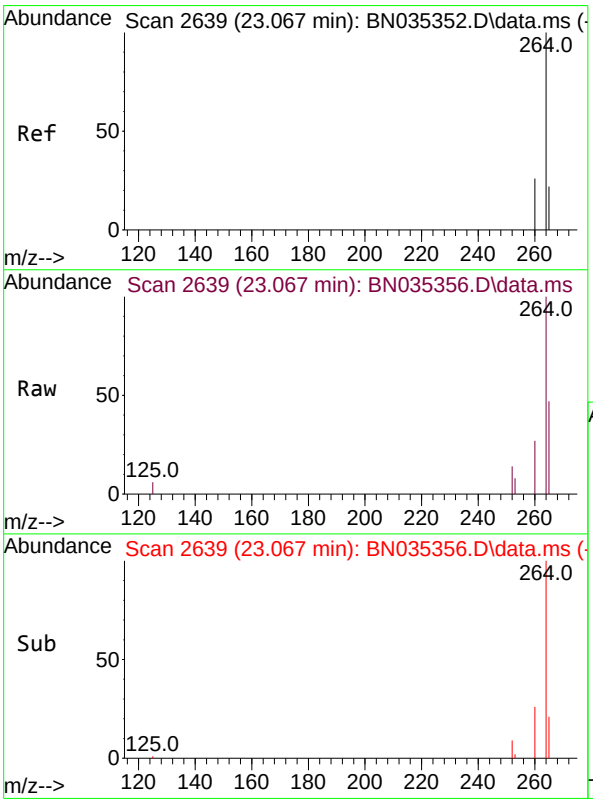
#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:149 Resp: 78322

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.2	2.7	4.1

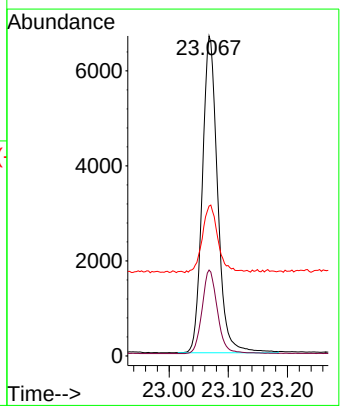


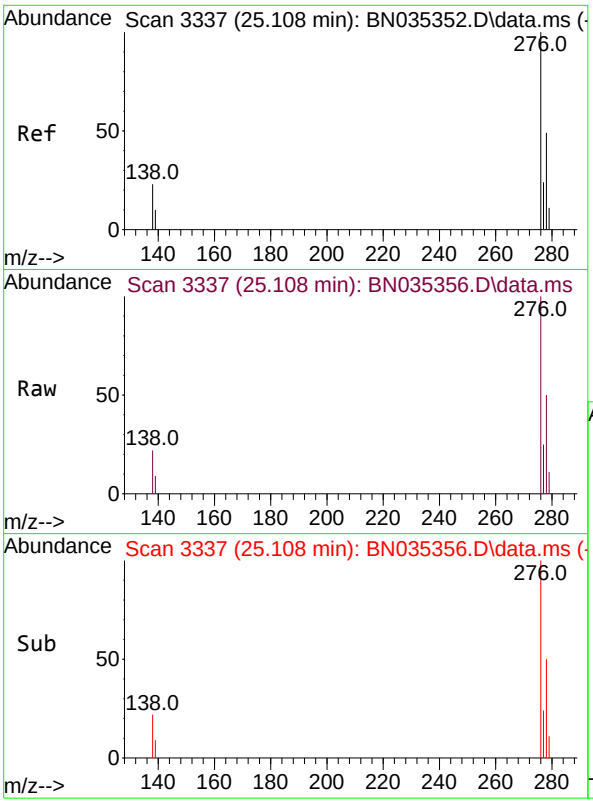


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	46.8	40.2	60.4



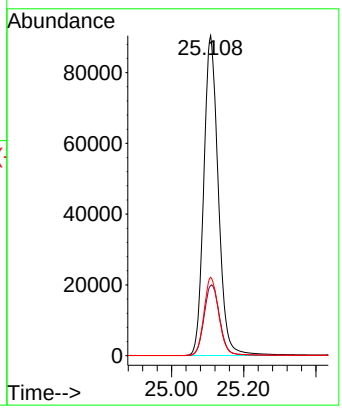


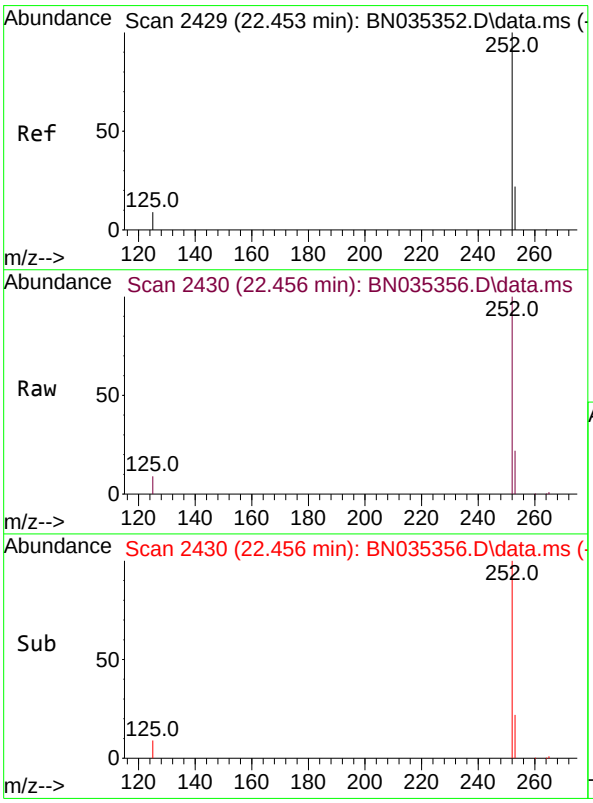
#36
Indeno(1,2,3-cd)pyrene
Concen: 5.279 ng
RT: 25.108 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 252709

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	25.0	19.8	29.6

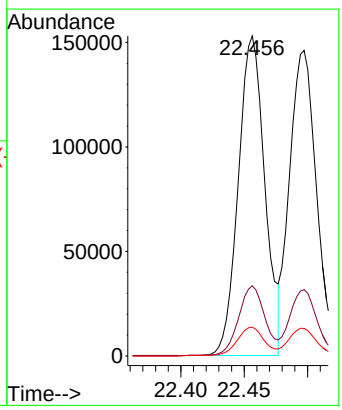


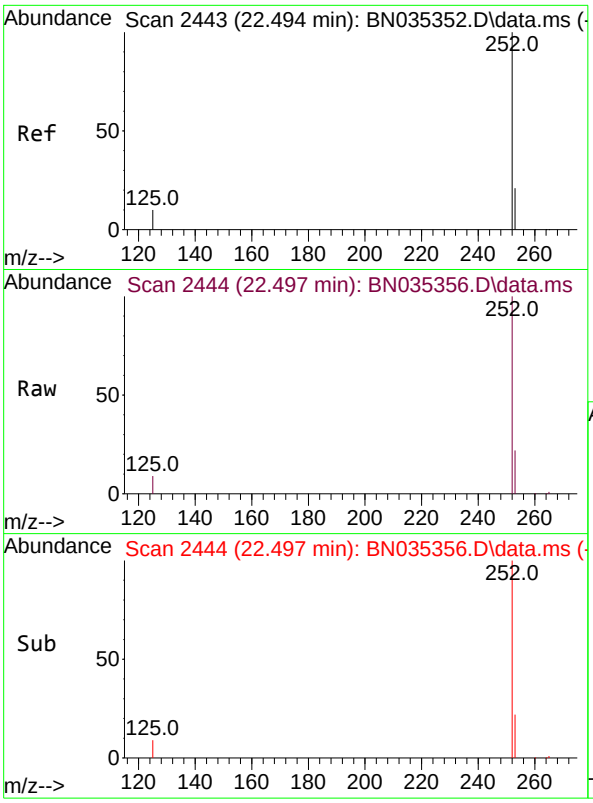


#37
Benzo(b)fluoranthene
Concen: 5.974 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 241201

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



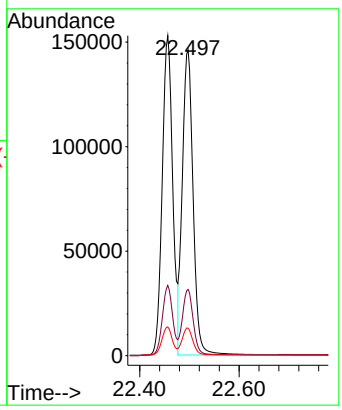


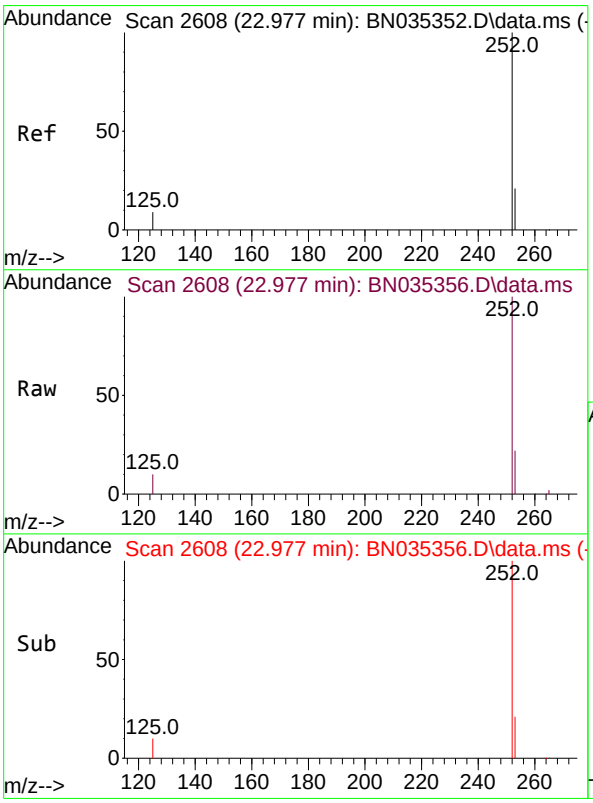
#38
Benzo(k)fluoranthene
Concen: 5.449 ng
RT: 22.497 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 220146

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.5	29.3
125	9.0	10.2	15.4#

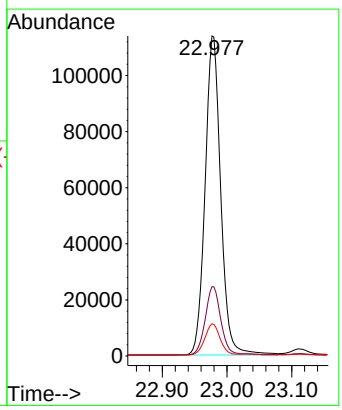


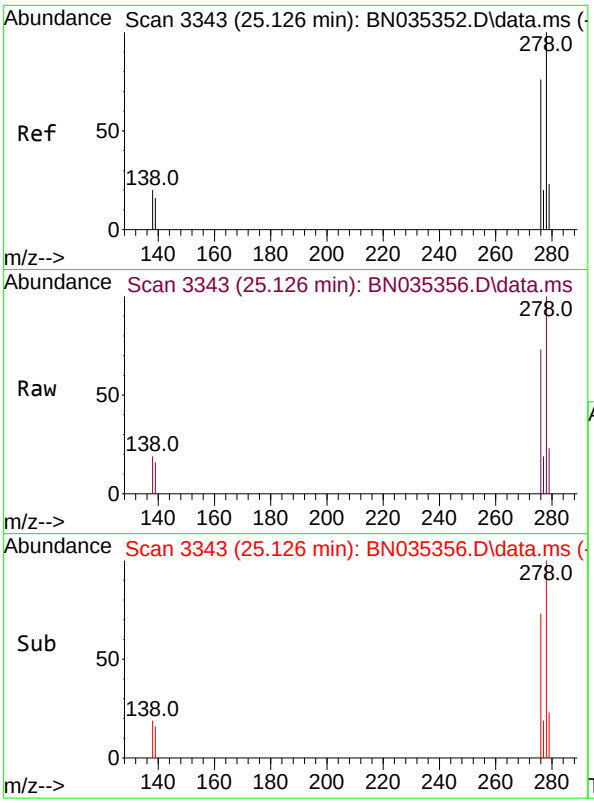


#39
Benzo(a)pyrene
Concen: 5.367 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 190665

Ion	Ratio	Lower	Upper
252	100		
253	21.6	20.2	30.4
125	10.0	10.9	16.3#



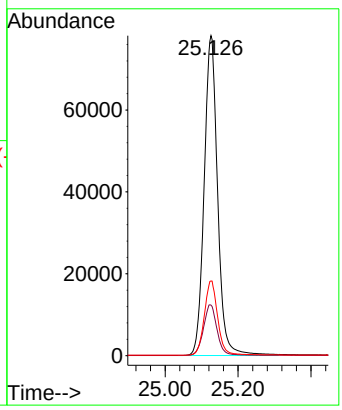


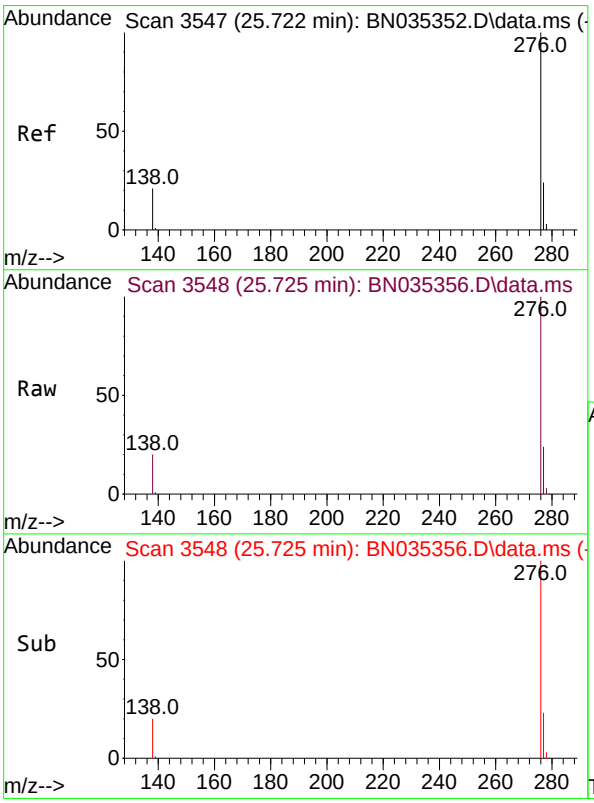
#40
Dibenzo(a,h)anthracene
Concen: 5.269 ng
RT: 25.126 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 199852

Ion	Ratio	Lower	Upper
278	100		
139	15.8	14.2	21.4
279	23.3	20.5	30.7

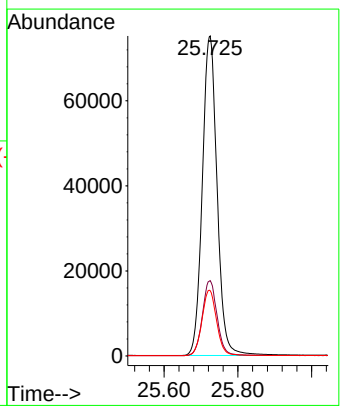




#41
Benzo(g,h,i)perylene
Concen: 5.183 ng
RT: 25.725 min Scan# 3548
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:276 Resp: 209119

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.9	29.9
138	20.4	17.8	26.8



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng		0.00
35) Perylene-d12	23.067	264	8338	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	1280	0.332	ng		0.00
5) Phenol-d6	6.513	99	1437	0.310	ng		0.00
8) Nitrobenzene-d5	8.440	82	938m	0.393	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng		0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng		0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng		99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	#	88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng		99
9) Naphthalene	10.105	128	4364	0.424	ng		99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng		98
16) Acenaphthylene	13.679	152	5261	0.435	ng		100
17) Acenaphthene	14.031	154	3421	0.426	ng		99
18) Fluorene	15.026	166	4825	0.420	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	#	86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng		99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng		99
23) Atrazine	16.227	200	1227	0.401	ng		99
24) Pentachlorophenol	16.400	266	662	0.301	ng	#	83
25) Phenanthrene	16.773	178	8509	0.421	ng		100
26) Anthracene	16.860	178	7849	0.430	ng		100
28) Fluoranthene	18.812	202	10941	0.402	ng		100
30) Pyrene	19.179	202	11476	0.410	ng		100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng		100
33) Chrysene	21.009	228	11926	0.436	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng		99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng		99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng		99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng		99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng		100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng		99

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

ICAL Form

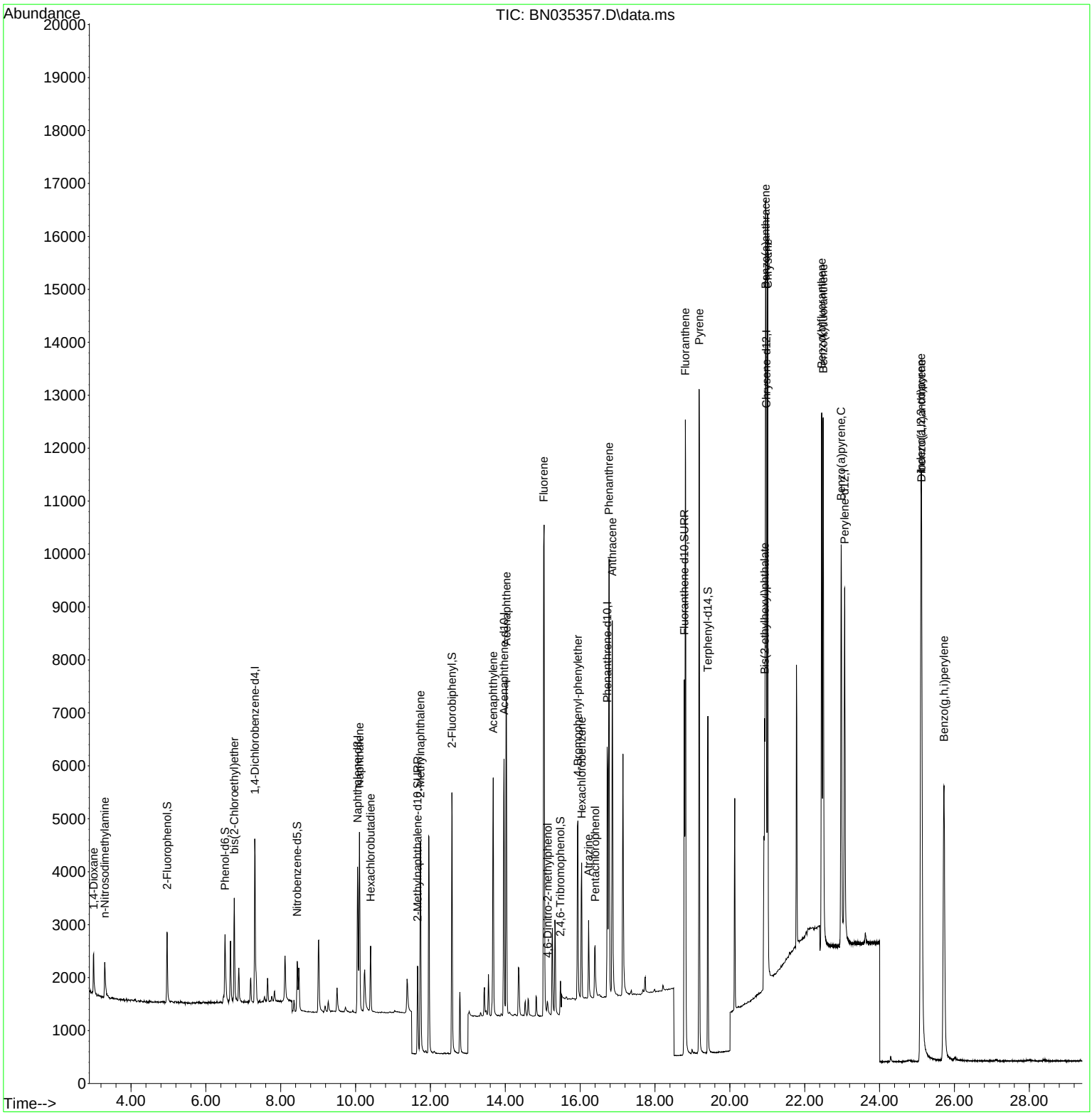
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

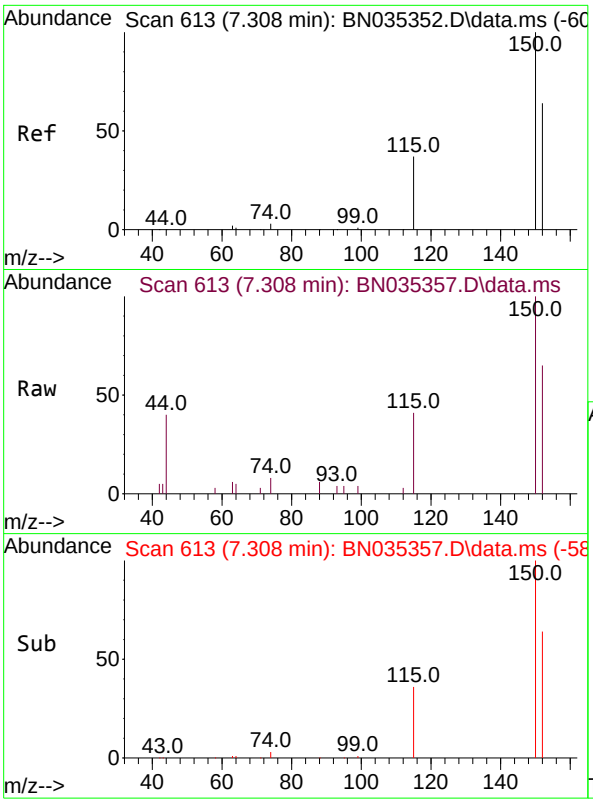
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

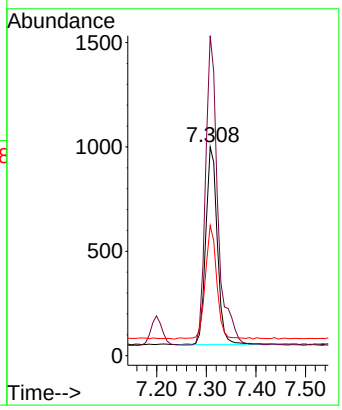




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 154

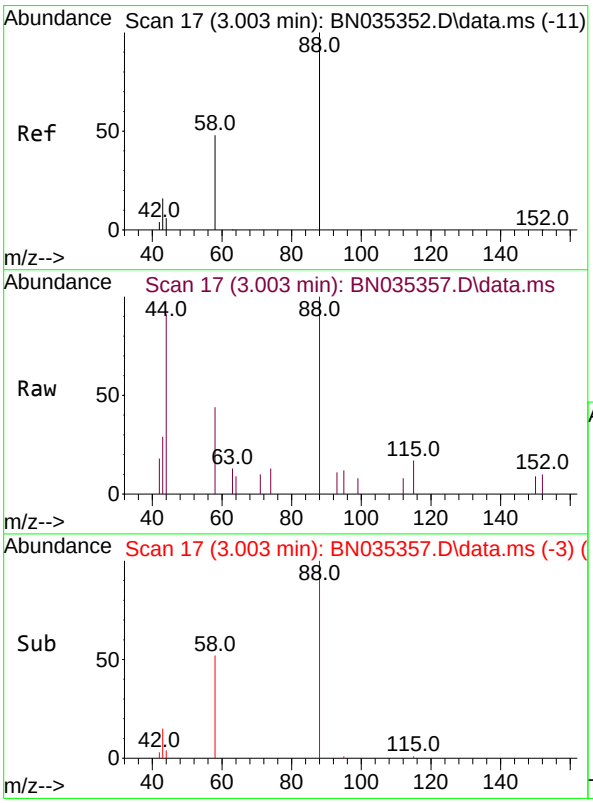
Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

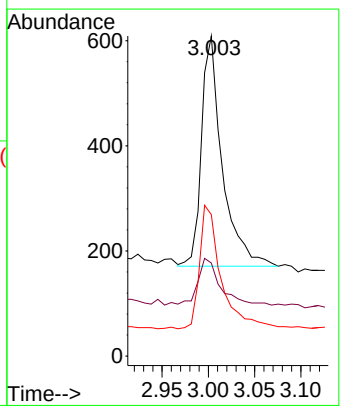
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

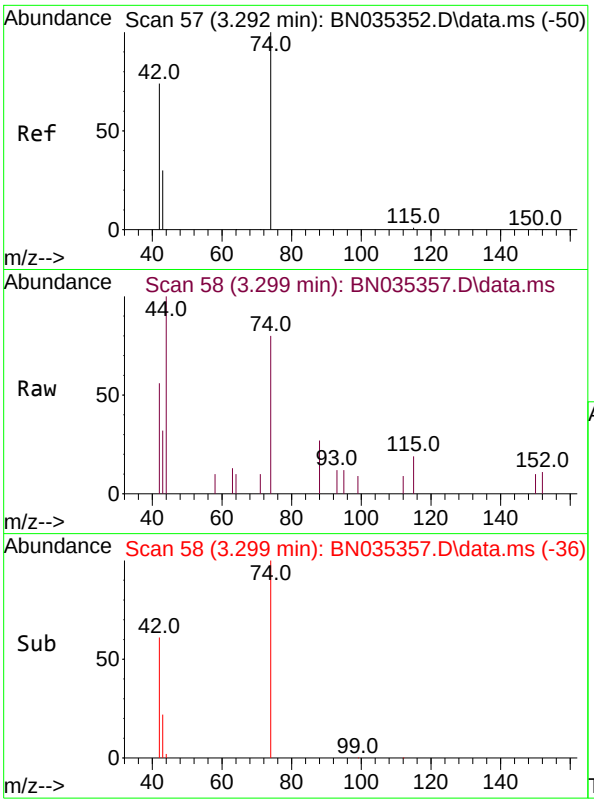


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7

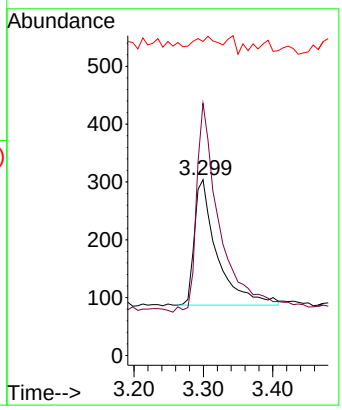




#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 42 Resp: 49

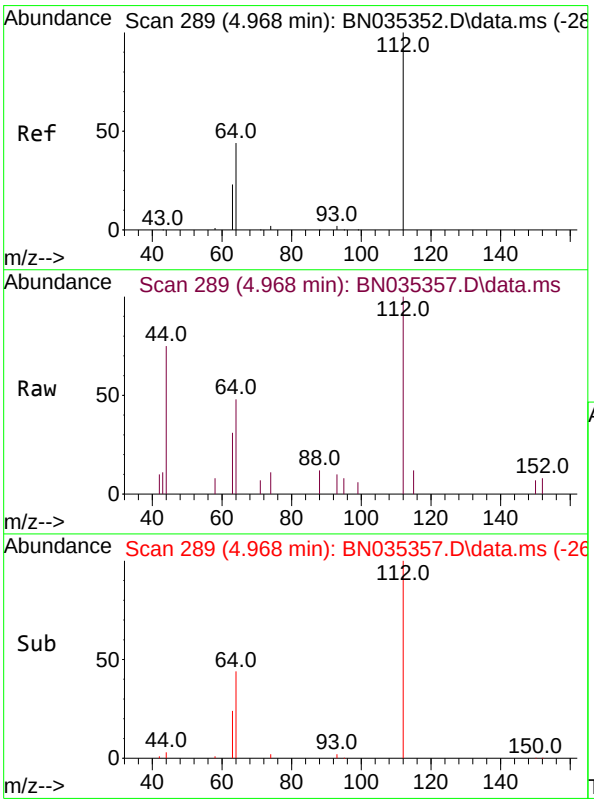
Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
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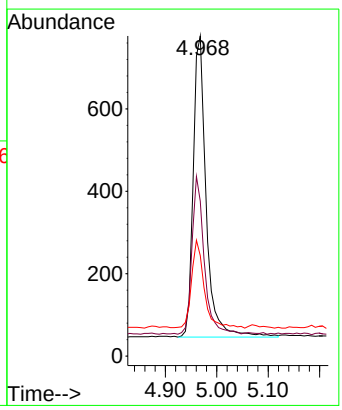
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

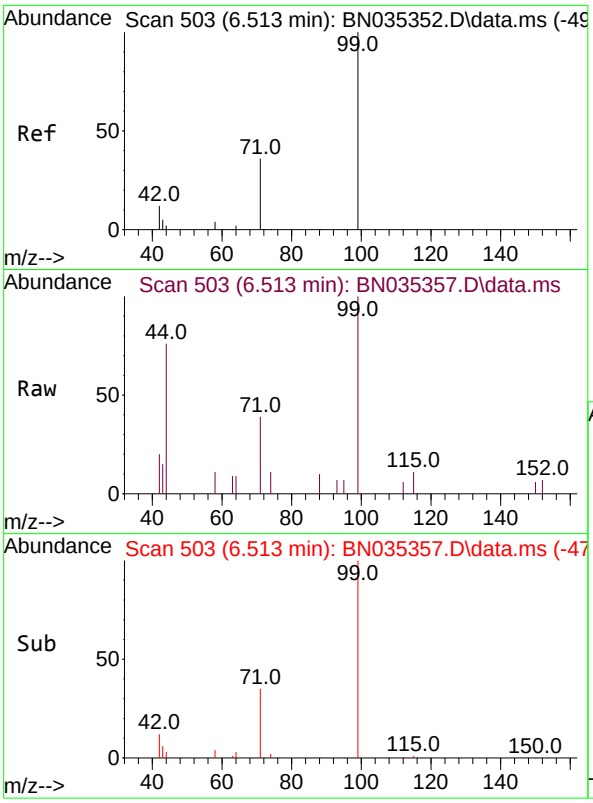


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6

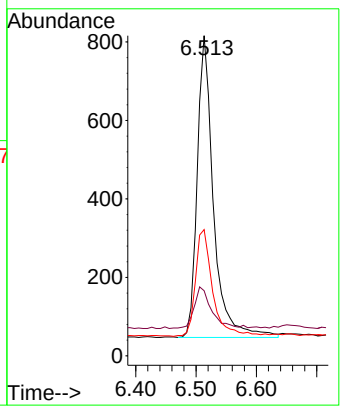




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 99 Resp: 143

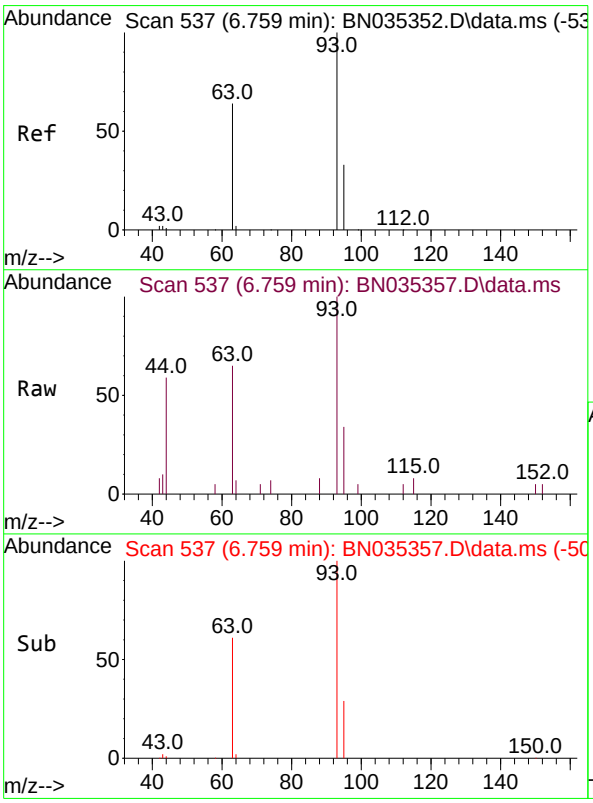
Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
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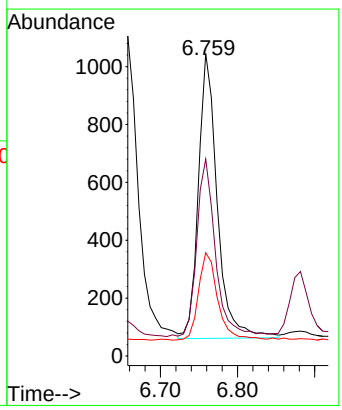
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

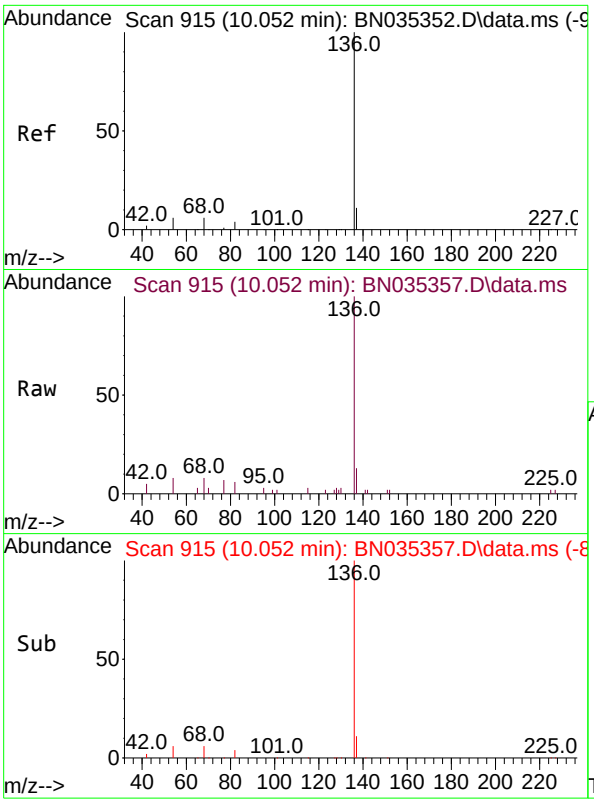


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5

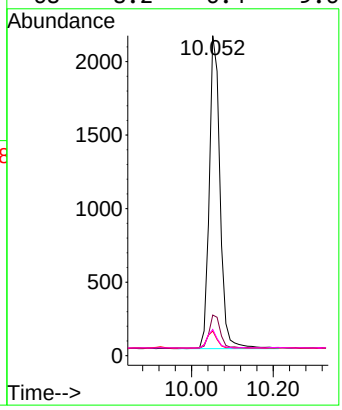




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:136 Resp: 390

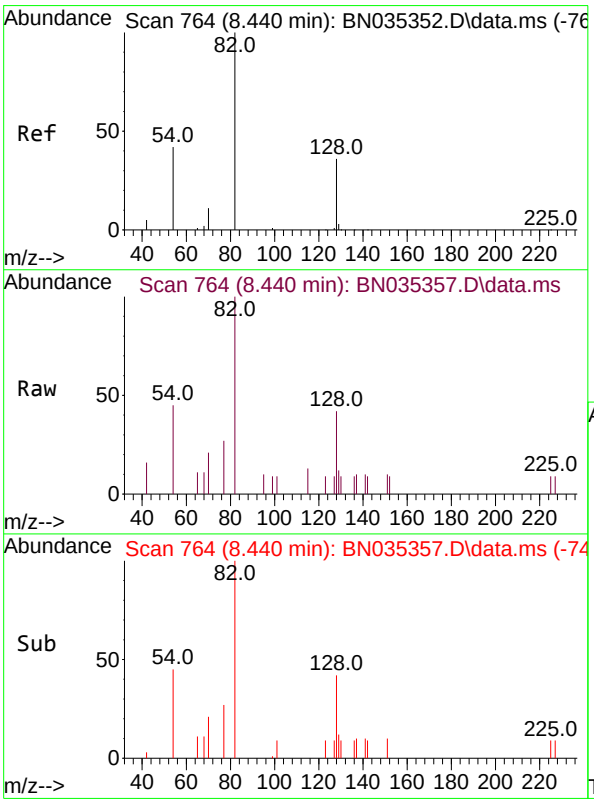
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

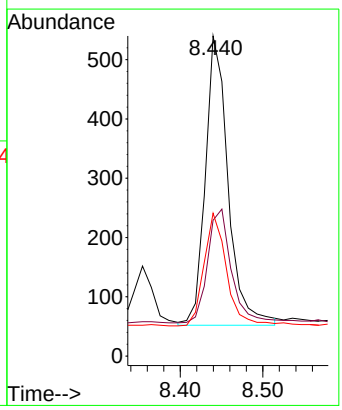
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

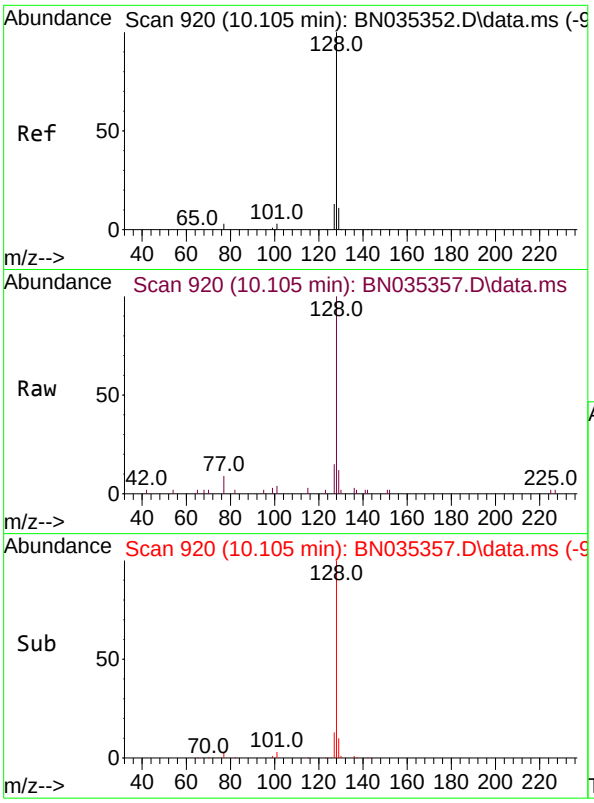


#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 938

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1

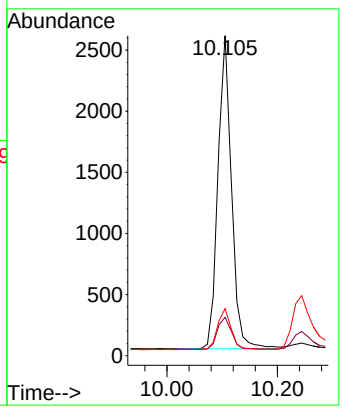




#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:128 Resp: 436

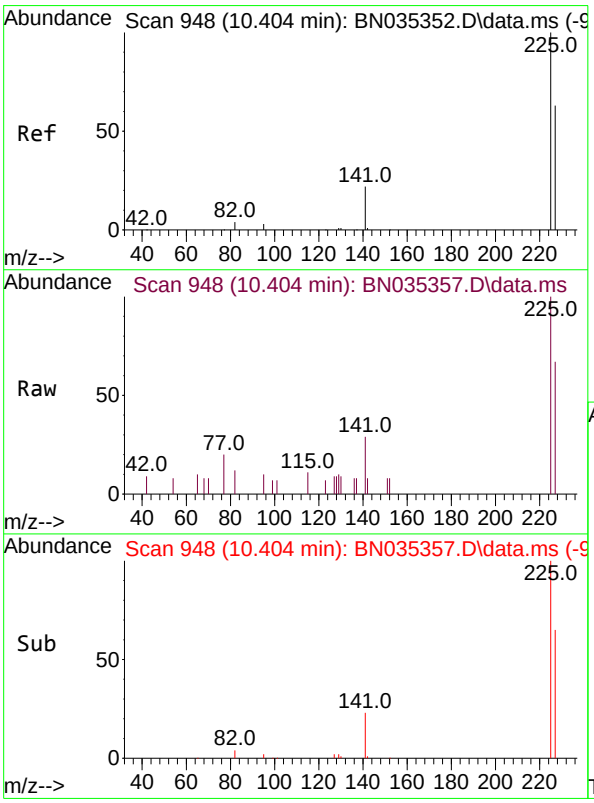
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

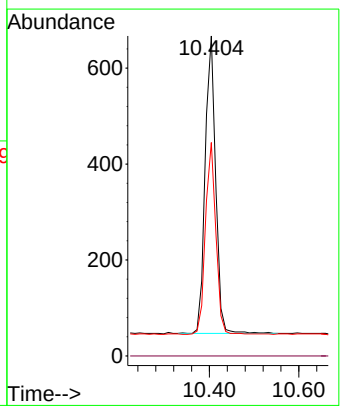
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

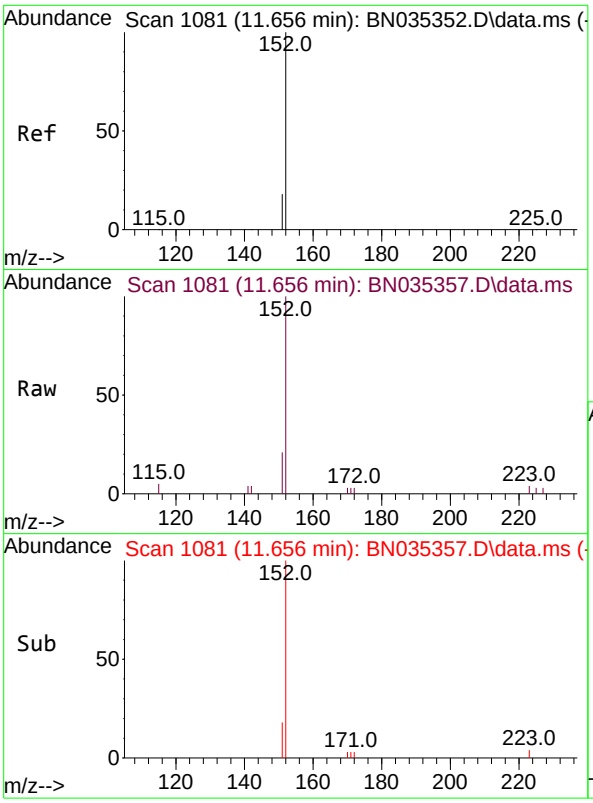


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9

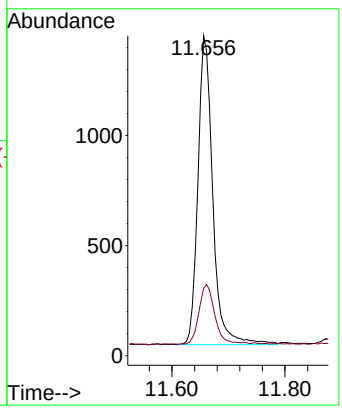




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 256

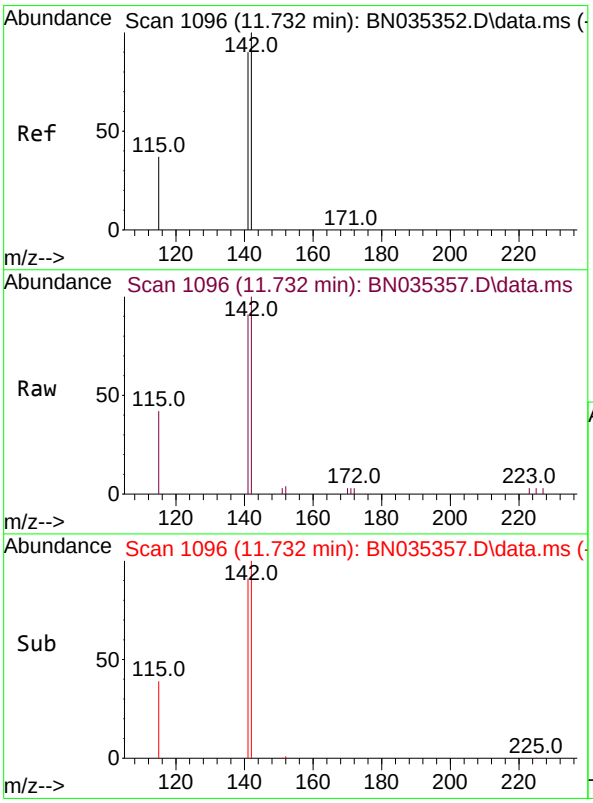
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

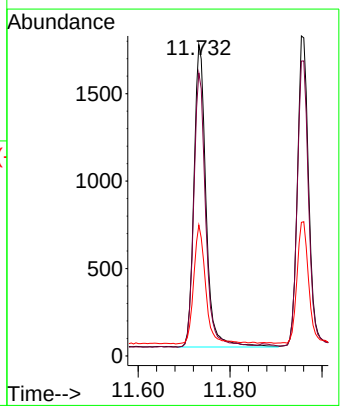
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

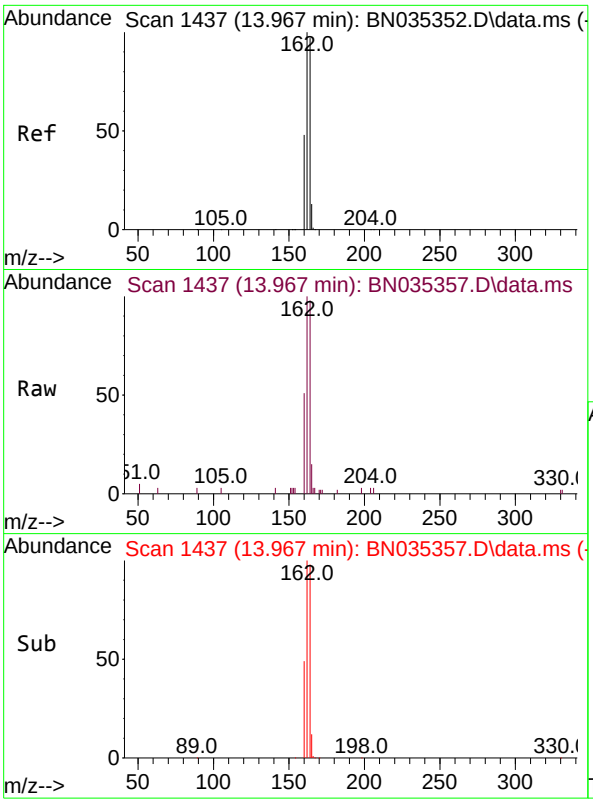


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0

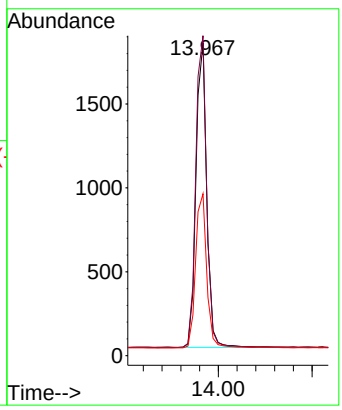




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:164 Resp: 287

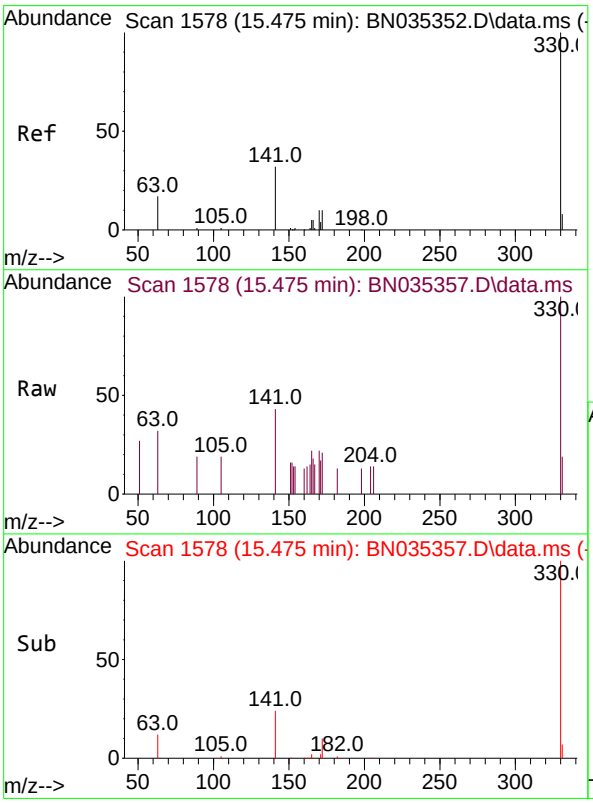
Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

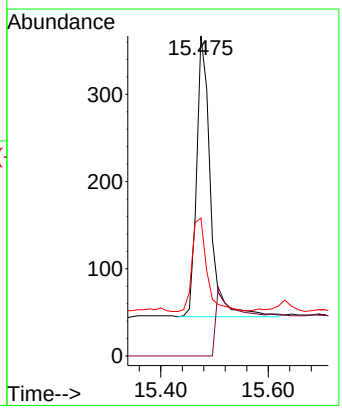
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

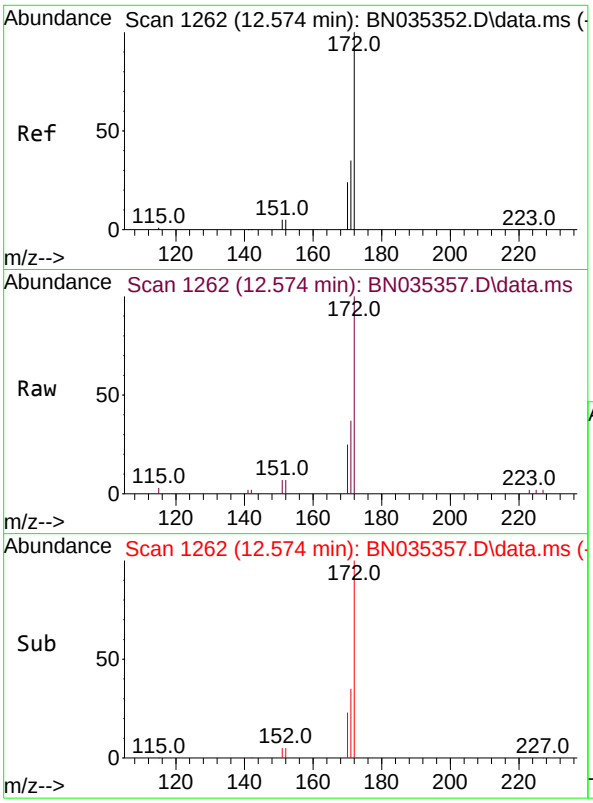


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0

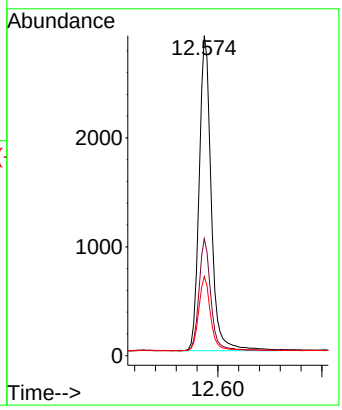




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:172 Resp: 464

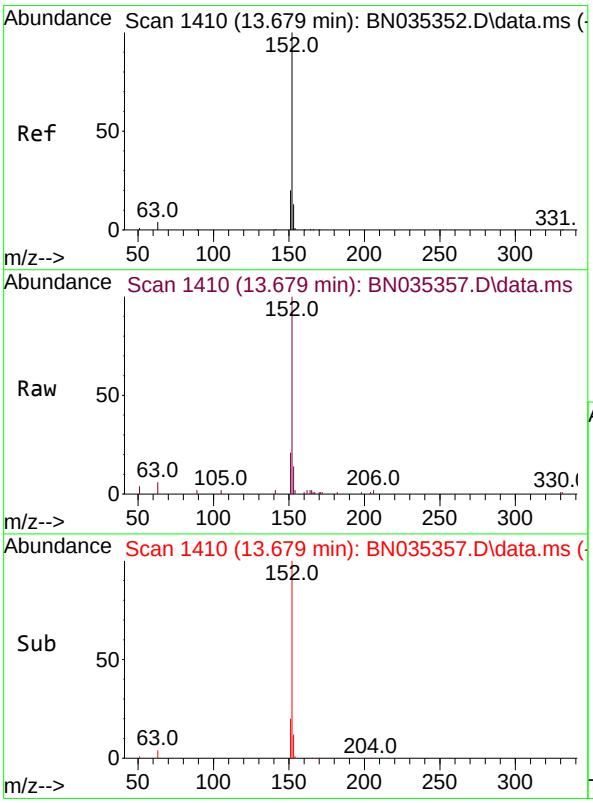
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

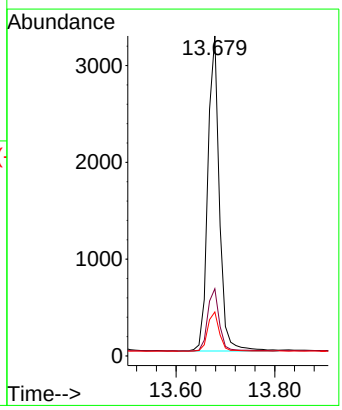
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

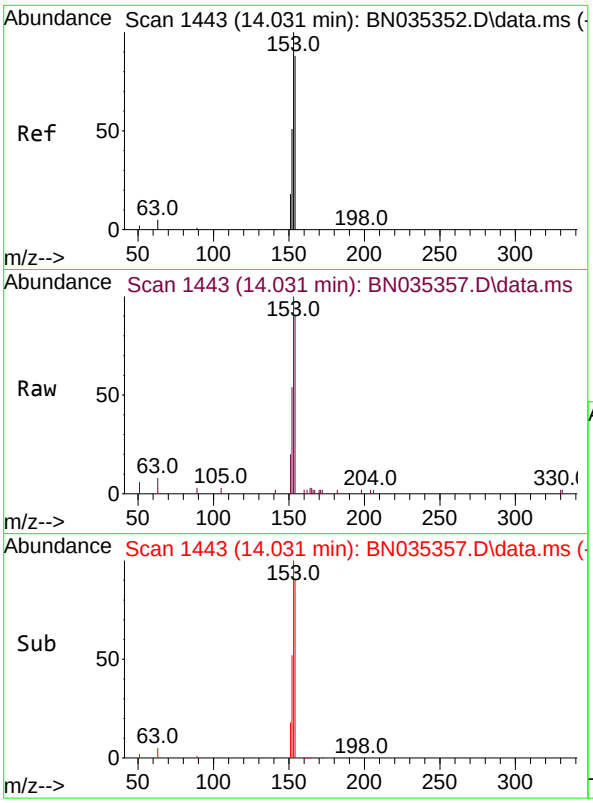


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6

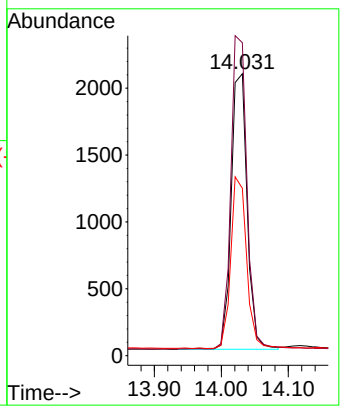




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:154 Resp: 342

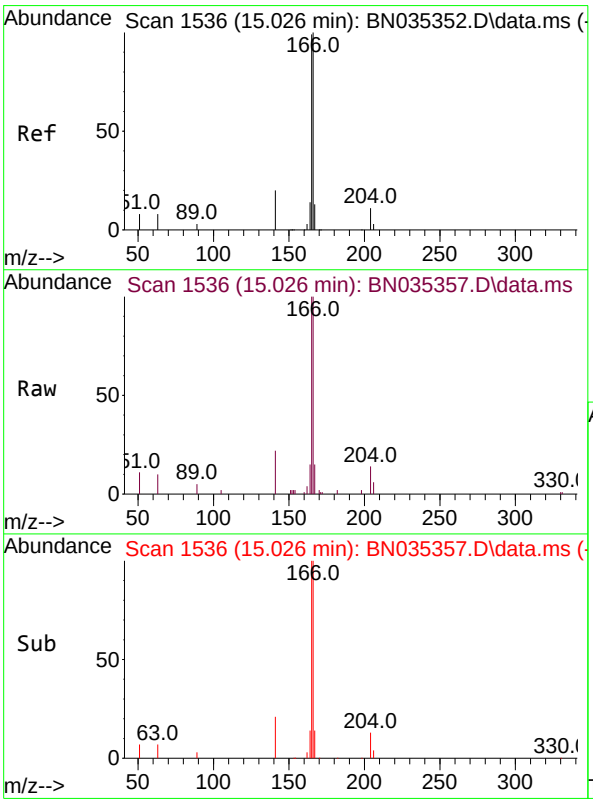
Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
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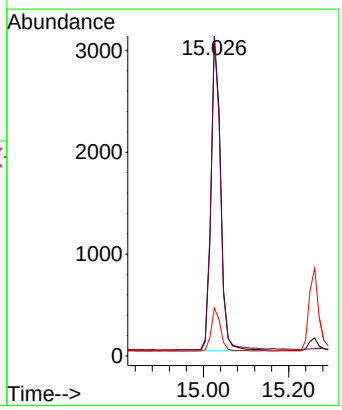
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

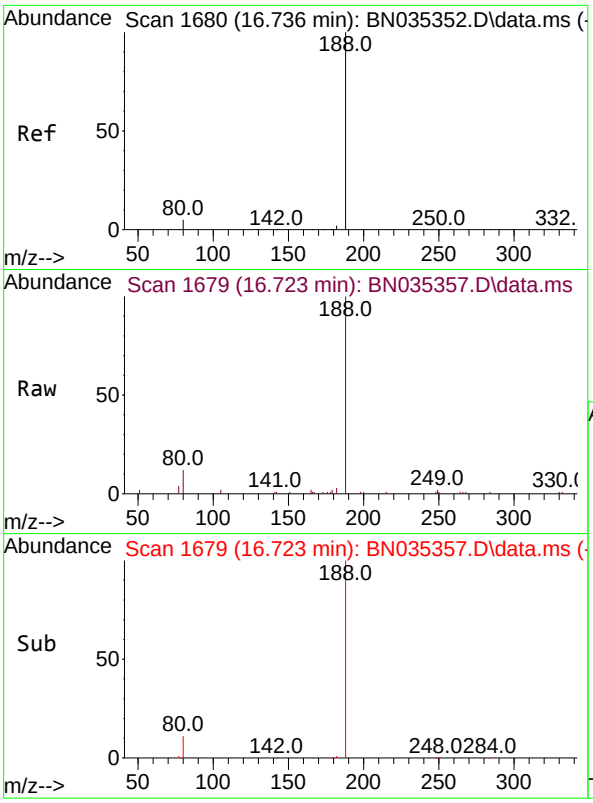


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2

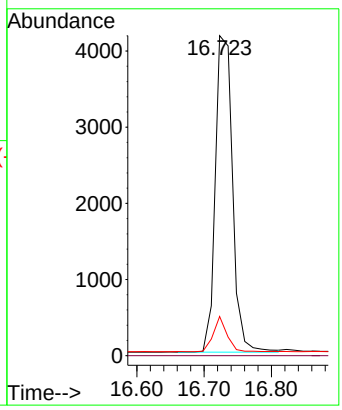




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:188 Resp: 735(

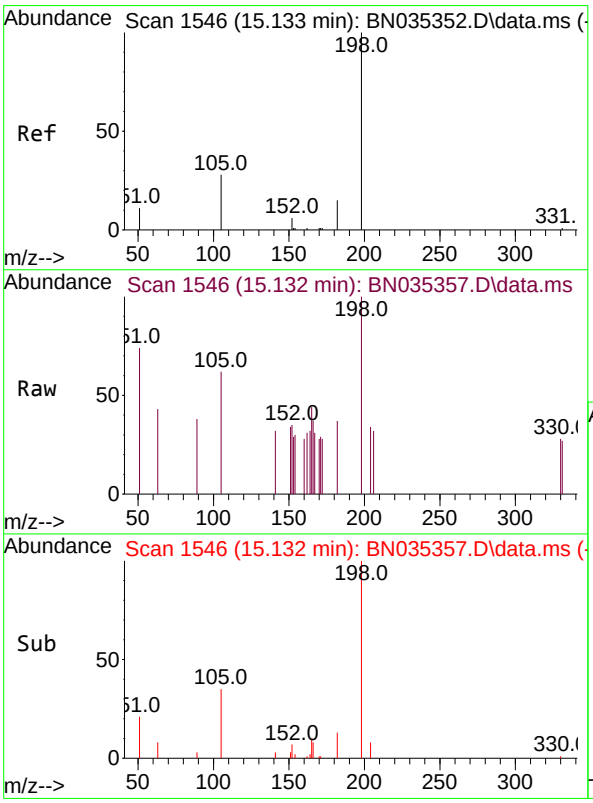
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

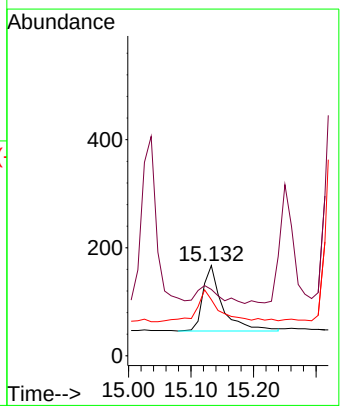
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

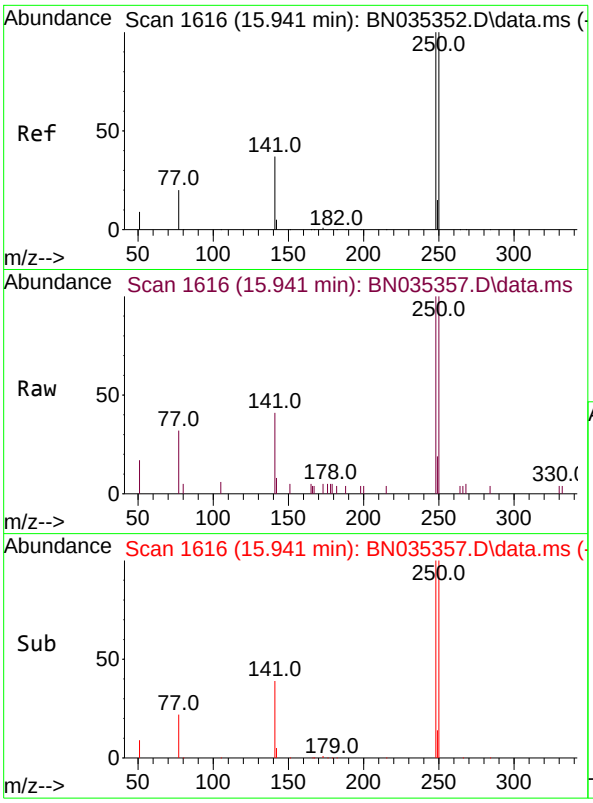


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9

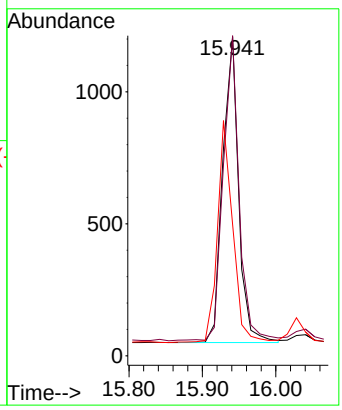




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:248 Resp: 174

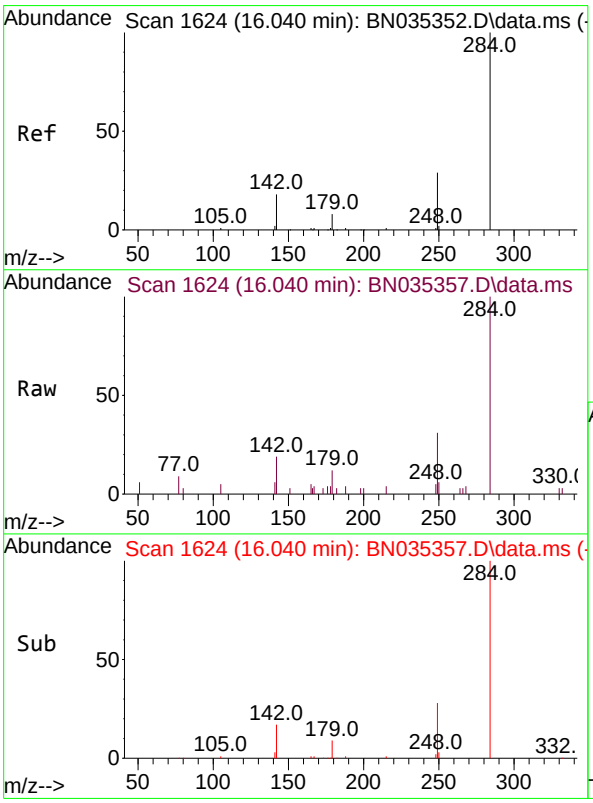
Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

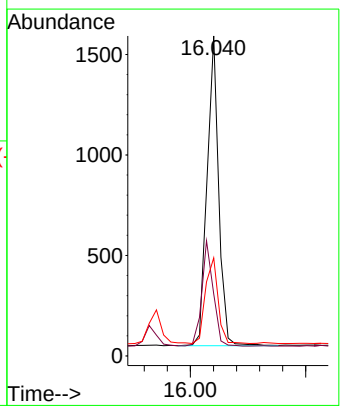
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

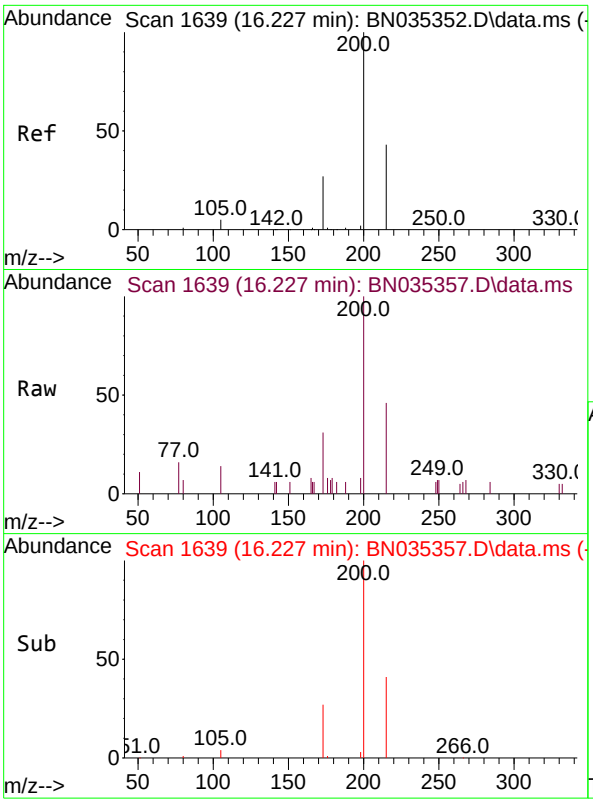


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8

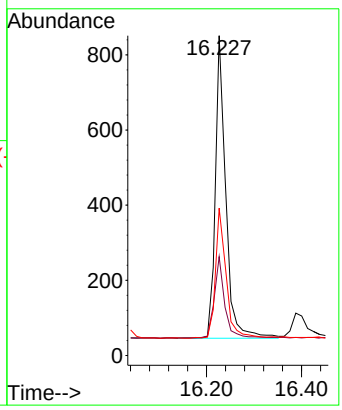




#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:200 Resp: 122

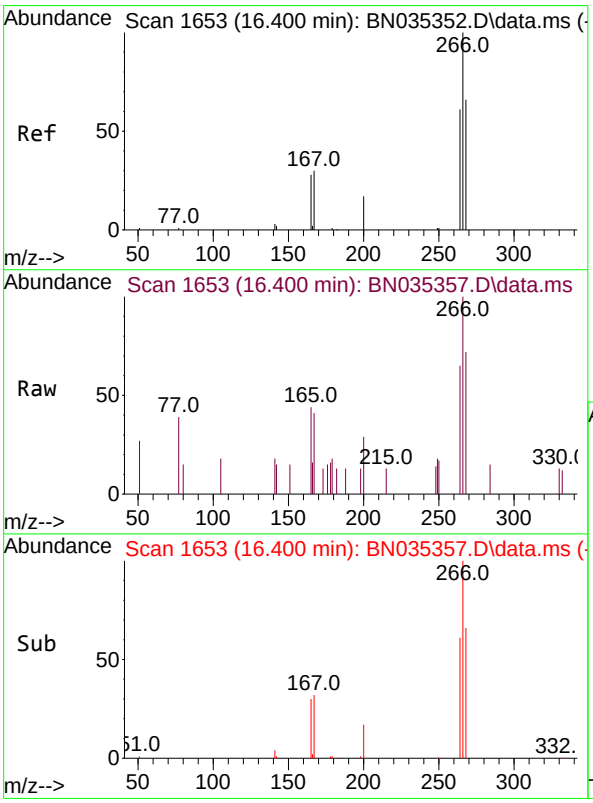
Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
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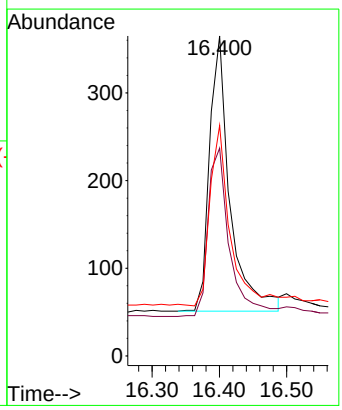
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

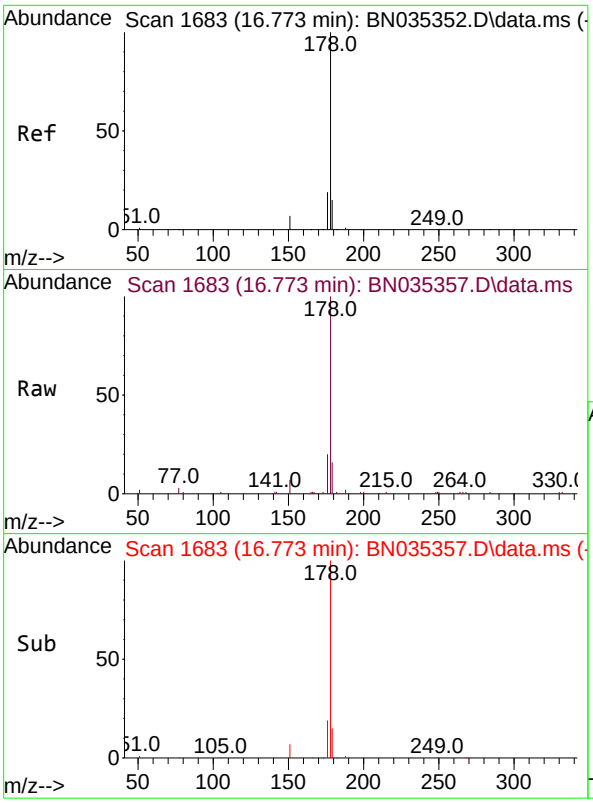


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#

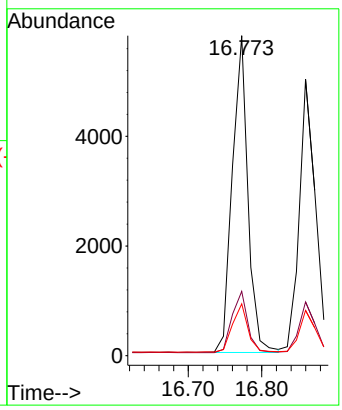




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 850

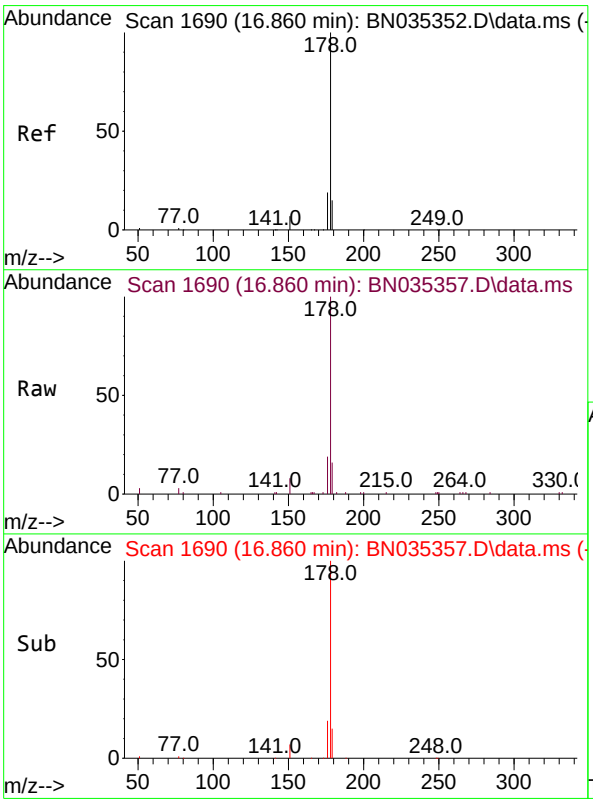
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

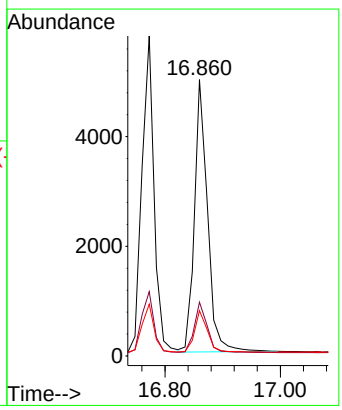
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

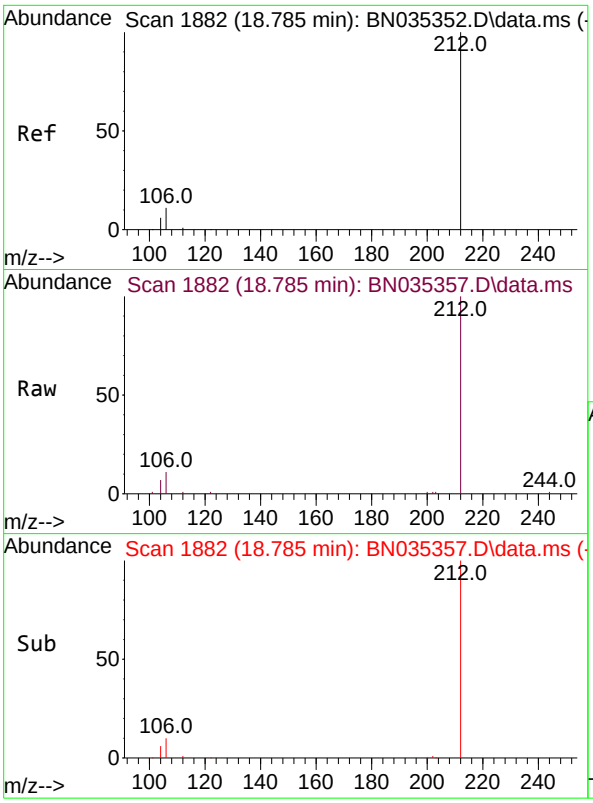


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8

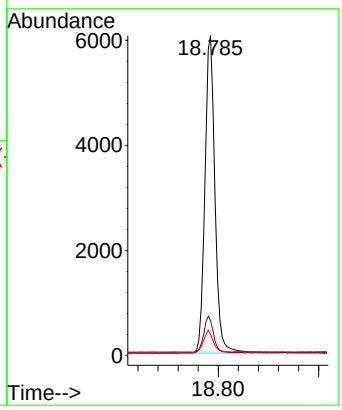




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:212 Resp: 841

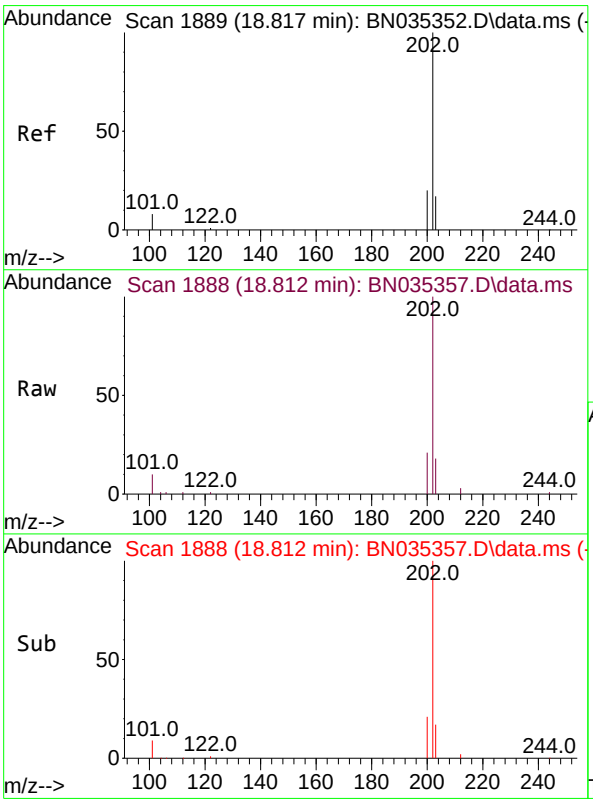
Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

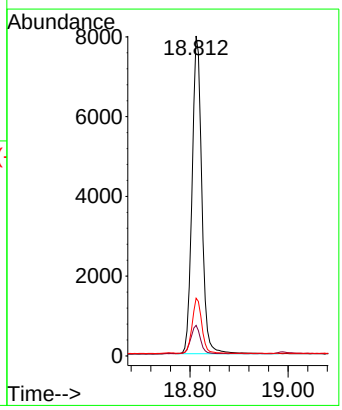
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

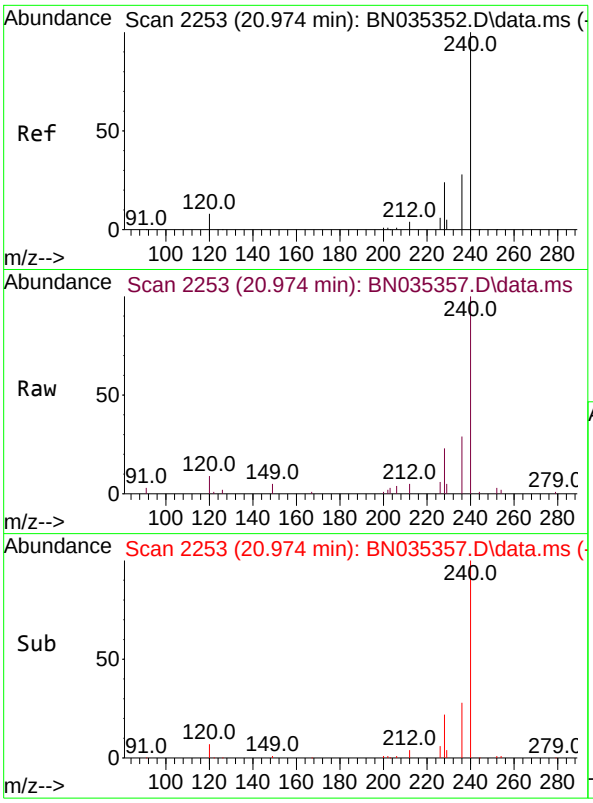


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5

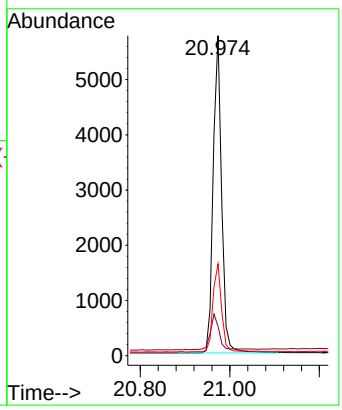




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:240 Resp: 757

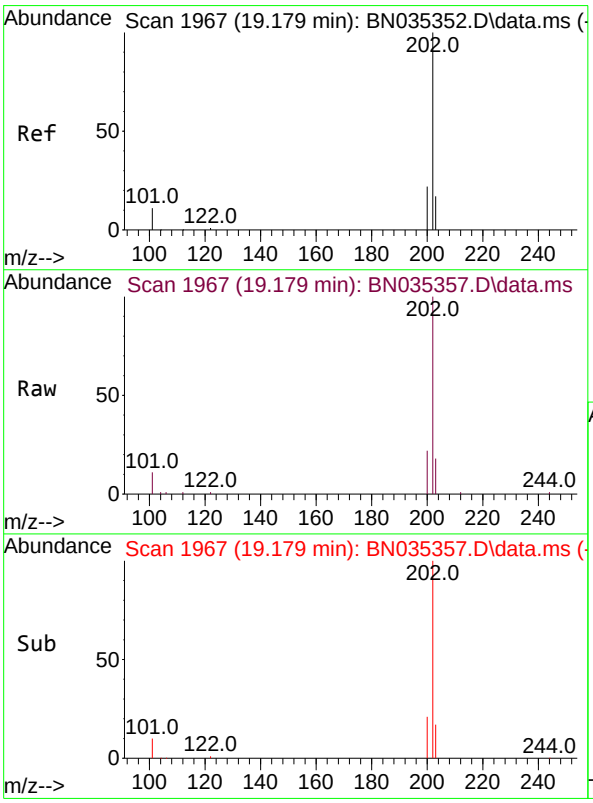
Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

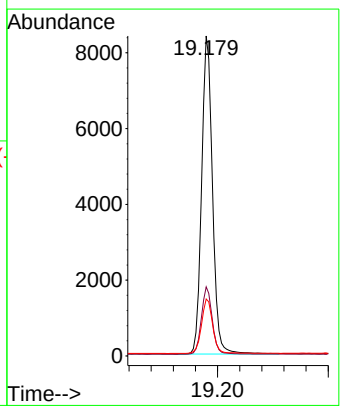
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

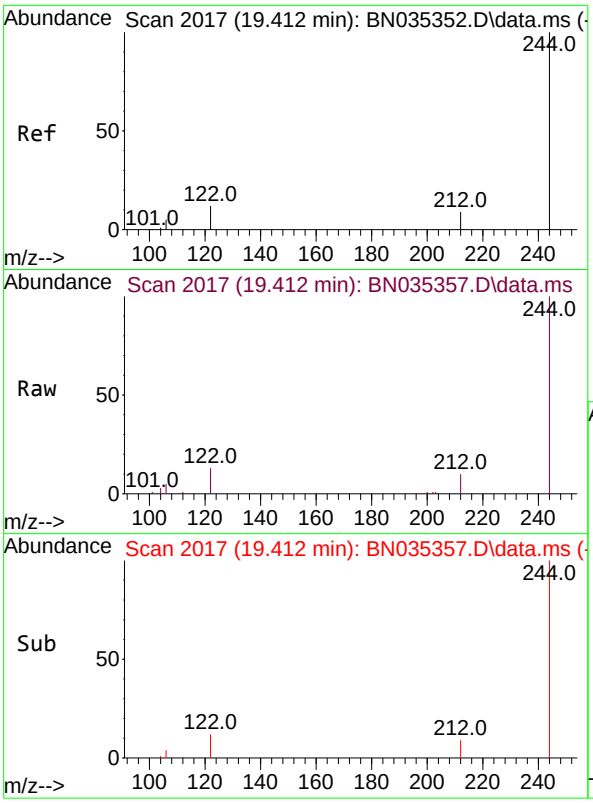


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5

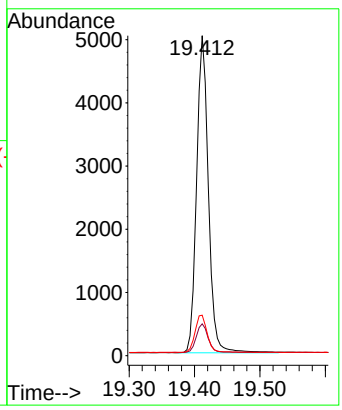




#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:244 Resp: 627

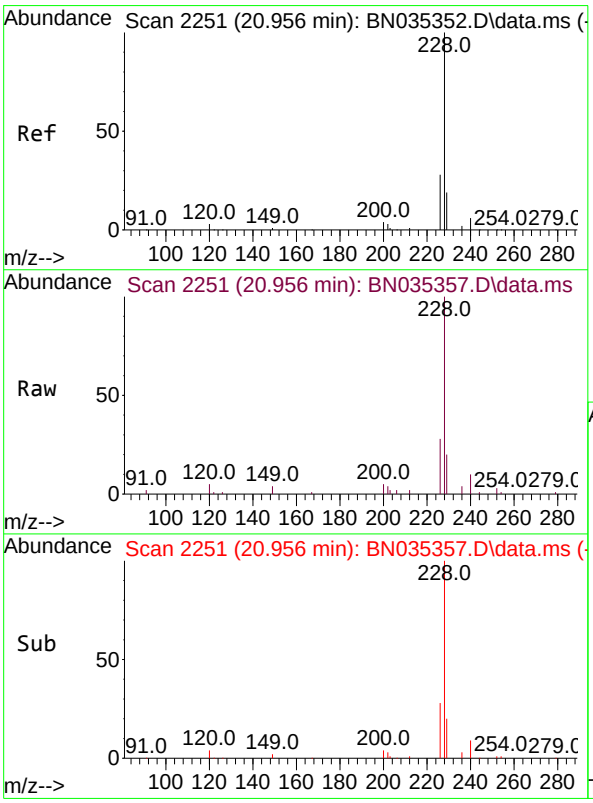
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

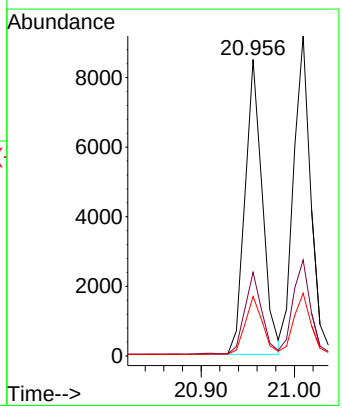
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

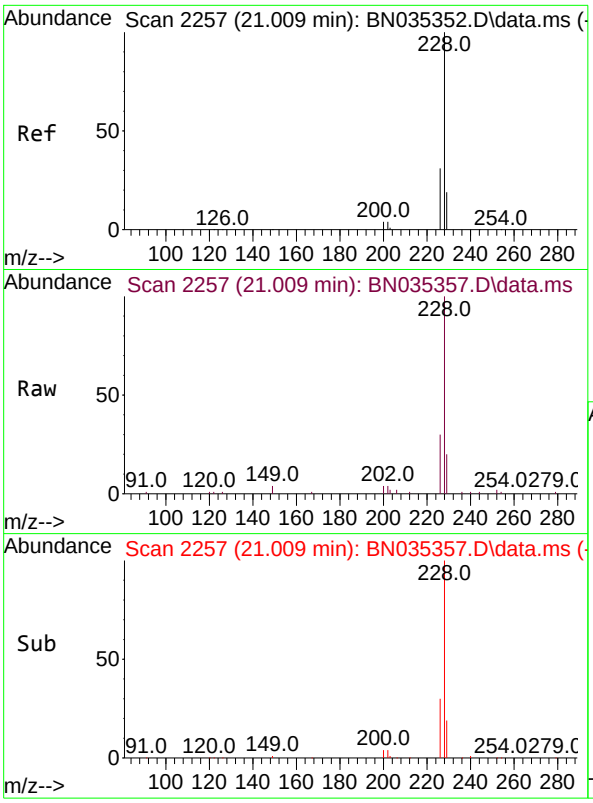


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8

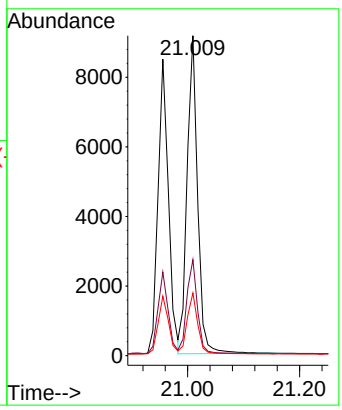




#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 1192

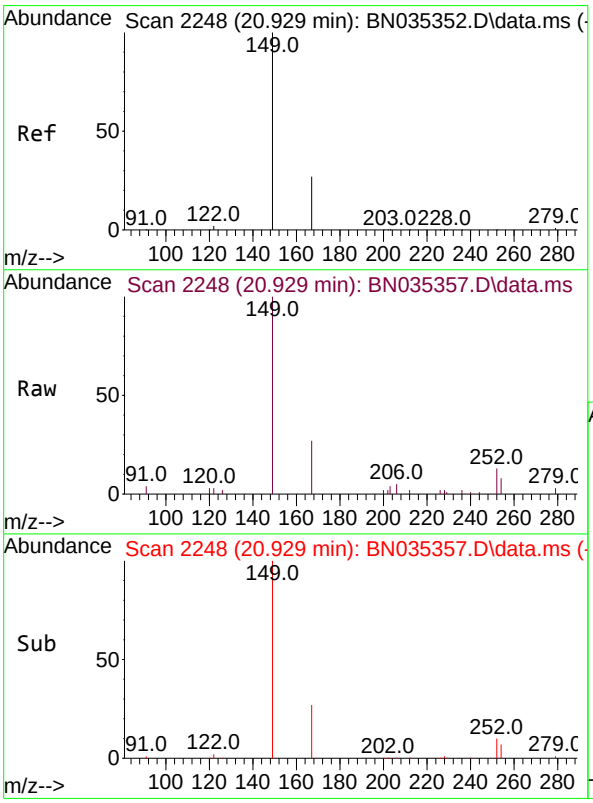
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

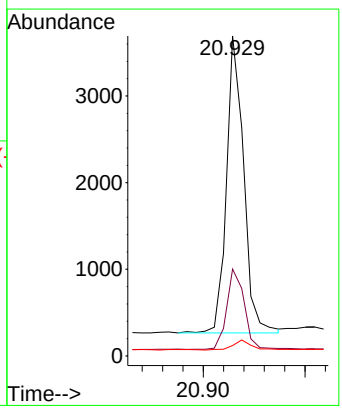
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

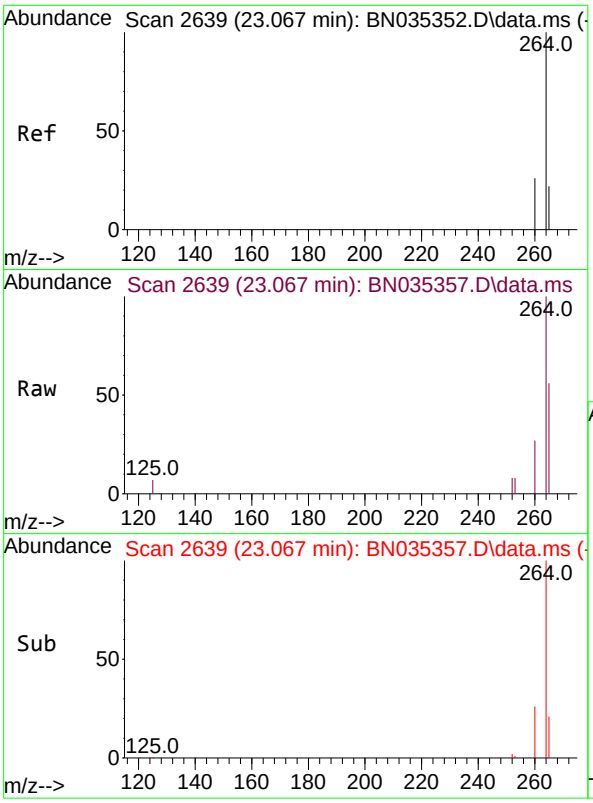


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1

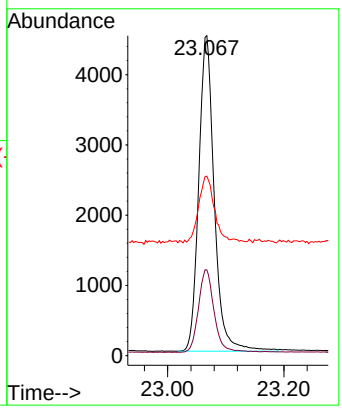




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:264 Resp: 833

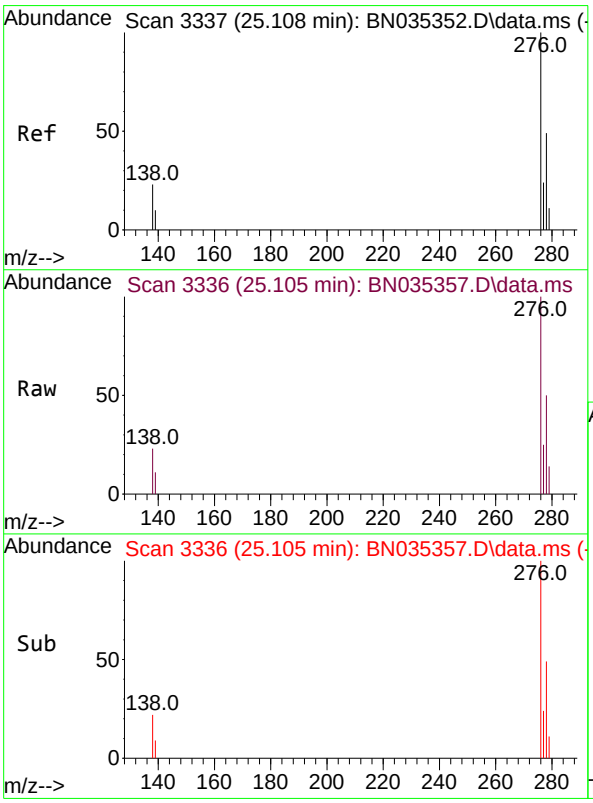
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

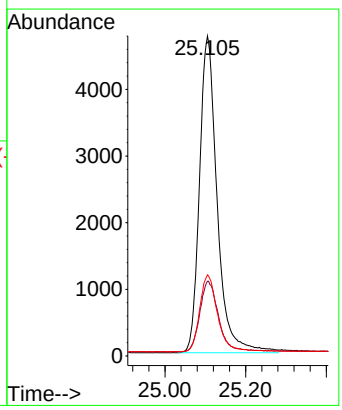
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

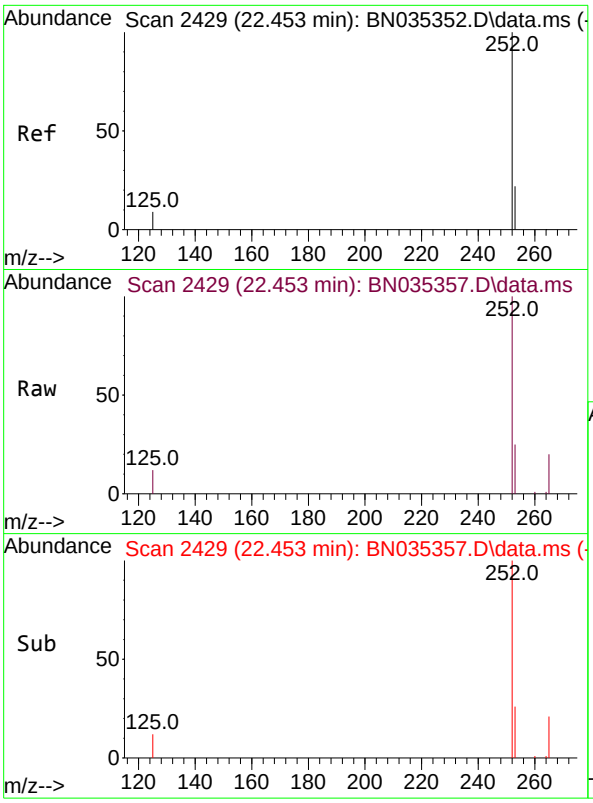


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6

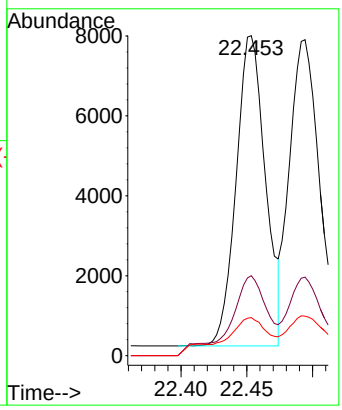




#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1298

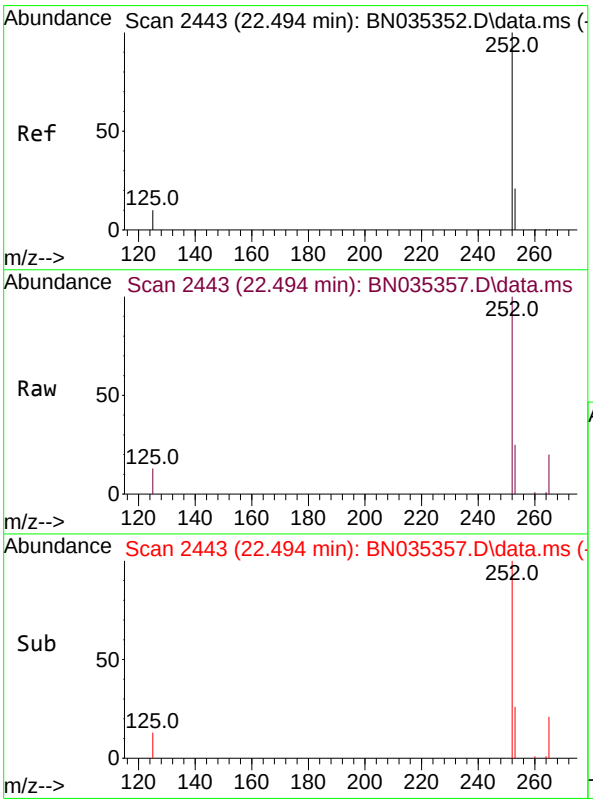
Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

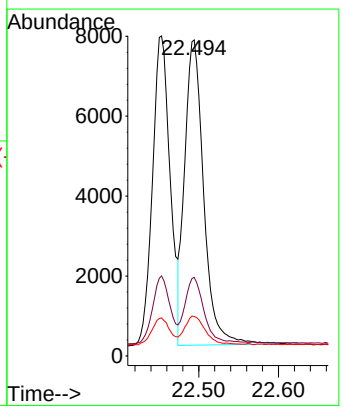
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

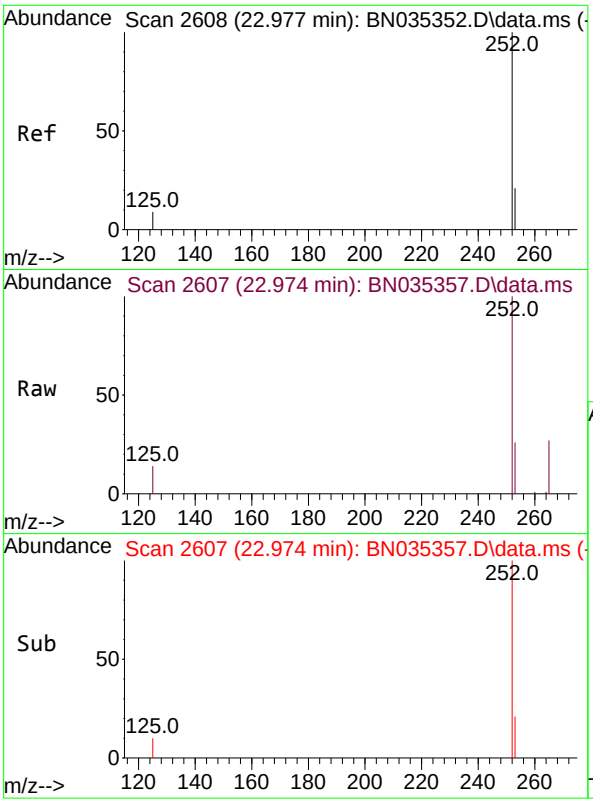


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4

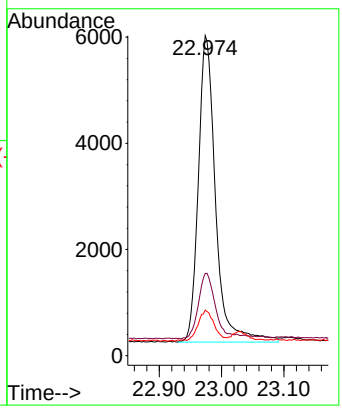




#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1109

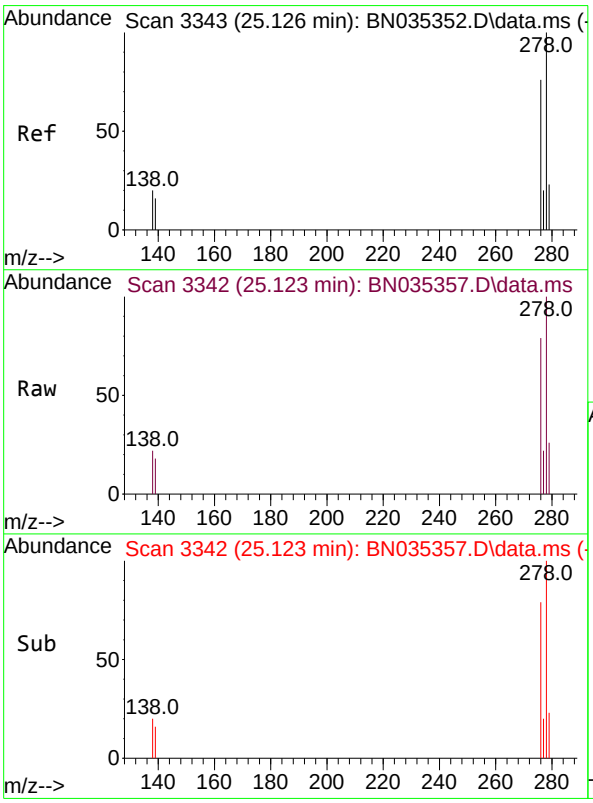
Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

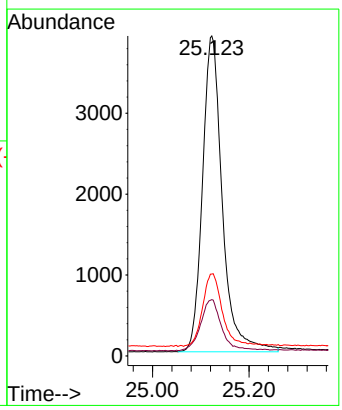
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

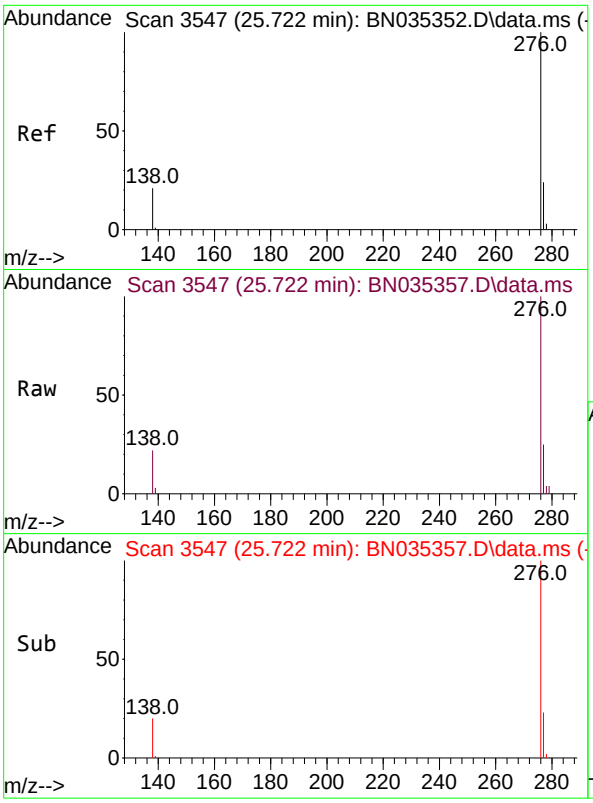


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7

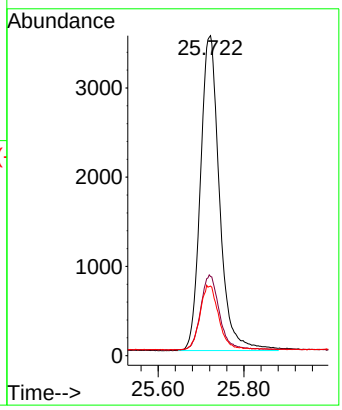




#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 1087

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 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	75	0.00
2		1,4-Dioxane	0.382	0.444	-16.2	89	0.00
3		n-Nitrosodimethylamine	0.319	0.321	-0.6	74	0.00
4	S	2-Fluorophenol	1.001	0.831	17.0	61	0.00
5	S	Phenol-d6	1.204	0.933	22.5	59	0.00
6		bis(2-Chloroethyl)ether	1.012	1.088	-7.5	82	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	75	0.00
8	S	Nitrobenzene-d5	0.244	0.240	1.6	76	0.00
9		Naphthalene	1.055	1.118	-6.0	80	0.00
10		Hexachlorobutadiene	0.243	0.257	-5.8	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.626	0.657	-5.0	79	0.00
12		2-Methylnaphthalene	0.755	0.809	-7.2	82	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.284	0.214	24.6	63	0.00
15	S	2-Fluorobiphenyl	1.512	1.614	-6.7	81	0.00
16		Acenaphthylene	1.680	1.827	-8.8	87	0.00
17		Acenaphthene	1.115	1.188	-6.5	83	0.00
18		Fluorene	1.596	1.676	-5.0	82	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	78	0.00
21		4-Bromophenyl-phenylether	0.234	0.237	-1.3	81	0.00
22		Hexachlorobenzene	0.275	0.293	-6.5	83	0.00
23		Atrazine	0.167	0.167	0.0	84	0.00
24		Pentachlorophenol	0.120	0.090	25.0	73	0.00
25		Phenanthrene	1.099	1.158	-5.4	84	0.00
26		Anthracene	0.994	1.068	-7.4	88	0.00
27	SURR	Fluoranthene-d10	1.134	1.145	-1.0	82	0.00
28		Fluoranthene	1.481	1.489	-0.5	81	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	80	0.00
30		Pyrene	1.477	1.515	-2.6	82	0.00
31	S	Terphenyl-d14	0.789	0.828	-4.9	83	0.00
32		Benzo(a)anthracene	1.399	1.443	-3.1	85	0.00
33		Chrysene	1.443	1.574	-9.1	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.530	4.2	82	0.00
35	I	Perylene-d12	1.000	1.000	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.731	-10.7	87	0.00
37		Benzo(b)fluoranthene	1.463	1.558	-6.5	91	0.00
38		Benzo(k)fluoranthene	1.440	1.519	-5.5	83	0.00
39	C	Benzo(a)pyrene	1.205	1.331	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	1.234	1.336	-8.3	86	0.00
41		Benzo(g,h,i)perylene	1.289	1.304	-1.2	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 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	75	0.00
2		1,4-Dioxane	0.400	0.465	-16.3	89	0.00
3		n-Nitrosodimethylamine	0.400	0.404	-1.0	74	0.00
4	S	2-Fluorophenol	0.400	0.332	17.0	61	0.00
5	S	Phenol-d6	0.400	0.310	22.5	59	0.00
6		bis(2-Chloroethyl)ether	0.400	0.430	-7.5	82	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	75	0.00
8	S	Nitrobenzene-d5	0.400	0.393	1.8	76	0.00
9		Naphthalene	0.400	0.424	-6.0	80	0.00
10		Hexachlorobutadiene	0.400	0.423	-5.7	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	79	0.00
12		2-Methylnaphthalene	0.400	0.428	-7.0	82	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.400	0.302	24.5	63	0.00
15	S	2-Fluorobiphenyl	0.400	0.427	-6.7	81	0.00
16		Acenaphthylene	0.400	0.435	-8.7	87	0.00
17		Acenaphthene	0.400	0.426	-6.5	83	0.00
18		Fluorene	0.400	0.420	-5.0	82	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	78	0.00
21		4-Bromophenyl-phenylether	0.400	0.405	-1.3	81	0.00
22		Hexachlorobenzene	0.400	0.426	-6.5	83	0.00
23		Atrazine	0.400	0.401	-0.3	84	0.00
24		Pentachlorophenol	0.400	0.301	24.8	73	0.00
25		Phenanthrene	0.400	0.421	-5.2	84	0.00
26		Anthracene	0.400	0.430	-7.5	88	0.00
27	SURR	Fluoranthene-d10	0.400	0.404	-1.0	82	0.00
28		Fluoranthene	0.400	0.402	-0.5	81	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	80	0.00
30		Pyrene	0.400	0.410	-2.5	82	0.00
31	S	Terphenyl-d14	0.400	0.420	-5.0	83	0.00
32		Benzo(a)anthracene	0.400	0.413	-3.2	85	0.00
33		Chrysene	0.400	0.436	-9.0	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.384	4.0	82	0.00
35	I	Perylene-d12	0.400	0.400	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.443	-10.7	87	0.00
37		Benzo(b)fluoranthene	0.400	0.426	-6.5	91	0.00
38		Benzo(k)fluoranthene	0.400	0.422	-5.5	83	0.00
39	C	Benzo(a)pyrene	0.400	0.442	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	0.400	0.433	-8.2	86	0.00
41		Benzo(g,h,i)perylene	0.400	0.404	-1.0	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 08:59

Lab File ID: BN035811.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.541		-13.6	20.0
Fluoranthene-d10	1.134	0.953		-16.0	20.0
2-Fluorophenol	1.001	0.931		-7.0	20.0
Phenol-d6	1.204	1.289		7.1	20.0
Nitrobenzene-d5	0.244	0.285		16.8	20.0
2-Fluorobiphenyl	1.512	1.523		0.7	20.0
2,4,6-Tribromophenol	0.284	0.214		-24.6	20.0
Terphenyl-d14	0.789	0.804		1.9	20.0
1,4-Dioxane	0.382	0.457		19.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3972	0.400	ng		0.00
7) Naphthalene-d8	9.998	136	9483	0.400	ng		-0.02
13) Acenaphthene-d10	13.924	164	5387	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10855	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8569	0.400	ng		0.00
35) Perylene-d12	23.029	264	8879	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3699	0.372	ng		-0.01
5) Phenol-d6	6.470	99	5118	0.428	ng		-0.02
8) Nitrobenzene-d5	8.397	82	2707m	0.467	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5128	0.346	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1155	0.302	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	8203	0.403	ng		-0.01
27) Fluoranthene-d10	18.752	212	10340	0.336	ng		0.00
31) Terphenyl-d14	19.384	244	6888	0.407	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1814	0.478	ng		98
3) n-Nitrosodimethylamine	3.270	42	1302	0.412	ng	#	91
6) bis(2-Chloroethyl)ether	6.715	93	3672	0.366	ng		99
9) Naphthalene	10.052	128	9671	0.387	ng		99
10) Hexachlorobutadiene	10.340	225	2548	0.442	ng	#	100
12) 2-Methylnaphthalene	11.686	142	6060	0.338	ng		100
16) Acenaphthylene	13.636	152	8415	0.372	ng		100
17) Acenaphthene	13.978	154	5782	0.385	ng		99
18) Fluorene	14.993	166	7456	0.347	ng		100
20) 4,6-Dinitro-2-methylph...	15.122	198	244	0.229	ng	#	7
21) 4-Bromophenyl-phenylether	15.904	248	2379	0.375	ng	#	93
22) Hexachlorobenzene	16.003	284	3393	0.455	ng		97
23) Atrazine	16.202	200	1640	0.363	ng		96
24) Pentachlorophenol	16.363	266	1040	0.321	ng		87
25) Phenanthrene	16.735	178	10950	0.367	ng		99
26) Anthracene	16.835	178	9488	0.352	ng		100
28) Fluoranthene	18.780	202	13421	0.334	ng		99
30) Pyrene	19.151	202	13577	0.429	ng		100
32) Benzo(a)anthracene	20.929	228	9796	0.327	ng		99
33) Chrysene	20.982	228	13234	0.428	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4719	0.399	ng		100
36) Indeno(1,2,3-cd)pyrene	25.049	276	12494	0.360	ng		99
37) Benzo(b)fluoranthene	22.418	252	16964	0.522	ng	#	95
38) Benzo(k)fluoranthene	22.459	252	13236m	0.414	ng		
39) Benzo(a)pyrene	22.939	252	10000	0.374	ng	#	91
40) Dibenzo(a,h)anthracene	25.073	278	8960	0.327	ng		94
41) Benzo(g,h,i)perylene	25.658	276	11606	0.405	ng		99

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

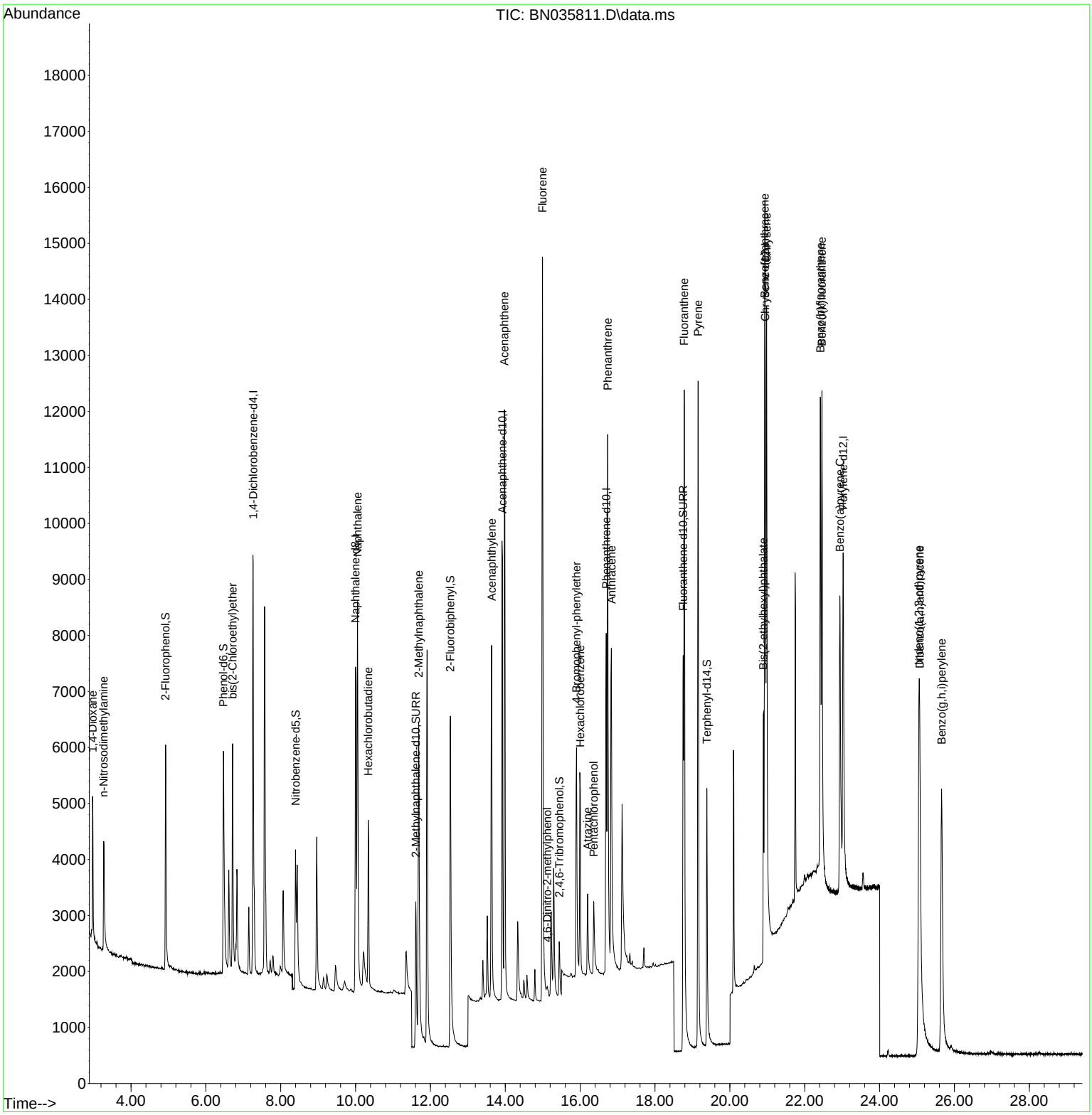
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

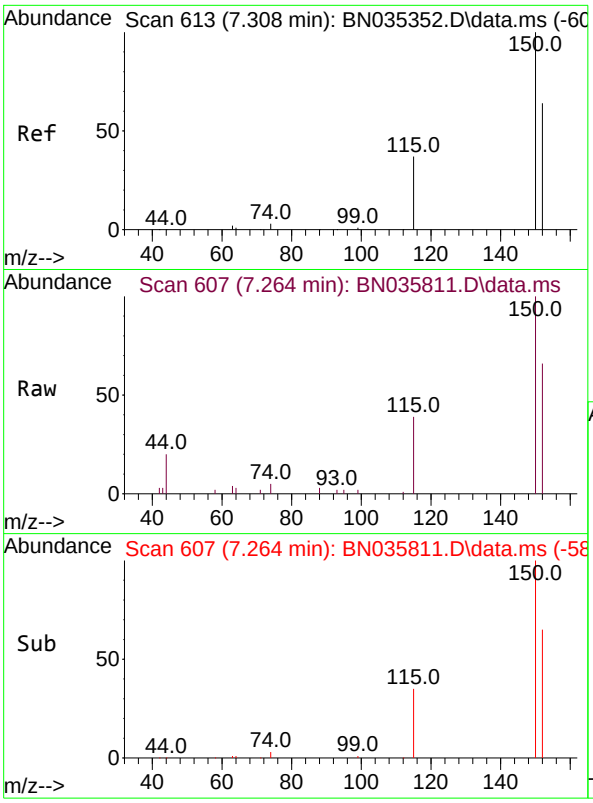
Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

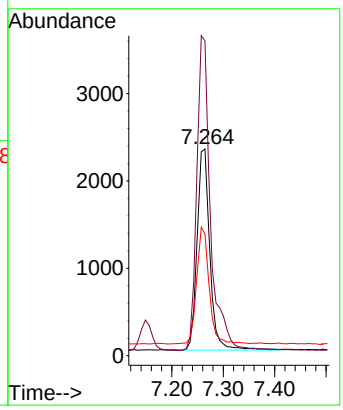




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 397

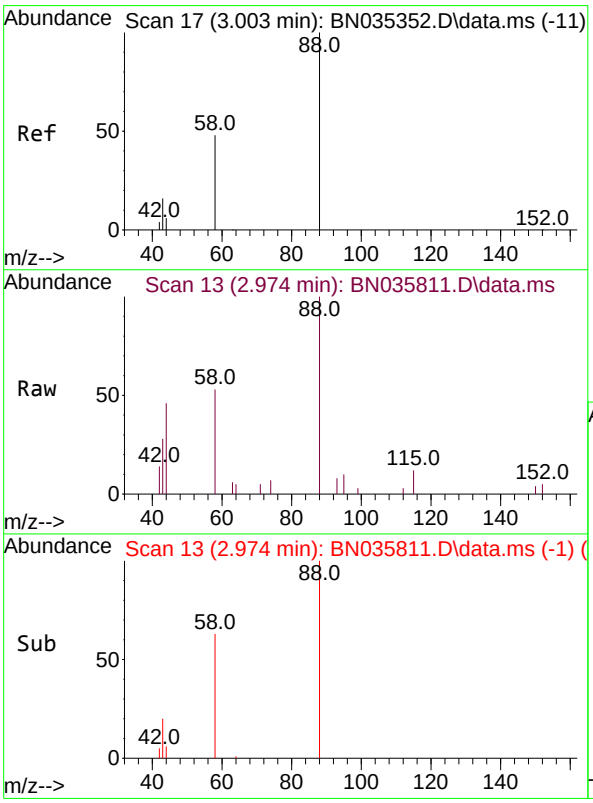
Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.0	186.0
115	58.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

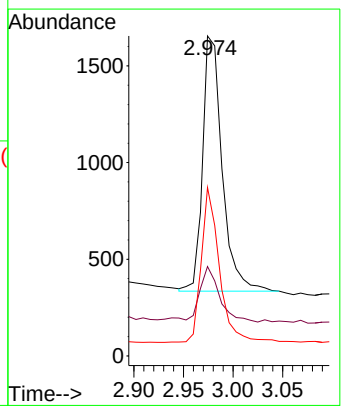
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

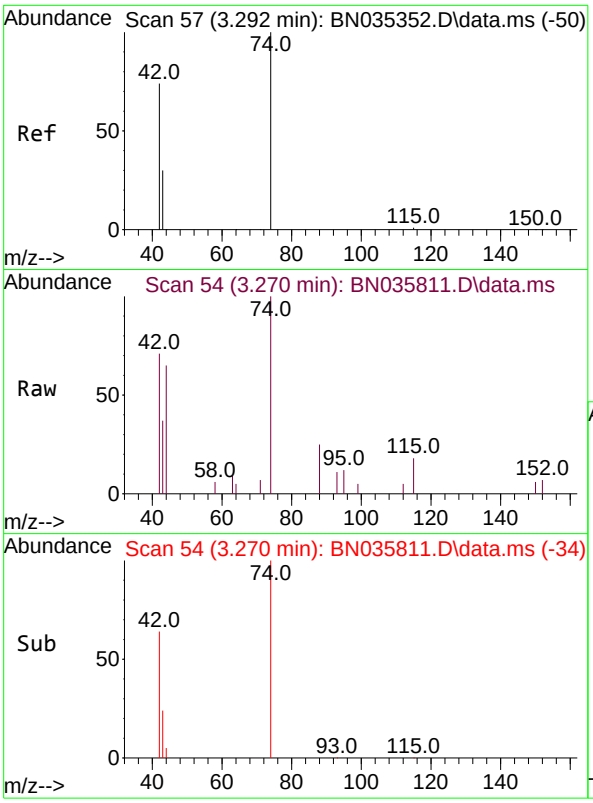


#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 88 Resp: 1814

Ion	Ratio	Lower	Upper
88	100		
43	23.2	17.2	25.8
58	56.2	44.5	66.7

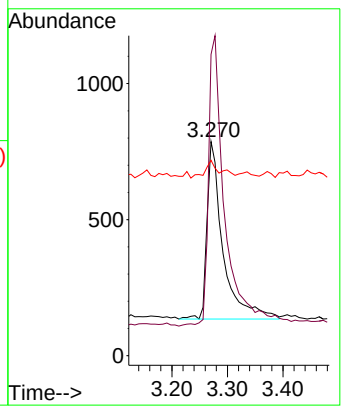




#3
n-Nitrosodimethylamine
Concen: 0.412 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

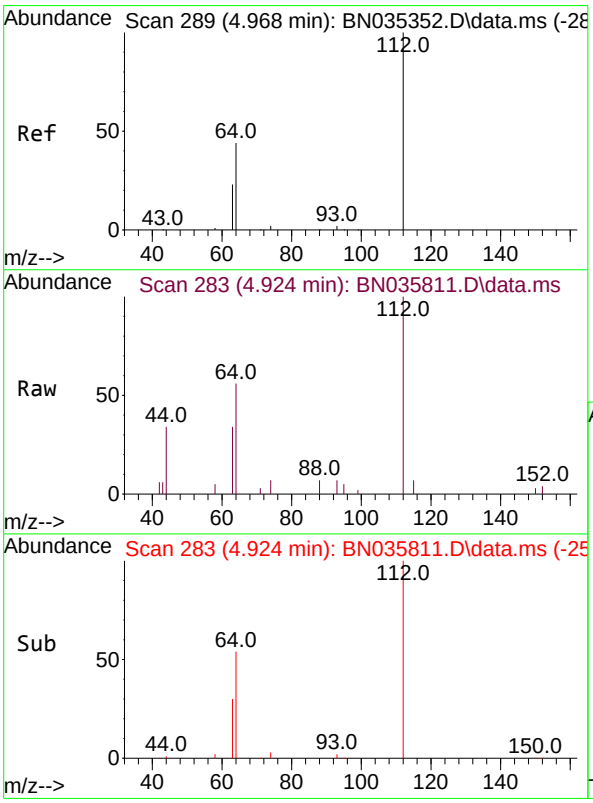
Tgt Ion: 42 Resp: 130

Ion	Ratio	Lower	Upper
42	100		
74	167.4	124.9	187.3
44	5.4	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

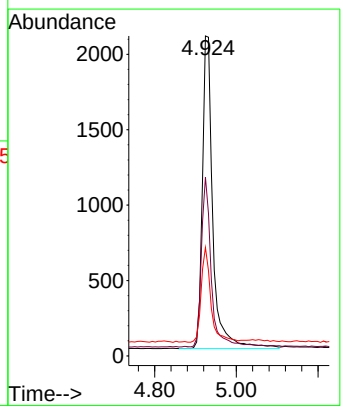
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

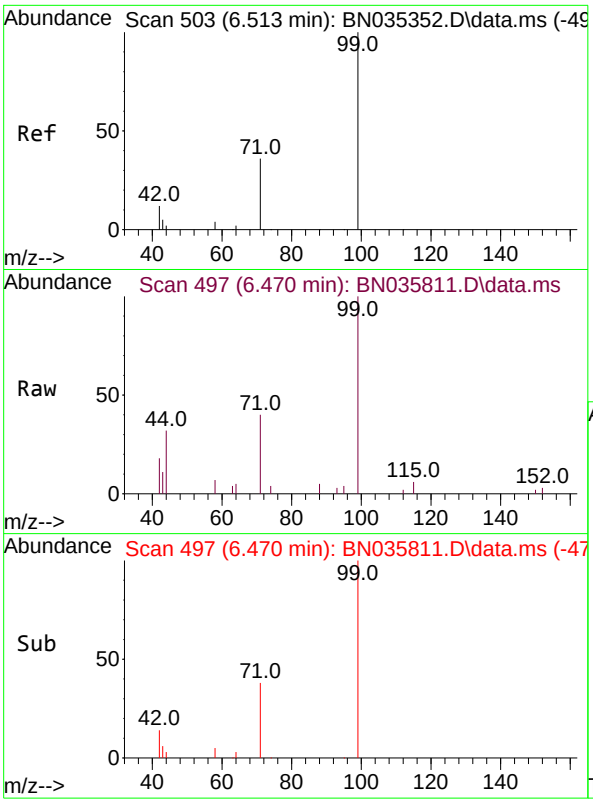


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:112 Resp: 3699

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6

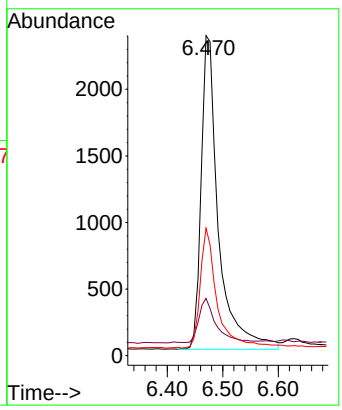




#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 99 Resp: 511

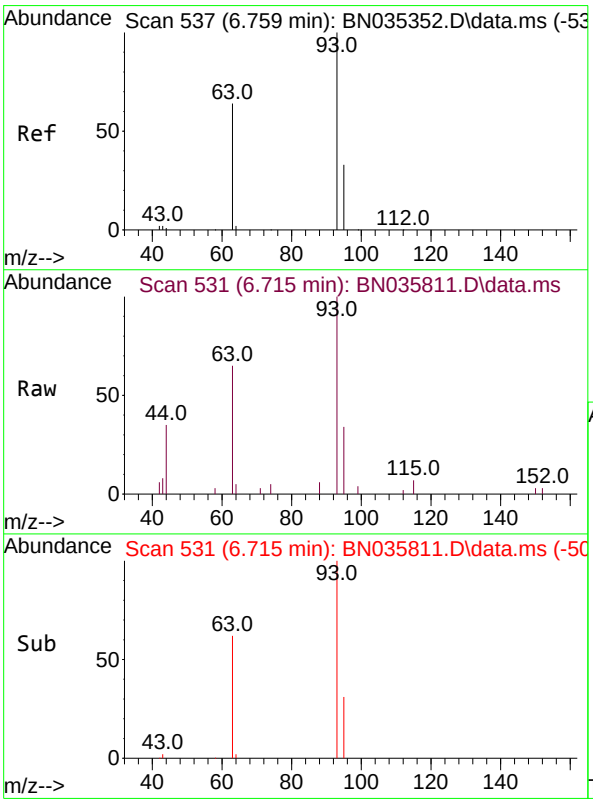
Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

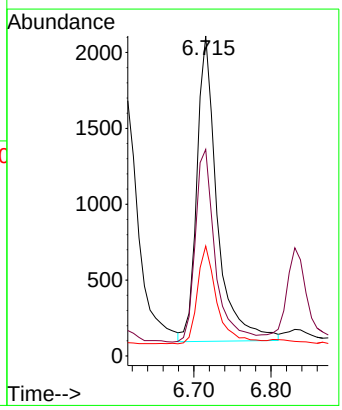
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

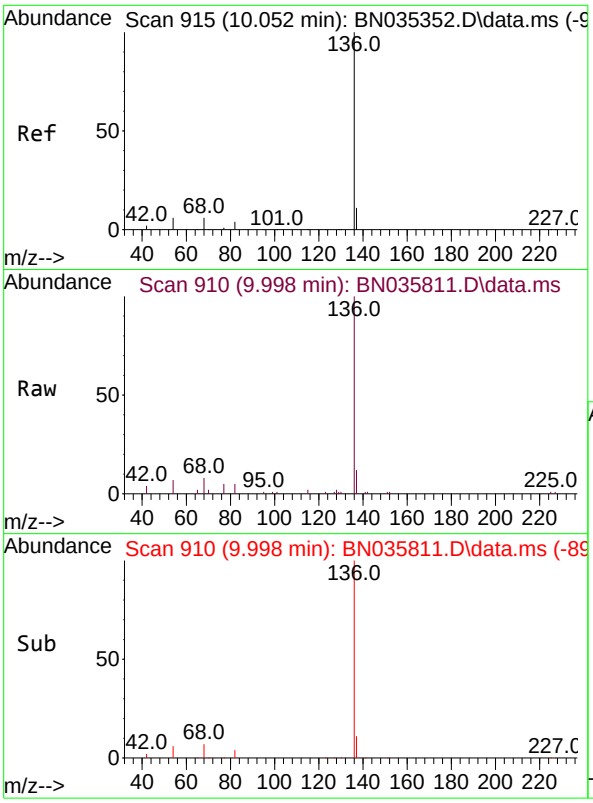


#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 93 Resp: 3672

Ion	Ratio	Lower	Upper
93	100		
63	62.3	50.4	75.6
95	30.7	25.7	38.5

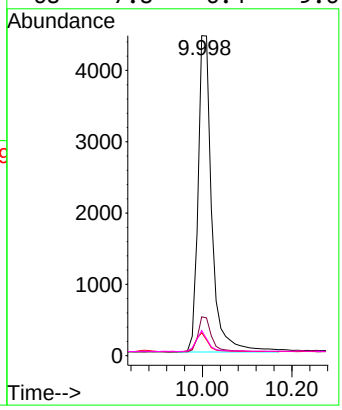




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:136 Resp: 948

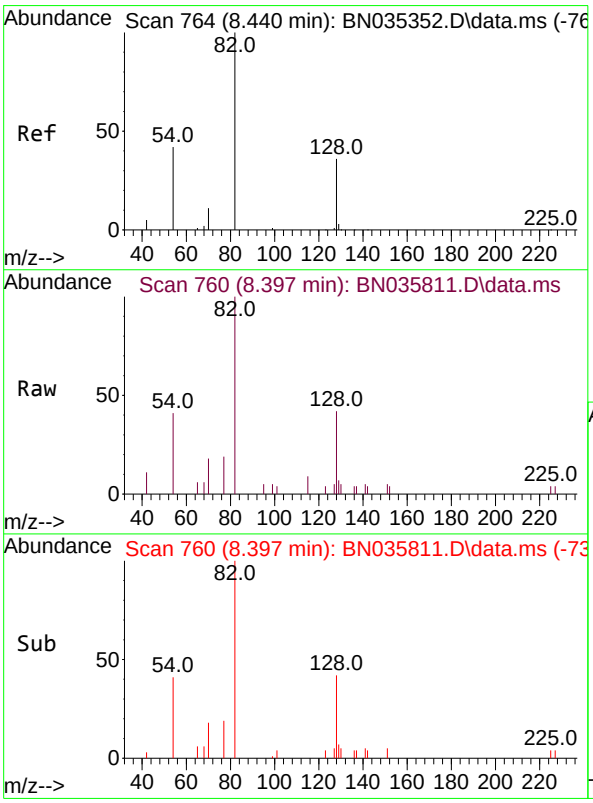
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.1	6.1	9.1
68	7.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

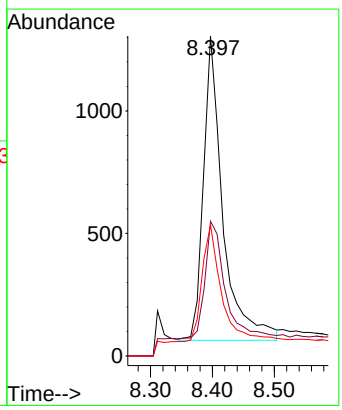
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

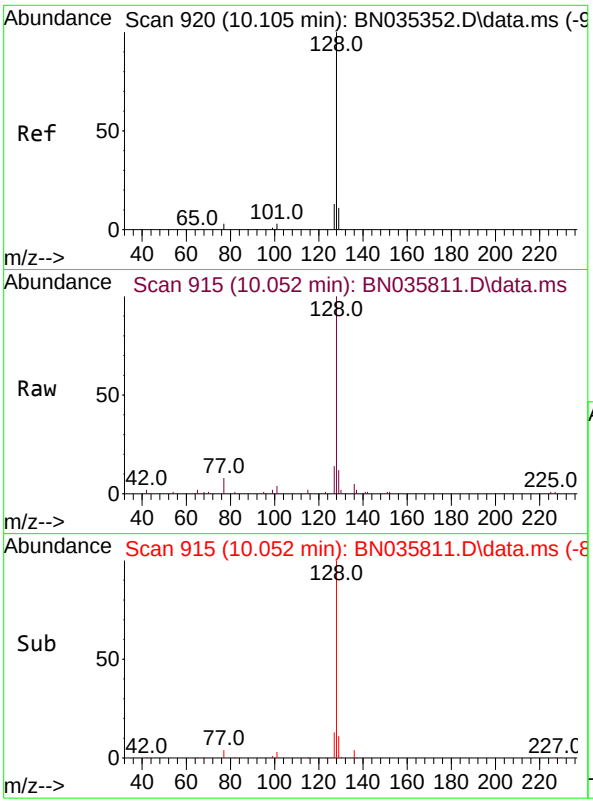


#8
Nitrobenzene-d5
Concen: 0.467 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 82 Resp: 2707

Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.4	50.0
54	41.0	36.7	55.1

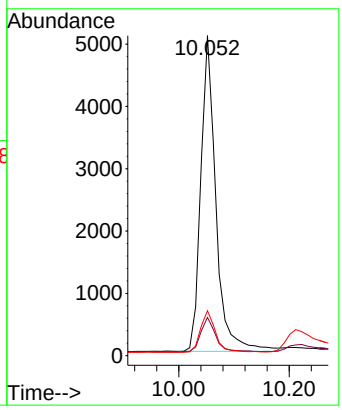




#9
Naphthalene
Concen: 0.387 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:128 Resp: 967

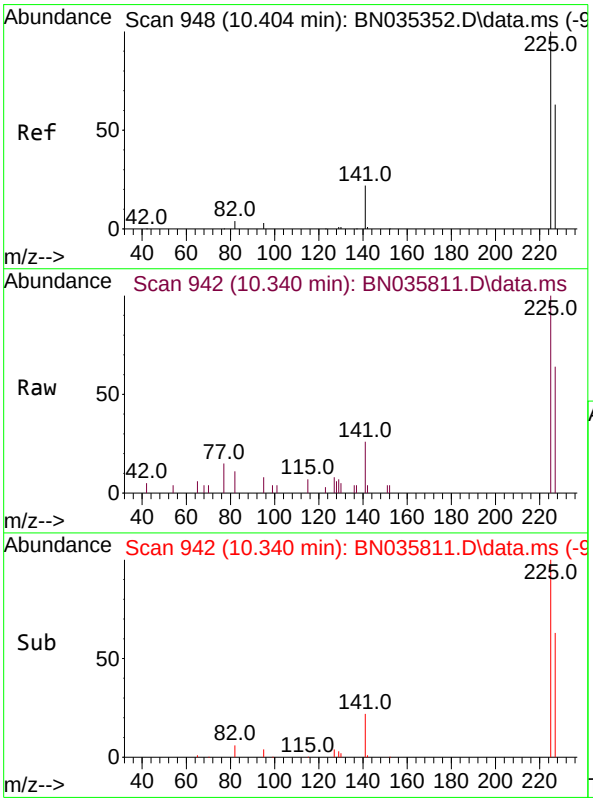
Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.1	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

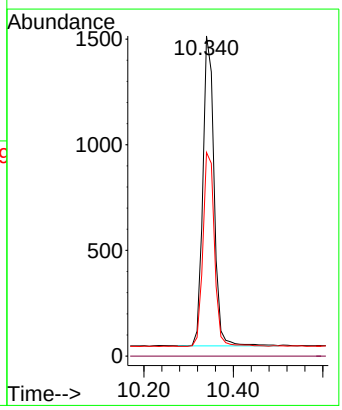
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

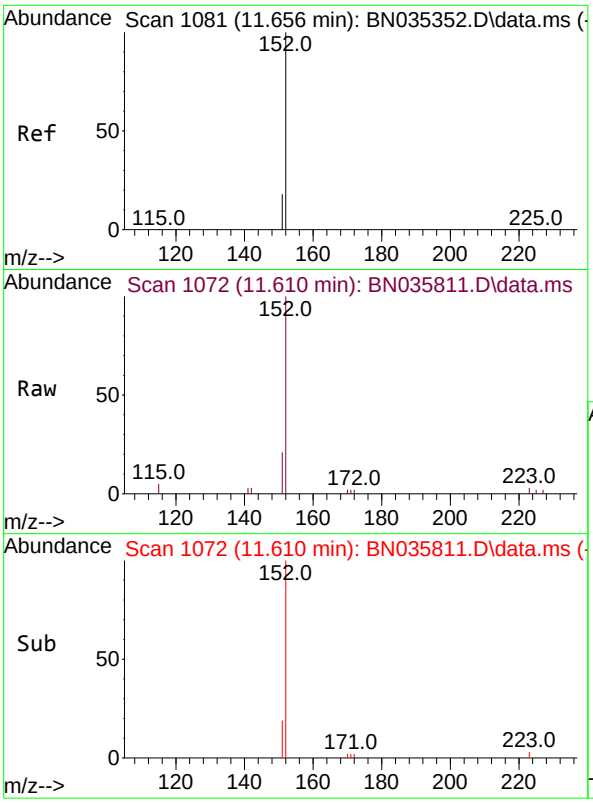


#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:225 Resp: 2548

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9

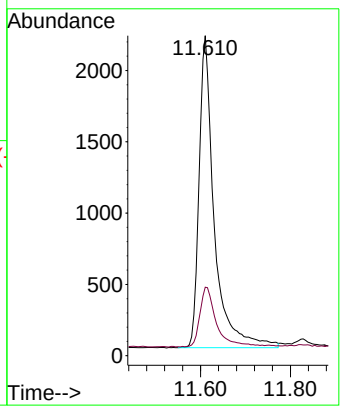




#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 512

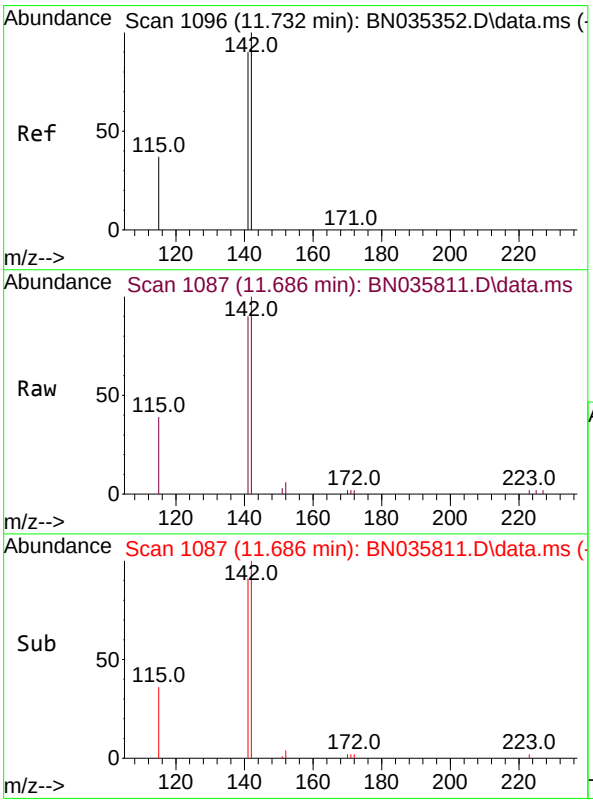
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

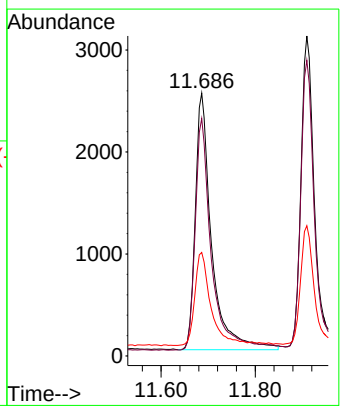
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

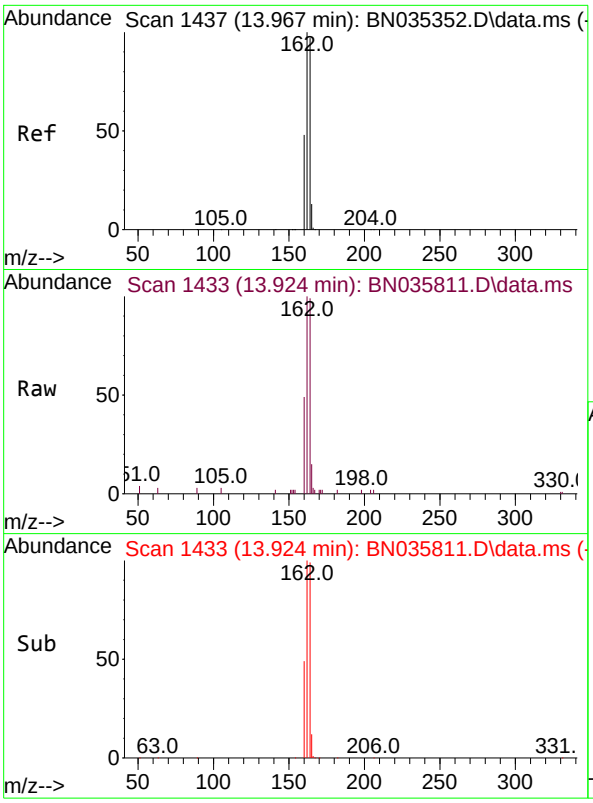


#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:142 Resp: 6060

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.4	31.4	47.0

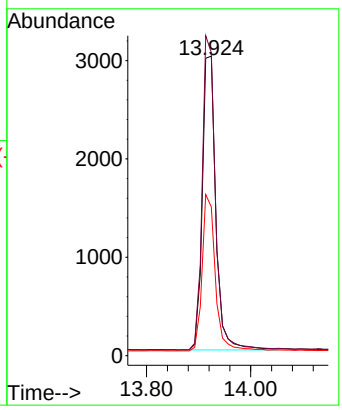




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:164 Resp: 538

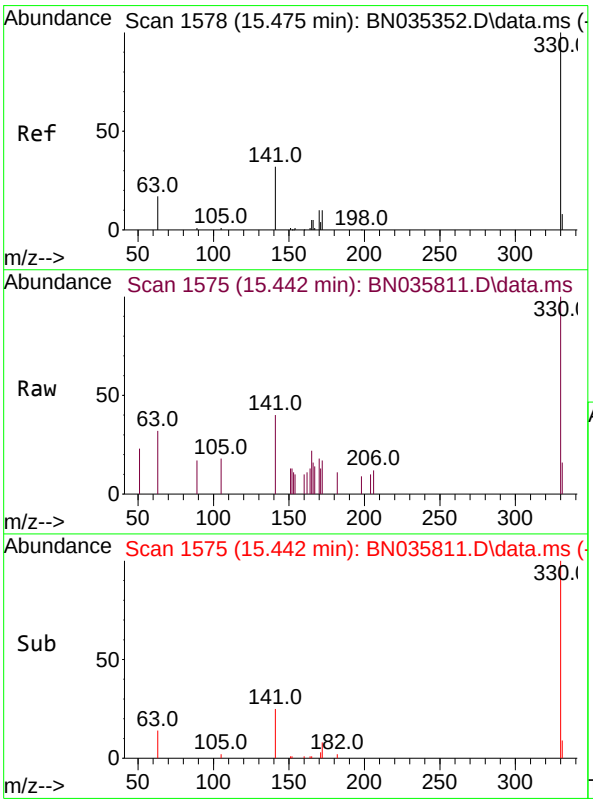
Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	49.7	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

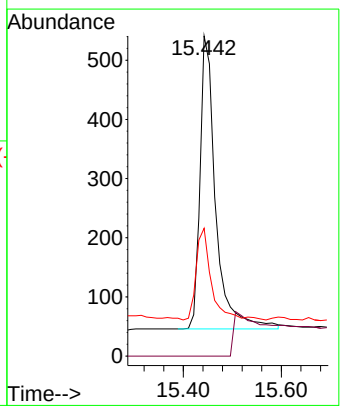
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

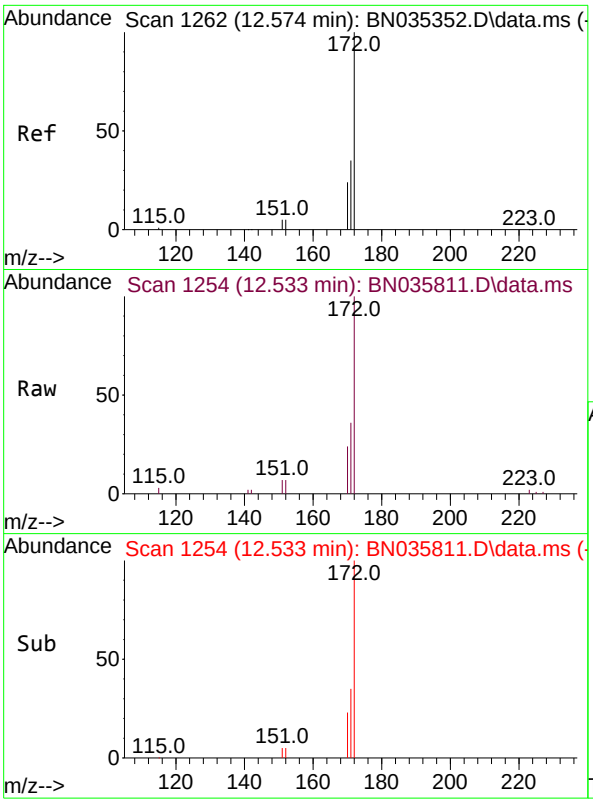


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:330 Resp: 1155

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.2	26.6	40.0

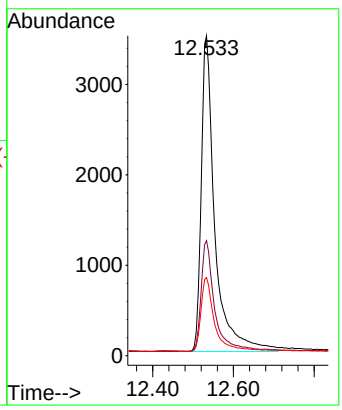




#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:172 Resp: 820

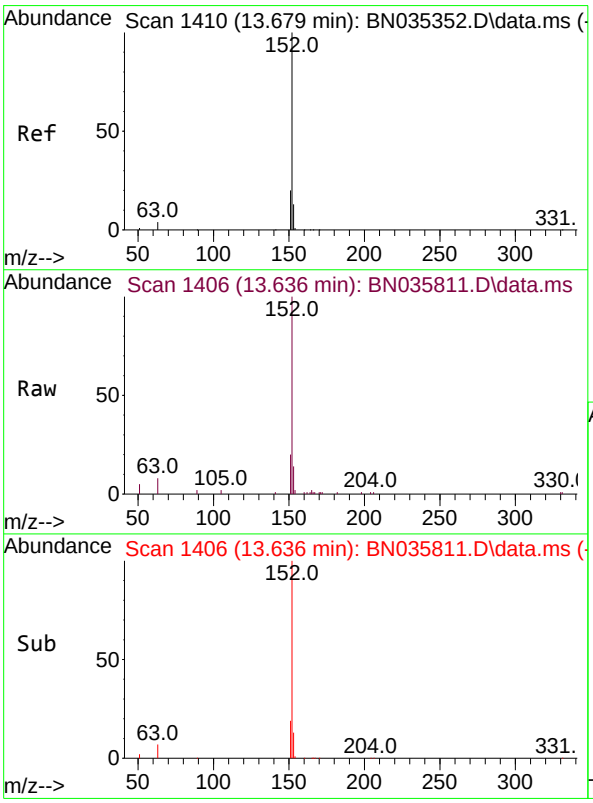
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.4	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

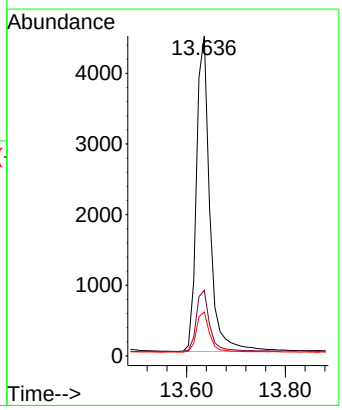
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

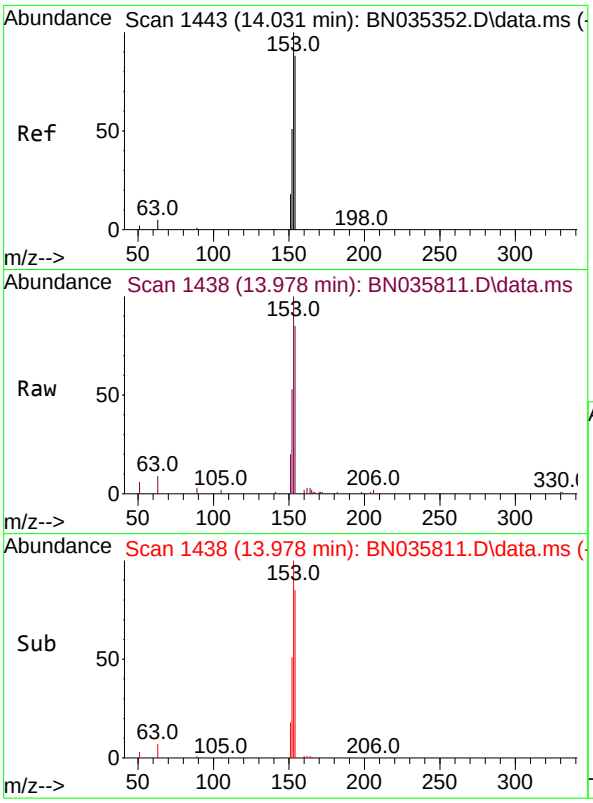


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 8415

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6

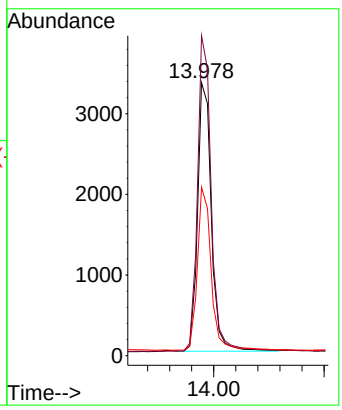




#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:154 Resp: 578

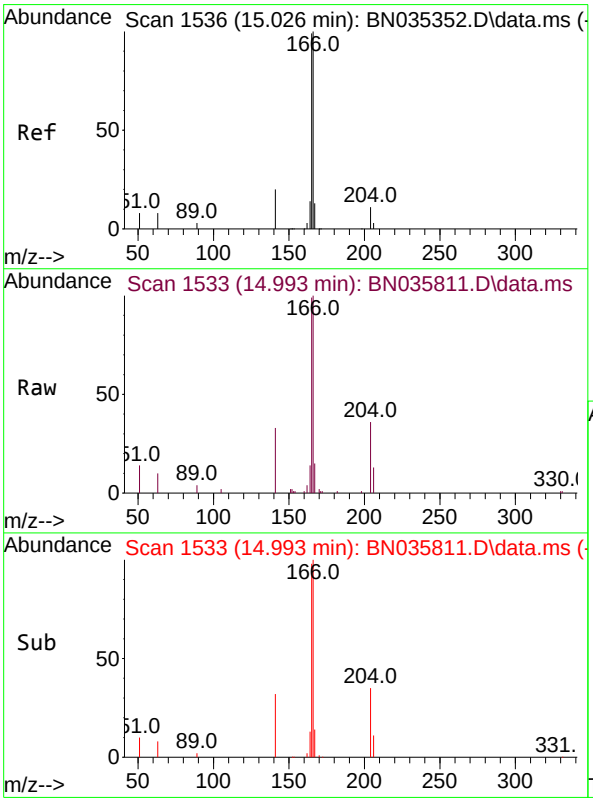
Ion	Ratio	Lower	Upper
154	100		
153	117.6	92.6	139.0
152	60.7	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

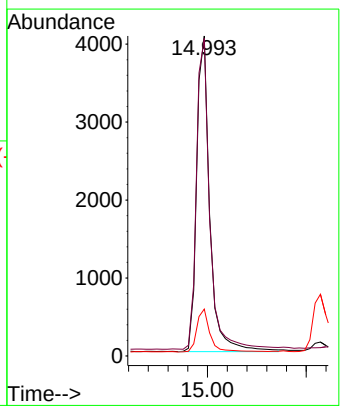
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

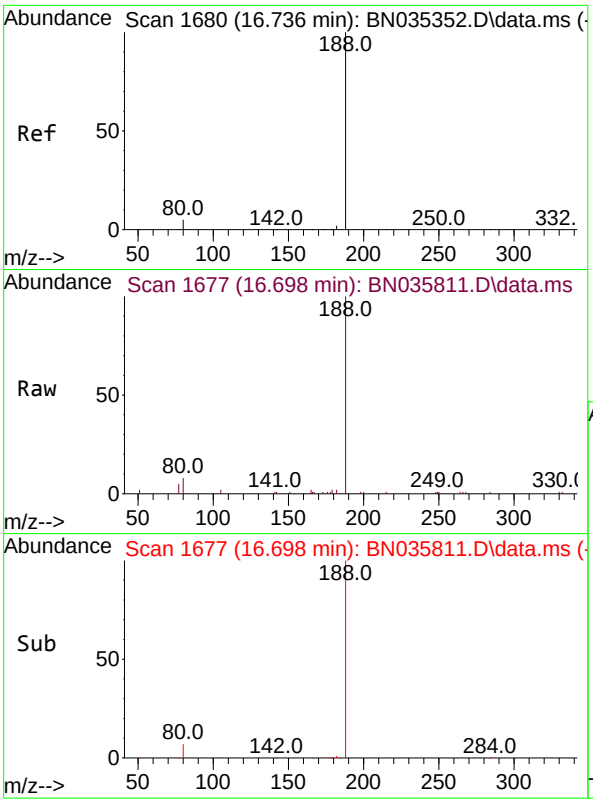


#18
Fluorene
Concen: 0.347 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:166 Resp: 7456

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.7	10.8	16.2

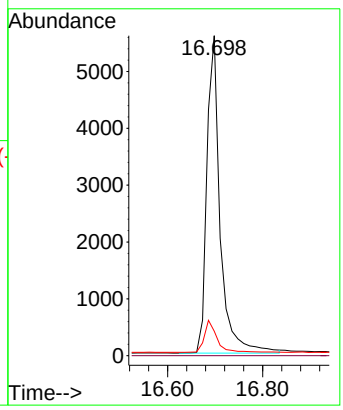




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:188 Resp: 1085

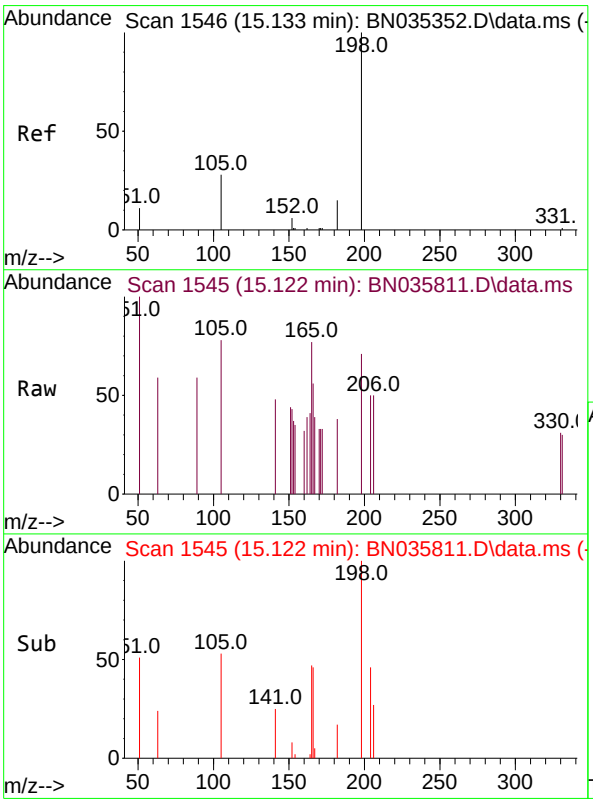
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

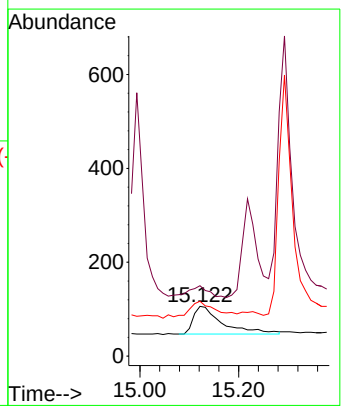
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

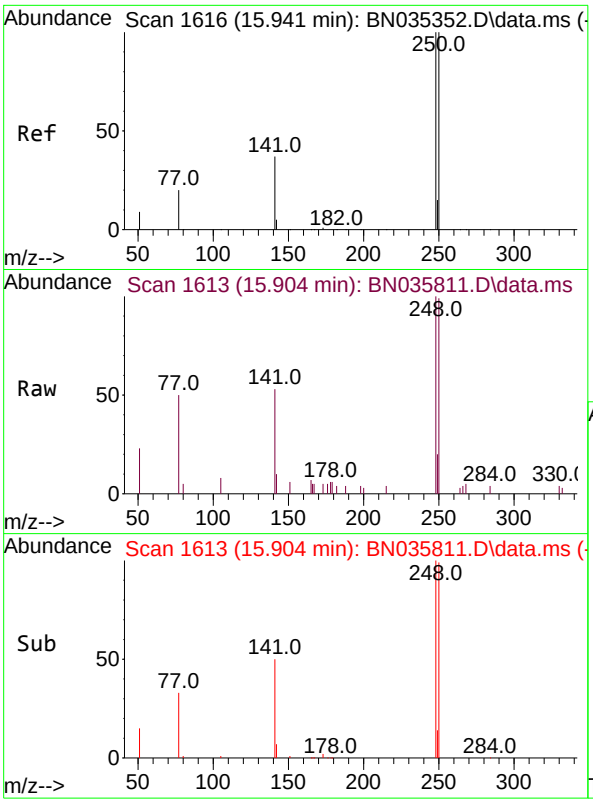


#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:198 Resp: 244

Ion	Ratio	Lower	Upper
198	100		
51	141.5	46.5	69.7#
105	110.4	45.3	67.9#

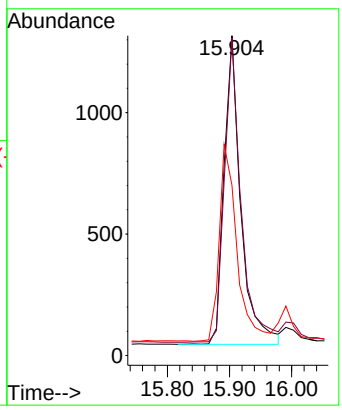




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:248 Resp: 237

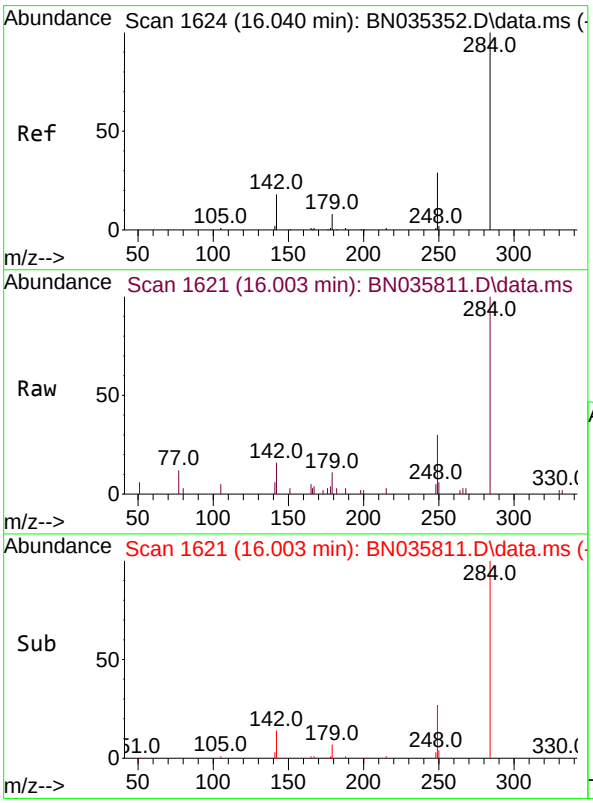
Ion	Ratio	Lower	Upper
248	100		
250	99.5	80.6	120.8
141	53.2	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

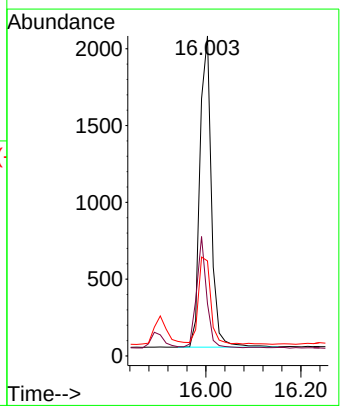
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

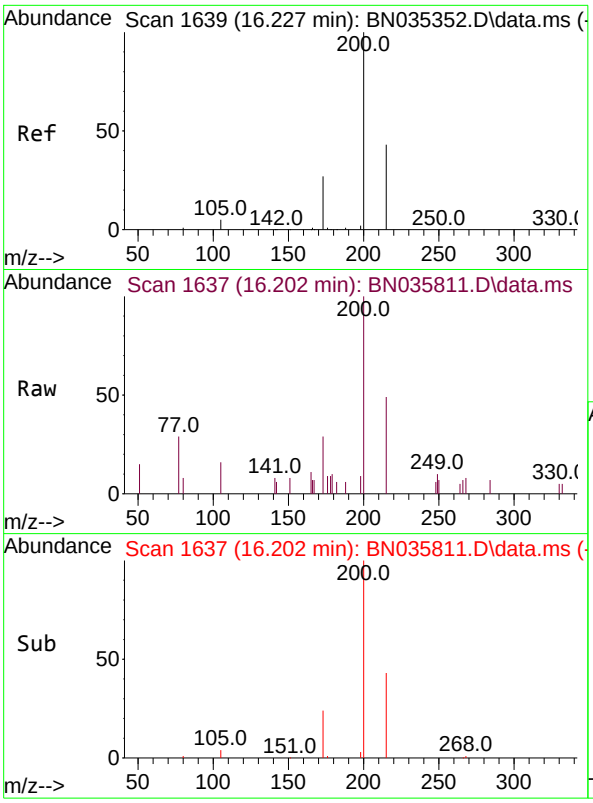


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:284 Resp: 3393

Ion	Ratio	Lower	Upper
284	100		
142	31.1	26.7	40.1
249	30.0	24.6	36.8

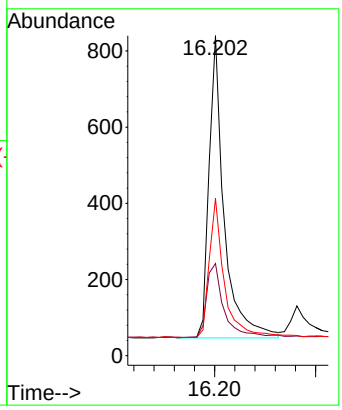




#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:200 Resp: 164(

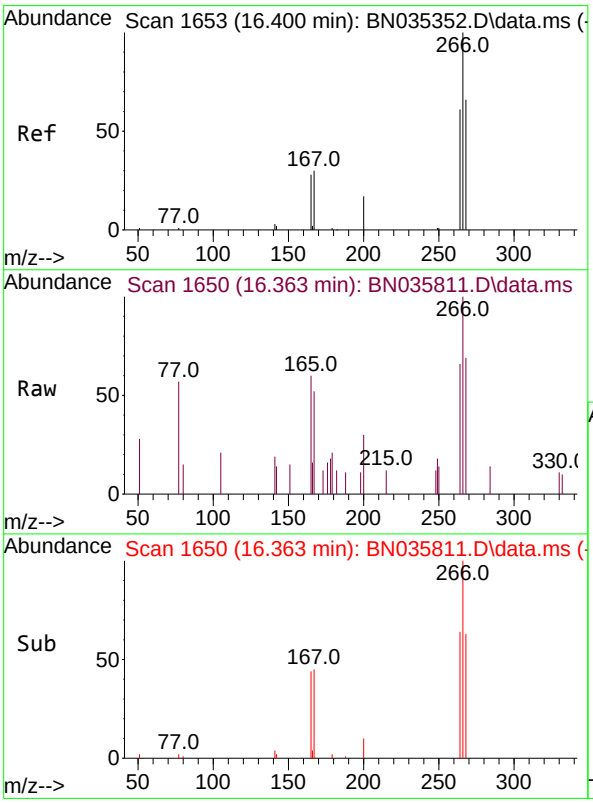
Ion	Ratio	Lower	Upper
200	100		
173	28.8	24.1	36.1
215	49.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

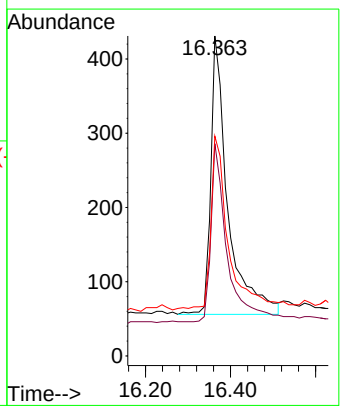
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

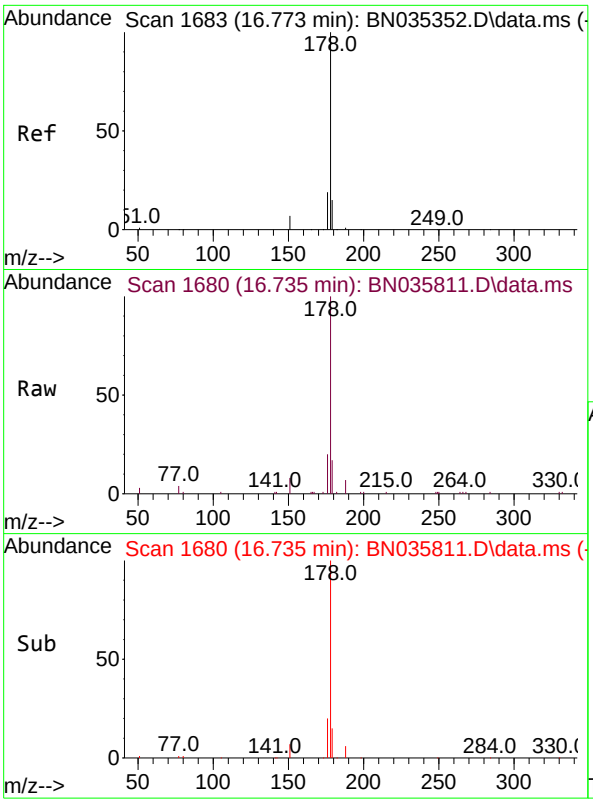


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:266 Resp: 1040

Ion	Ratio	Lower	Upper
266	100		
264	61.4	42.3	63.5
268	64.5	43.3	64.9

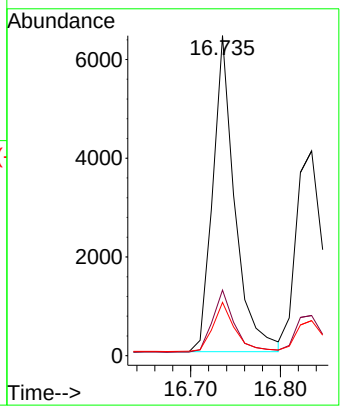




#25
Phenanthrene
Concen: 0.367 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 1095(

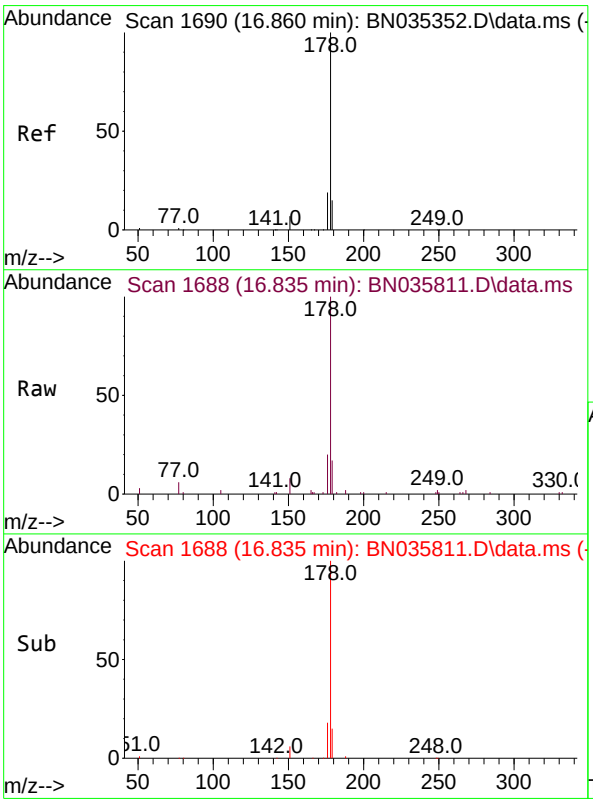
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.5	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

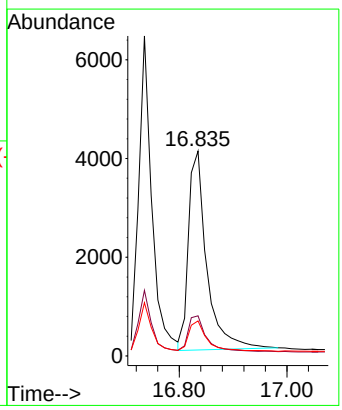
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

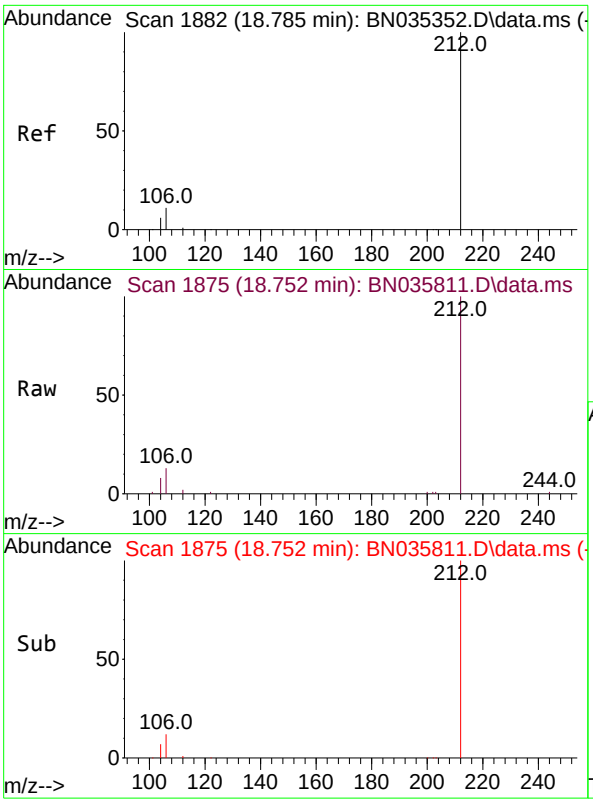


#26
Anthracene
Concen: 0.352 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 9488

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.7	12.6	18.8

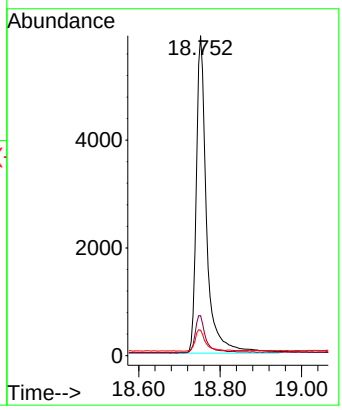




#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:212 Resp: 1034

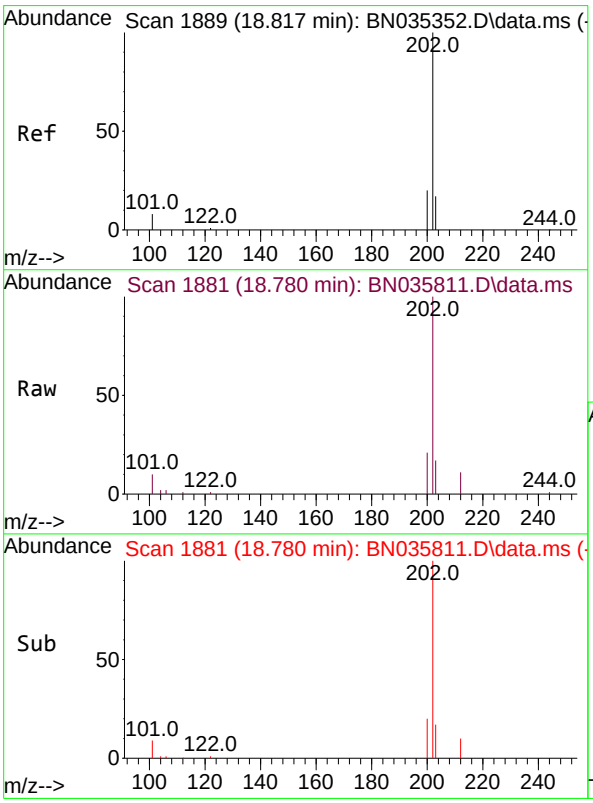
Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

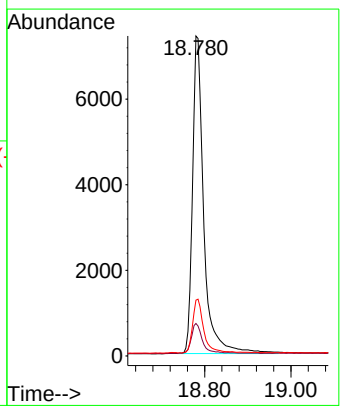
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

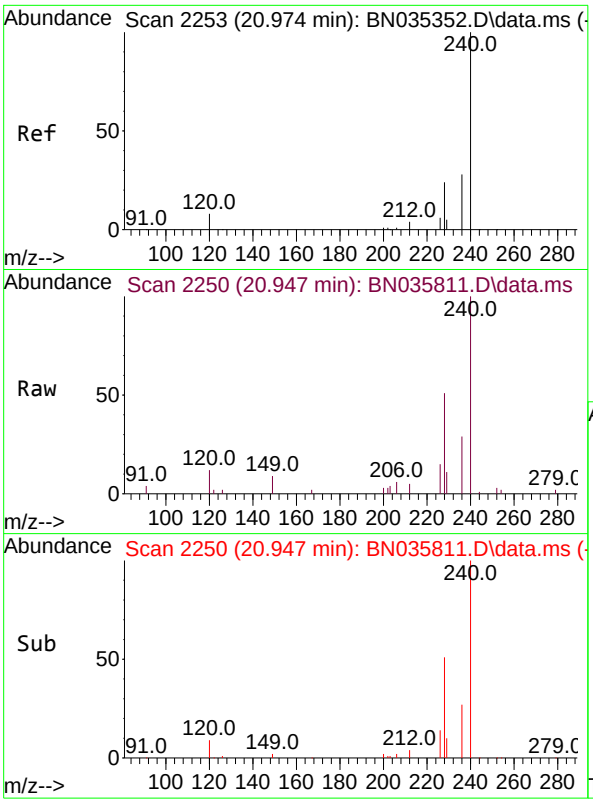


#28
Fluoranthene
Concen: 0.334 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13421

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.5	13.7	20.5

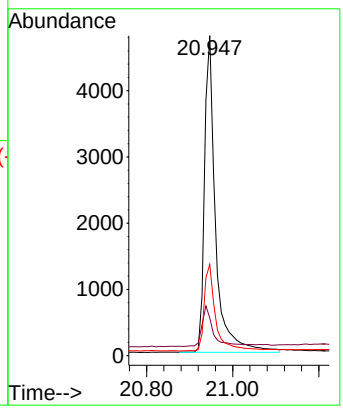




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:240 Resp: 856

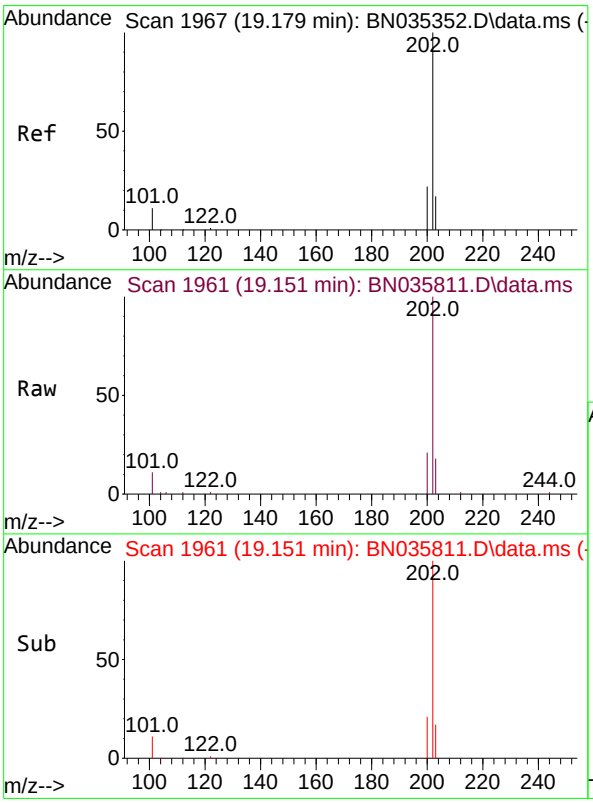
Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	28.6	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

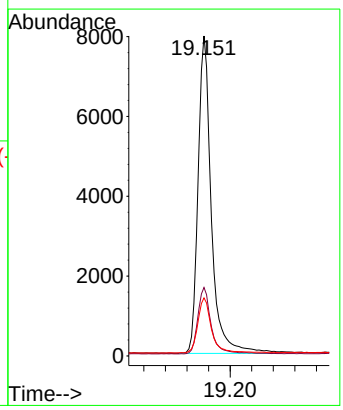
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

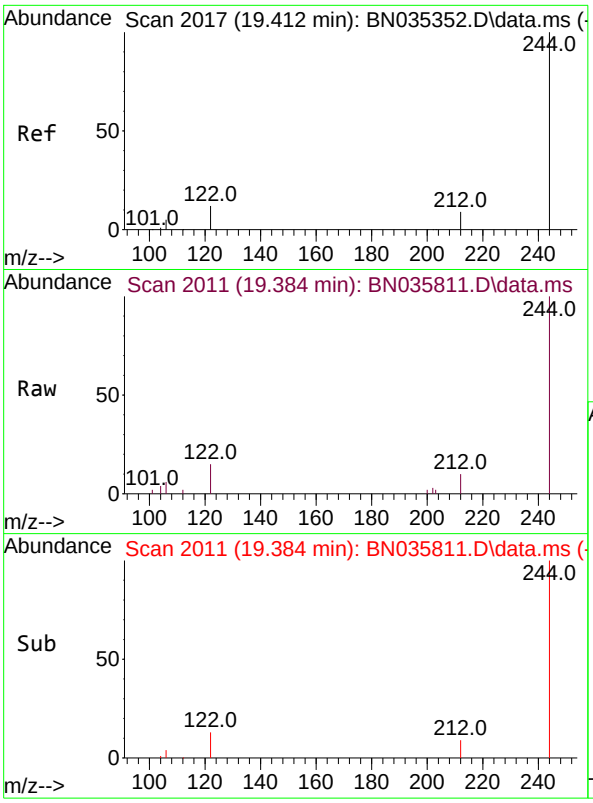


#30
Pyrene
Concen: 0.429 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13577

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5

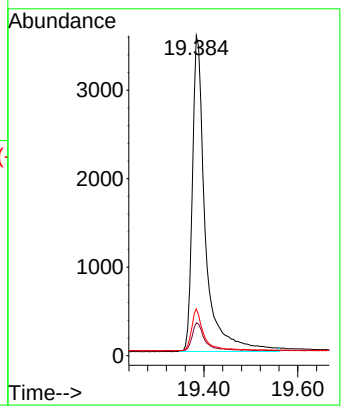




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:244 Resp: 688

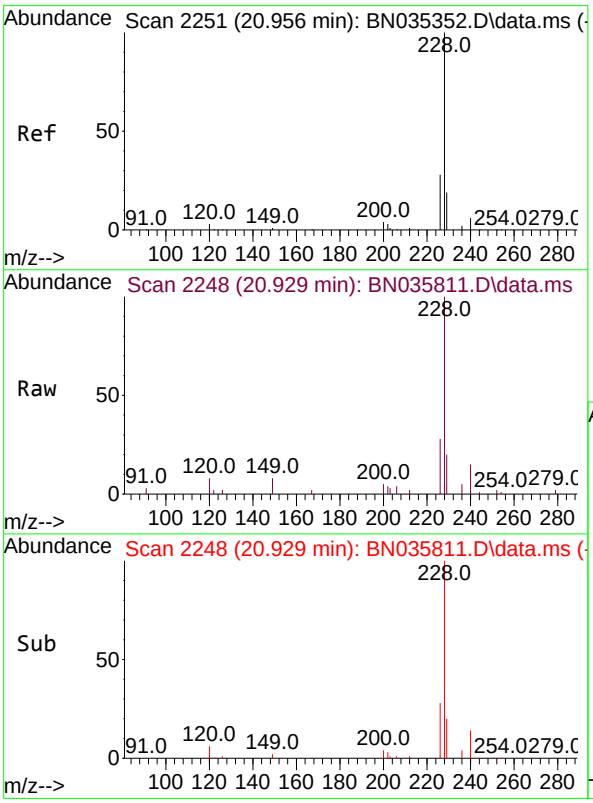
Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.7	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

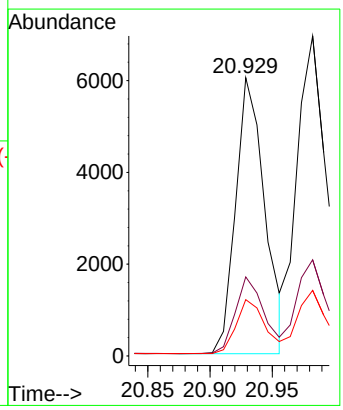
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

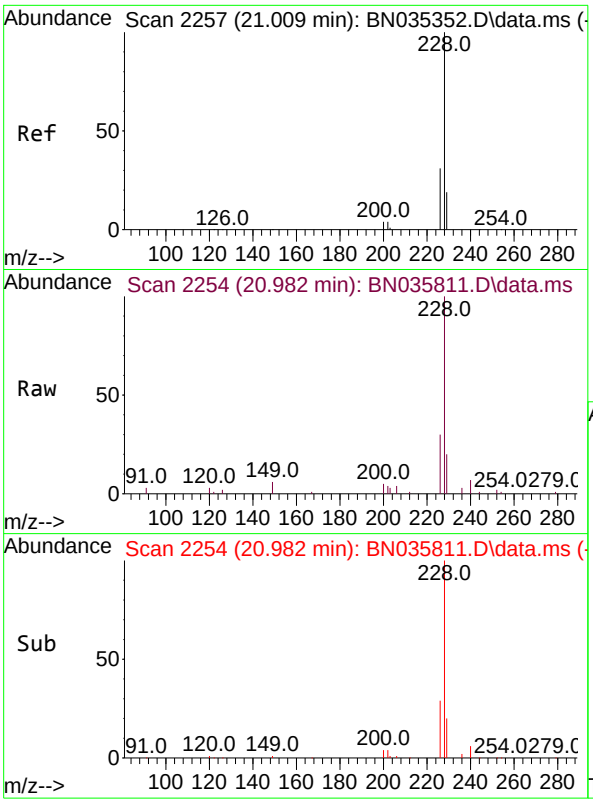


#32
Benzo(a)anthracene
Concen: 0.327 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 9796

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.3	15.8	23.8

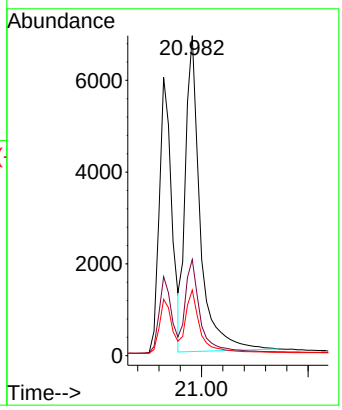




#33
Chrysene
Concen: 0.428 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 1323

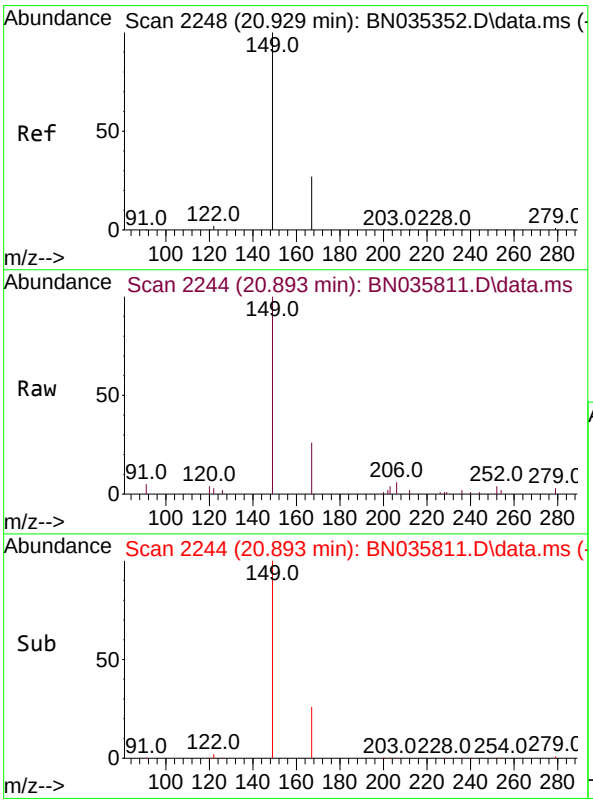
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	20.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

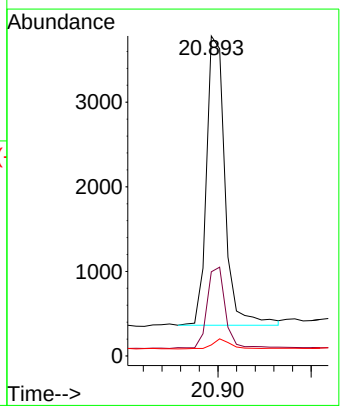
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

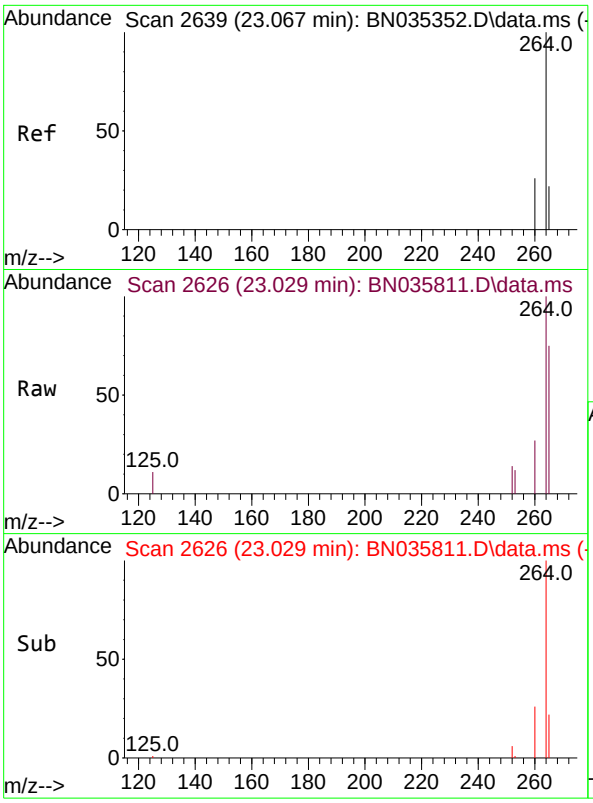


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:149 Resp: 4719

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	3.4	2.7	4.1

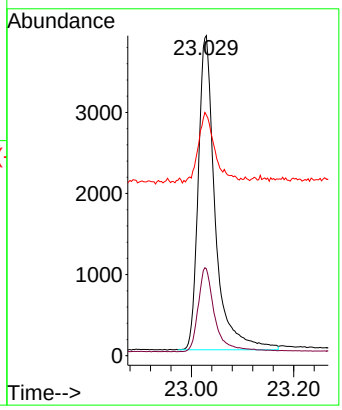




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:264 Resp: 887

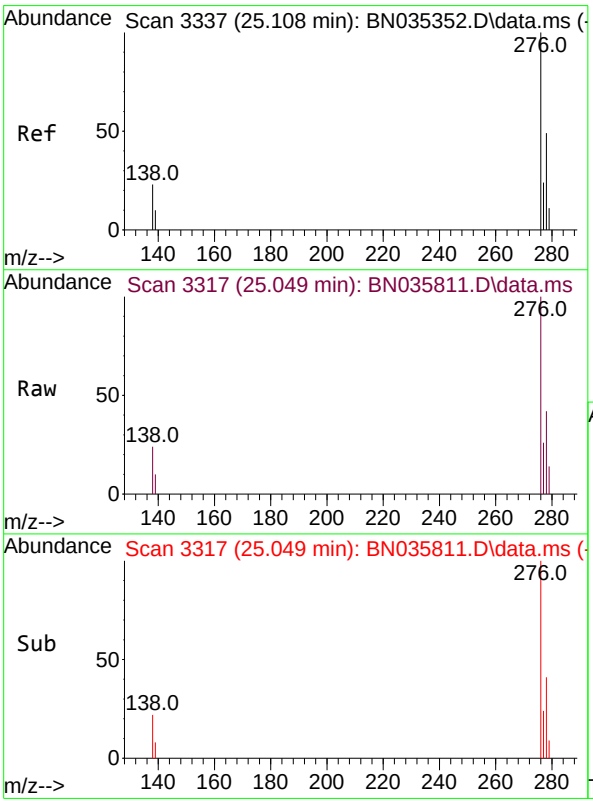
Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	75.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

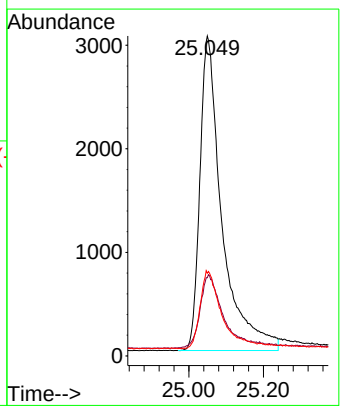
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

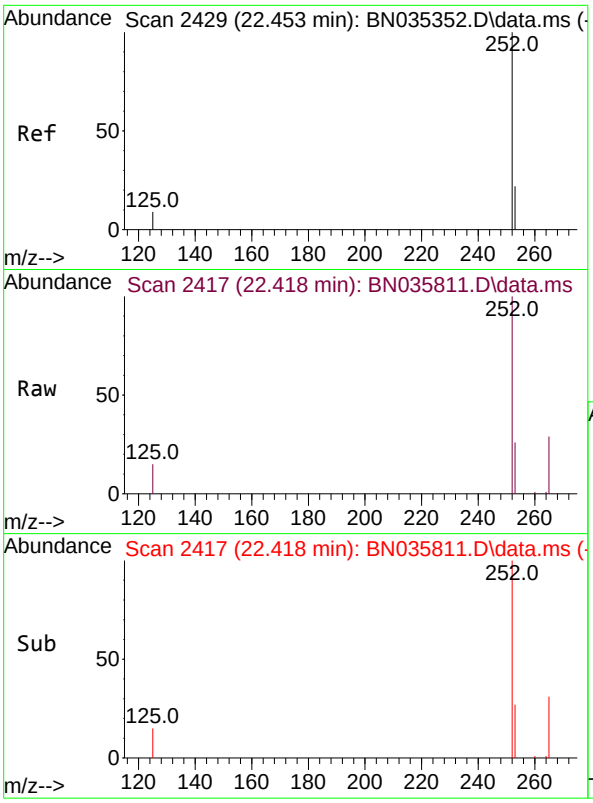


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.049 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 12494

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.1	19.8	29.6

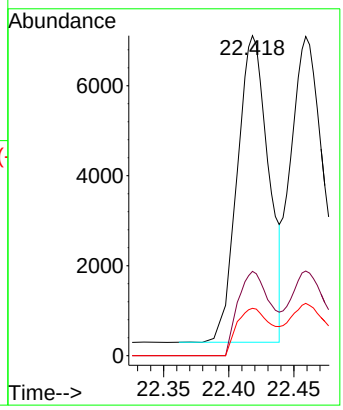




#37
Benzo(b)fluoranthene
Concen: 0.522 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 1696

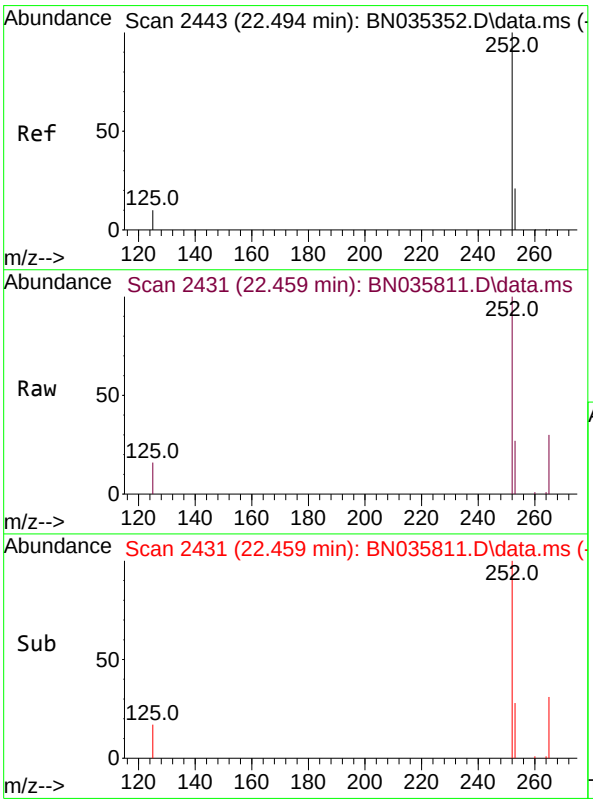
Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.6	29.4
125	14.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

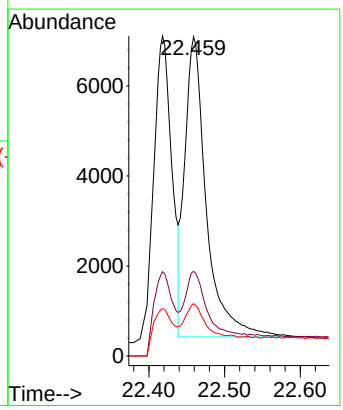
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

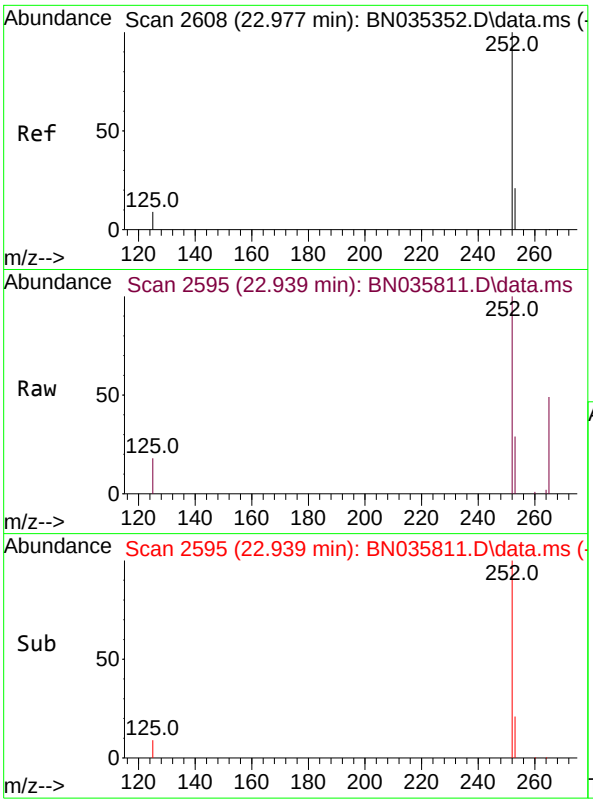


#38
Benzo(k)fluoranthene
Concen: 0.414 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 13236

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	16.4	10.2	15.4#

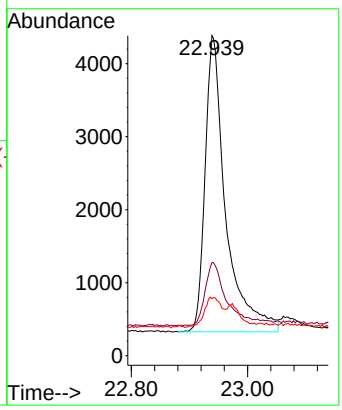




#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 1000

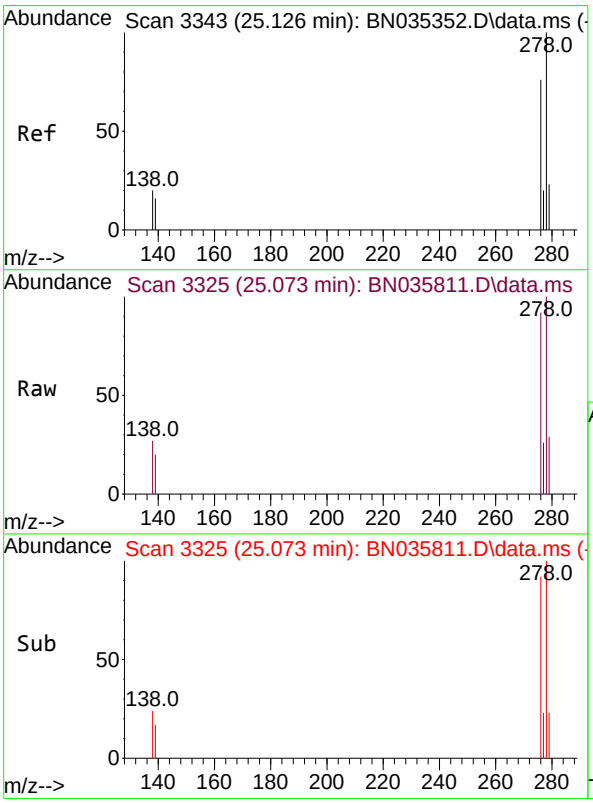
Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	17.8	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

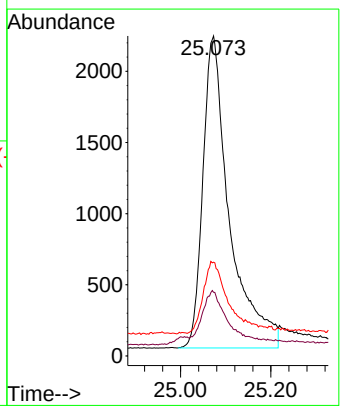
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

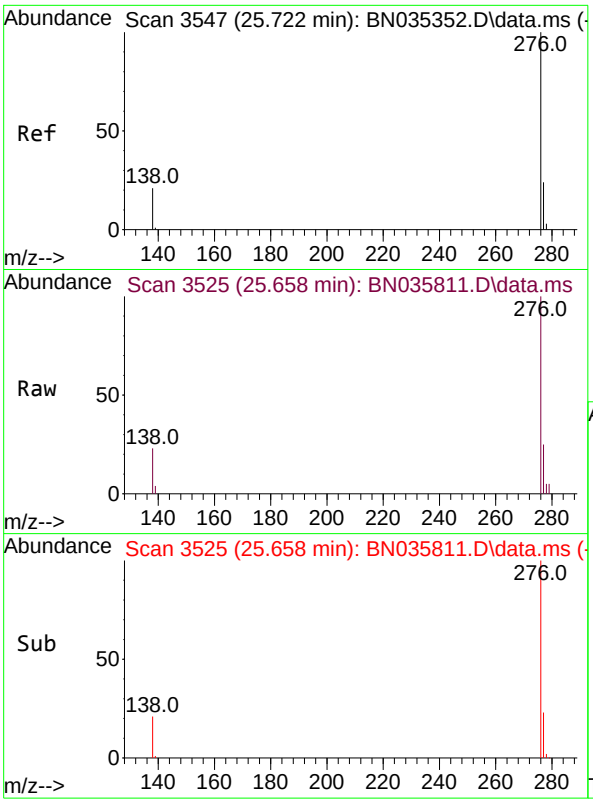


#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:278 Resp: 8960

Ion	Ratio	Lower	Upper
278	100		
139	19.9	14.2	21.4
279	29.3	20.5	30.7

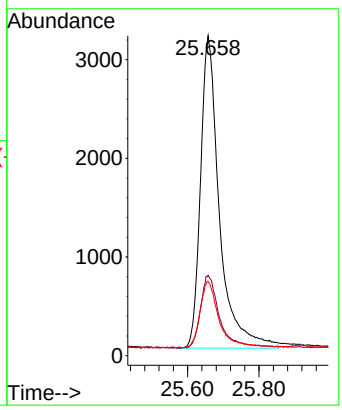




#41
Benzo(g,h,i)perylene
Concen: 0.405 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 1160

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	23.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	194#	0.00
2		1,4-Dioxane	0.382	0.457	-19.6	235#	0.00
3		n-Nitrosodimethylamine	0.319	0.328	-2.8	195#	0.00
4	S	2-Fluorophenol	1.001	0.931	7.0	177#	-0.01
5	S	Phenol-d6	1.204	1.289	-7.1	209#	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.924	8.7	181#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	181#	-0.02
8	S	Nitrobenzene-d5	0.244	0.285	-16.8	220#	-0.01
9		Naphthalene	1.055	1.020	3.3	177#	-0.01
10		Hexachlorobutadiene	0.243	0.269	-10.7	197#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.541	13.6	158#	-0.01
12		2-Methylnaphthalene	0.755	0.639	15.4	157#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	142	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.214	24.6	118	-0.01
15	S	2-Fluorobiphenyl	1.512	1.523	-0.7	143	-0.01
16		Acenaphthylene	1.680	1.562	7.0	139	-0.01
17		Acenaphthene	1.115	1.073	3.8	140	-0.02
18		Fluorene	1.596	1.384	13.3	127	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.022	43.6#	72	0.00
21		4-Bromophenyl-phenylether	0.234	0.219	6.4	111	-0.01
22		Hexachlorobenzene	0.275	0.313	-13.8	131	-0.01
23		Atrazine	0.167	0.151	9.6	112	0.00
24		Pentachlorophenol	0.120	0.096	20.0	115	-0.01
25		Phenanthrene	1.099	1.009	8.2	108	-0.01
26		Anthracene	0.994	0.874	12.1	106	0.00
27	SURR	Fluoranthene-d10	1.134	0.953	16.0	101	0.00
28		Fluoranthene	1.481	1.236	16.5	100	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30		Pyrene	1.477	1.584	-7.2	97	0.00
31	S	Terphenyl-d14	0.789	0.804	-1.9	91	0.00
32		Benzo(a)anthracene	1.399	1.143	18.3	76	0.00
33		Chrysene	1.443	1.544	-7.0	96	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.551	0.4	96	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.407	10.0	75	-0.02
37		Benzo(b)fluoranthene	1.463	1.911	-30.6#	119	-0.01
38		Benzo(k)fluoranthene	1.440	1.491	-3.5	87	-0.01
39	C	Benzo(a)pyrene	1.205	1.126	6.6	80	-0.01
40		Dibenzo(a,h)anthracene	1.234	1.009	18.2	69	0.00
41		Benzo(g,h,i)perylene	1.289	1.307	-1.4	86	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	194	0.00
2		1,4-Dioxane	0.400	0.478	-19.5	235	0.00
3		n-Nitrosodimethylamine	0.400	0.412	-3.0	195	0.00
4	S	2-Fluorophenol	0.400	0.372	7.0	177	-0.01
5	S	Phenol-d6	0.400	0.428	-7.0	209	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.366	8.5	181	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	181	-0.02
8	S	Nitrobenzene-d5	0.400	0.467	-16.8	220	-0.01
9		Naphthalene	0.400	0.387	3.3	177	-0.01
10		Hexachlorobutadiene	0.400	0.442	-10.5	197	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.346	13.5	158	-0.01
12		2-Methylnaphthalene	0.400	0.338	15.5	157	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	142	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.302	24.5	118	-0.01
15	S	2-Fluorobiphenyl	0.400	0.403	-0.8	143	-0.01
16		Acenaphthylene	0.400	0.372	7.0	139	-0.01
17		Acenaphthene	0.400	0.385	3.8	140	-0.02
18		Fluorene	0.400	0.347	13.3	127	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	114	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.229	42.8#	72	0.00
21		4-Bromophenyl-phenylether	0.400	0.375	6.3	111	-0.01
22		Hexachlorobenzene	0.400	0.455	-13.7	131	-0.01
23		Atrazine	0.400	0.363	9.3	112	0.00
24		Pentachlorophenol	0.400	0.321	19.8	115	-0.01
25		Phenanthrene	0.400	0.367	8.3	108	-0.01
26		Anthracene	0.400	0.352	12.0	106	0.00
27	SURR	Fluoranthene-d10	0.400	0.336	16.0	101	0.00
28		Fluoranthene	0.400	0.334	16.5	100	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30		Pyrene	0.400	0.429	-7.2	97	0.00
31	S	Terphenyl-d14	0.400	0.407	-1.7	91	0.00
32		Benzo(a)anthracene	0.400	0.327	18.3	76	0.00
33		Chrysene	0.400	0.428	-7.0	96	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.399	0.3	96	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.360	10.0	75	-0.02
37		Benzo(b)fluoranthene	0.400	0.522	-30.5#	119	-0.01
38		Benzo(k)fluoranthene	0.400	0.414	-3.5	87	-0.01
39	C	Benzo(a)pyrene	0.400	0.374	6.5	80	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.327	18.3	69	0.00
41		Benzo(g,h,i)perylene	0.400	0.405	-1.3	86	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 19:05

Lab File ID: BN035828.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.533		-14.9	50.0
Fluoranthene-d10	1.134	0.931		-17.9	50.0
2-Fluorophenol	1.001	0.895		-10.6	50.0
Phenol-d6	1.204	1.524		26.6	50.0
Nitrobenzene-d5	0.244	0.319		30.7	50.0
2-Fluorobiphenyl	1.512	1.565		3.5	50.0
2,4,6-Tribromophenol	0.284	0.194		-31.7	50.0
Terphenyl-d14	0.789	0.809		2.5	50.0
1,4-Dioxane	0.382	0.501		31.2	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	4008	0.400	ng		-0.02
7) Naphthalene-d8	9.998	136	9840	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	5373	0.400	ng		-0.02
19) Phenanthrene-d10	16.698	188	9905	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	7447	0.400	ng		# 0.00
35) Perylene-d12	23.029	264	7426	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3589	0.358	ng		-0.01
5) Phenol-d6	6.470	99	6110	0.506	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3140m	0.522	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5246	0.341	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1040	0.273	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	8409	0.414	ng		-0.01
27) Fluoranthene-d10	18.752	212	9222	0.328	ng		0.00
31) Terphenyl-d14	19.384	244	6024	0.410	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	2007	0.524	ng		99
3) n-Nitrosodimethylamine	3.270	42	1227	0.384	ng	#	82
6) bis(2-Chloroethyl)ether	6.715	93	4129	0.407	ng		99
9) Naphthalene	10.052	128	10772	0.415	ng		99
10) Hexachlorobutadiene	10.340	225	2784	0.465	ng	#	99
12) 2-Methylnaphthalene	11.686	142	6505	0.350	ng		99
16) Acenaphthylene	13.636	152	8453	0.375	ng		99
17) Acenaphthene	13.978	154	5821	0.389	ng		100
18) Fluorene	14.993	166	7311	0.341	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	239	0.245	ng	#	24
21) 4-Bromophenyl-phenylether	15.904	248	2287	0.395	ng	#	91
22) Hexachlorobenzene	16.003	284	3296	0.484	ng		99
23) Atrazine	16.202	200	1504	0.365	ng		95
24) Pentachlorophenol	16.363	266	898	0.303	ng		89
25) Phenanthrene	16.735	178	10097	0.371	ng		100
26) Anthracene	16.835	178	8619	0.350	ng		100
28) Fluoranthene	18.784	202	11973	0.326	ng		99
30) Pyrene	19.151	202	12223	0.445	ng		100
32) Benzo(a)anthracene	20.929	228	8203	0.315	ng		99
33) Chrysene	20.982	228	11628	0.433	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4135	0.402	ng		99
36) Indeno(1,2,3-cd)pyrene	25.052	276	10298	0.355	ng	#	83
37) Benzo(b)fluoranthene	22.418	252	17240	0.635	ng	#	95
38) Benzo(k)fluoranthene	22.462	252	11542m	0.432	ng		
39) Benzo(a)pyrene	22.944	252	8337	0.373	ng	#	87
40) Dibenzo(a,h)anthracene	25.073	278	7409	0.323	ng	#	90
41) Benzo(g,h,i)perylene	25.663	276	9651	0.403	ng		98

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

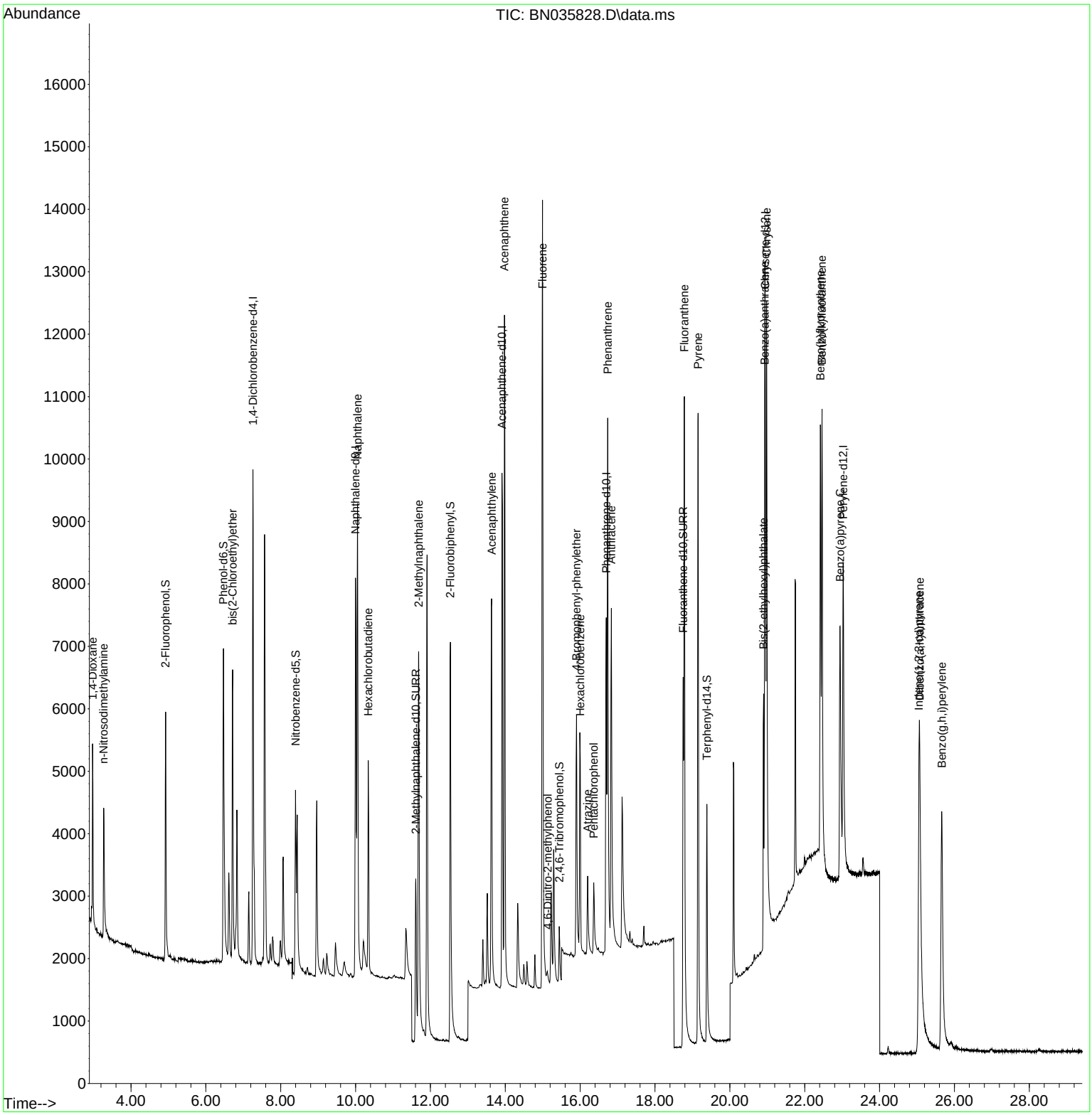
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

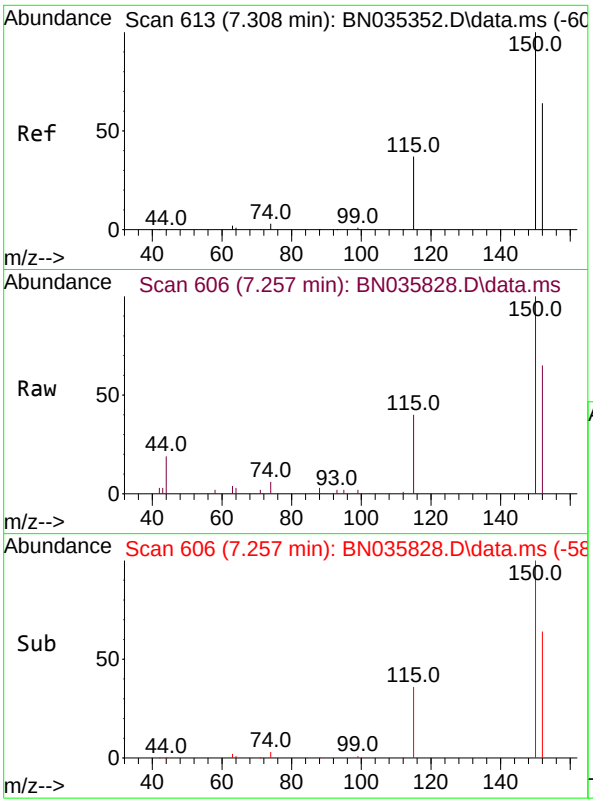
Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

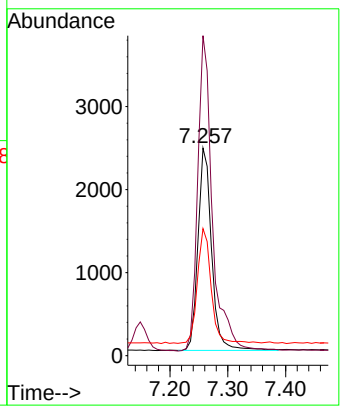




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 400

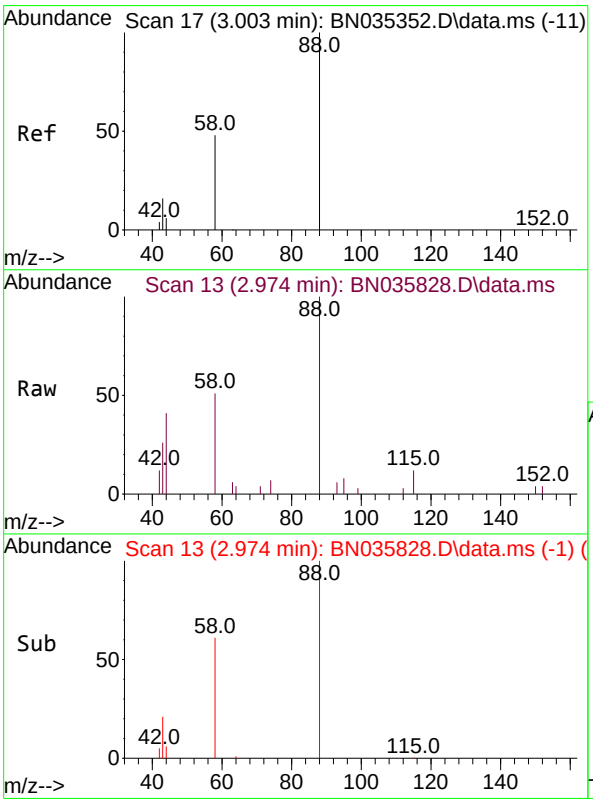
Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.0	186.0
115	61.2	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

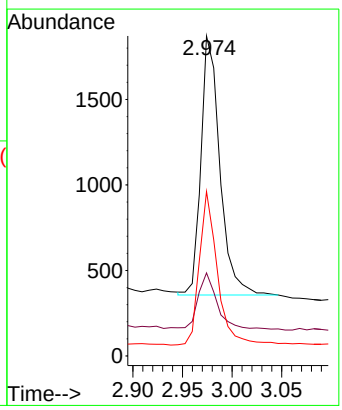
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

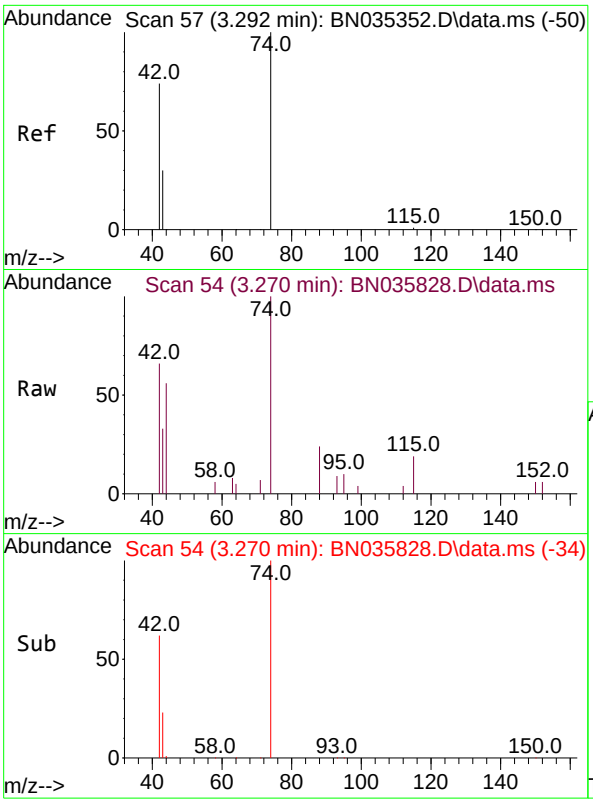


#2
1,4-Dioxane
Concen: 0.524 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 88 Resp: 2007

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	56.9	44.5	66.7

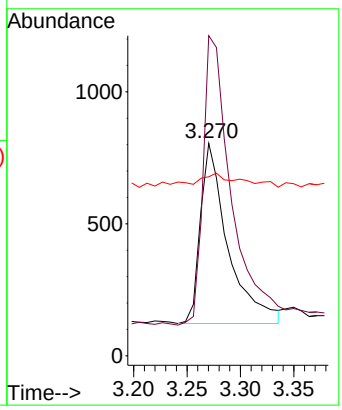




#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 42 Resp: 122

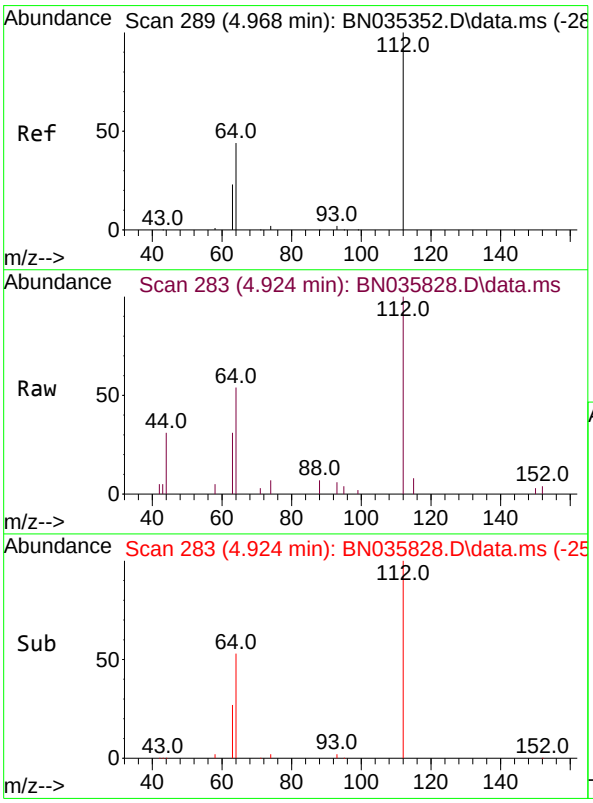
Ion	Ratio	Lower	Upper
42	100		
74	178.7	124.9	187.3
44	14.2	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

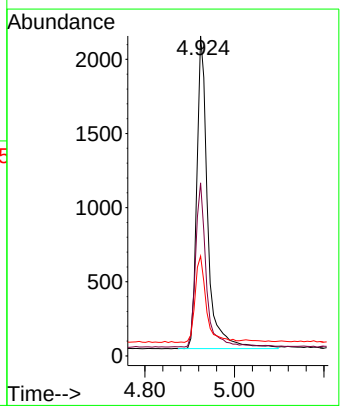
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

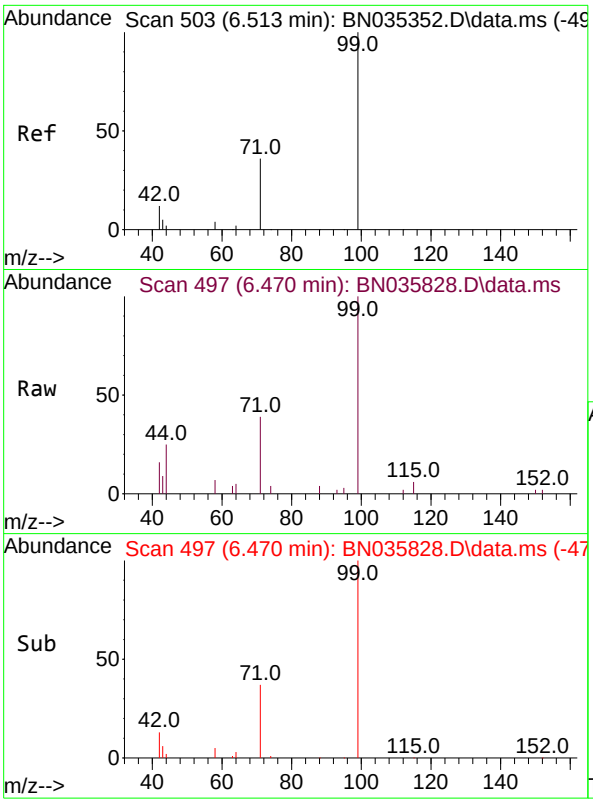


#4
2-Fluorophenol
Concen: 0.358 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:112 Resp: 3589

Ion	Ratio	Lower	Upper
112	100		
64	51.1	39.8	59.8
63	27.8	21.0	31.6

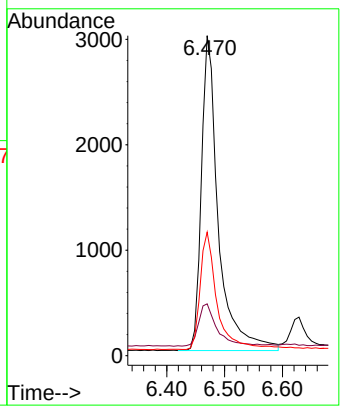




#5
Phenol-d6
Concen: 0.506 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 99 Resp: 611

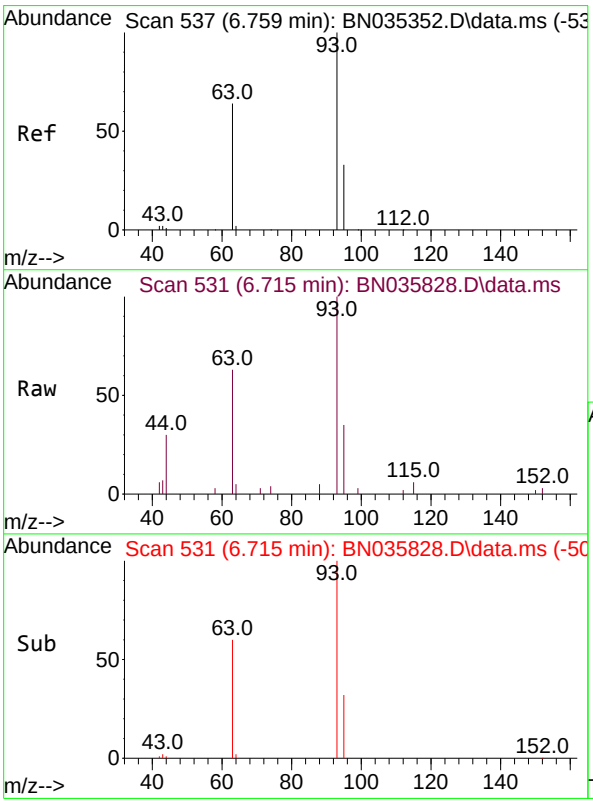
Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	37.7	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

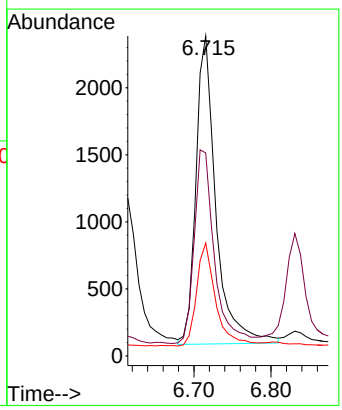
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

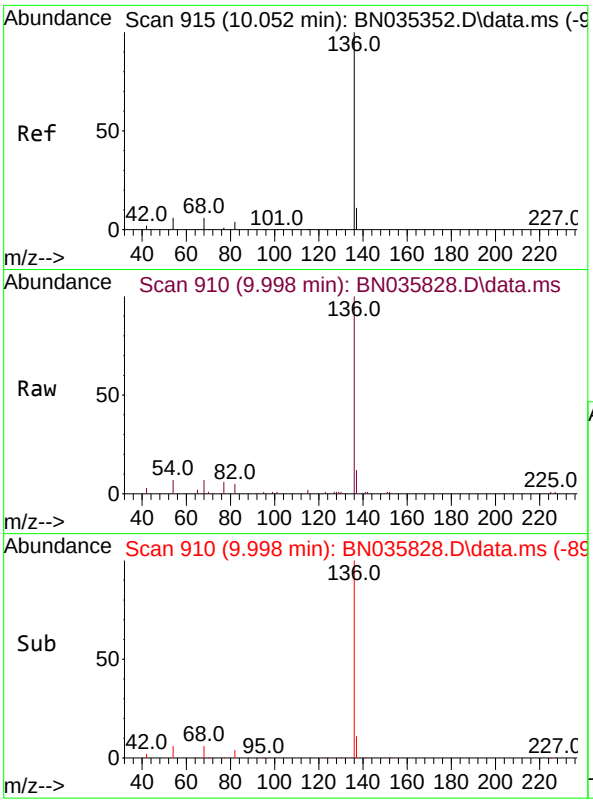


#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 93 Resp: 4129

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	31.8	25.7	38.5

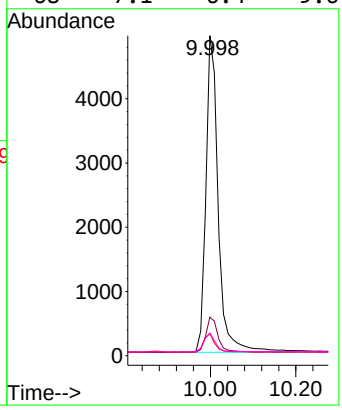




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

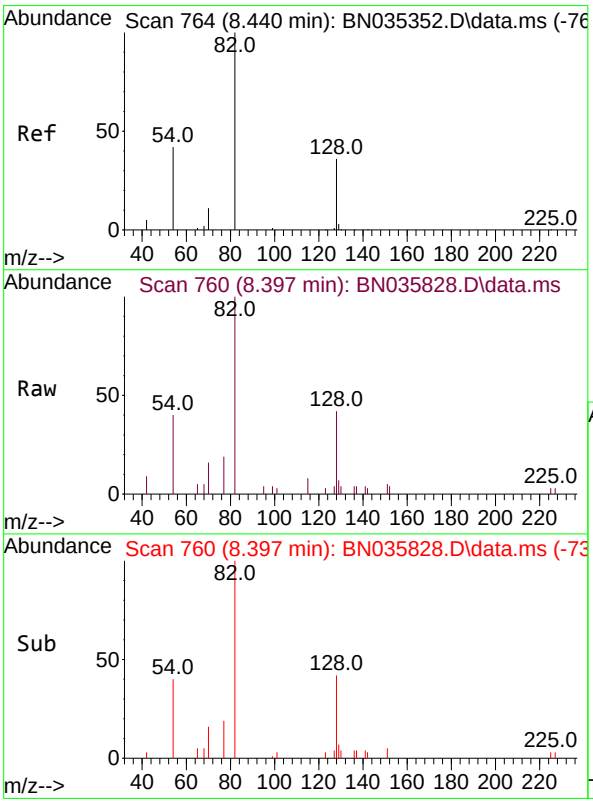
Tgt Ion:136 Resp: 984

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

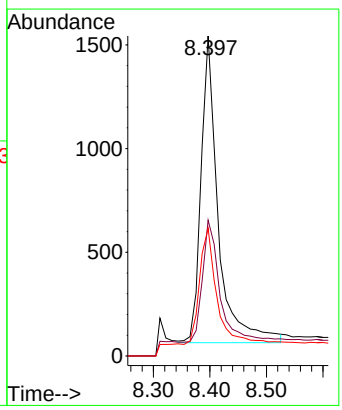
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

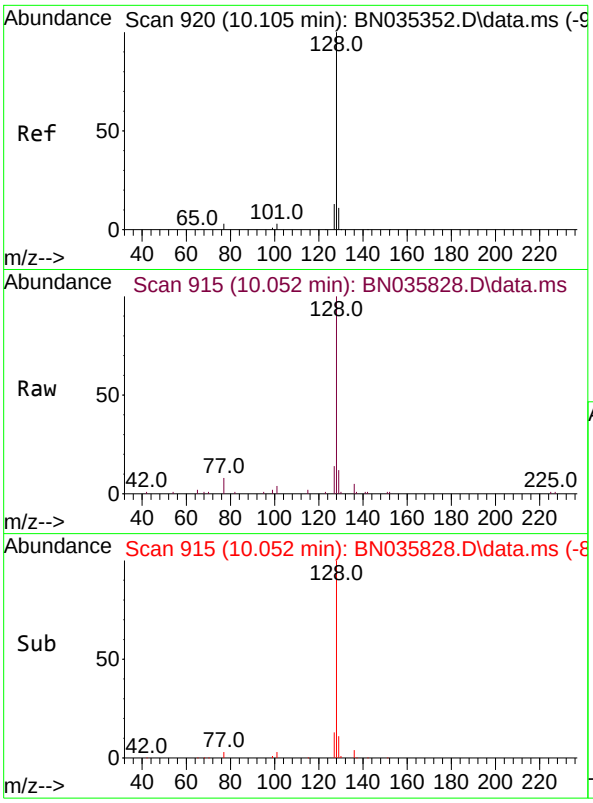


#8
Nitrobenzene-d5
Concen: 0.522 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 82 Resp: 3140

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	39.9	36.7	55.1

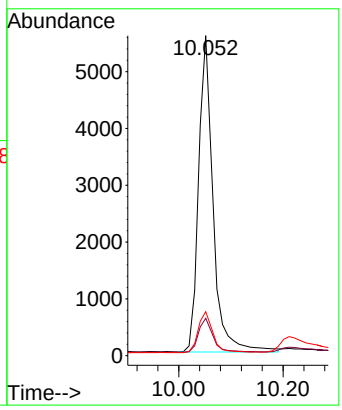




#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:128 Resp: 1077

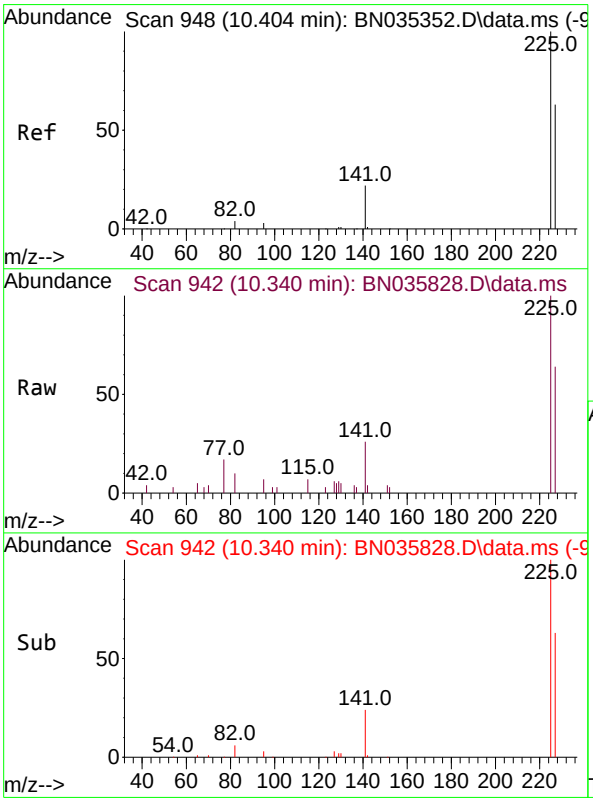
Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.8	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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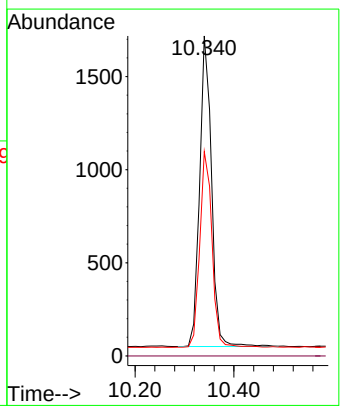
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

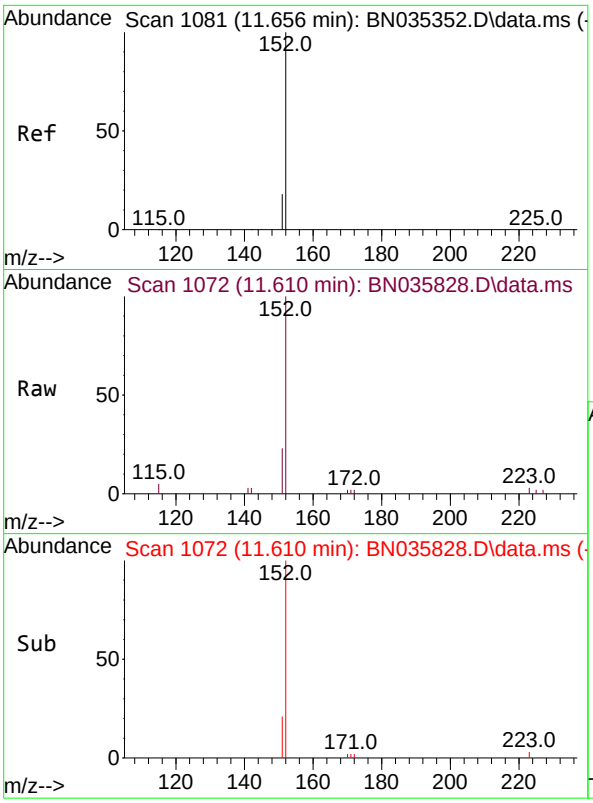


#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:225 Resp: 2784

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9

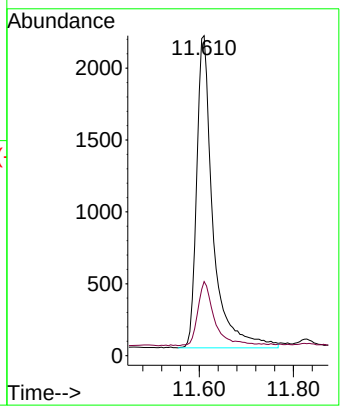




#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 1(
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 524(

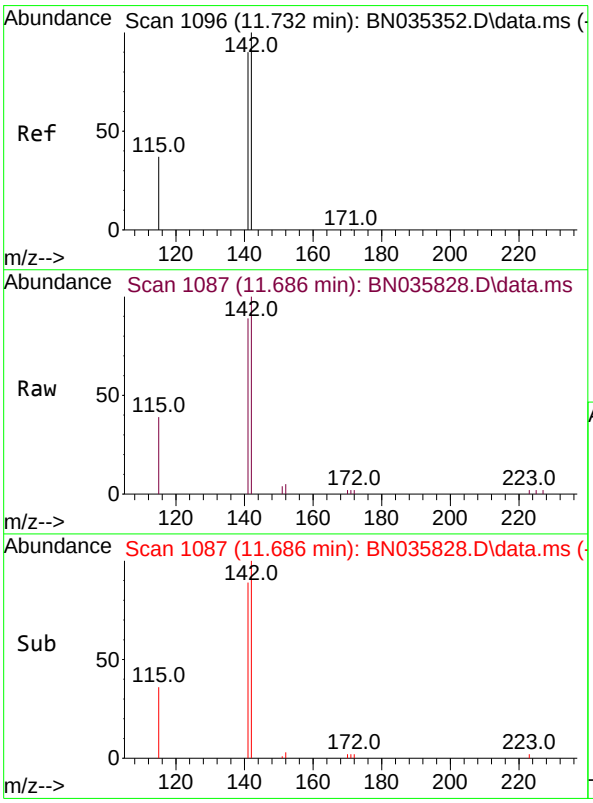
Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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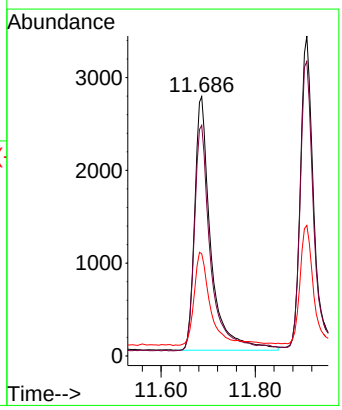
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

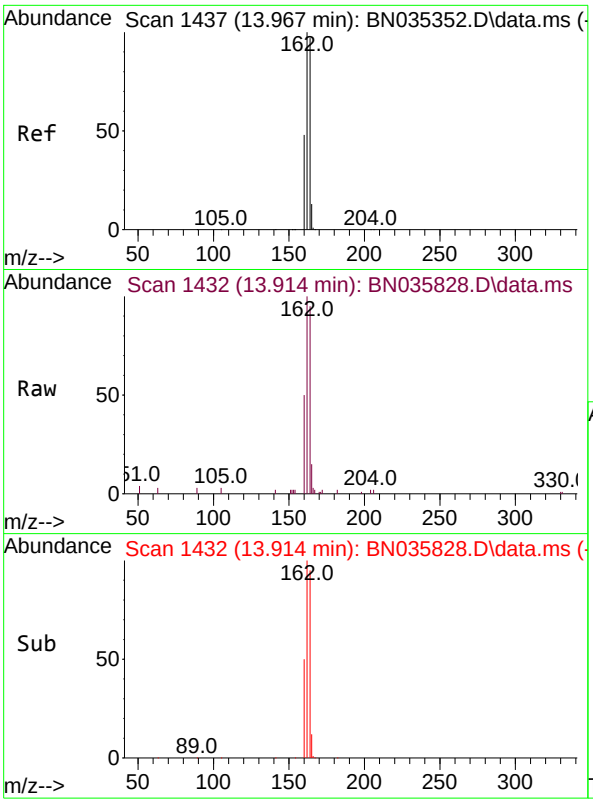


#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:142 Resp: 6505

Ion	Ratio	Lower	Upper
142	100		
141	88.9	72.2	108.4
115	39.4	31.4	47.0

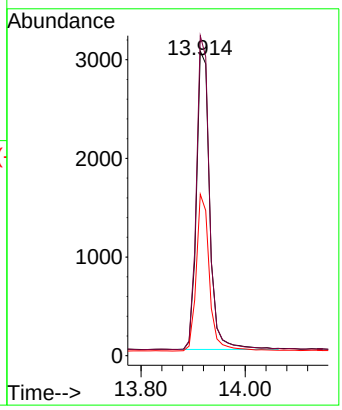




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:164 Resp: 537

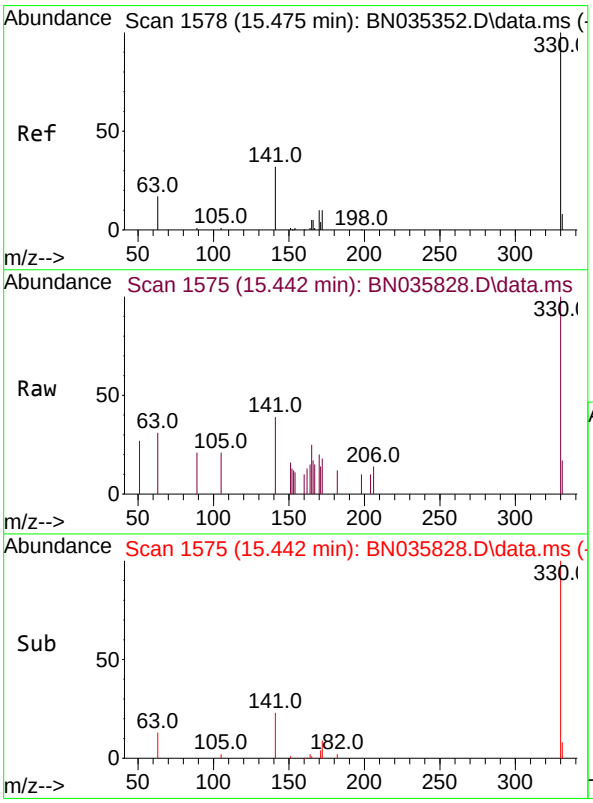
Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.2	123.2
160	53.0	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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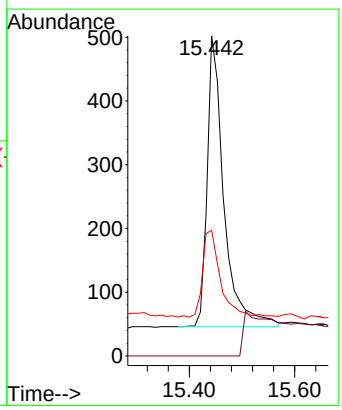
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

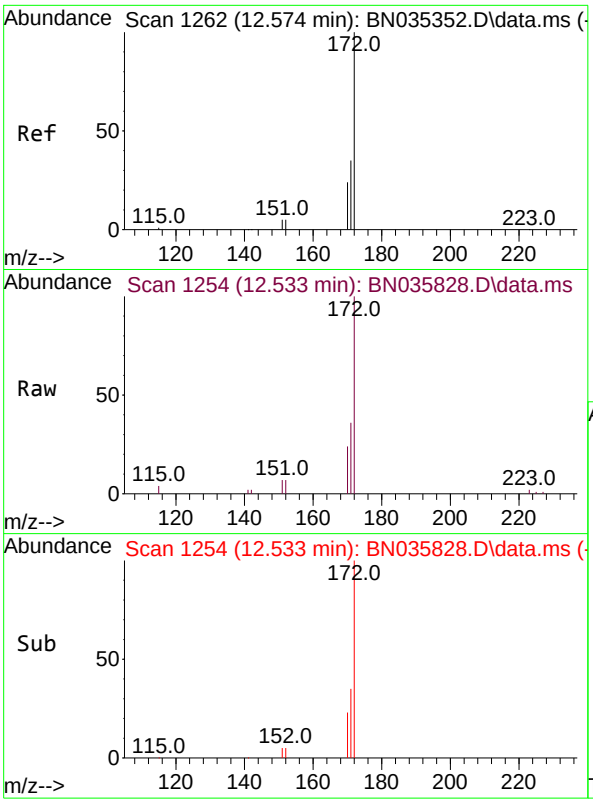


#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:330 Resp: 1040

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.0	26.6	40.0

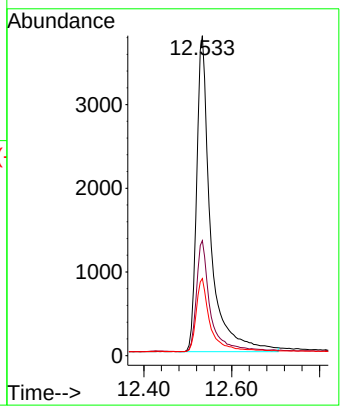




#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:172 Resp: 840

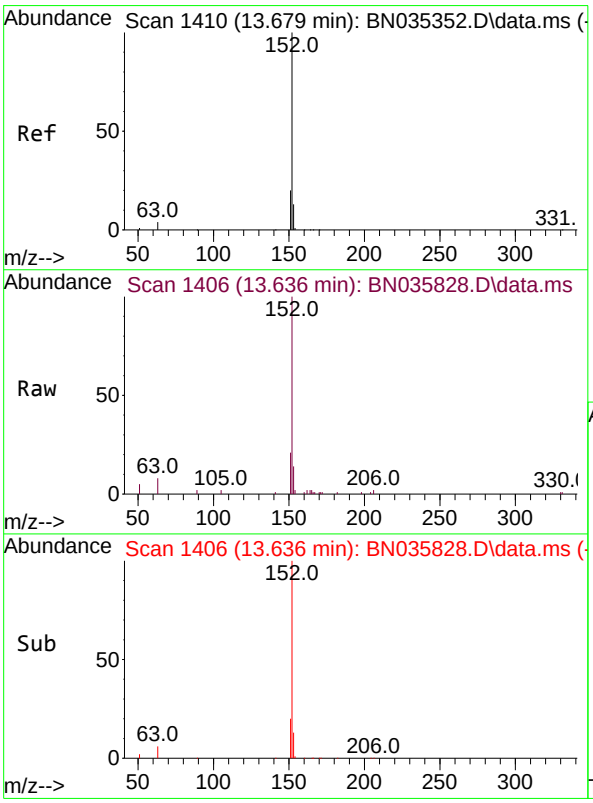
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.1	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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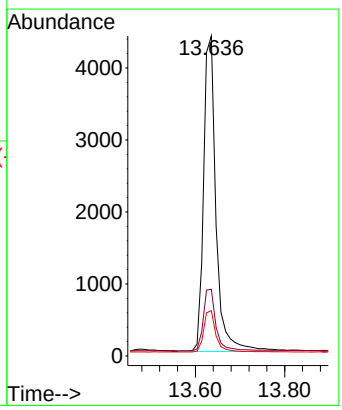
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

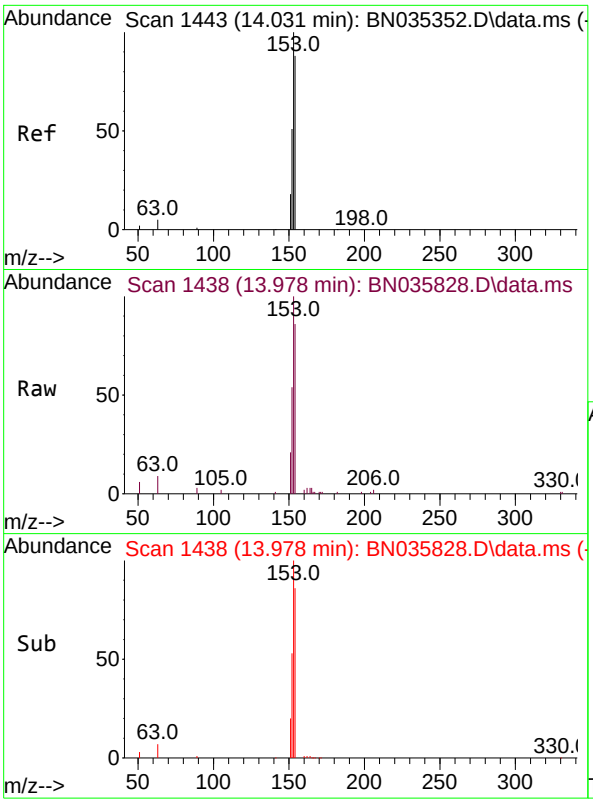


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 8453

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6

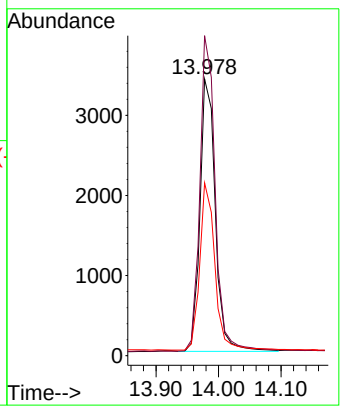




#17
Acenaphthene
Concen: 0.389 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:154 Resp: 582

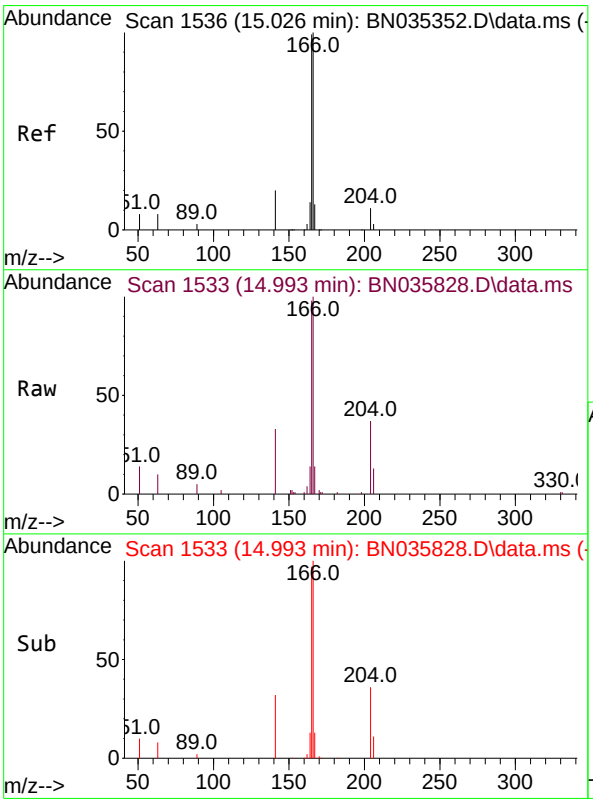
Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	60.8	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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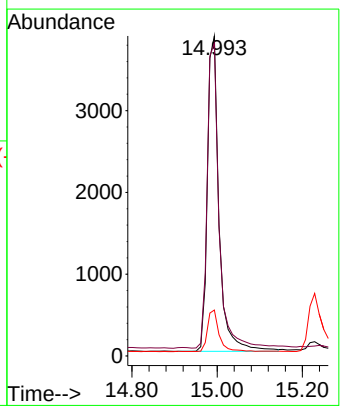
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

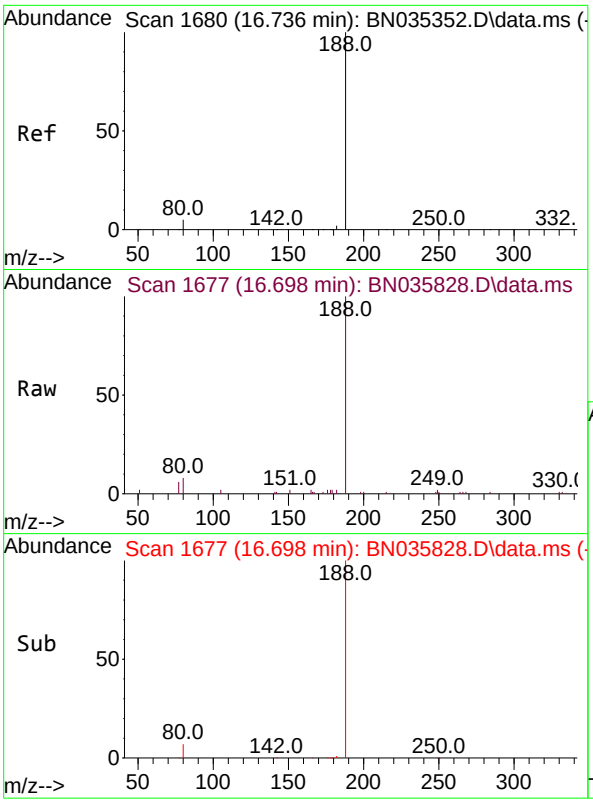


#18
Fluorene
Concen: 0.341 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:166 Resp: 7311

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.0	10.8	16.2

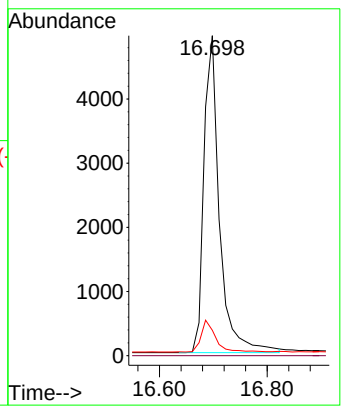




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:188 Resp: 990

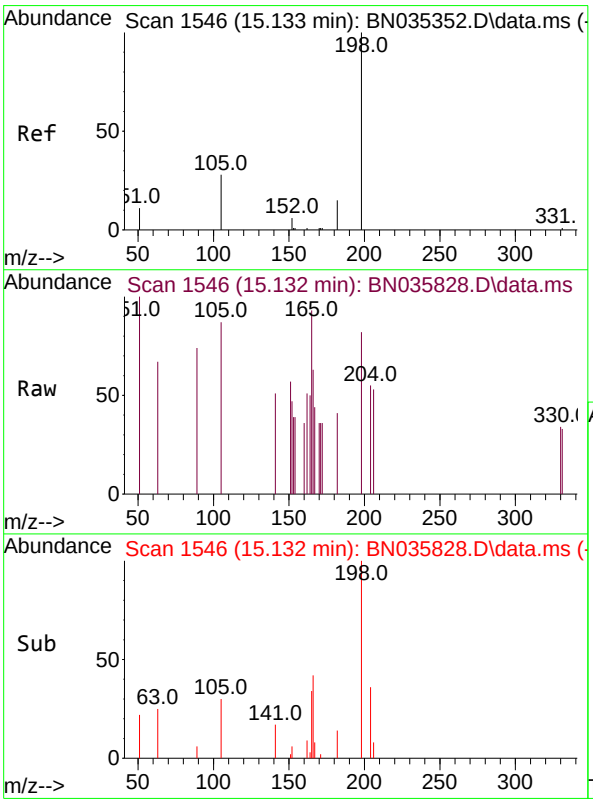
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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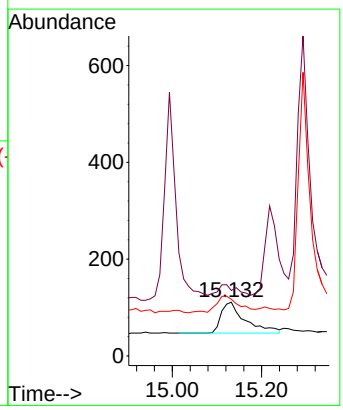
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

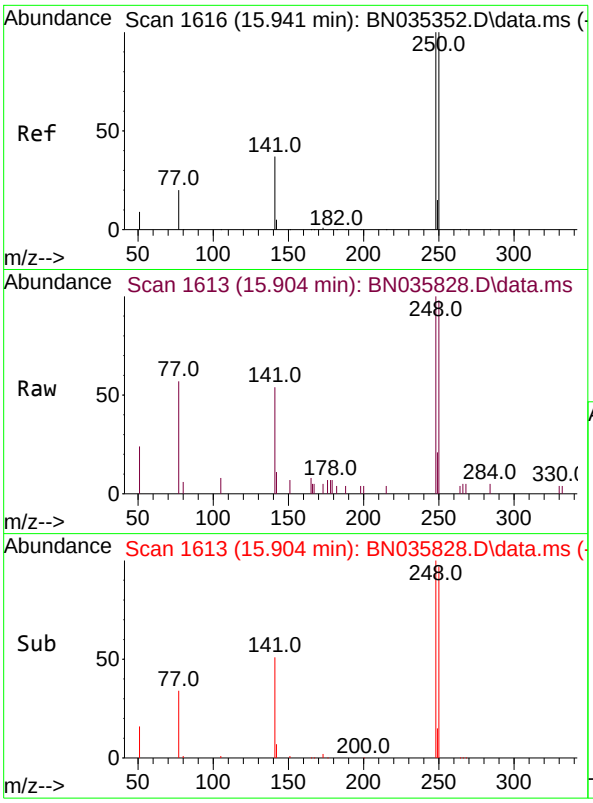


#20
4,6-Dinitro-2-methylphenol
Concen: 0.245 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:198 Resp: 239

Ion	Ratio	Lower	Upper
198	100		
51	121.6	46.5	69.7#
105	105.4	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

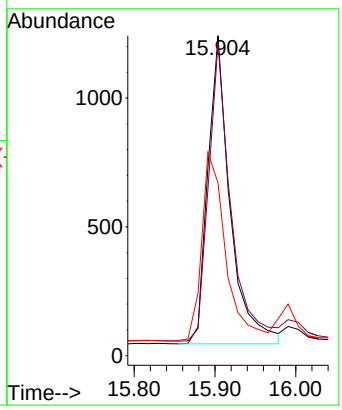
Tgt Ion:248 Resp: 228

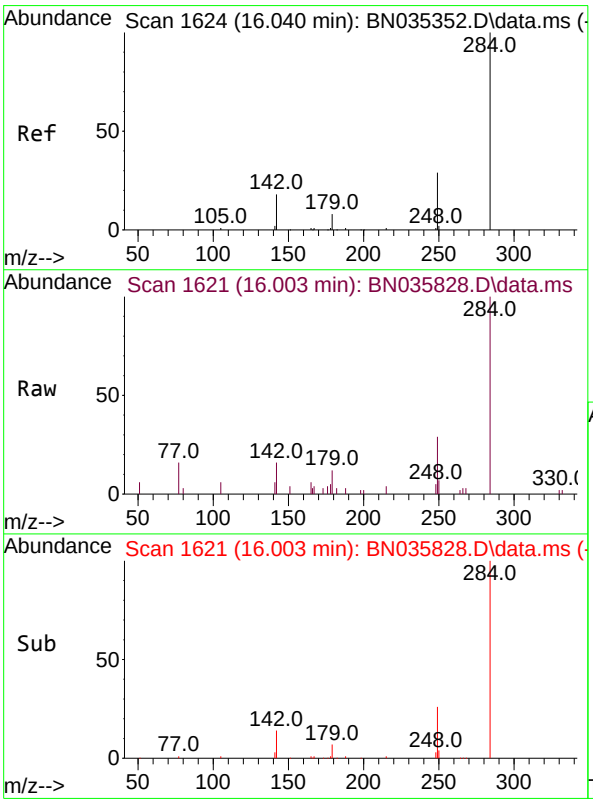
Ion	Ratio	Lower	Upper
248	100		
250	97.8	80.6	120.8
141	53.9	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

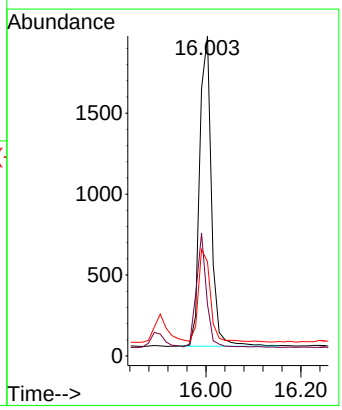


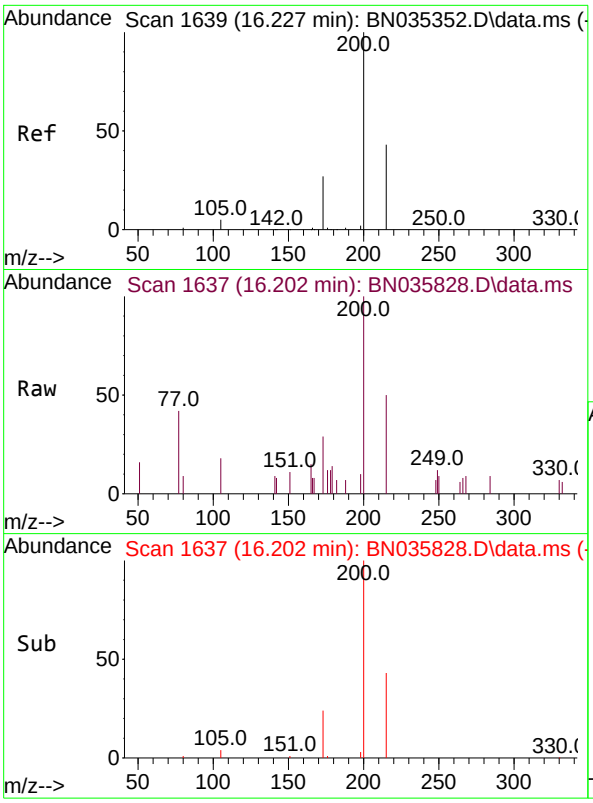


#22
Hexachlorobenzene
Concen: 0.484 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:284 Resp: 3296

Ion	Ratio	Lower	Upper
284	100		
142	32.1	26.7	40.1
249	30.7	24.6	36.8

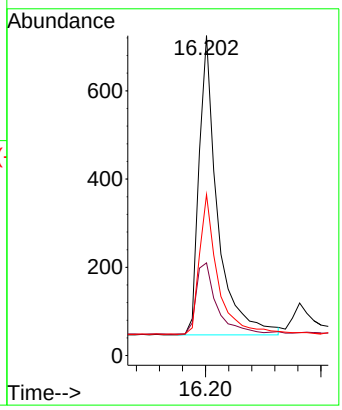




#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:200 Resp: 150

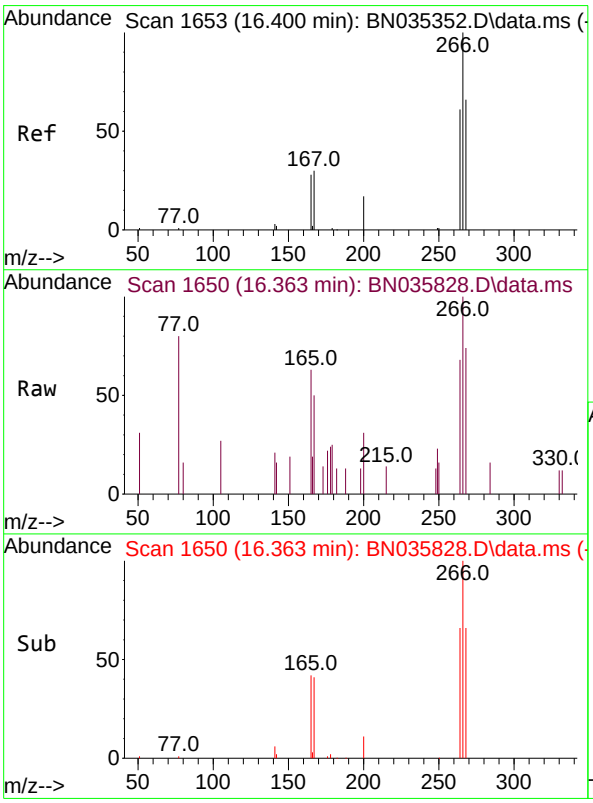
Ion	Ratio	Lower	Upper
200	100		
173	29.0	24.1	36.1
215	50.3	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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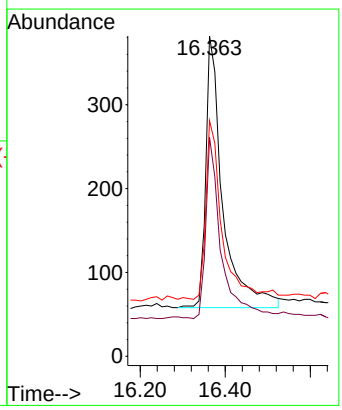
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

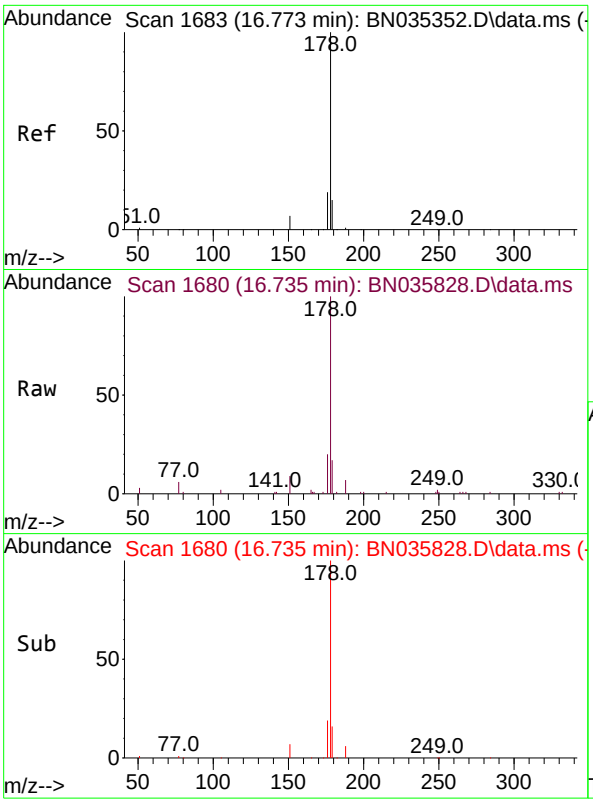


#24
Pentachlorophenol
Concen: 0.303 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:266 Resp: 898

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	61.1	43.3	64.9

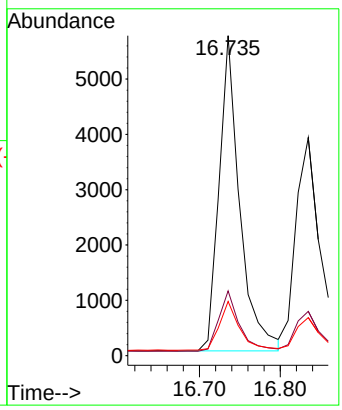




#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 1009

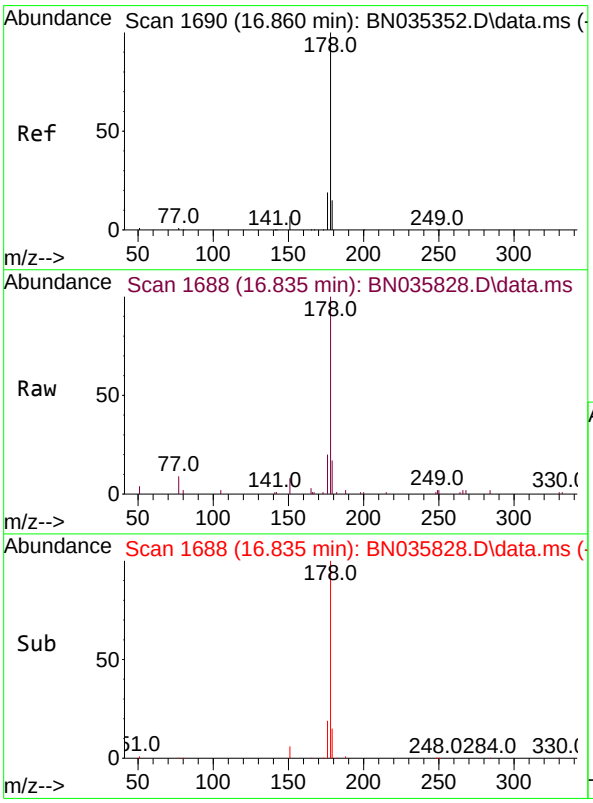
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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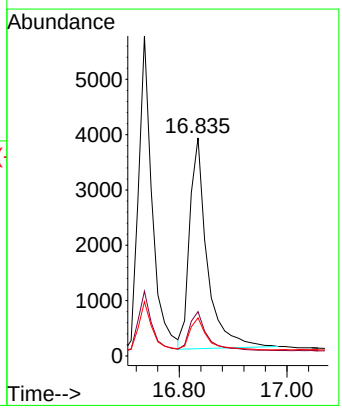
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

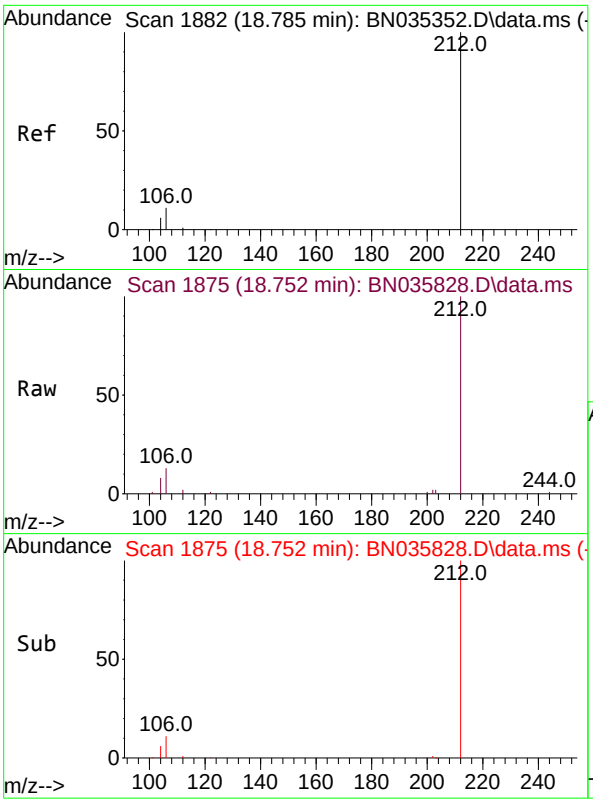


#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 8619

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.5	12.6	18.8

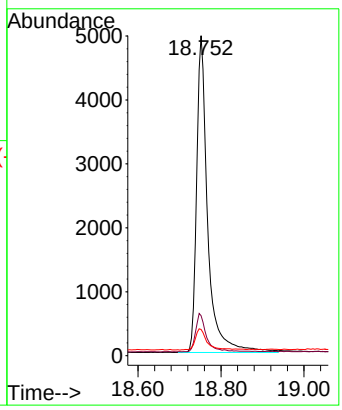




#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:212 Resp: 922

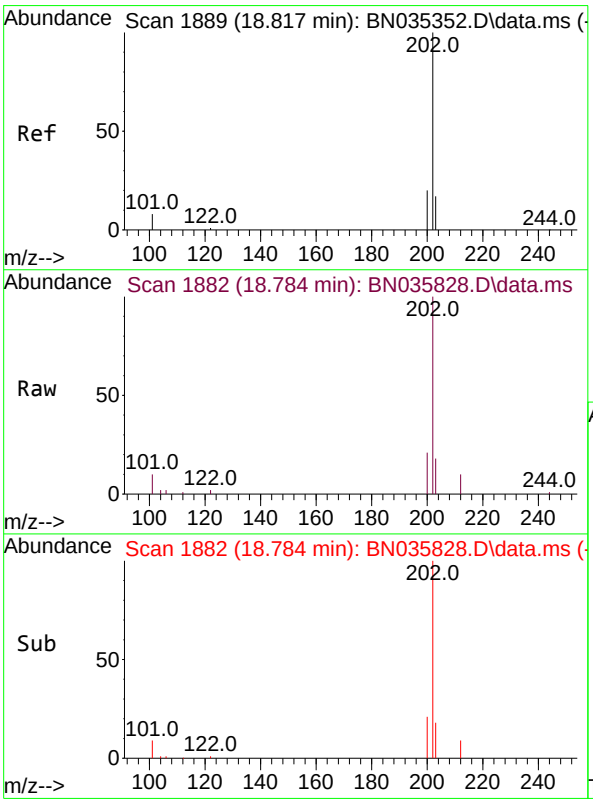
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	7.0	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

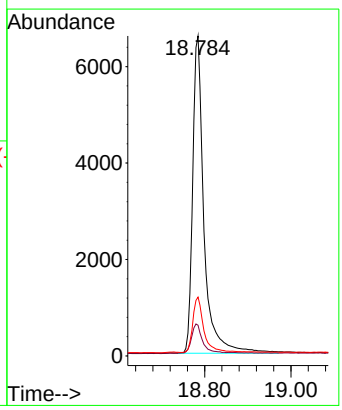
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

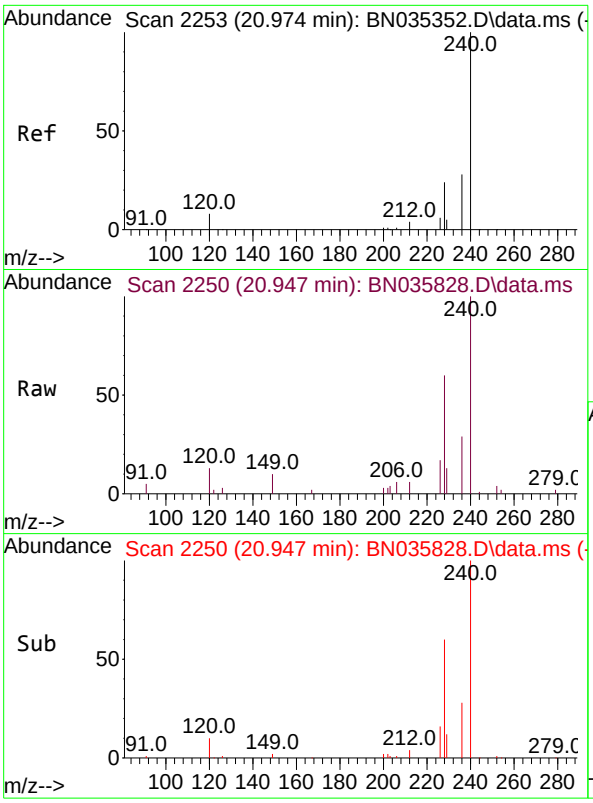


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 11973

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	17.3	13.7	20.5

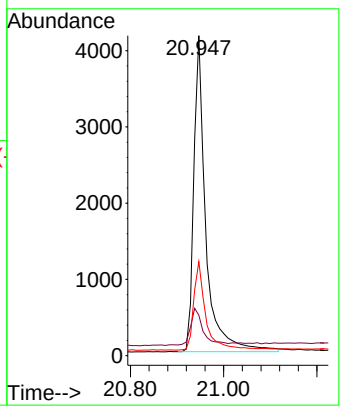




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

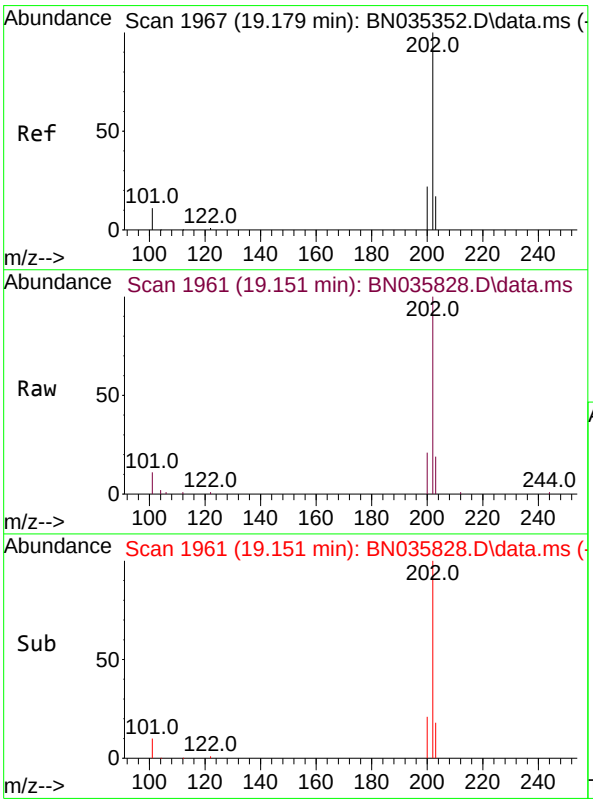
Tgt Ion:240 Resp: 744

Ion	Ratio	Lower	Upper
240	100		
120	12.6	7.9	11.9
236	29.4	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

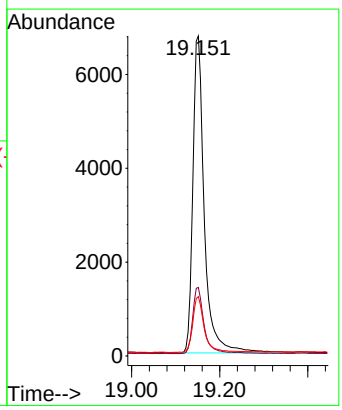
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

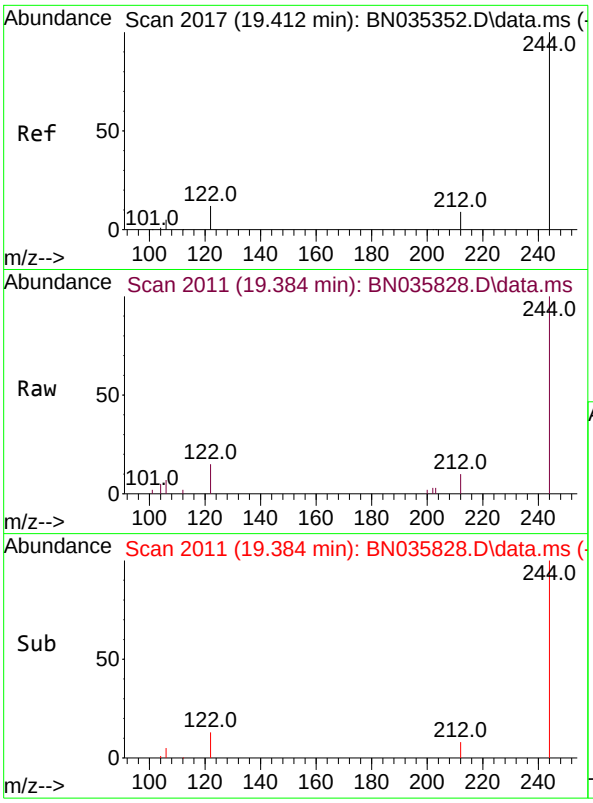


#30
Pyrene
Concen: 0.445 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 12223

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5

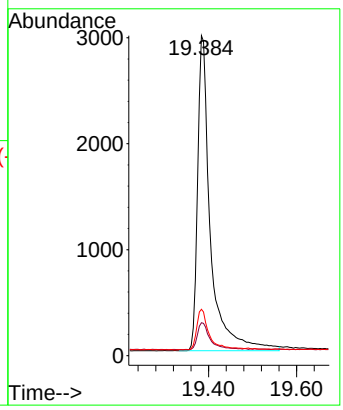




#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:244 Resp: 602

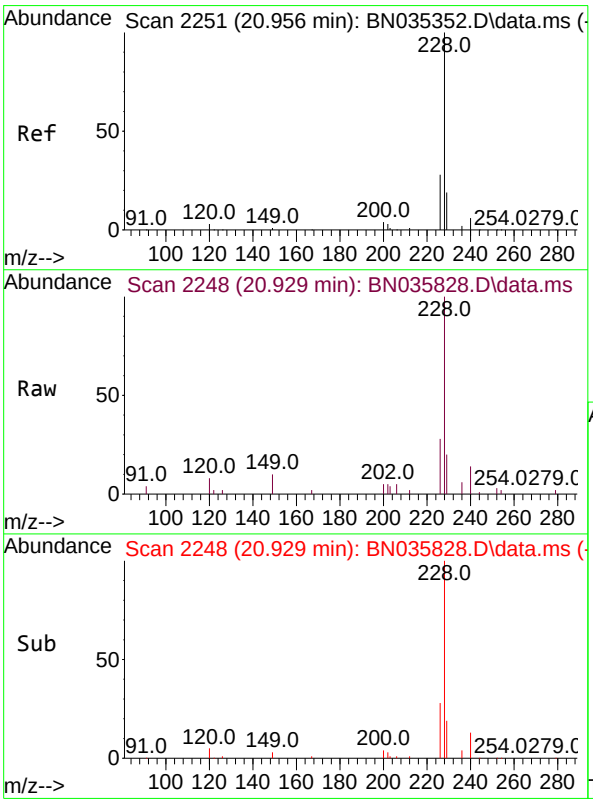
Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.5	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

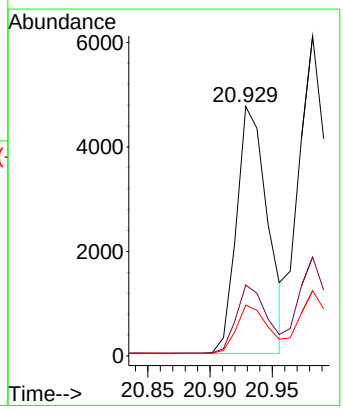
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

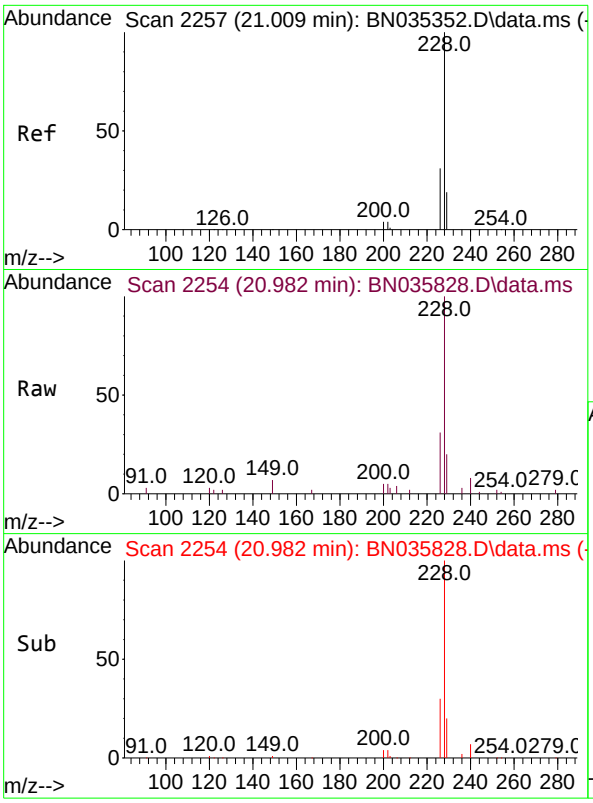


#32
Benzo(a)anthracene
Concen: 0.315 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 8203

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.4	15.8	23.8

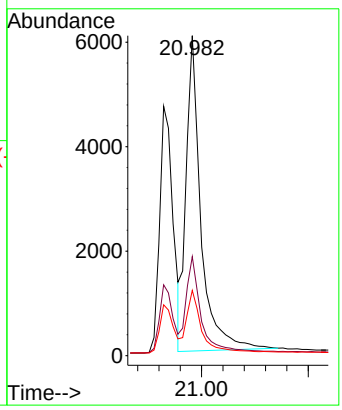




#33
Chrysene
Concen: 0.433 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 1162

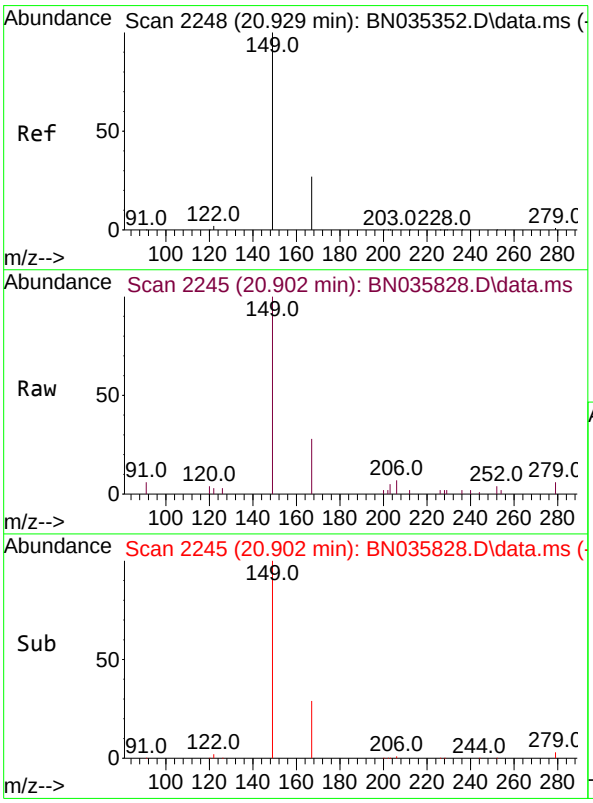
Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	37.0
229	20.4	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

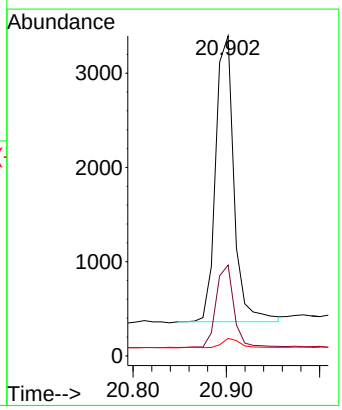
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

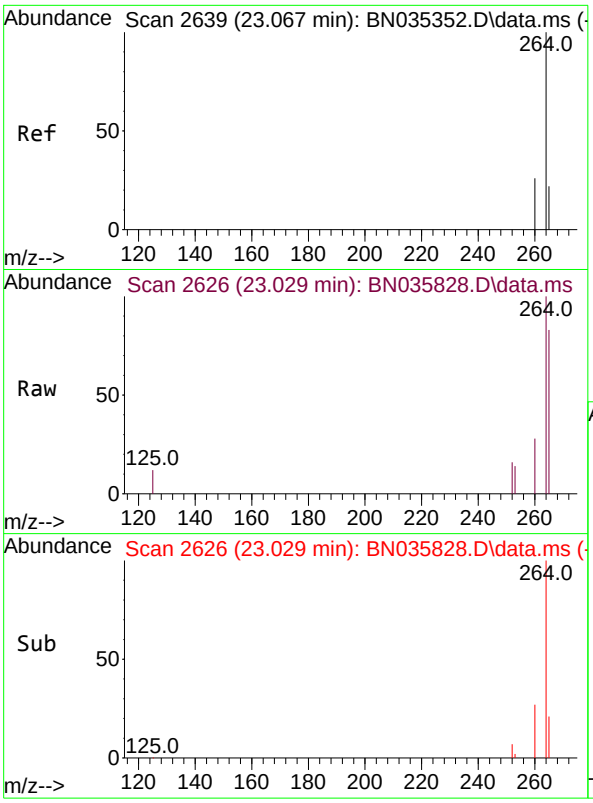


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:149 Resp: 4135

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.5	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

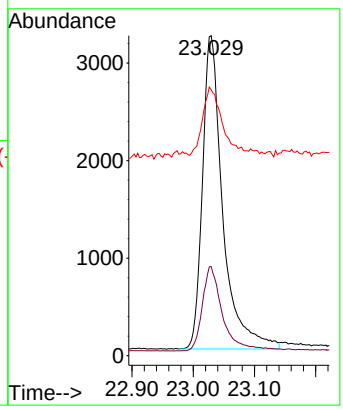
Tgt Ion:264 Resp: 742

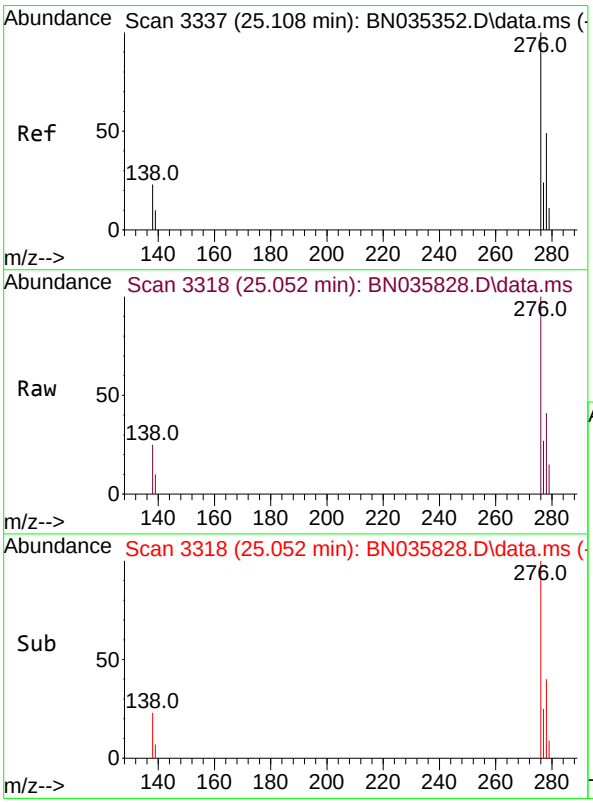
Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	83.1	40.2	60.4#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

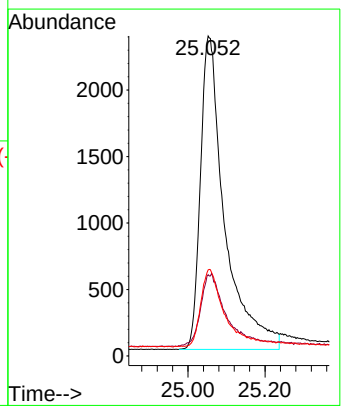


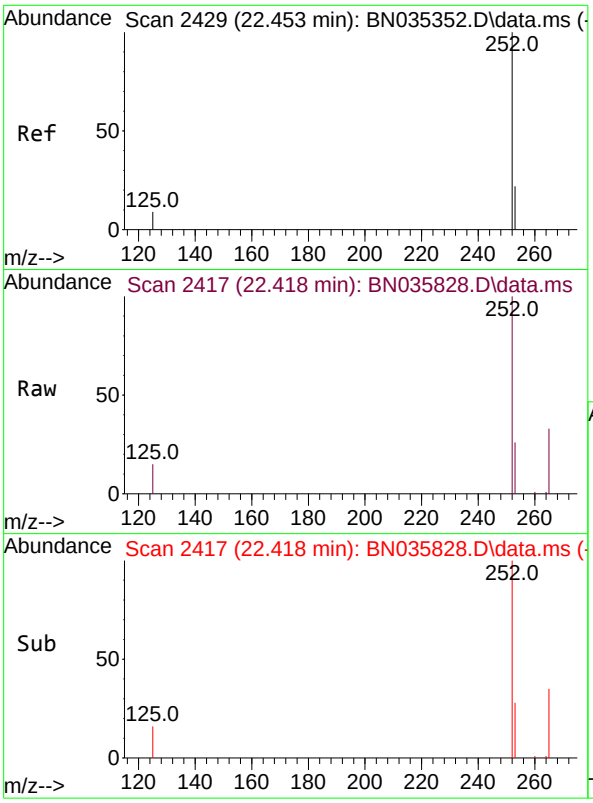


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.355 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 10298

Ion	Ratio	Lower	Upper
276	100		
138	8.7	19.4	29.0#
277	22.9	19.8	29.6

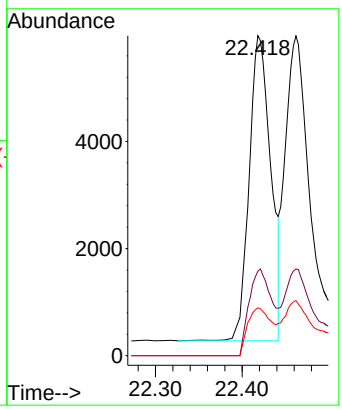




#37
Benzo(b)fluoranthene
Concen: 0.635 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 1724

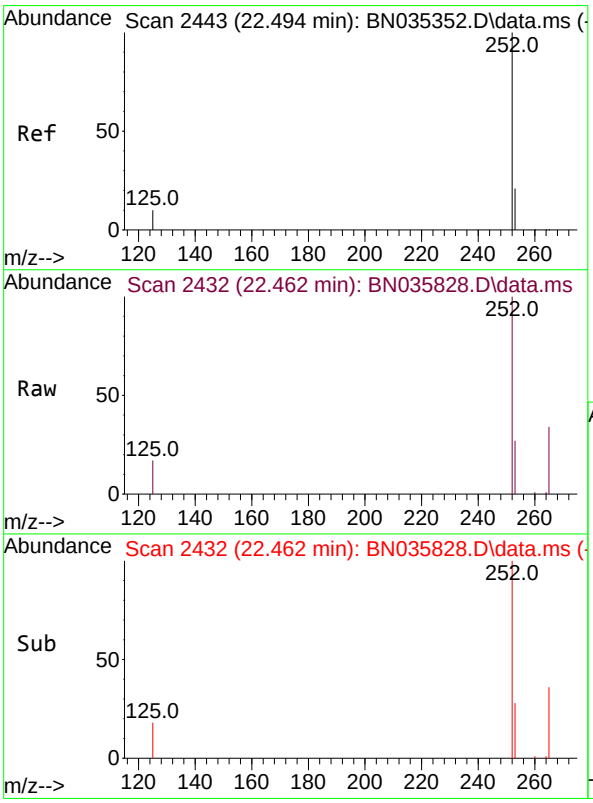
Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.6	29.4
125	15.0	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

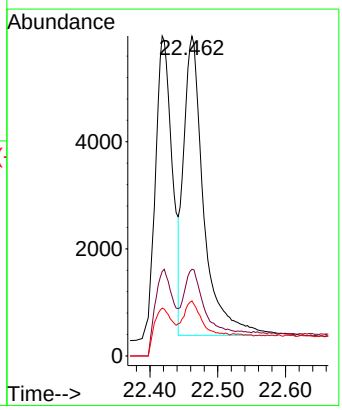
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

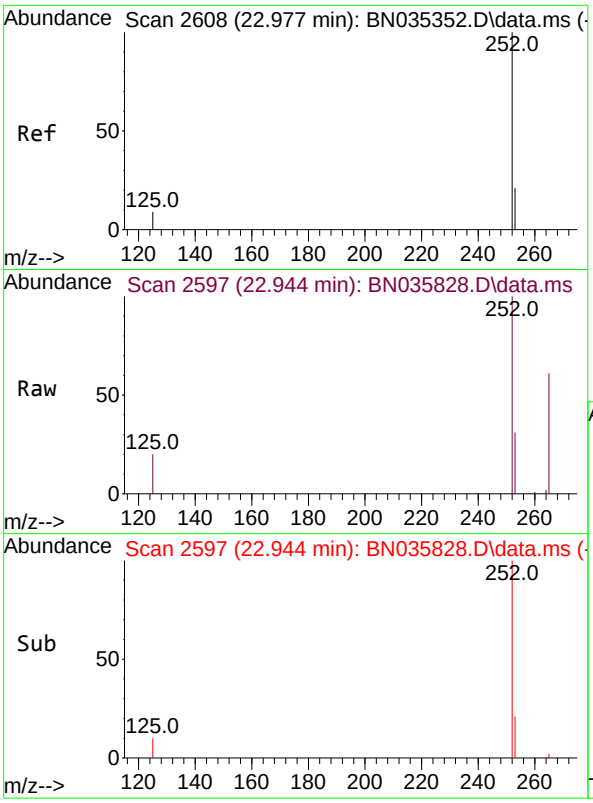


#38
Benzo(k)fluoranthene
Concen: 0.432 ng m
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 11542

Ion	Ratio	Lower	Upper
252	100		
253	27.1	19.5	29.3
125	17.2	10.2	15.4#

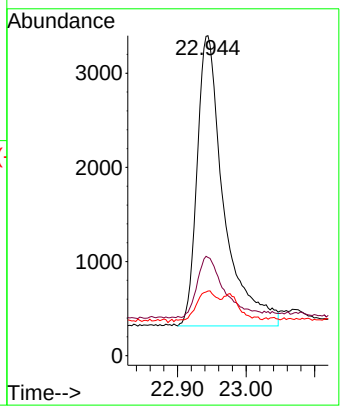




#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 833

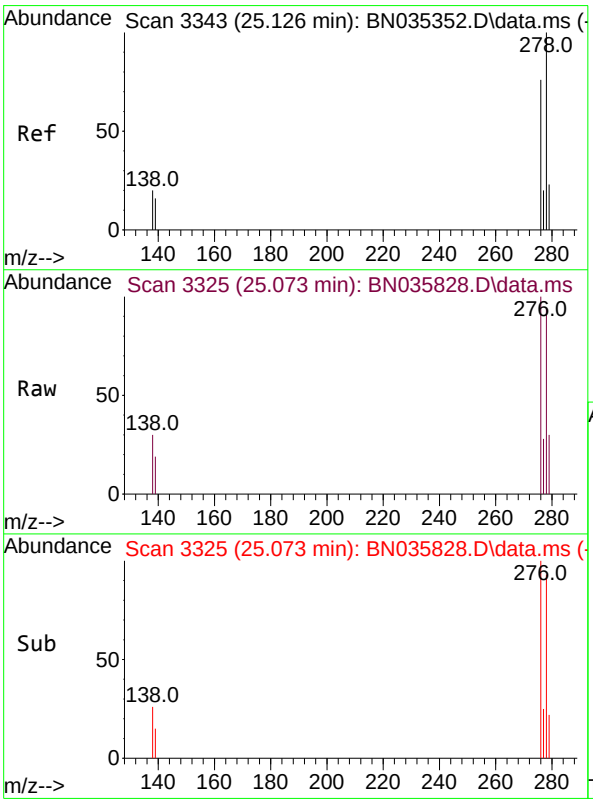
Ion	Ratio	Lower	Upper
252	100		
253	30.7	20.2	30.4#
125	20.2	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

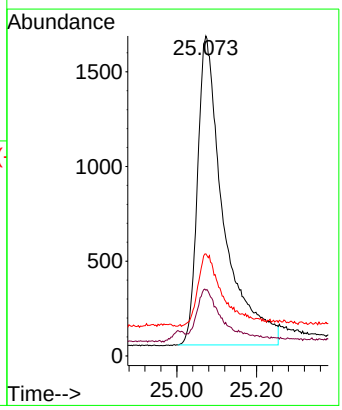
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

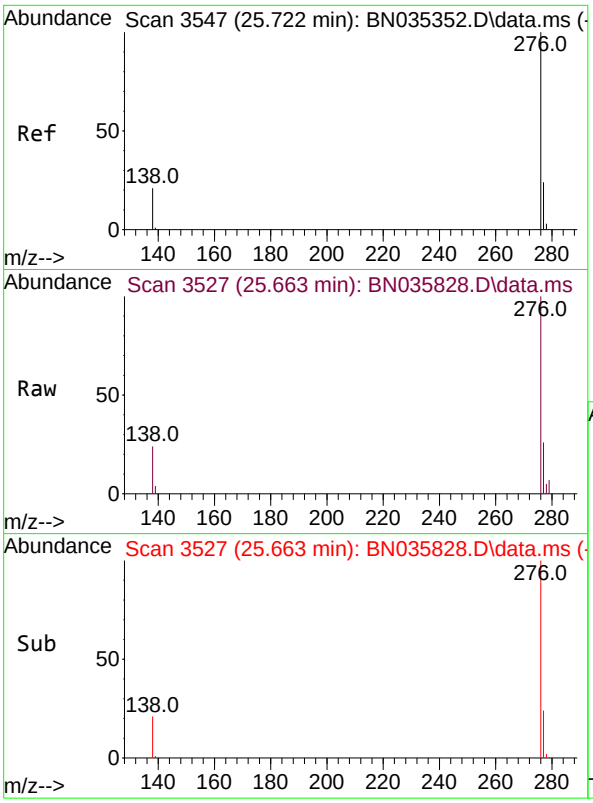


#40
Dibenzo(a,h)anthracene
Concen: 0.323 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:278 Resp: 7409

Ion	Ratio	Lower	Upper
278	100		
139	20.5	14.2	21.4
279	31.9	20.5	30.7#

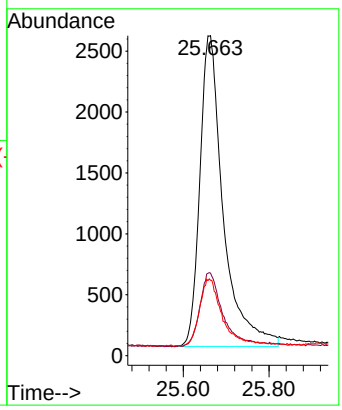




#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.663 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 965

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	23.6	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	196#	-0.02
2		1,4-Dioxane	0.382	0.501	-31.2#	260#	0.00
3		n-Nitrosodimethylamine	0.319	0.306	4.1	184#	0.00
4	S	2-Fluorophenol	1.001	0.895	10.6	172#	-0.01
5	S	Phenol-d6	1.204	1.524	-26.6#	250#	-0.02
6		bis(2-Chloroethyl)ether	1.012	1.030	-1.8	203#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	188#	-0.02
8	S	Nitrobenzene-d5	0.244	0.319	-30.7#	256#	-0.01
9		Naphthalene	1.055	1.095	-3.8	197#	-0.01
10		Hexachlorobutadiene	0.243	0.283	-16.5	215#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.533	14.9	162#	-0.01
12		2-Methylnaphthalene	0.755	0.661	12.5	168#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.194	31.7#	107	-0.01
15	S	2-Fluorobiphenyl	1.512	1.565	-3.5	147	-0.01
16		Acenaphthylene	1.680	1.573	6.4	140	-0.01
17		Acenaphthene	1.115	1.083	2.9	141	-0.02
18		Fluorene	1.596	1.361	14.7	125	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.024	38.5#	71	0.01
21		4-Bromophenyl-phenylether	0.234	0.231	1.3	107	-0.01
22		Hexachlorobenzene	0.275	0.333	-21.1	127	-0.01
23		Atrazine	0.167	0.152	9.0	103	0.00
24		Pentachlorophenol	0.120	0.091	24.2	99	-0.01
25		Phenanthrene	1.099	1.019	7.3	100	-0.01
26		Anthracene	0.994	0.870	12.5	97	0.00
27	SURR	Fluoranthene-d10	1.134	0.931	17.9	90	0.00
28		Fluoranthene	1.481	1.209	18.4	89	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	78	0.00
30		Pyrene	1.477	1.641	-11.1	87	0.00
31	S	Terphenyl-d14	0.789	0.809	-2.5	80	0.00
32		Benzo(a)anthracene	1.399	1.102	21.2	64	0.00
33		Chrysene	1.443	1.561	-8.2	85	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.555	-0.4	84	0.00
35	I	Perylene-d12	1.000	1.000	0.0	68	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.387	11.3	62	-0.01
37		Benzo(b)fluoranthene	1.463	2.322	-58.7#	121	-0.01
38		Benzo(k)fluoranthene	1.440	1.554	-7.9	76	0.00
39	C	Benzo(a)pyrene	1.205	1.123	6.8	67	0.00
40		Dibenzo(a,h)anthracene	1.234	0.998	19.1	57	0.00
41		Benzo(g,h,i)perylene	1.289	1.300	-0.9	71	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	196	-0.02
2		1,4-Dioxane	0.400	0.524	-31.0#	260	0.00
3		n-Nitrosodimethylamine	0.400	0.384	4.0	184	0.00
4	S	2-Fluorophenol	0.400	0.358	10.5	172	-0.01
5	S	Phenol-d6	0.400	0.506	-26.5#	250	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.407	-1.7	203	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	188	-0.02
8	S	Nitrobenzene-d5	0.400	0.522	-30.5#	256	-0.01
9		Naphthalene	0.400	0.415	-3.7	197	-0.01
10		Hexachlorobutadiene	0.400	0.465	-16.3	215	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.341	14.8	162	-0.01
12		2-Methylnaphthalene	0.400	0.350	12.5	168	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.273	31.8#	107	-0.01
15	S	2-Fluorobiphenyl	0.400	0.414	-3.5	147	-0.01
16		Acenaphthylene	0.400	0.375	6.3	140	-0.01
17		Acenaphthene	0.400	0.389	2.8	141	-0.02
18		Fluorene	0.400	0.341	14.8	125	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	104	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.245	38.8#	71	0.01
21		4-Bromophenyl-phenylether	0.400	0.395	1.3	107	-0.01
22		Hexachlorobenzene	0.400	0.484	-21.0	127	-0.01
23		Atrazine	0.400	0.365	8.8	103	0.00
24		Pentachlorophenol	0.400	0.303	24.3	99	-0.01
25		Phenanthrene	0.400	0.371	7.3	100	-0.01
26		Anthracene	0.400	0.350	12.5	97	0.00
27	SURR	Fluoranthene-d10	0.400	0.328	18.0	90	0.00
28		Fluoranthene	0.400	0.326	18.5	89	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	78	0.00
30		Pyrene	0.400	0.445	-11.2	87	0.00
31	S	Terphenyl-d14	0.400	0.410	-2.5	80	0.00
32		Benzo(a)anthracene	0.400	0.315	21.3	64	0.00
33		Chrysene	0.400	0.433	-8.2	85	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.402	-0.5	84	0.00
35	I	Perylene-d12	0.400	0.400	0.0	68	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.355	11.3	62	-0.01
37		Benzo(b)fluoranthene	0.400	0.635	-58.7#	121	-0.01
38		Benzo(k)fluoranthene	0.400	0.432	-8.0	76	0.00
39	C	Benzo(a)pyrene	0.400	0.373	6.8	67	0.00
40		Dibenzo(a,h)anthracene	0.400	0.323	19.3	57	0.00
41		Benzo(g,h,i)perylene	0.400	0.403	-0.8	71	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 20:55

Lab File ID: BN035830.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.551		-12.0	20.0
Fluoranthene-d10	1.134	0.951		-16.1	20.0
2-Fluorophenol	1.001	0.909		-9.2	20.0
Phenol-d6	1.204	1.553		29.0	20.0
Nitrobenzene-d5	0.244	0.308		26.2	20.0
2-Fluorobiphenyl	1.512	1.517		0.3	20.0
2,4,6-Tribromophenol	0.284	0.202		-28.9	20.0
Terphenyl-d14	0.789	0.833		5.6	20.0
1,4-Dioxane	0.382	0.490		28.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3866	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	9955	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	5956	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	11143	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7851	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7870	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3514	0.363	ng	-0.01
5) Phenol-d6	6.470	99	6003	0.516	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3063m	0.504	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5482	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	1203	0.285	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	9033	0.401	ng	-0.02
27) Fluoranthene-d10	18.752	212	10597m	0.335	ng	0.00
31) Terphenyl-d14	19.384	244	6543	0.422	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1895m	0.513	ng	
3) n-Nitrosodimethylamine	3.270	42	1162	0.377	ng	# 83
6) bis(2-Chloroethyl)ether	6.715	93	4053	0.415	ng	99
9) Naphthalene	10.052	128	10855	0.413	ng	99
10) Hexachlorobutadiene	10.340	225	2815	0.465	ng	# 100
12) 2-Methylnaphthalene	11.681	142	6938	0.369	ng	98
16) Acenaphthylene	13.625	152	9384	0.375	ng	100
17) Acenaphthene	13.978	154	6532	0.393	ng	100
18) Fluorene	14.983	166	8318	0.350	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	301	0.275	ng	# 35
21) 4-Bromophenyl-phenylether	15.904	248	2677	0.411	ng	# 94
22) Hexachlorobenzene	16.003	284	3900	0.510	ng	96
23) Atrazine	16.202	200	1790	0.386	ng	96
24) Pentachlorophenol	16.363	266	1032	0.310	ng	88
25) Phenanthrene	16.735	178	11523	0.376	ng	100
26) Anthracene	16.835	178	9576	0.346	ng	100
28) Fluoranthene	18.780	202	13046	0.316	ng	100
30) Pyrene	19.152	202	13156	0.454	ng	100
32) Benzo(a)anthracene	20.929	228	8776	0.320	ng	100
33) Chrysene	20.983	228	12184	0.430	ng	100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4711	0.434	ng	100
36) Indeno(1,2,3-cd)pyrene	25.052	276	10972	0.357	ng	99
37) Benzo(b)fluoranthene	22.418	252	14430	0.501	ng	# 95
38) Benzo(k)fluoranthene	22.459	252	12555m	0.443	ng	
39) Benzo(a)pyrene	22.942	252	8861	0.374	ng	# 88
40) Dibenzo(a,h)anthracene	25.076	278	7792	0.321	ng	92
41) Benzo(g,h,i)perylene	25.661	276	10218	0.403	ng	99

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

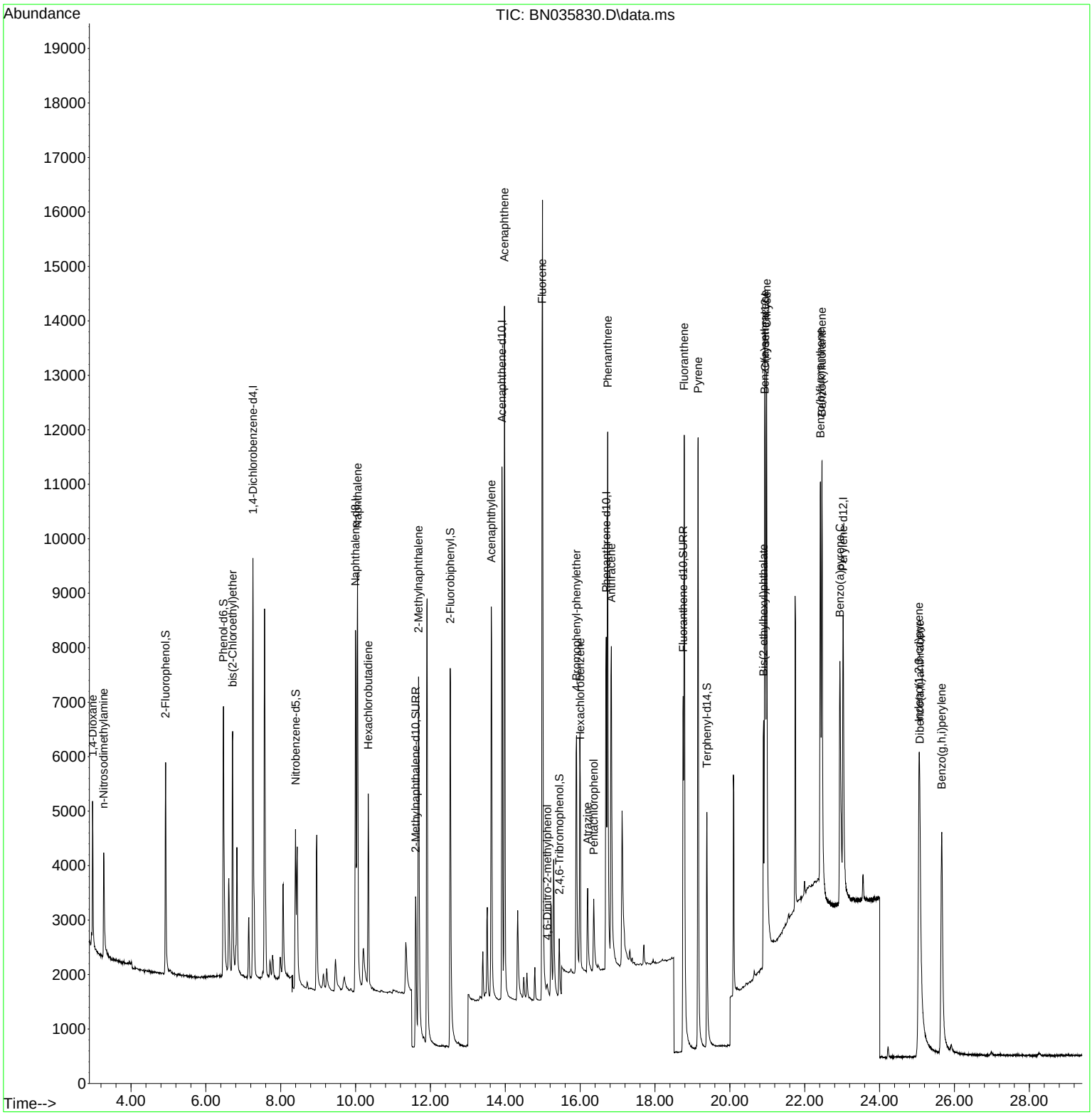
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Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

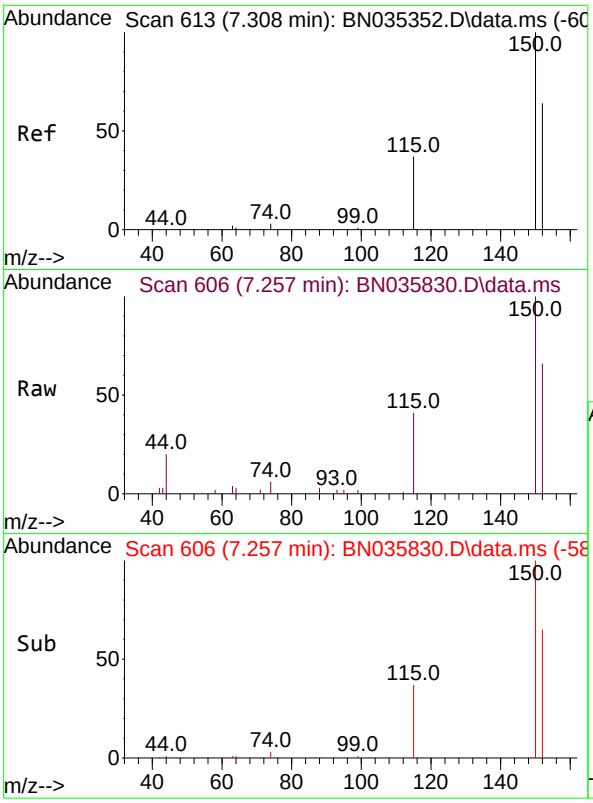
Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

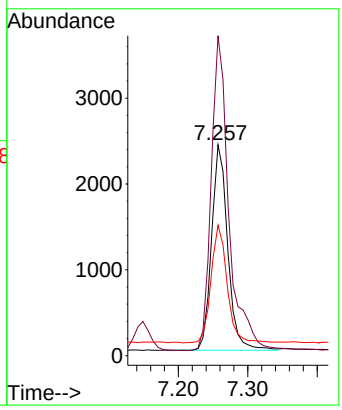




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:152 Resp: 386(

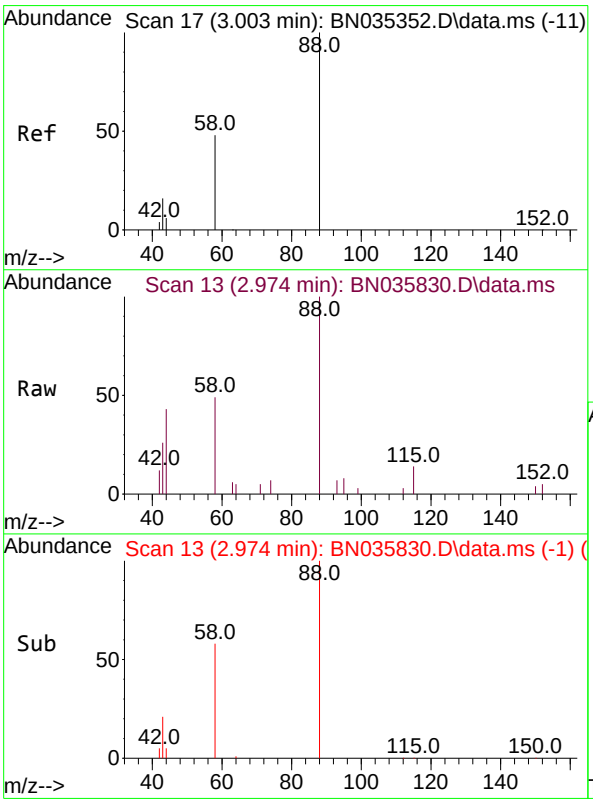
Ion	Ratio	Lower	Upper
152	100		
150	151.7	124.0	186.0
115	61.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

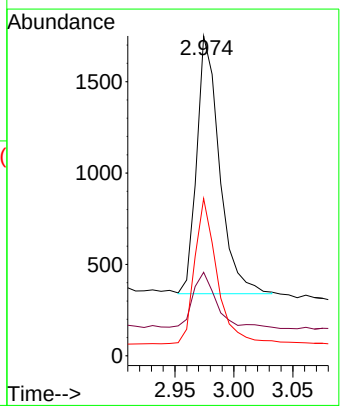
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

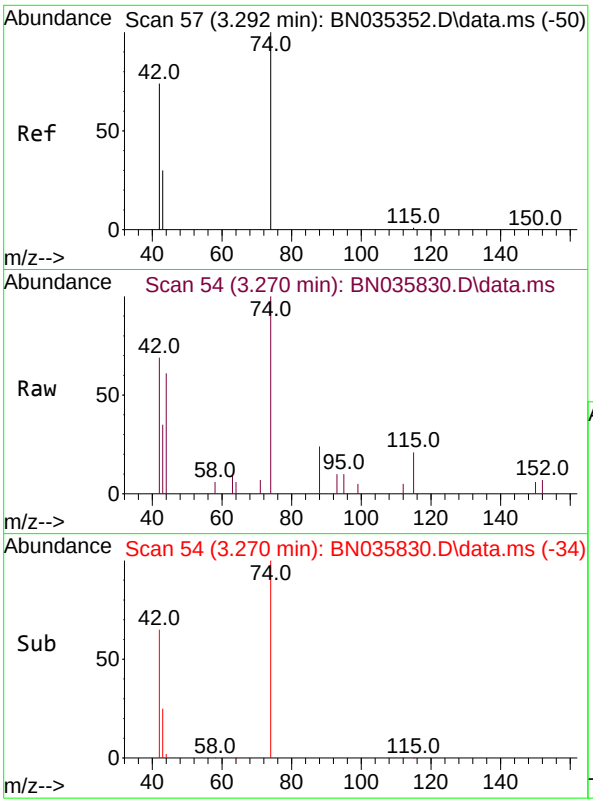


#2
1,4-Dioxane
Concen: 0.513 ng m
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 88 Resp: 1895

Ion	Ratio	Lower	Upper
88	100		
43	23.2	17.2	25.8
58	56.4	44.5	66.7

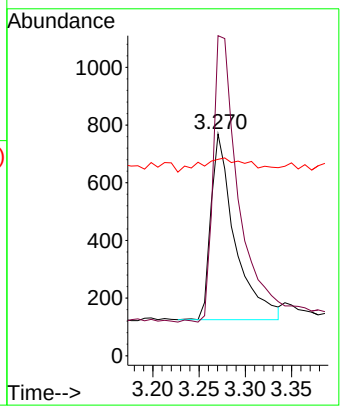




#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.270 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 42 Resp: 116

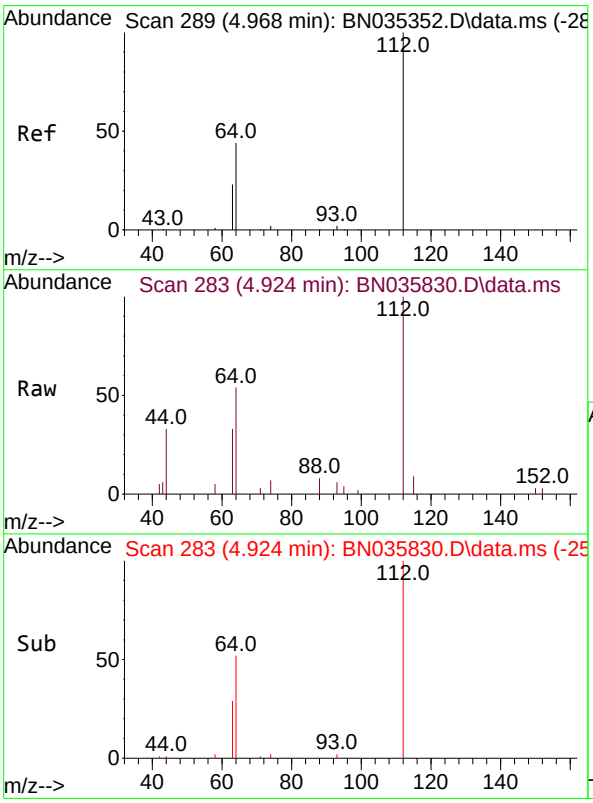
Ion	Ratio	Lower	Upper
42	100		
74	177.6	124.9	187.3
44	15.8	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

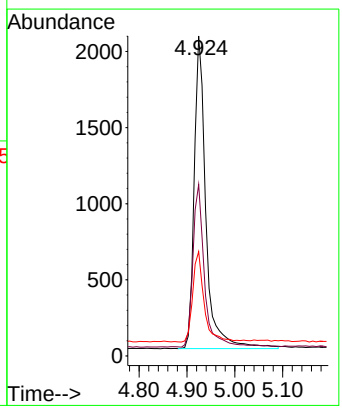
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

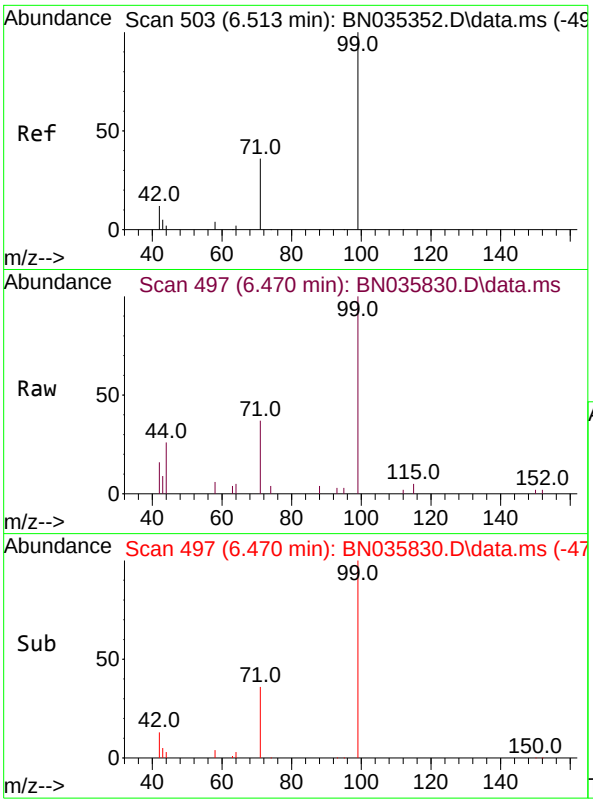


#4
2-Fluorophenol
Concen: 0.363 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:112 Resp: 3514

Ion	Ratio	Lower	Upper
112	100		
64	50.9	39.8	59.8
63	27.9	21.0	31.6





#5
Phenol-d6
Concen: 0.516 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

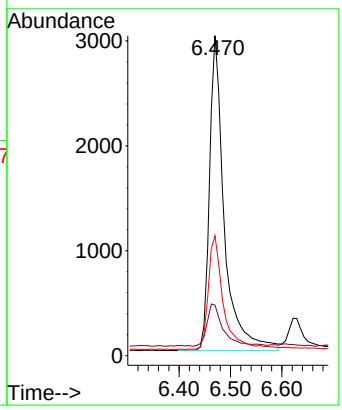
Tgt Ion: 99 Resp: 600

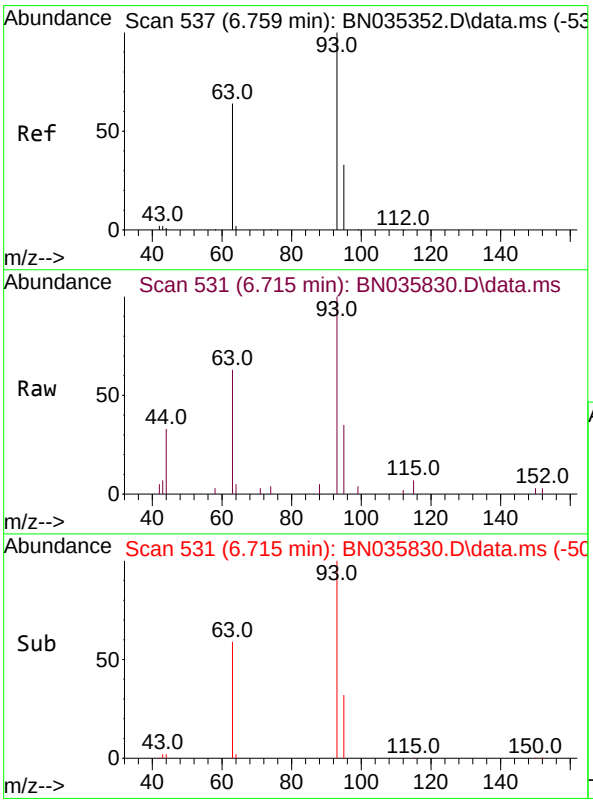
Ion	Ratio	Lower	Upper
99	100		
42	14.8	11.4	17.2
71	37.8	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

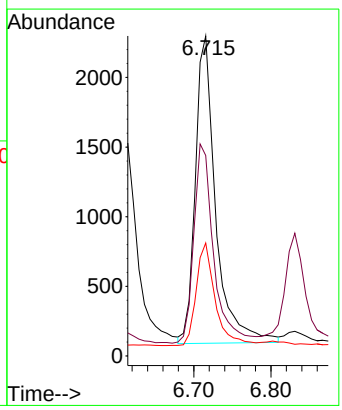


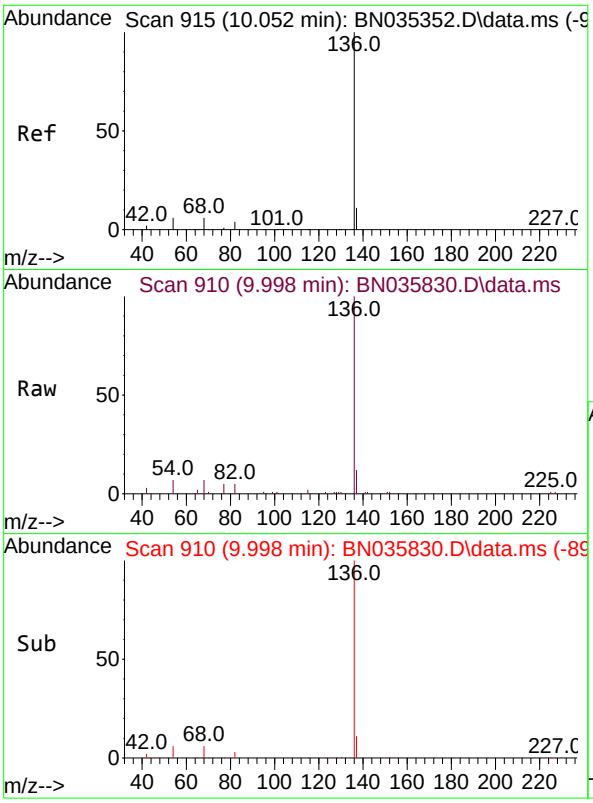


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 93 Resp: 4053

Ion	Ratio	Lower	Upper
93	100		
63	63.1	50.4	75.6
95	31.0	25.7	38.5

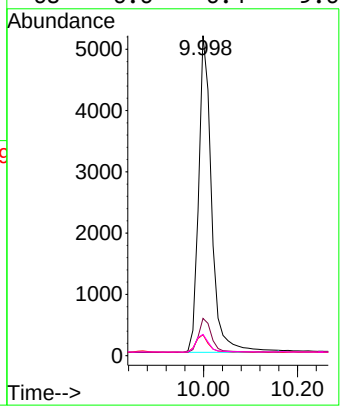




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:136 Resp: 995

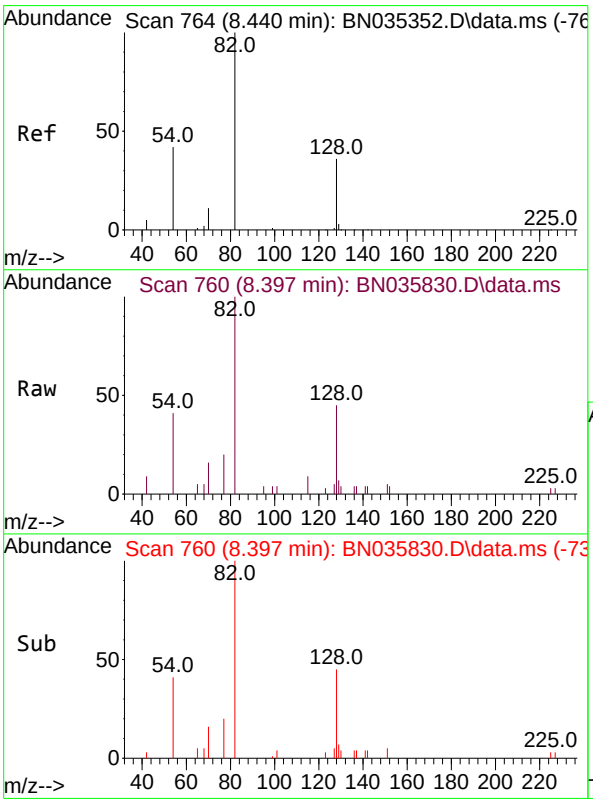
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	6.6	6.1	9.1
68	6.6	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

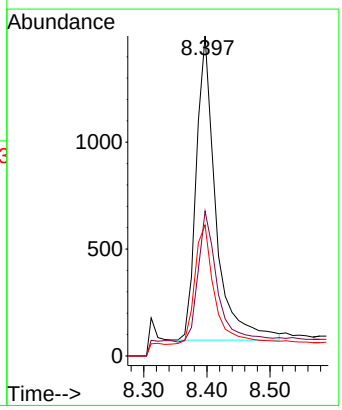
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

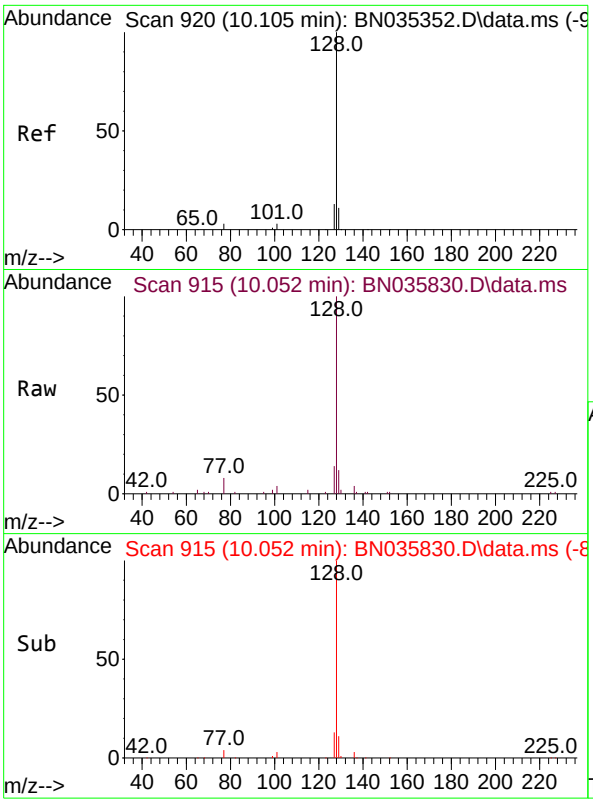


#8
Nitrobenzene-d5
Concen: 0.504 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 82 Resp: 3063

Ion	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.9	36.7	55.1

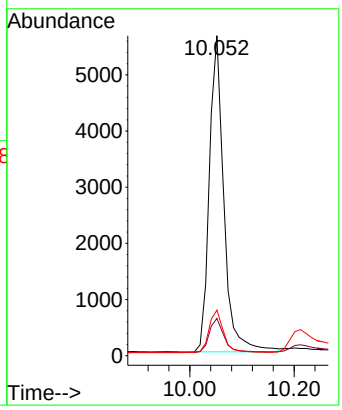




#9
Naphthalene
Concen: 0.413 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:128 Resp: 1085

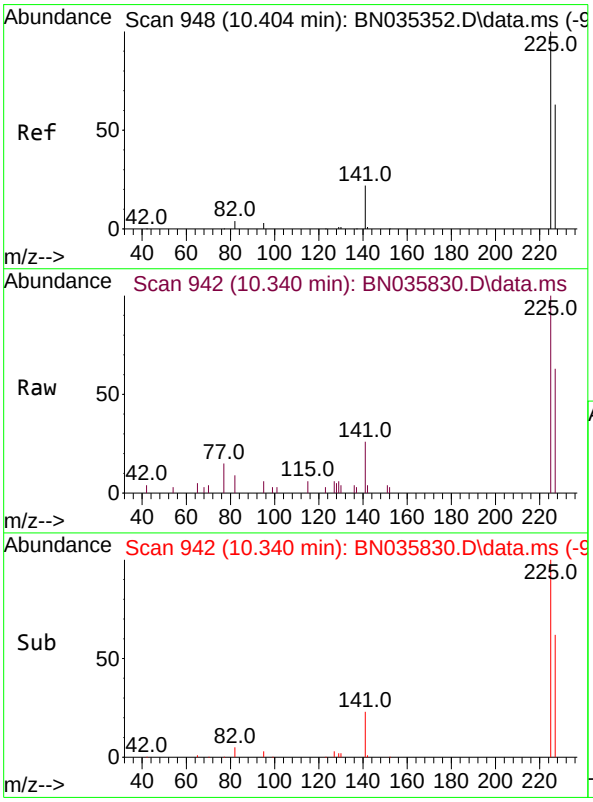
Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	14.3	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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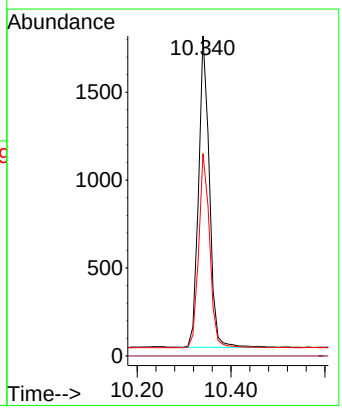
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

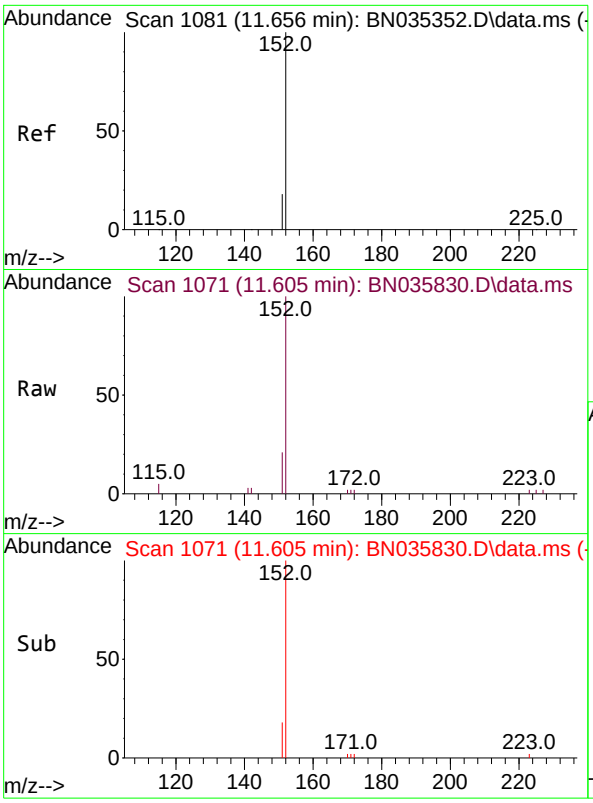


#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:225 Resp: 2815

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9

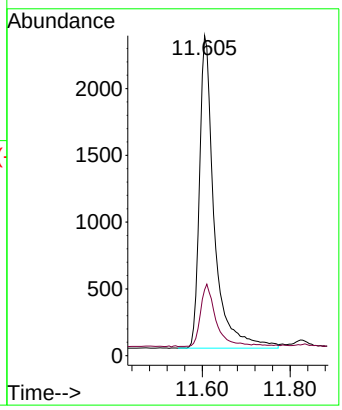




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:152 Resp: 548

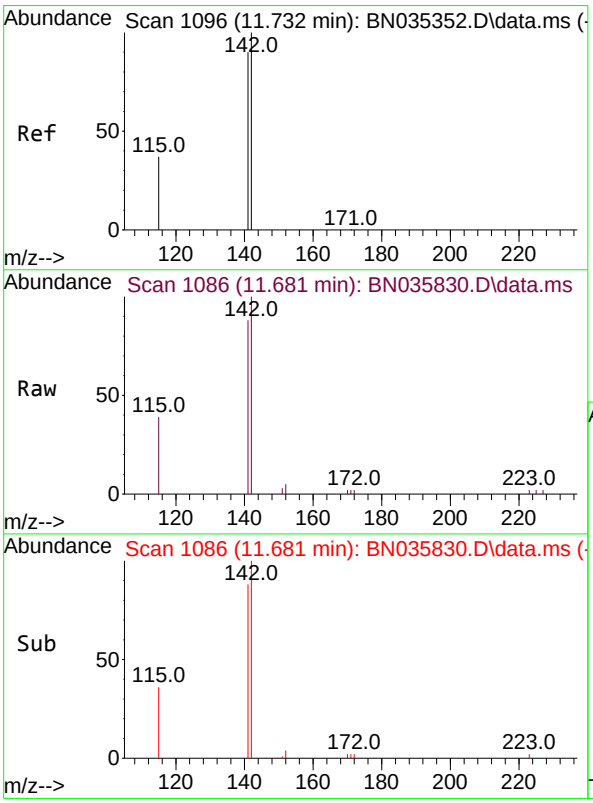
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

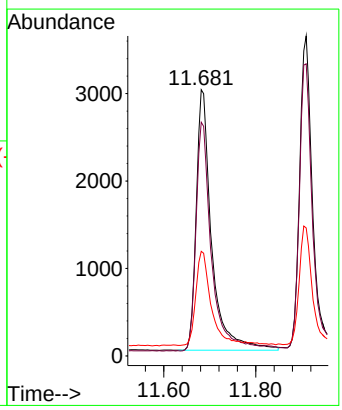
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

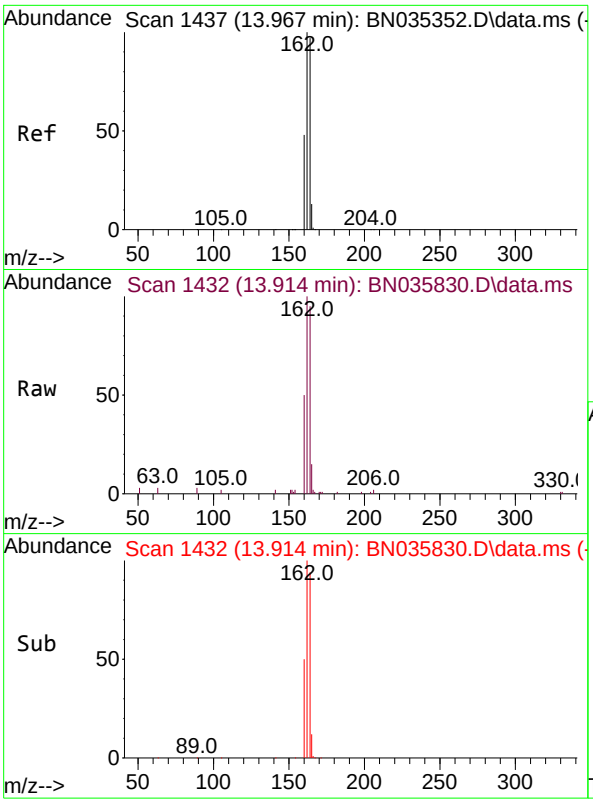


#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:142 Resp: 6938

Ion	Ratio	Lower	Upper
142	100		
141	87.8	72.2	108.4
115	39.3	31.4	47.0

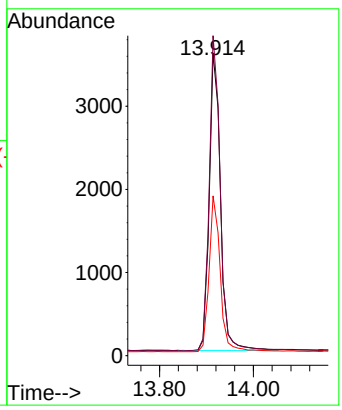




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:164 Resp: 595

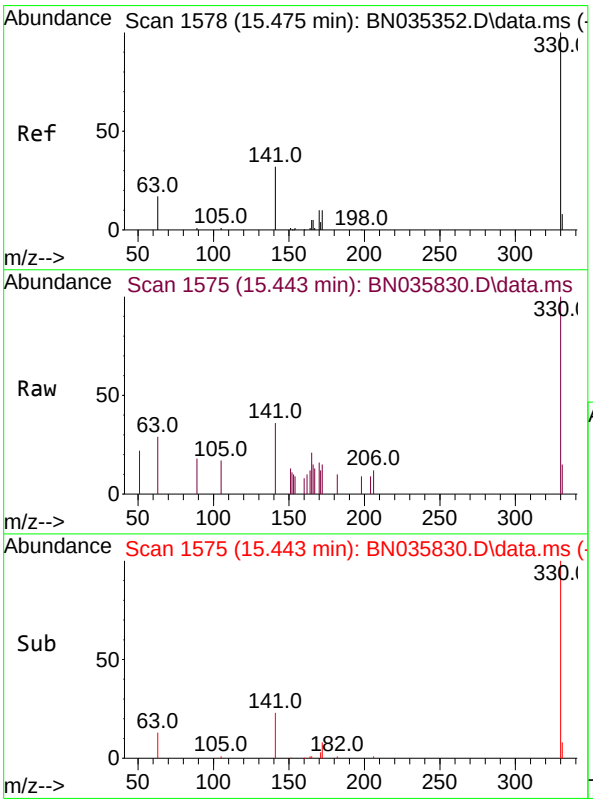
Ion	Ratio	Lower	Upper
164	100		
162	105.8	82.2	123.2
160	52.9	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

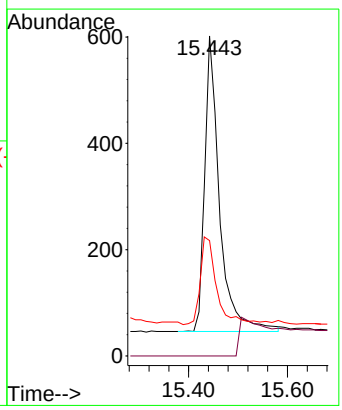
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

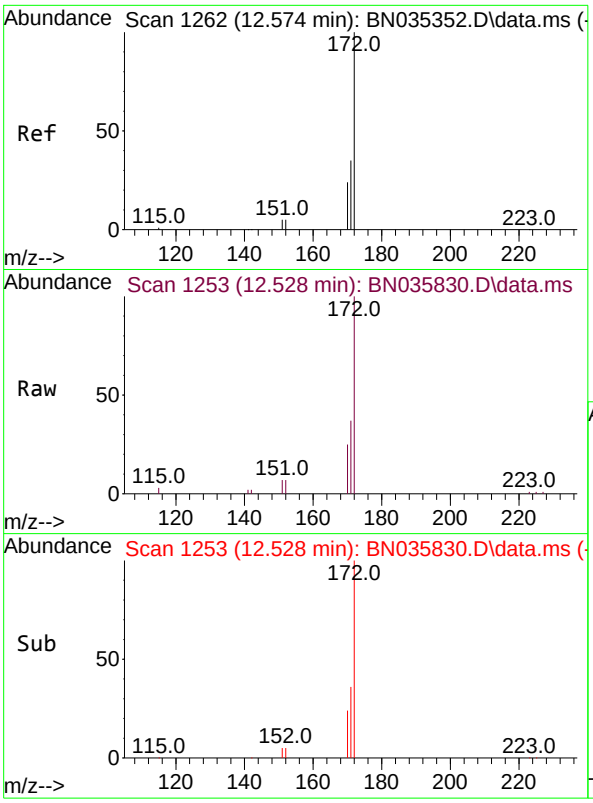


#14
2,4,6-Tribromophenol
Concen: 0.285 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:330 Resp: 1203

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0

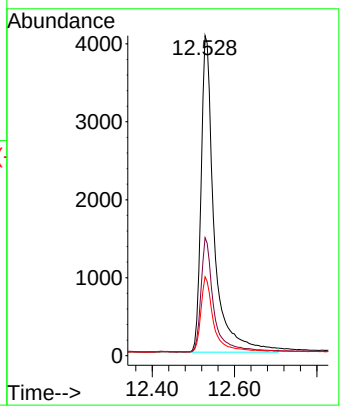




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:172 Resp: 903

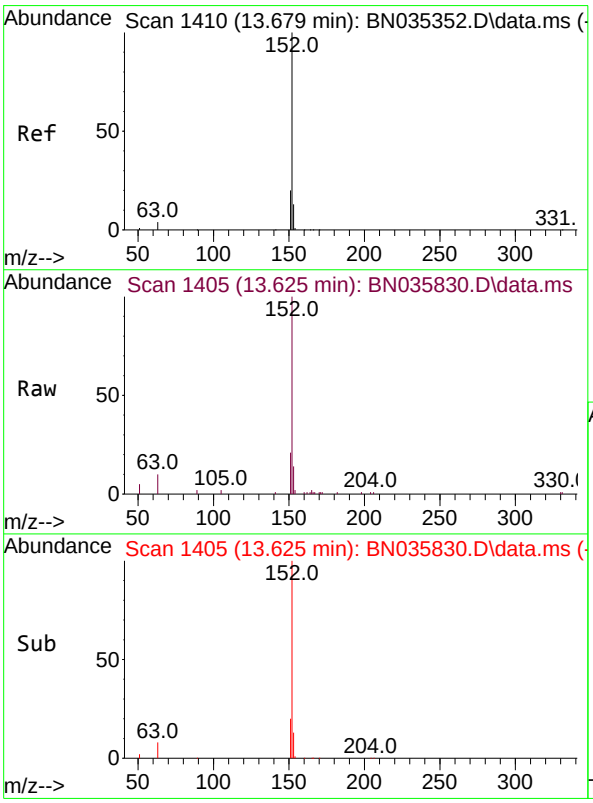
Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

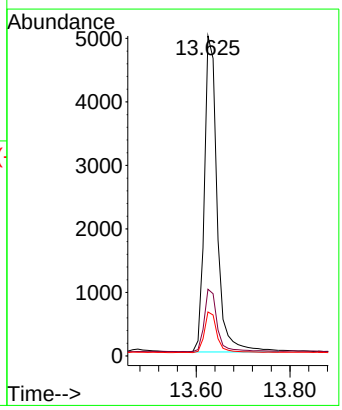
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

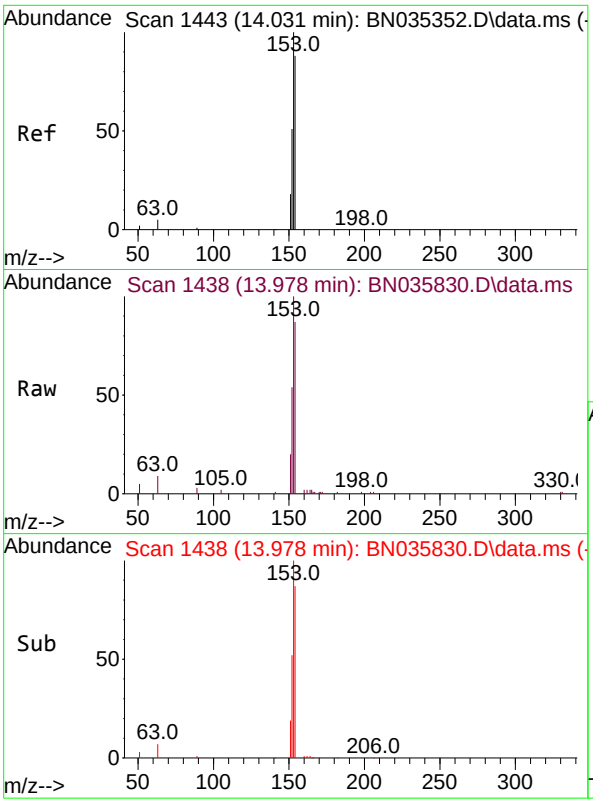


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:152 Resp: 9384

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	12.7	10.4	15.6

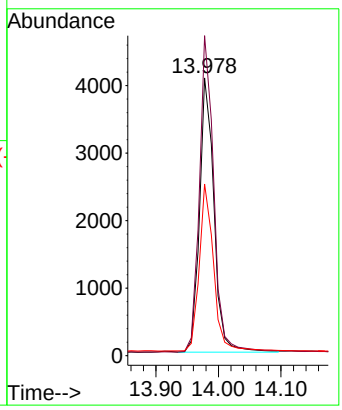




#17
Acenaphthene
Concen: 0.393 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:154 Resp: 653

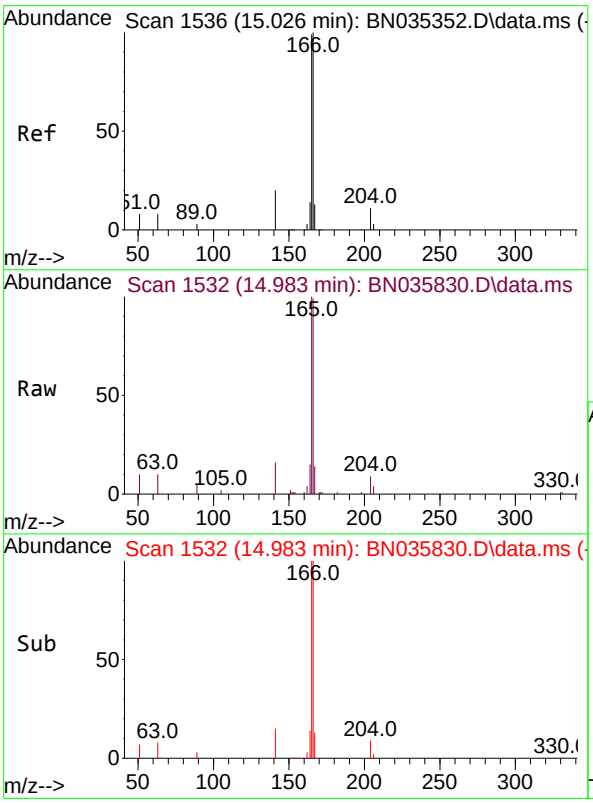
Ion	Ratio	Lower	Upper
154	100		
153	115.7	92.6	139.0
152	60.6	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

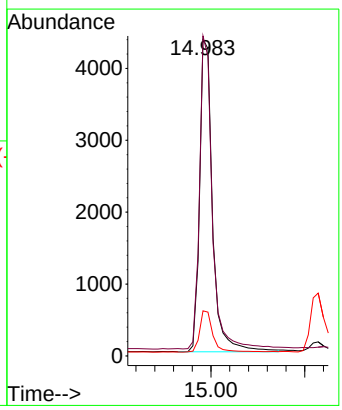
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

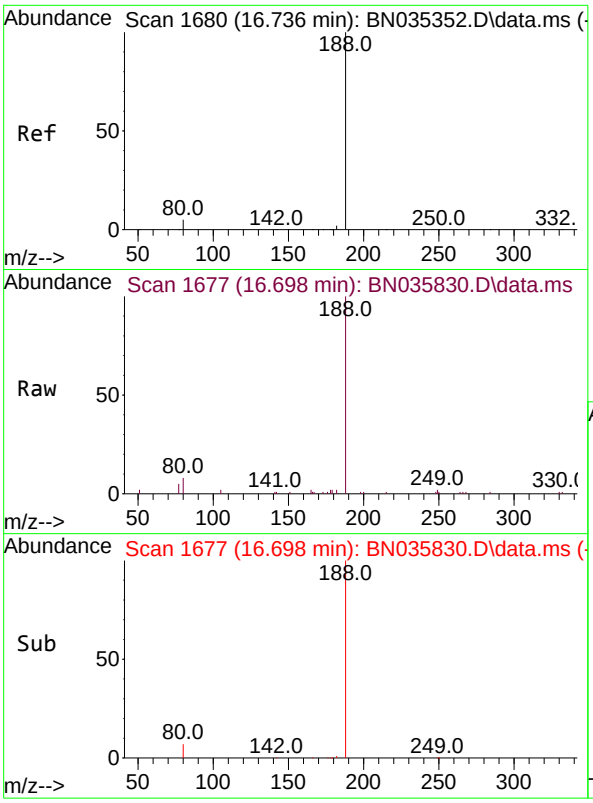


#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:166 Resp: 8318

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.4	10.8	16.2

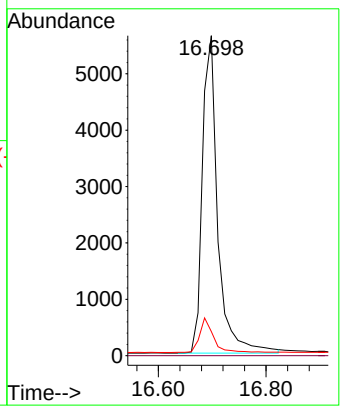




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:188 Resp: 1114

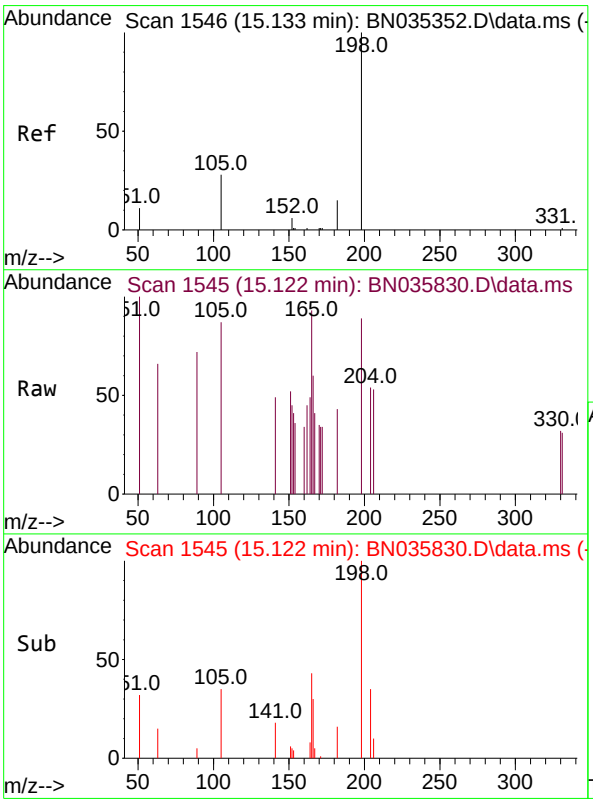
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.6	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

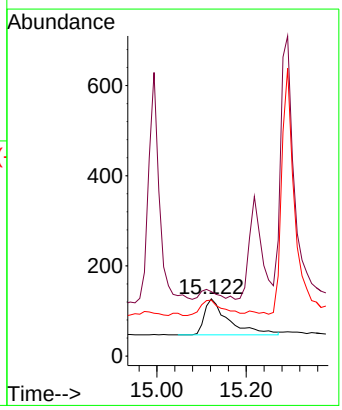
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

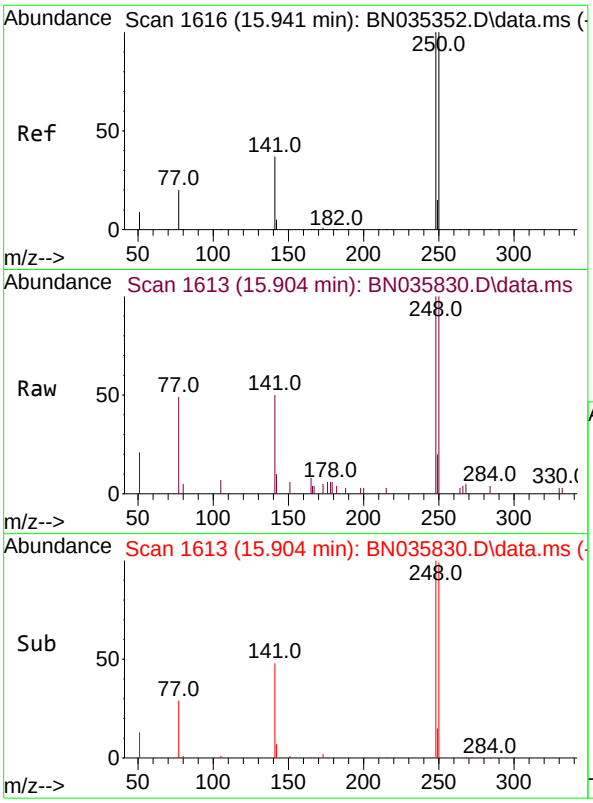


#20
4,6-Dinitro-2-methylphenol
Concen: 0.275 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:198 Resp: 301

Ion	Ratio	Lower	Upper
198	100		
51	112.6	46.5	69.7#
105	97.6	45.3	67.9#

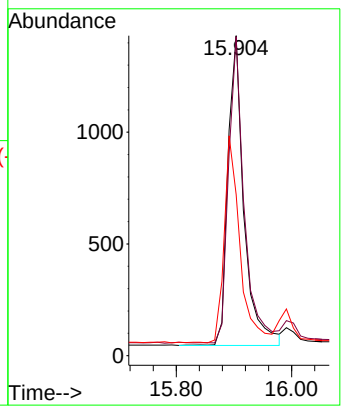




#21
4-Bromophenyl-phenylether
Concen: 0.411 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:248 Resp: 267

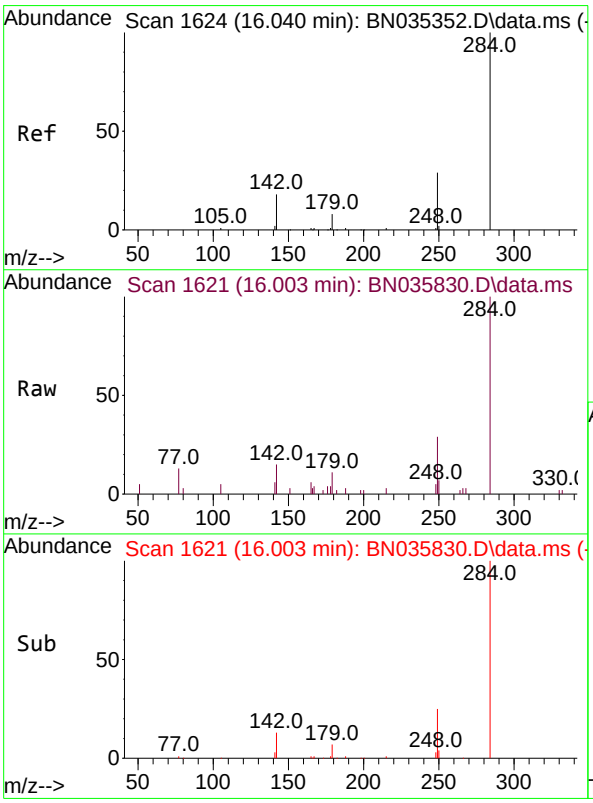
Ion	Ratio	Lower	Upper
248	100		
250	99.7	80.6	120.8
141	50.3	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

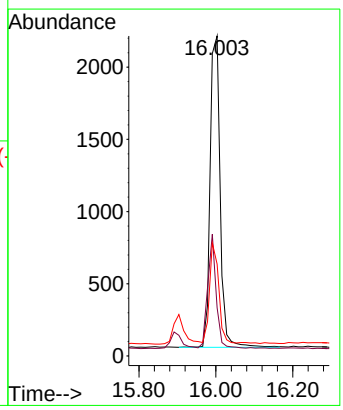
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

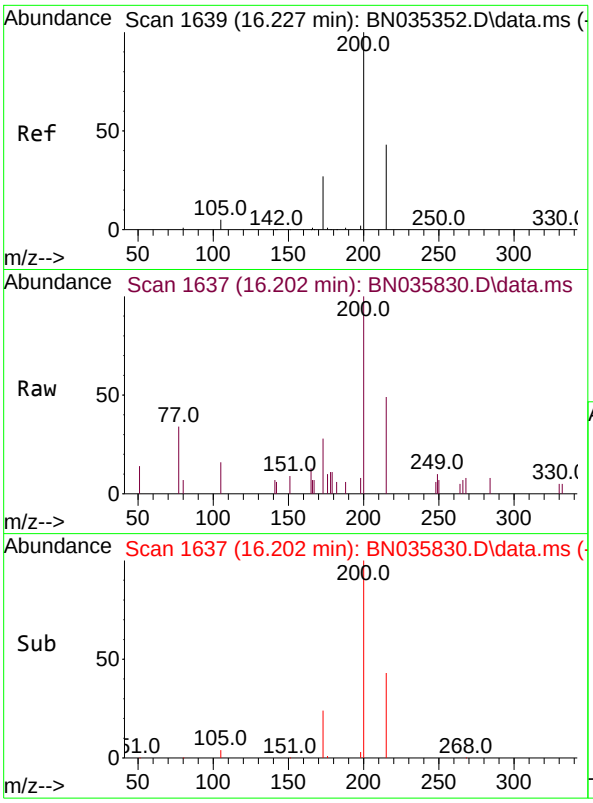


#22
Hexachlorobenzene
Concen: 0.510 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:284 Resp: 3900

Ion	Ratio	Lower	Upper
284	100		
142	30.4	26.7	40.1
249	29.3	24.6	36.8

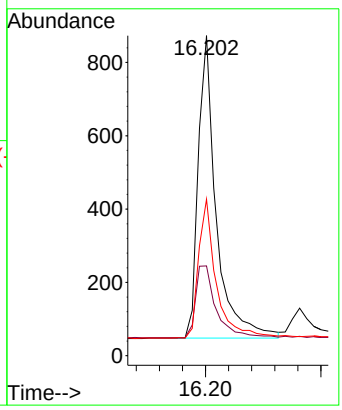




#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:200 Resp: 179(

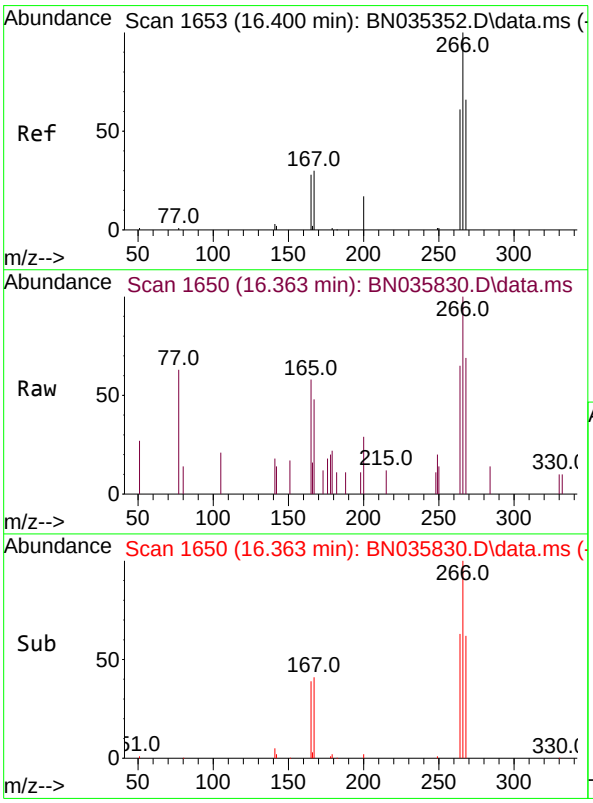
Ion	Ratio	Lower	Upper
200	100		
173	28.1	24.1	36.1
215	48.9	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

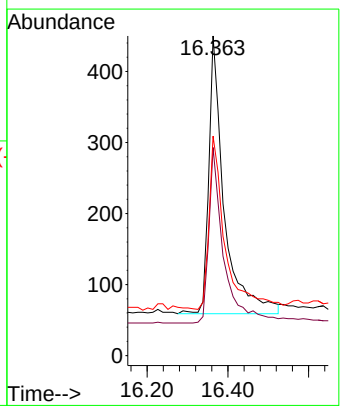
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

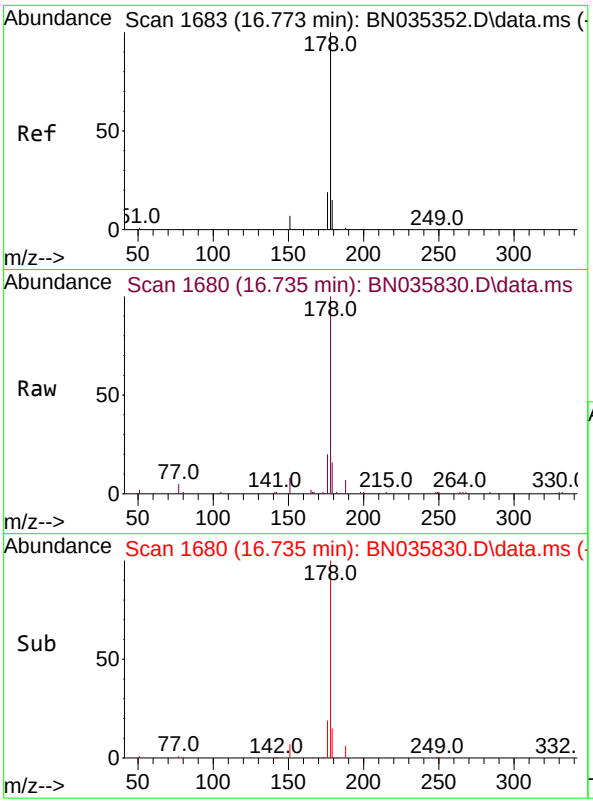


#24
Pentachlorophenol
Concen: 0.310 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:266 Resp: 1032

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	63.5	43.3	64.9

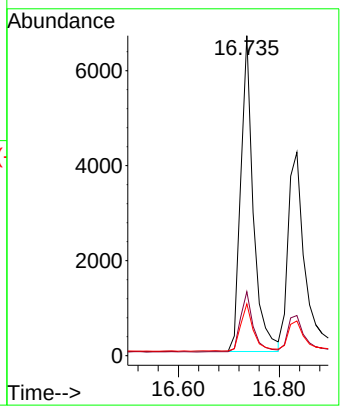




#25
Phenanthrene
Concen: 0.376 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:178 Resp: 1152

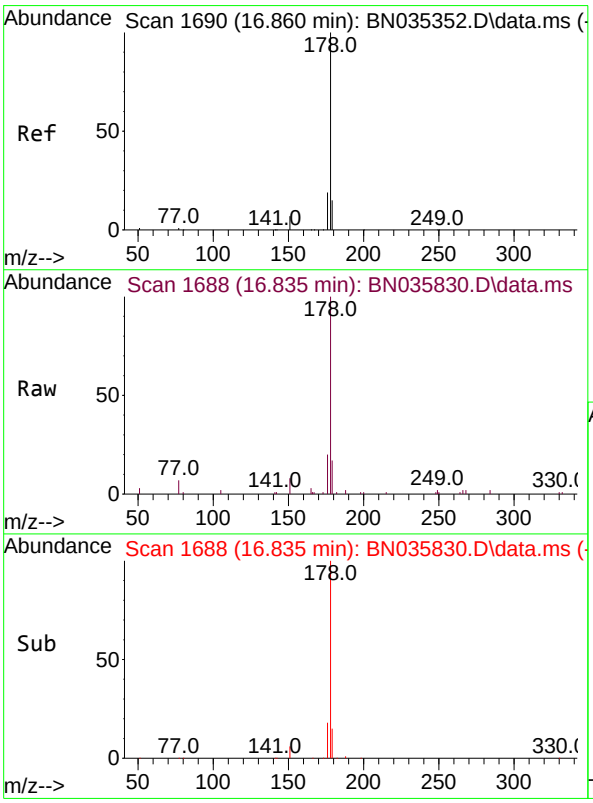
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

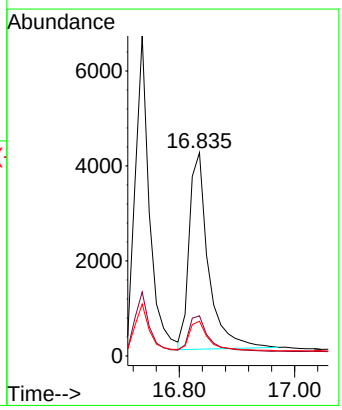
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

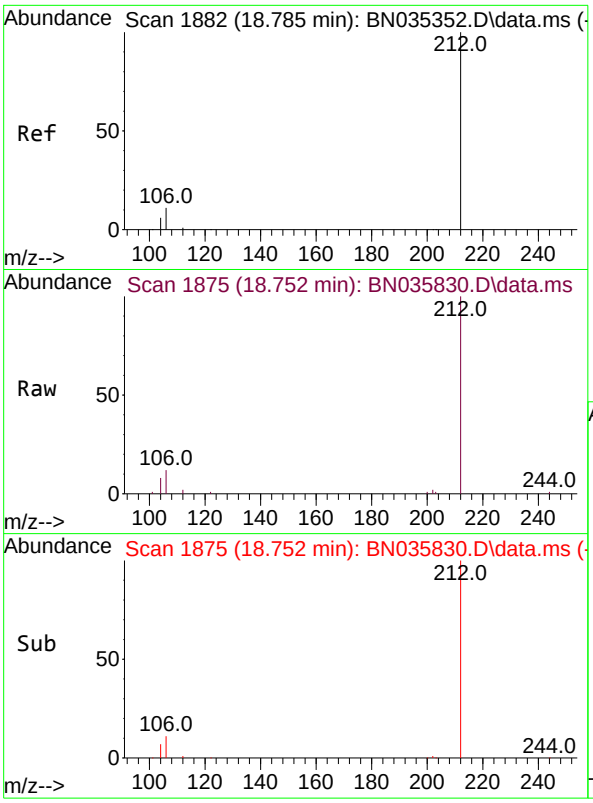


#26
Anthracene
Concen: 0.346 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:178 Resp: 9576

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.6	12.6	18.8

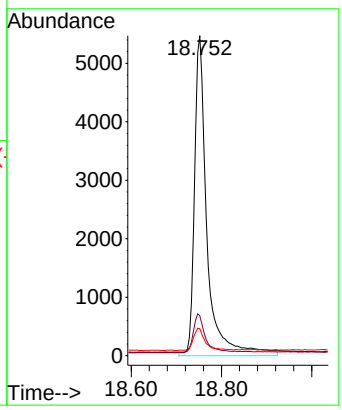




#27
Fluoranthene-d10
Concen: 0.335 ng m
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:212 Resp: 1059

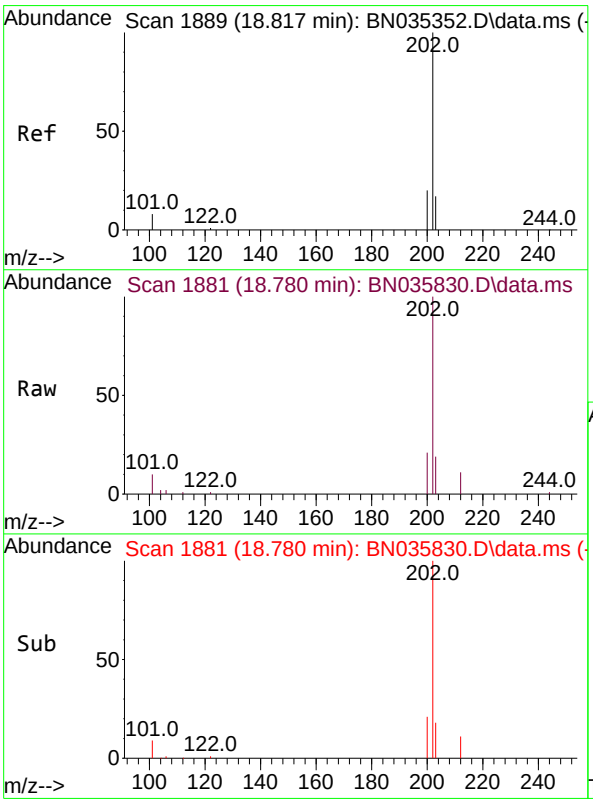
Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.7	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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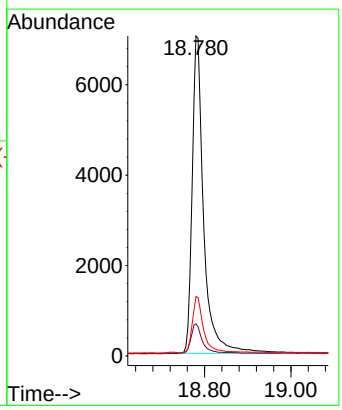
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

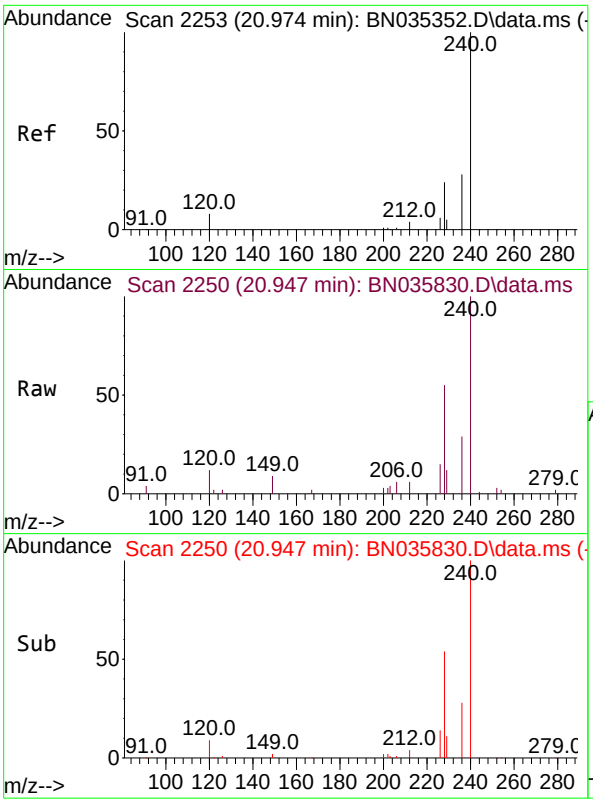


#28
Fluoranthene
Concen: 0.316 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13046

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	17.0	13.7	20.5

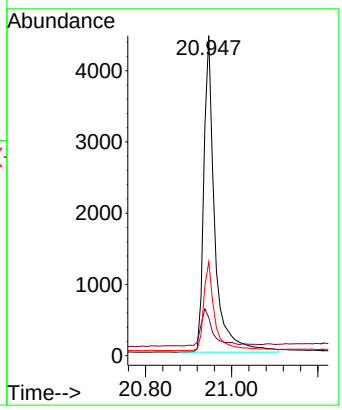




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

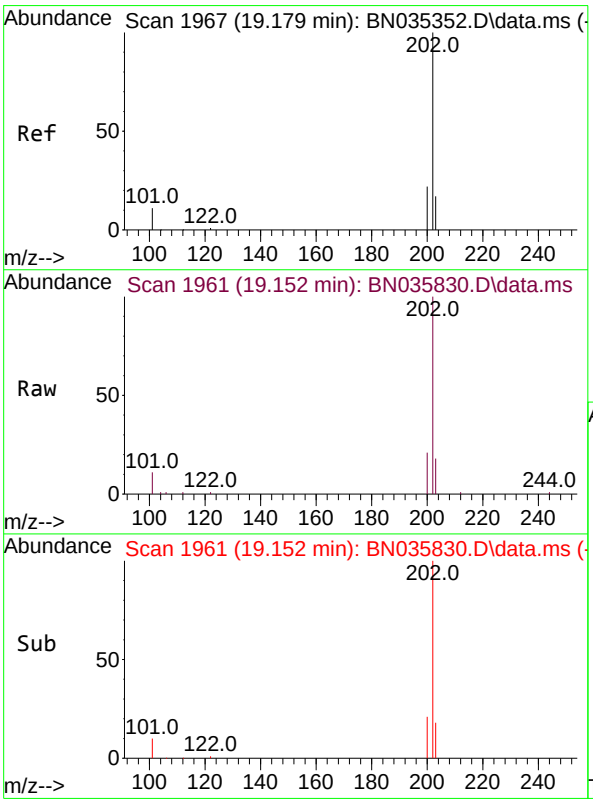
Tgt Ion:240 Resp: 785

Ion	Ratio	Lower	Upper
240	100		
120	11.9	7.9	11.9#
236	29.3	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

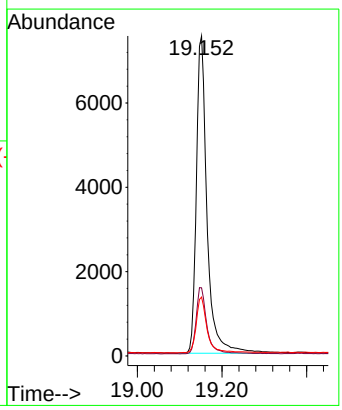
Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

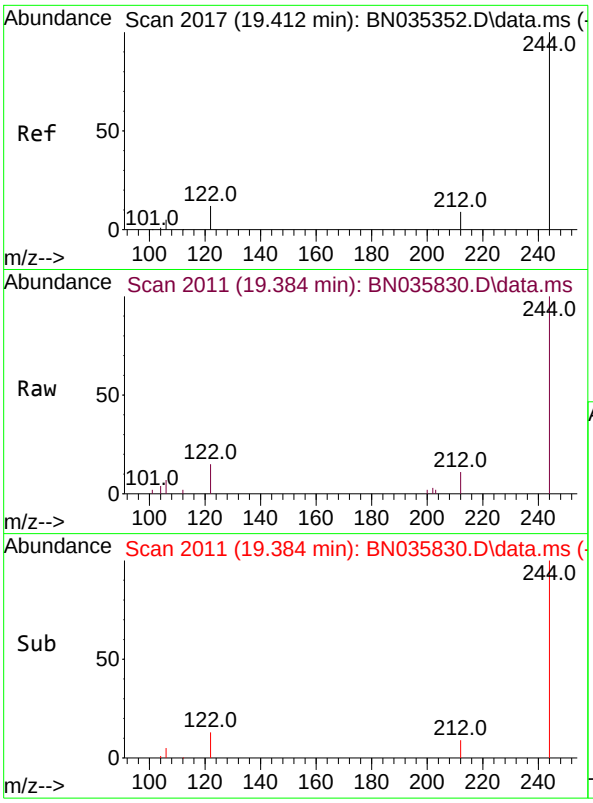


#30
Pyrene
Concen: 0.454 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13156

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.9	14.3	21.5

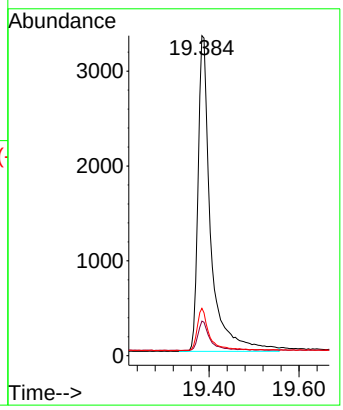




#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:244 Resp: 654

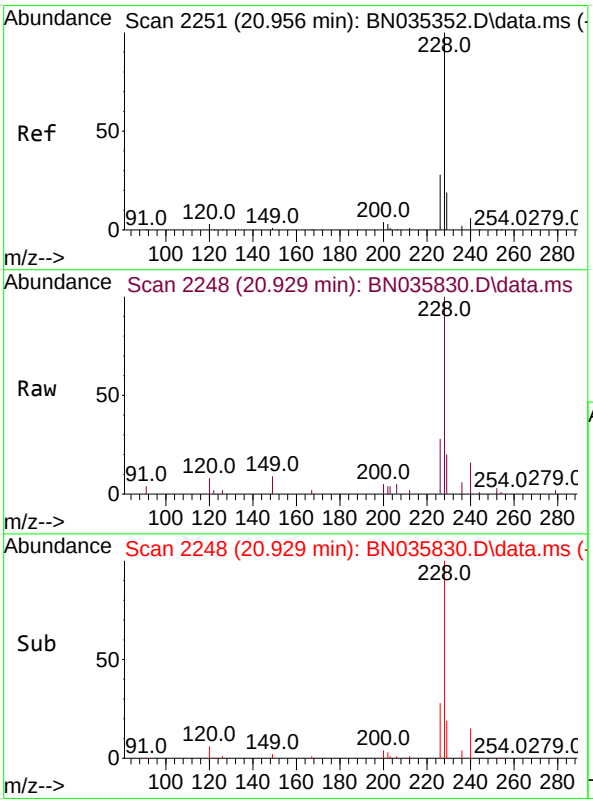
Ion	Ratio	Lower	Upper
244	100		
212	10.8	8.1	12.1
122	14.8	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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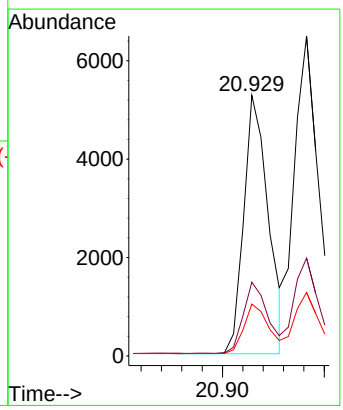
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

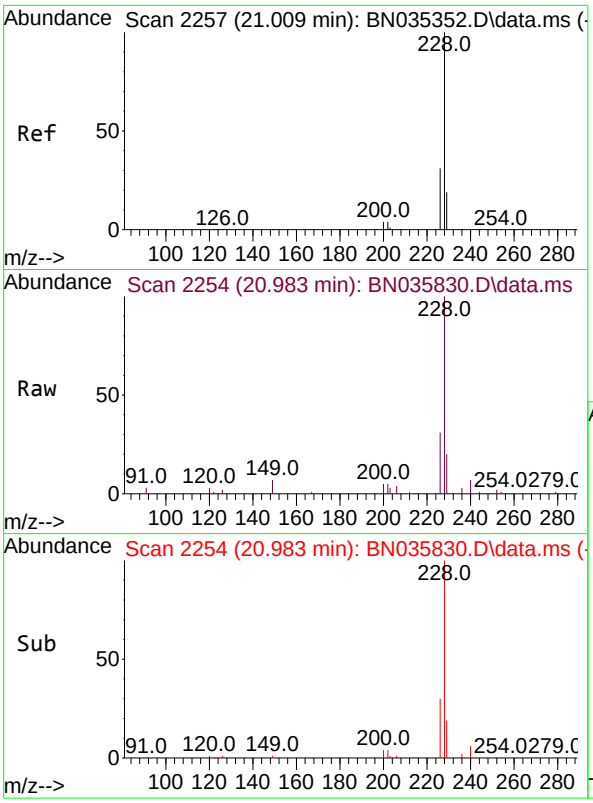


#32
Benzo(a)anthracene
Concen: 0.320 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:228 Resp: 8776

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	19.9	15.8	23.8

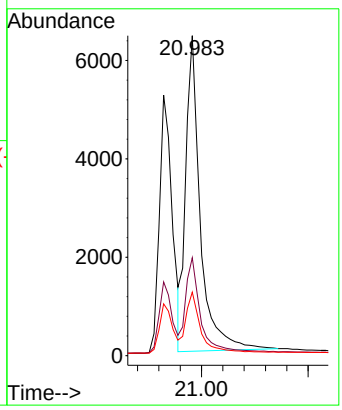




#33
Chrysene
Concen: 0.430 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:228 Resp: 1218

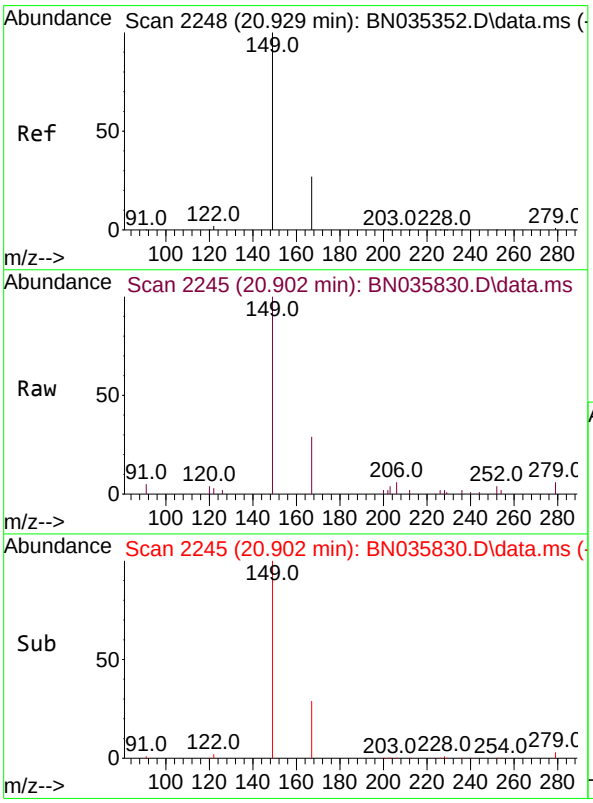
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

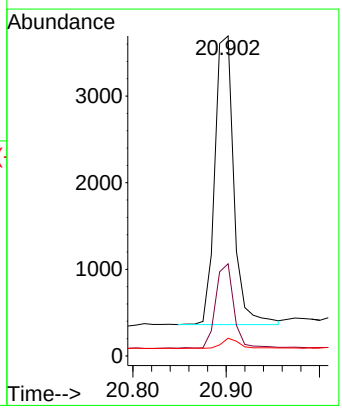
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

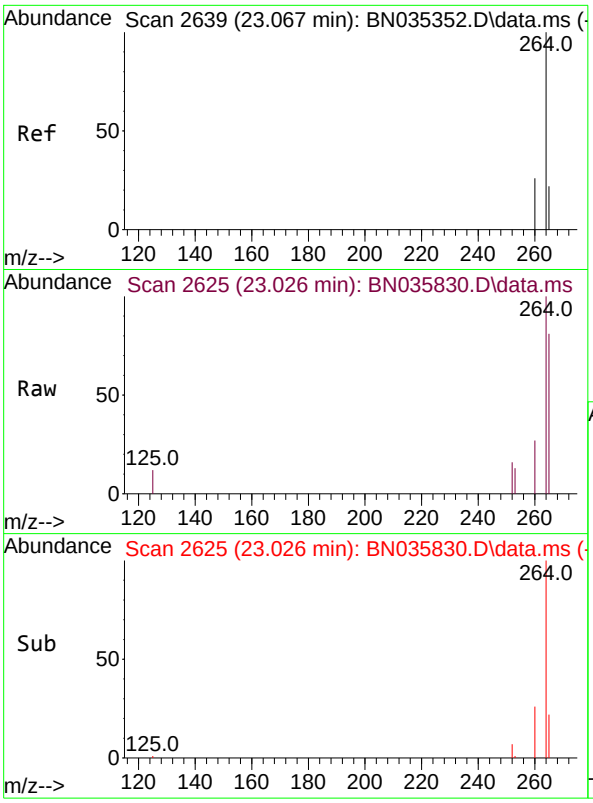


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.434 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:149 Resp: 4711

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1

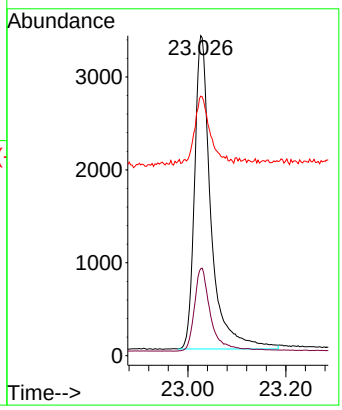




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:264 Resp: 787

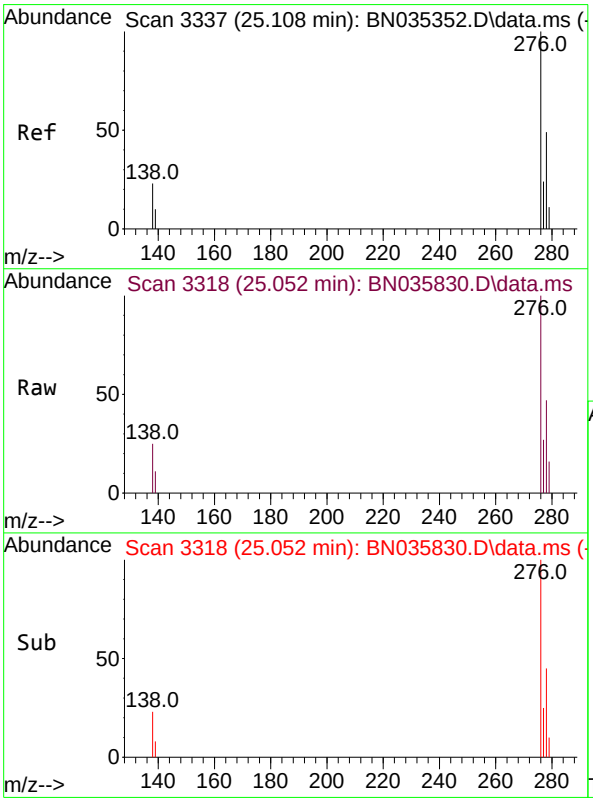
Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	81.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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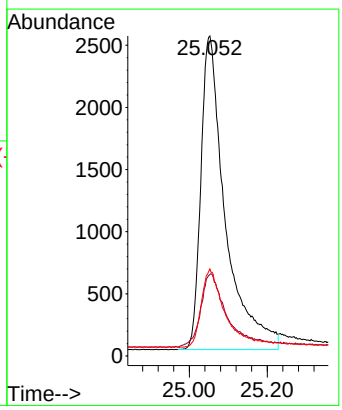
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

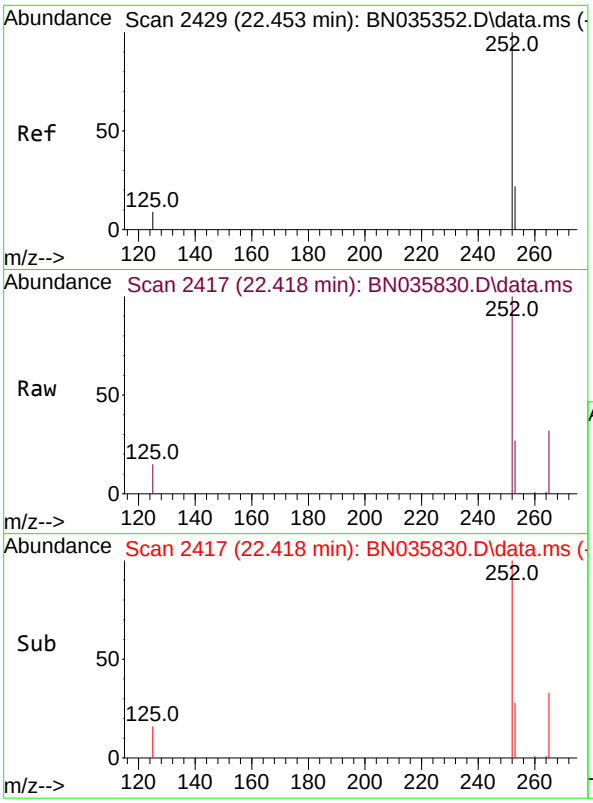


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:276 Resp: 10972

Ion	Ratio	Lower	Upper
276	100		
138	24.1	19.4	29.0
277	23.8	19.8	29.6

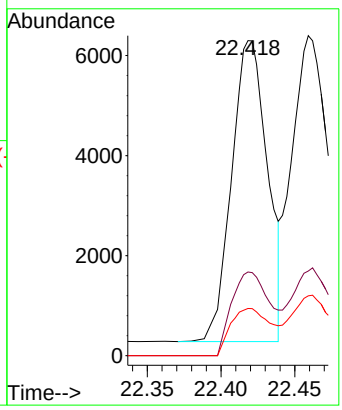




#37
Benzo(b)fluoranthene
Concen: 0.501 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

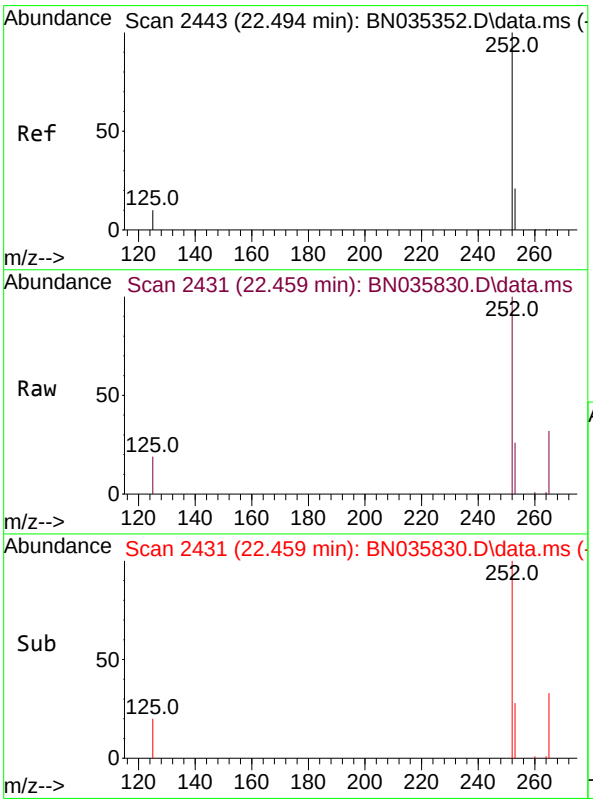
Tgt Ion:252 Resp: 1443

Ion	Ratio	Lower	Upper
252	100		
253	26.6	19.6	29.4
125	15.0	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

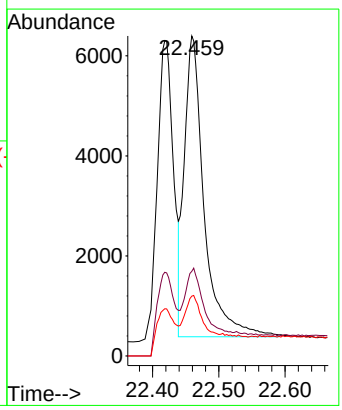
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

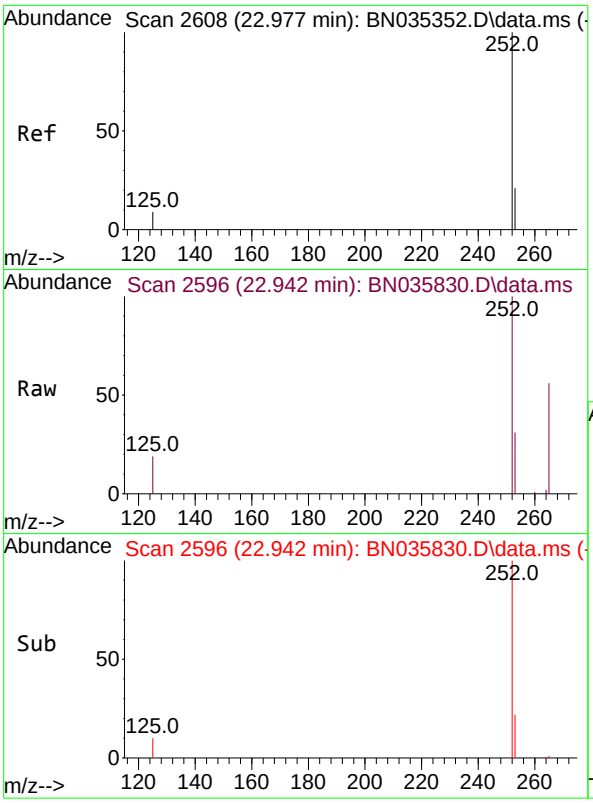


#38
Benzo(k)fluoranthene
Concen: 0.443 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:252 Resp: 12555

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	18.7	10.2	15.4#





#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

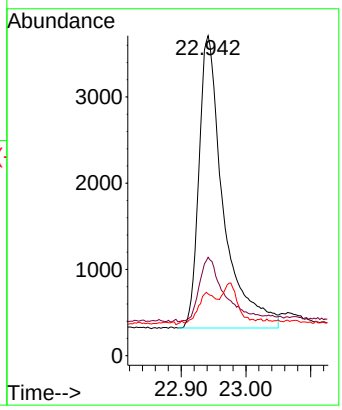
Tgt Ion:252 Resp: 886

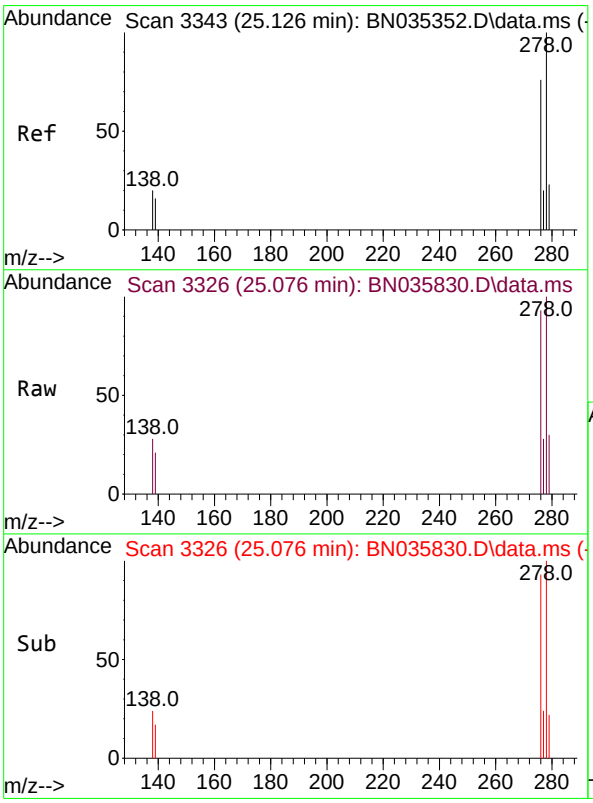
Ion	Ratio	Lower	Upper
252	100		
253	30.7	20.2	30.4#
125	19.3	10.9	16.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

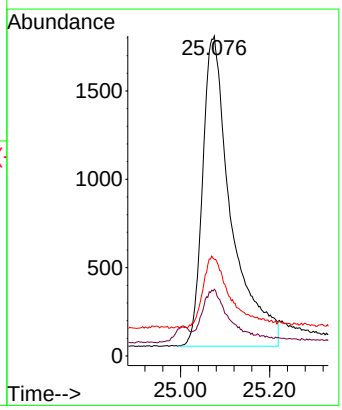


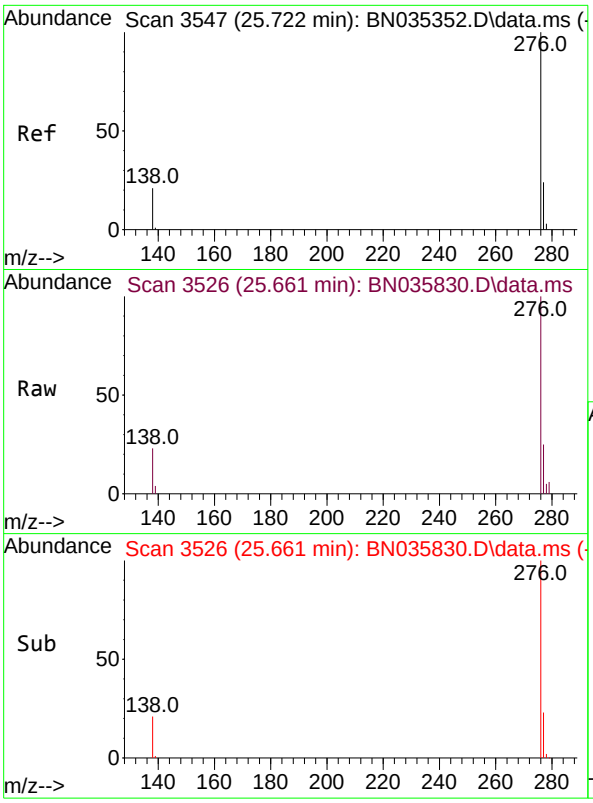


#40
Dibenzo(a,h)anthracene
Concen: 0.321 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:278 Resp: 7792

Ion	Ratio	Lower	Upper
278	100		
139	20.9	14.2	21.4
279	30.2	20.5	30.7

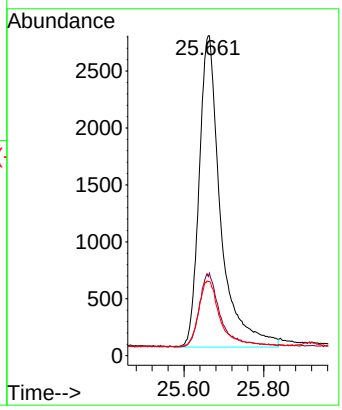




#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.661 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:276 Resp: 1021

Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.9	29.9
138	23.2	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	189#	-0.01
2		1,4-Dioxane	0.382	0.490	-28.3#	246#	0.00
3		n-Nitrosodimethylamine	0.319	0.301	5.6	174#	0.00
4	S	2-Fluorophenol	1.001	0.909	9.2	169#	-0.01
5	S	Phenol-d6	1.204	1.553	-29.0#	246#	-0.02
6		bis(2-Chloroethyl)ether	1.012	1.048	-3.6	199#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	190#	-0.02
8	S	Nitrobenzene-d5	0.244	0.308	-26.2#	249#	-0.01
9		Naphthalene	1.055	1.090	-3.3	198#	-0.01
10		Hexachlorobutadiene	0.243	0.283	-16.5	218#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.551	12.0	169#	-0.02
12		2-Methylnaphthalene	0.755	0.697	7.7	179#	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	157#	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.202	28.9#	123	-0.01
15	S	2-Fluorobiphenyl	1.512	1.517	-0.3	158#	-0.02
16		Acenaphthylene	1.680	1.576	6.2	155#	-0.02
17		Acenaphthene	1.115	1.097	1.6	158#	-0.02
18		Fluorene	1.596	1.397	12.5	142	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.027	30.8#	89	0.00
21		4-Bromophenyl-phenylether	0.234	0.240	-2.6	125	-0.01
22		Hexachlorobenzene	0.275	0.350	-27.3#	151#	-0.01
23		Atrazine	0.167	0.161	3.6	123	0.00
24		Pentachlorophenol	0.120	0.093	22.5	114	-0.01
25		Phenanthrene	1.099	1.034	5.9	114	-0.01
26		Anthracene	0.994	0.859	13.6	107	0.00
27	SURR	Fluoranthene-d10	1.134	0.951	16.1	104	0.00
28		Fluoranthene	1.481	1.171	20.9	97	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	82	0.00
30		Pyrene	1.477	1.676	-13.5	94	0.00
31	S	Terphenyl-d14	0.789	0.833	-5.6	87	0.00
32		Benzo(a)anthracene	1.399	1.118	20.1	68	0.00
33		Chrysene	1.443	1.552	-7.6	89	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.600	-8.5	96	0.00
35	I	Perylene-d12	1.000	1.000	0.0	73	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.394	10.9	66	-0.01
37		Benzo(b)fluoranthene	1.463	1.834	-25.4#	101	-0.01
38		Benzo(k)fluoranthene	1.440	1.595	-10.8	83	-0.01
39	C	Benzo(a)pyrene	1.205	1.126	6.6	71	0.00
40		Dibenzo(a,h)anthracene	1.234	0.990	19.8	60	0.00
41		Benzo(g,h,i)perylene	1.289	1.298	-0.7	76	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	189	-0.01
2		1,4-Dioxane	0.400	0.513	-28.2#	246	0.00
3		n-Nitrosodimethylamine	0.400	0.377	5.8	174	0.00
4	S	2-Fluorophenol	0.400	0.363	9.3	169	-0.01
5	S	Phenol-d6	0.400	0.516	-29.0#	246	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.415	-3.7	199	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	190	-0.02
8	S	Nitrobenzene-d5	0.400	0.504	-26.0#	249	-0.01
9		Naphthalene	0.400	0.413	-3.2	198	-0.01
10		Hexachlorobutadiene	0.400	0.465	-16.3	218	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	169	-0.02
12		2-Methylnaphthalene	0.400	0.369	7.8	179	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	157	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.285	28.8#	123	-0.01
15	S	2-Fluorobiphenyl	0.400	0.401	-0.3	158	-0.02
16		Acenaphthylene	0.400	0.375	6.3	155	-0.02
17		Acenaphthene	0.400	0.393	1.8	158	-0.02
18		Fluorene	0.400	0.350	12.5	142	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	117	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.275	31.3#	89	0.00
21		4-Bromophenyl-phenylether	0.400	0.411	-2.7	125	-0.01
22		Hexachlorobenzene	0.400	0.510	-27.5#	151	-0.01
23		Atrazine	0.400	0.386	3.5	123	0.00
24		Pentachlorophenol	0.400	0.310	22.5	114	-0.01
25		Phenanthrene	0.400	0.376	6.0	114	-0.01
26		Anthracene	0.400	0.346	13.5	107	0.00
27	SURR	Fluoranthene-d10	0.400	0.335	16.3	104	0.00
28		Fluoranthene	0.400	0.316	21.0	97	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	82	0.00
30		Pyrene	0.400	0.454	-13.5	94	0.00
31	S	Terphenyl-d14	0.400	0.422	-5.5	87	0.00
32		Benzo(a)anthracene	0.400	0.320	20.0	68	0.00
33		Chrysene	0.400	0.430	-7.5	89	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.434	-8.5	96	0.00
35	I	Perylene-d12	0.400	0.400	0.0	73	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.357	10.8	66	-0.01
37		Benzo(b)fluoranthene	0.400	0.501	-25.2#	101	-0.01
38		Benzo(k)fluoranthene	0.400	0.443	-10.7	83	-0.01
39	C	Benzo(a)pyrene	0.400	0.374	6.5	71	0.00
40		Dibenzo(a,h)anthracene	0.400	0.321	19.8	60	0.00
41		Benzo(g,h,i)perylene	0.400	0.403	-0.8	76	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/25/2024 05:14

Lab File ID: BN035843.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.525		-16.1	50.0
Fluoranthene-d10	1.134	0.959		-15.4	50.0
2-Fluorophenol	1.001	0.947		-5.4	50.0
Phenol-d6	1.204	1.574		30.7	50.0
Nitrobenzene-d5	0.244	0.351		43.9	50.0
2-Fluorobiphenyl	1.512	1.591		5.2	50.0
2,4,6-Tribromophenol	0.284	0.234		-17.6	50.0
Terphenyl-d14	0.789	0.810		2.7	50.0
1,4-Dioxane	0.382	0.510		33.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	5156	0.400	ng		-0.01
7) Naphthalene-d8	9.998	136	13078	0.400	ng		#-0.02
13) Acenaphthene-d10	13.914	164	6801	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	13499	0.400	ng		#-0.01
29) Chrysene-d12	20.938	240	10827	0.400	ng		#-0.02
35) Perylene-d12	23.023	264	11272	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	4881	0.378	ng		-0.01
5) Phenol-d6	6.470	99	8113	0.523	ng		-0.02
8) Nitrobenzene-d5	8.397	82	4586m	0.574	ng		-0.01
11) 2-Methylnaphthalene-d10	11.600	152	6864	0.335	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	1590	0.329	ng		-0.01
15) 2-Fluorobiphenyl	12.528	172	10817	0.421	ng		-0.02
27) Fluoranthene-d10	18.747	212	12946	0.338	ng		-0.01
31) Terphenyl-d14	19.379	244	8772	0.411	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	2628	0.533	ng		99
3) n-Nitrosodimethylamine	3.270	42	1575	0.384	ng	#	83
6) bis(2-Chloroethyl)ether	6.708	93	6304	0.483	ng		99
9) Naphthalene	10.052	128	17615	0.511	ng		98
10) Hexachlorobutadiene	10.340	225	4448	0.559	ng	#	99
12) 2-Methylnaphthalene	11.681	142	8694	0.352	ng		98
16) Acenaphthylene	13.625	152	10564	0.370	ng		99
17) Acenaphthene	13.978	154	7280	0.384	ng		99
18) Fluorene	14.983	166	9290	0.342	ng		100
20) 4,6-Dinitro-2-methylph...	15.111	198	461	0.347	ng	#	44
21) 4-Bromophenyl-phenylether	15.904	248	2960	0.375	ng		96
22) Hexachlorobenzene	15.991	284	4352	0.469	ng		95
23) Atrazine	16.202	200	2032	0.362	ng		93
24) Pentachlorophenol	16.363	266	1431	0.355	ng	#	85
25) Phenanthrene	16.735	178	14253	0.384	ng		99
26) Anthracene	16.822	178	11727	0.350	ng		99
28) Fluoranthene	18.780	202	16856	0.337	ng		99
30) Pyrene	19.147	202	17619	0.441	ng		99
32) Benzo(a)anthracene	20.929	228	13110	0.346	ng		99
33) Chrysene	20.974	228	16237	0.416	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	5933	0.397	ng		99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15331	0.348	ng		99
37) Benzo(b)fluoranthene	22.412	252	25617	0.621	ng	#	96
38) Benzo(k)fluoranthene	22.453	252	18591m	0.458	ng		
39) Benzo(a)pyrene	22.936	252	12667	0.373	ng	#	90
40) Dibenzo(a,h)anthracene	25.061	278	11116	0.320	ng		94
41) Benzo(g,h,i)perylene	25.652	276	14070	0.387	ng		98

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

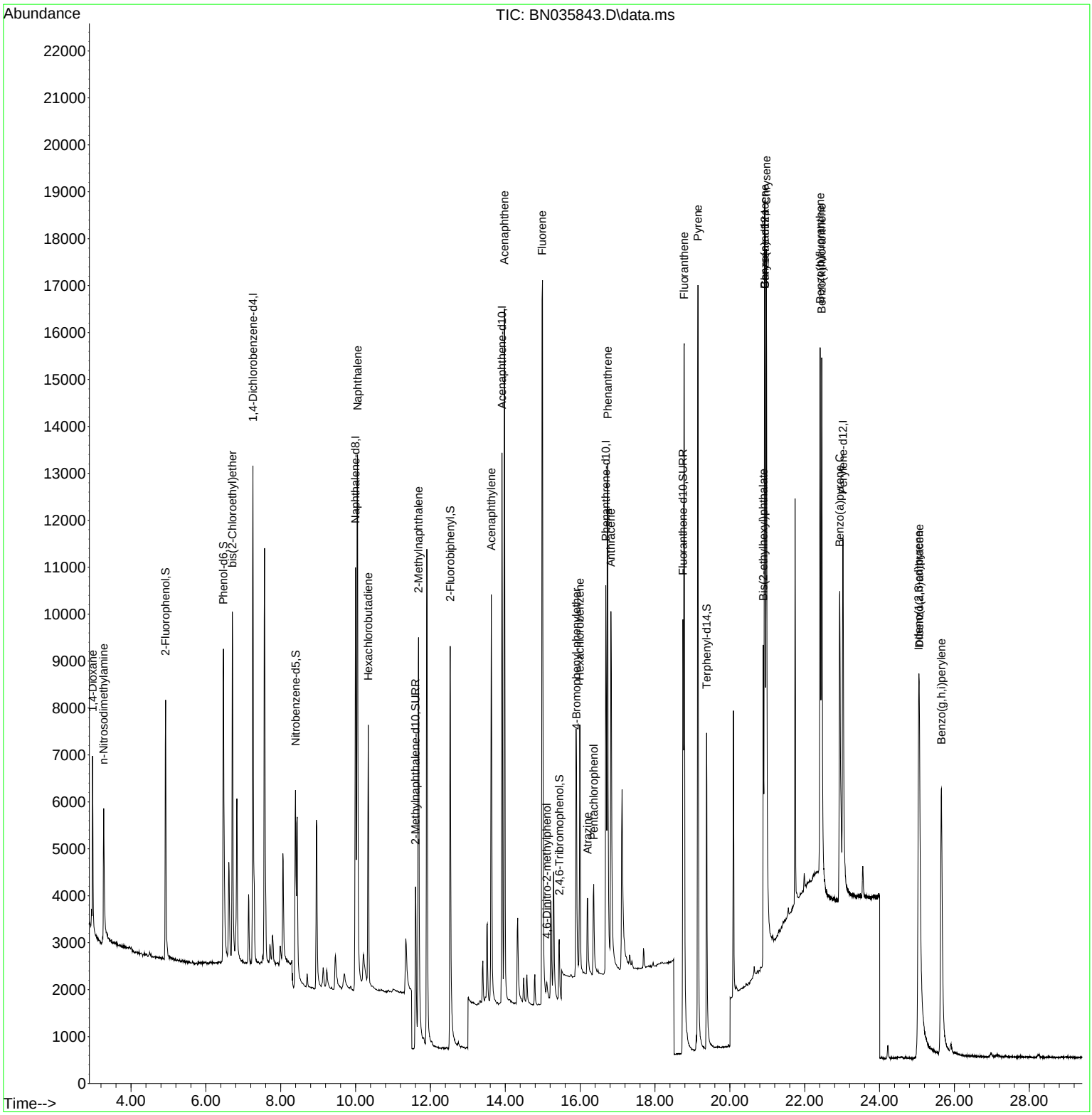
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Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

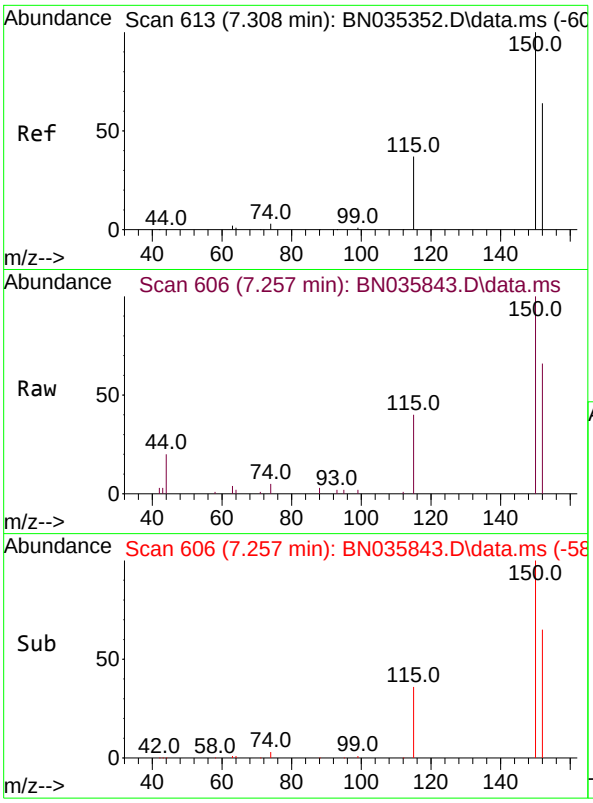
Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

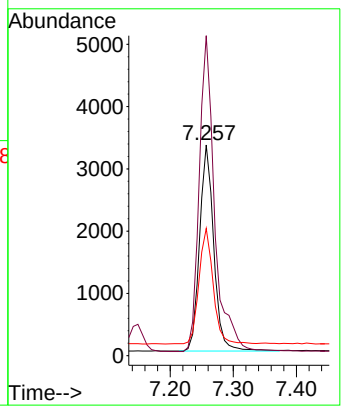




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:152 Resp: 515(

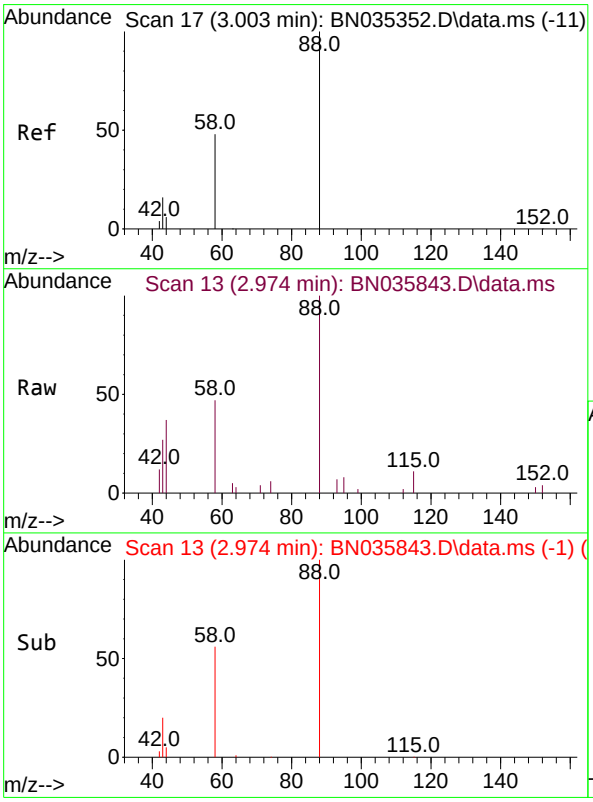
Ion	Ratio	Lower	Upper
152	100		
150	151.9	124.0	186.0
115	60.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

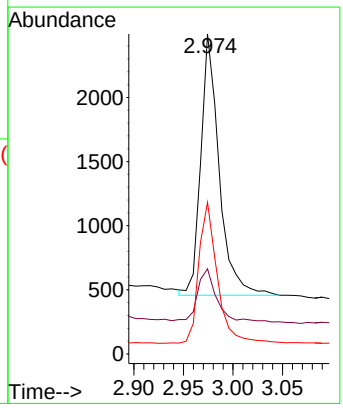
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

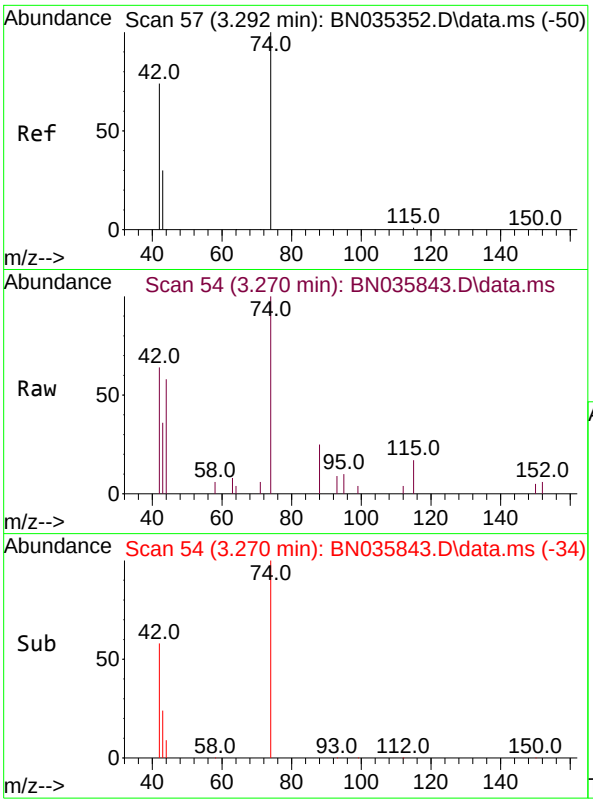


#2
1,4-Dioxane
Concen: 0.533 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 88 Resp: 2628

Ion	Ratio	Lower	Upper
88	100		
43	21.2	17.2	25.8
58	54.7	44.5	66.7

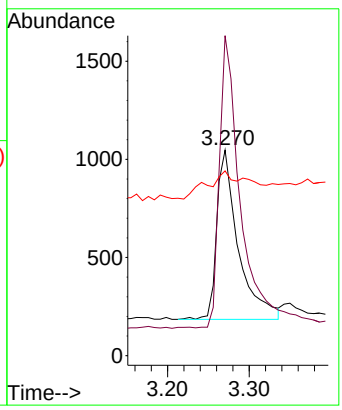




#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 42 Resp: 157

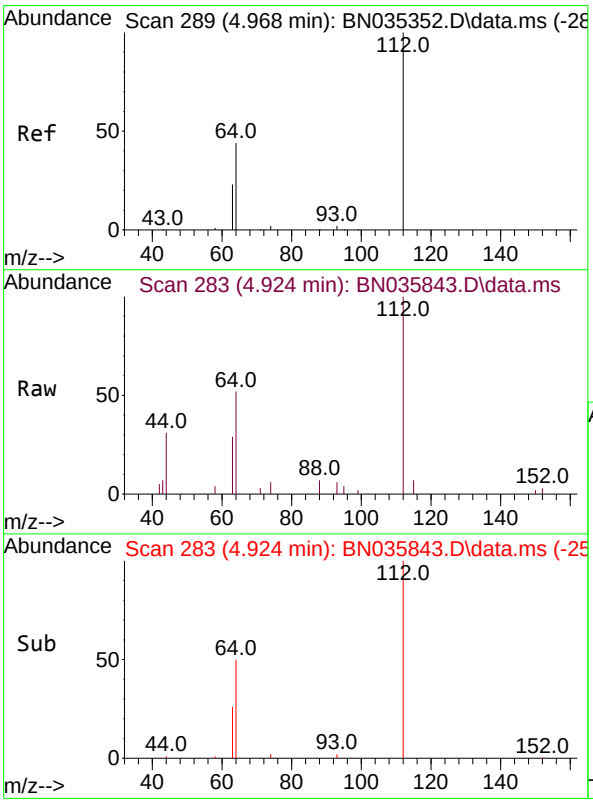
Ion	Ratio	Lower	Upper
42	100		
74	177.0	124.9	187.3
44	20.2	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

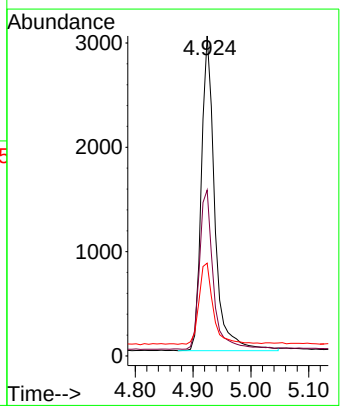
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

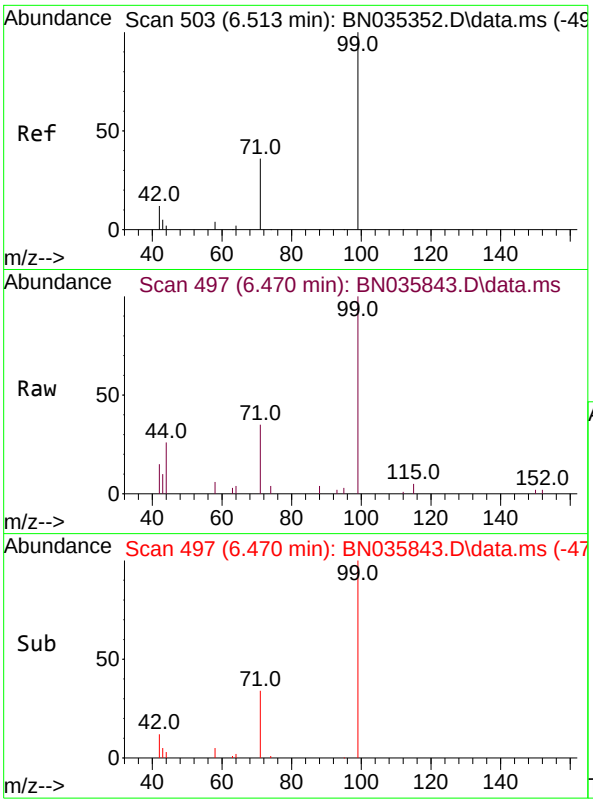


#4
2-Fluorophenol
Concen: 0.378 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:112 Resp: 4881

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	27.3	21.0	31.6

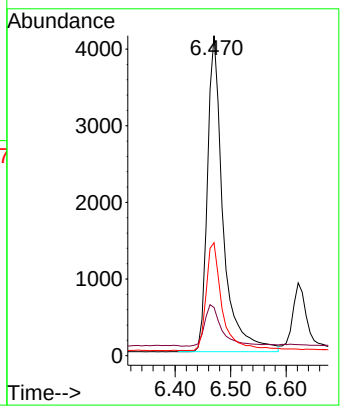




#5
Phenol-d6
Concen: 0.523 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 99 Resp: 811

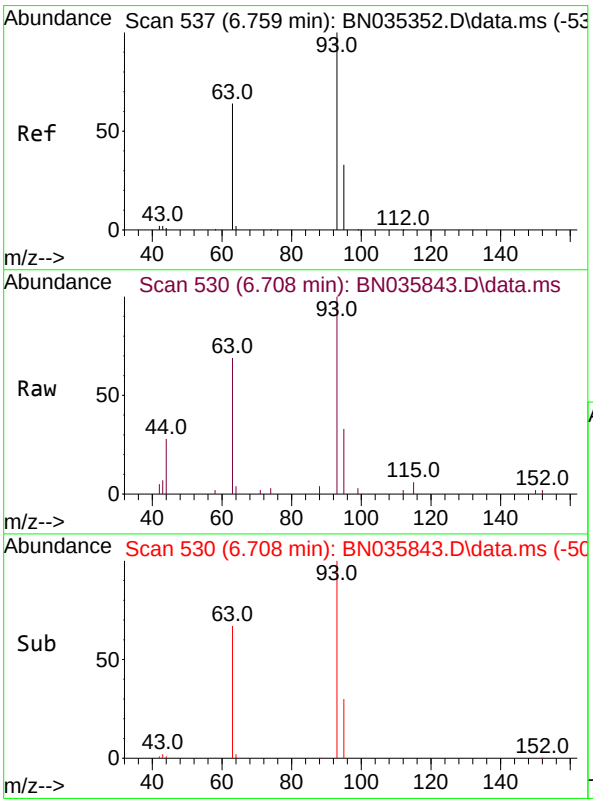
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.5	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

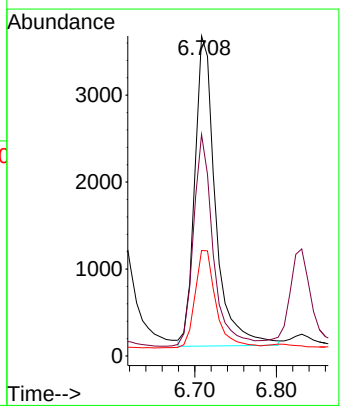
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

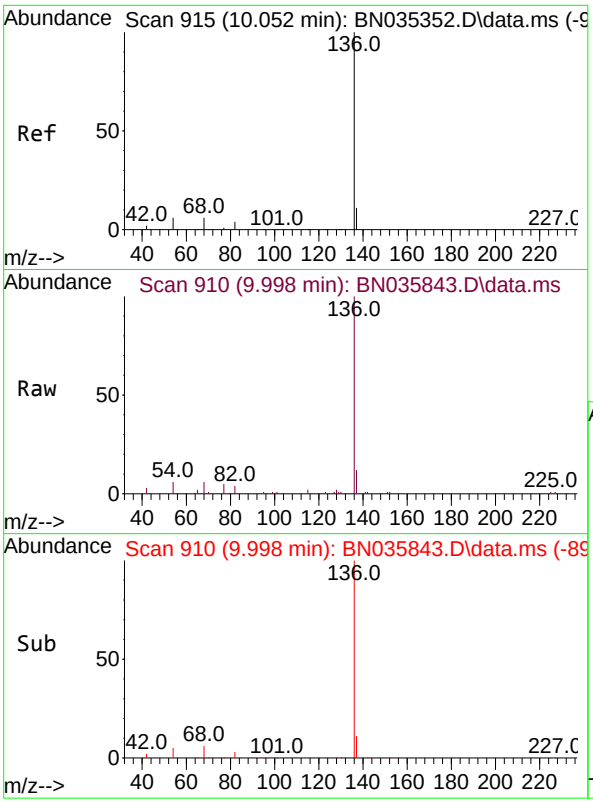


#6
bis(2-Chloroethyl)ether
Concen: 0.483 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 93 Resp: 6304

Ion	Ratio	Lower	Upper
93	100		
63	64.6	50.4	75.6
95	32.1	25.7	38.5

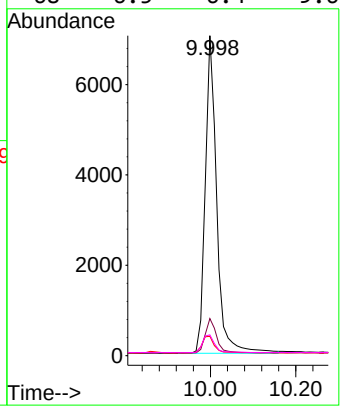




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:136 Resp: 1307

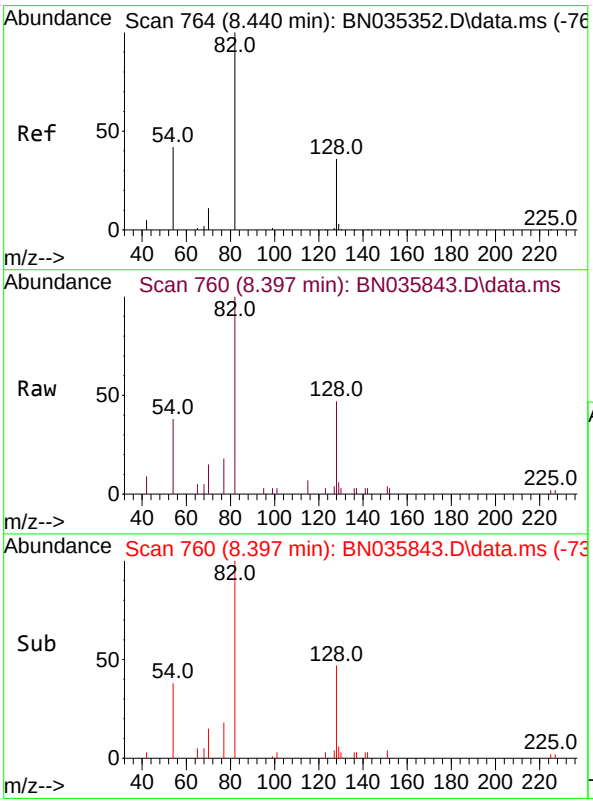
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	6.1	6.1	9.1
68	6.5	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

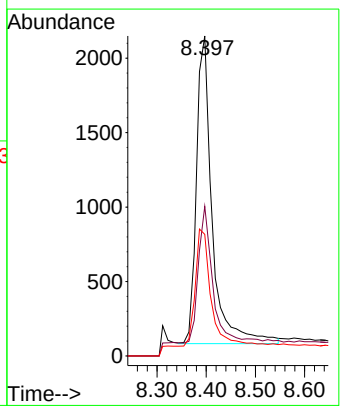
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

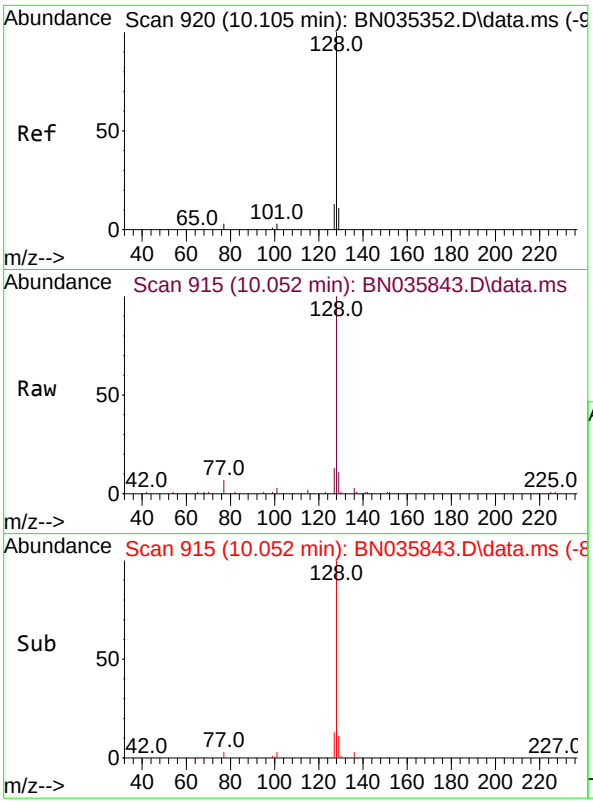


#8
Nitrobenzene-d5
Concen: 0.574 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 82 Resp: 4586

Ion	Ratio	Lower	Upper
82	100		
128	46.8	33.4	50.0
54	38.0	36.7	55.1

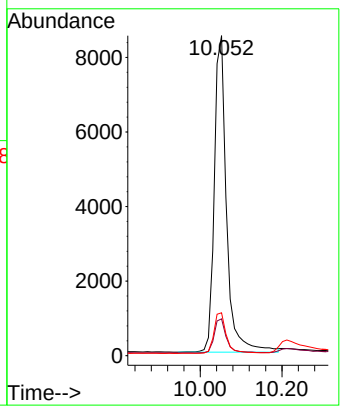




#9
Naphthalene
Concen: 0.511 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:128 Resp: 1761

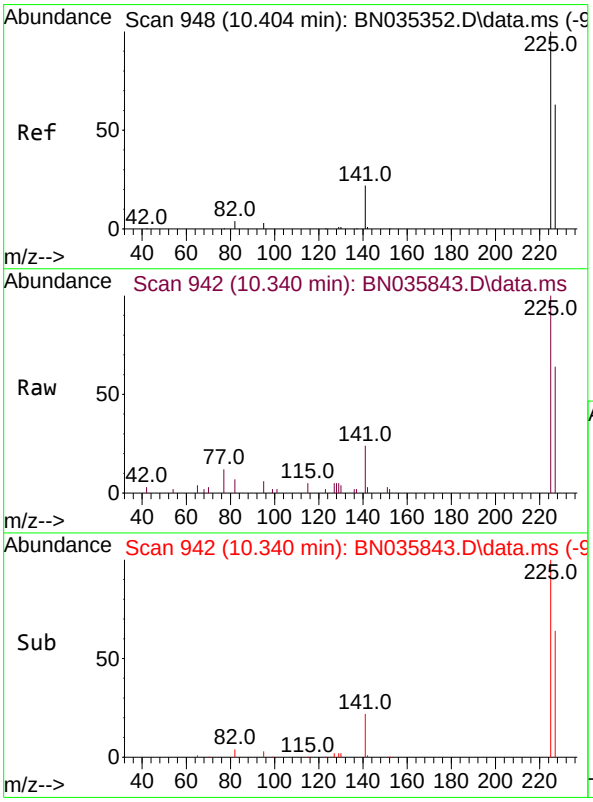
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.8	14.6
127	13.4	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

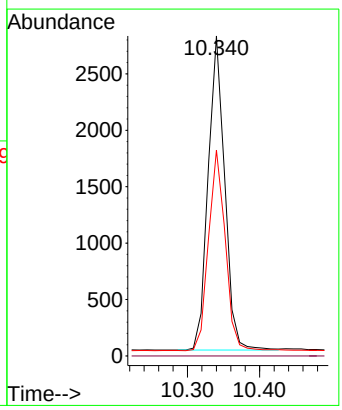
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

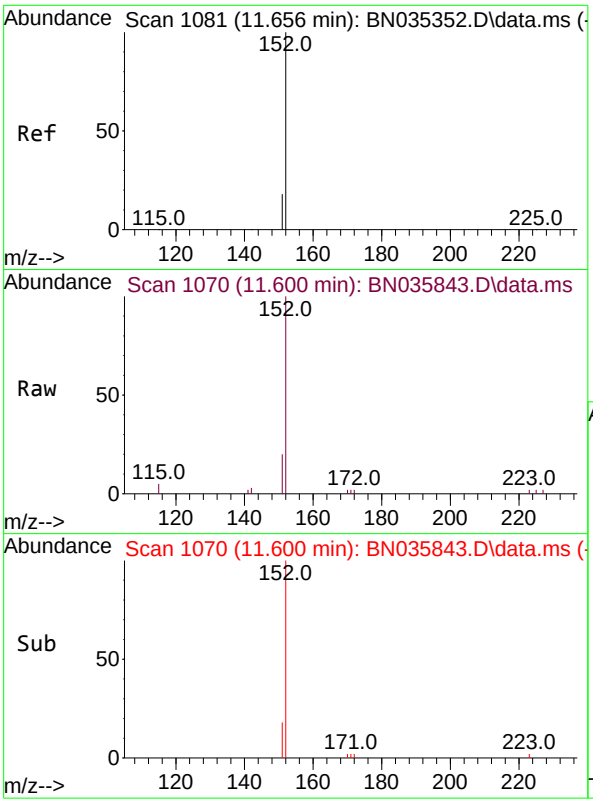


#10
Hexachlorobutadiene
Concen: 0.559 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:225 Resp: 4448

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.3	76.9

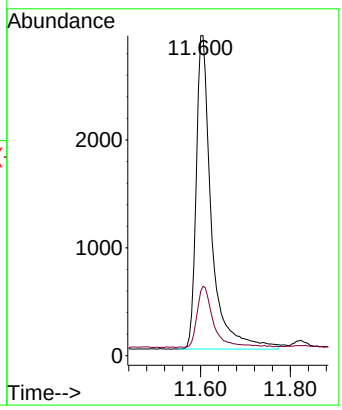




#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:152 Resp: 686

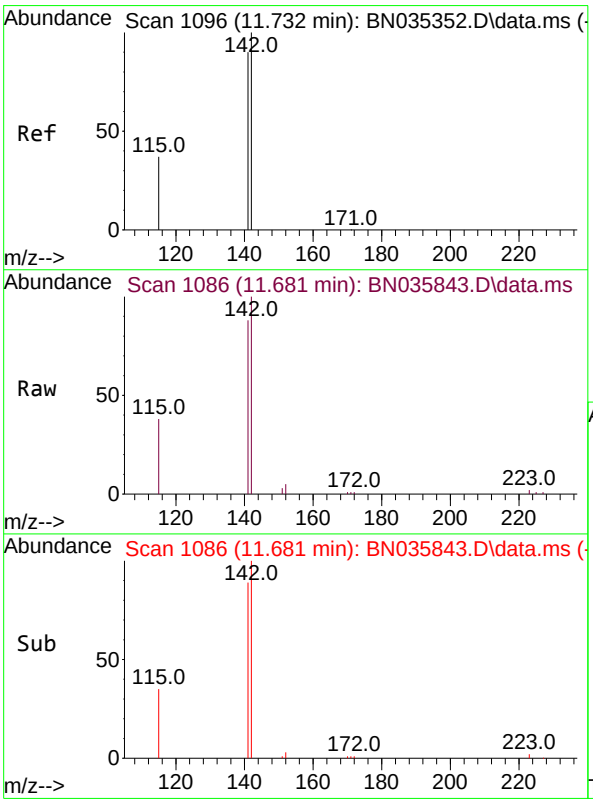
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

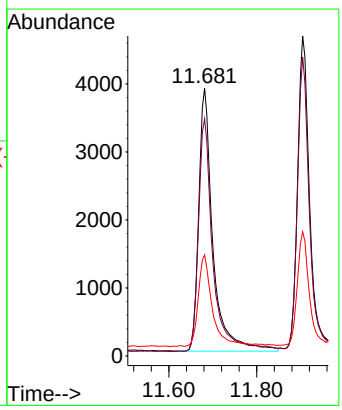
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

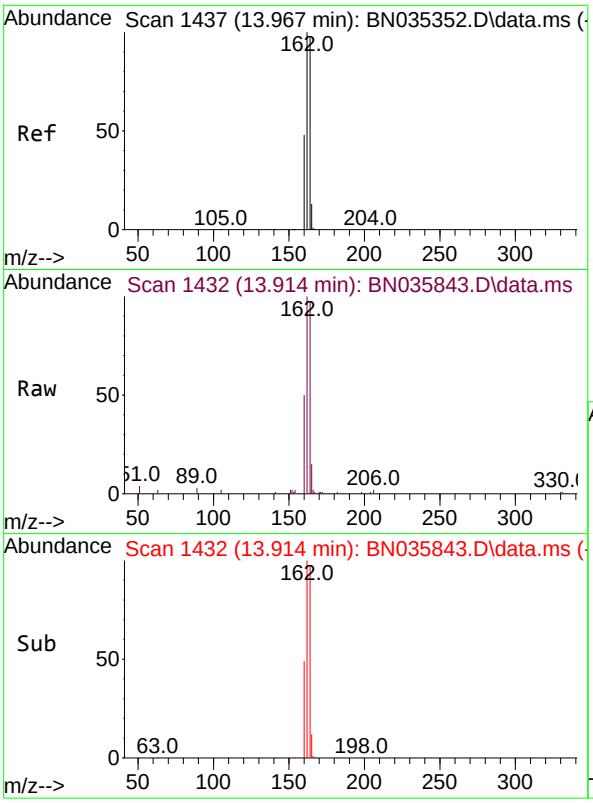


#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:142 Resp: 8694

Ion	Ratio	Lower	Upper
142	100		
141	88.5	72.2	108.4
115	37.8	31.4	47.0

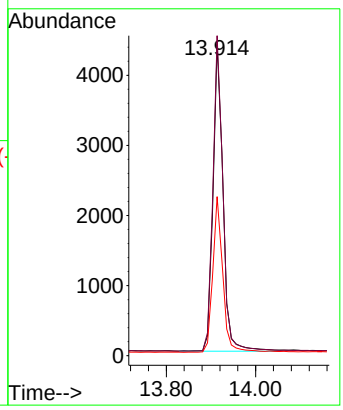




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:164 Resp: 680

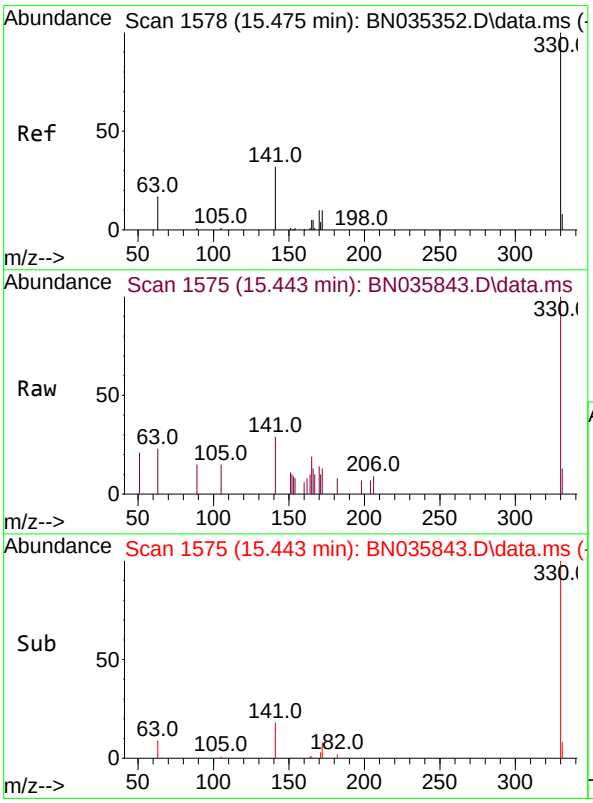
Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	51.0	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

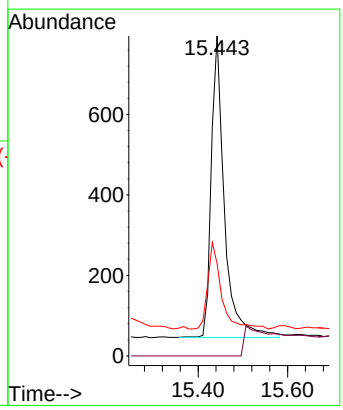
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

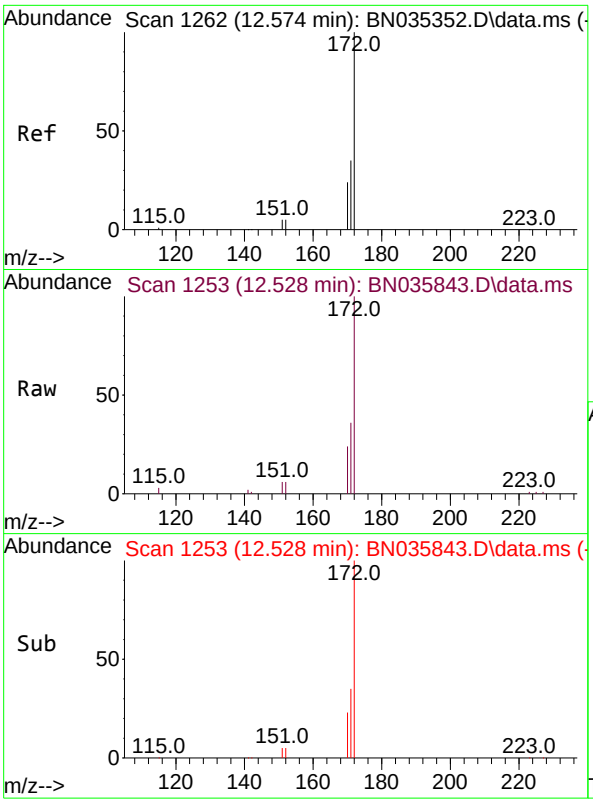


#14
2,4,6-Tribromophenol
Concen: 0.329 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:330 Resp: 1590

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.5	26.6	40.0

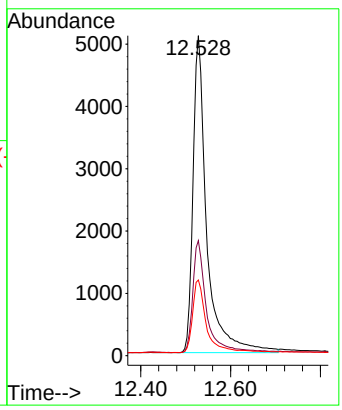




#15
2-Fluorobiphenyl
Concen: 0.421 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:172 Resp: 1081

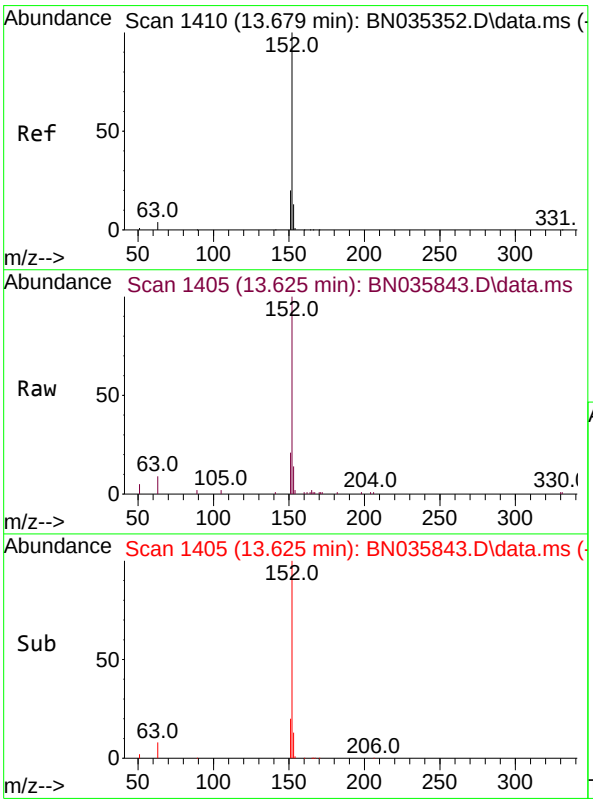
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	23.6	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

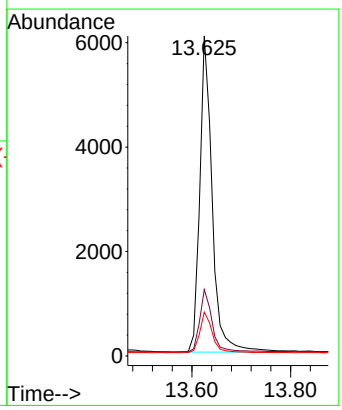
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

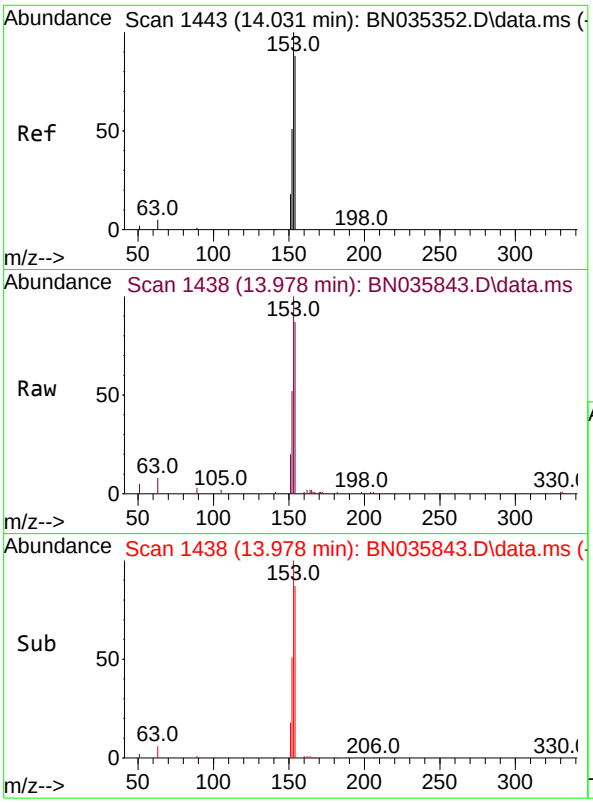


#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:152 Resp: 10564

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.1	10.4	15.6

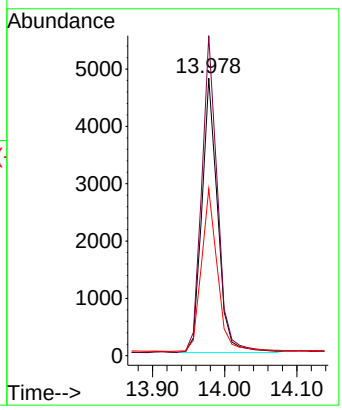




#17
Acenaphthene
Concen: 0.384 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:154 Resp: 728

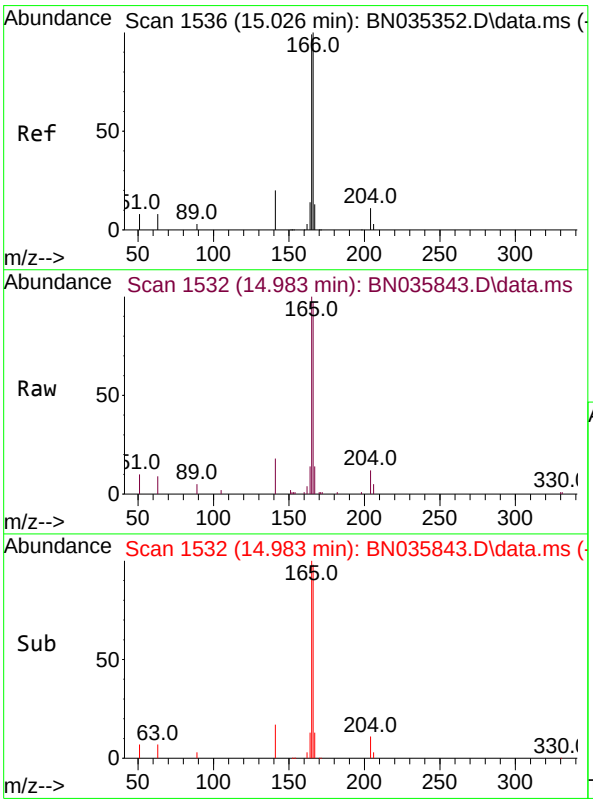
Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	60.3	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

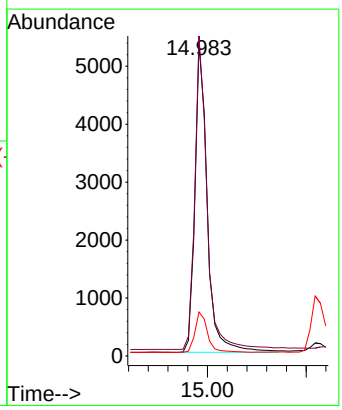
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

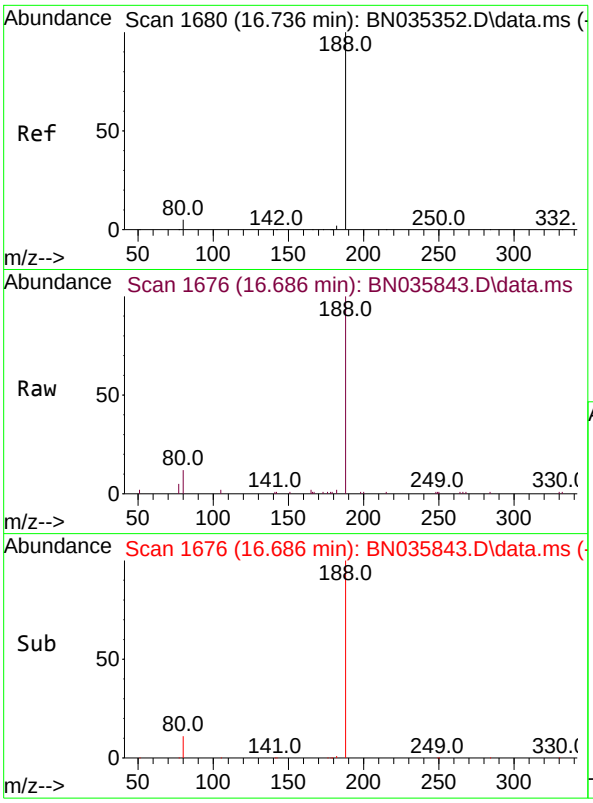


#18
Fluorene
Concen: 0.342 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:166 Resp: 9290

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.7	119.5
167	13.4	10.8	16.2

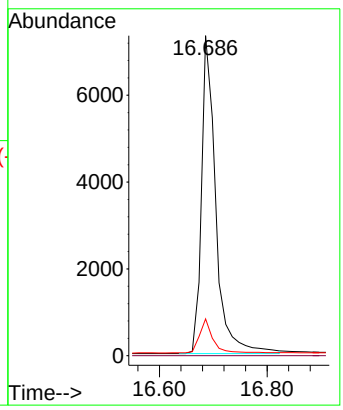




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:188 Resp: 1349

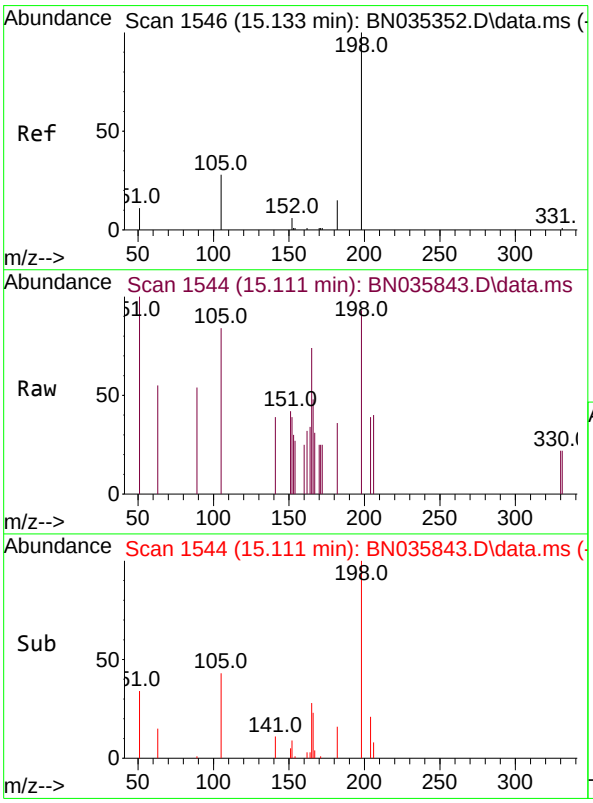
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

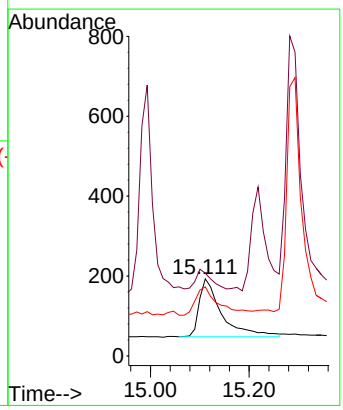
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

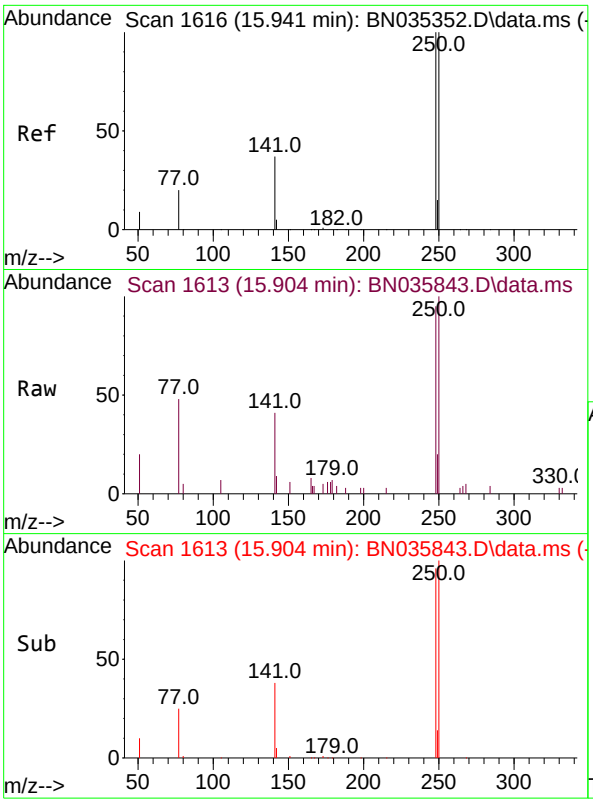


#20
4,6-Dinitro-2-methylphenol
Concen: 0.347 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:198 Resp: 461

Ion	Ratio	Lower	Upper
198	100		
51	107.3	46.5	69.7#
105	89.6	45.3	67.9#

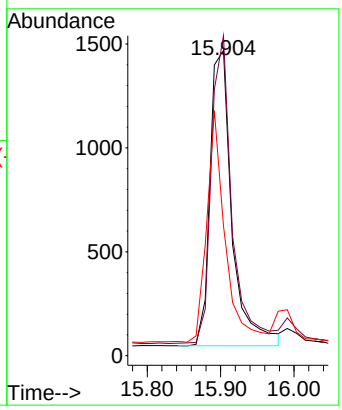




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:248 Resp: 296(

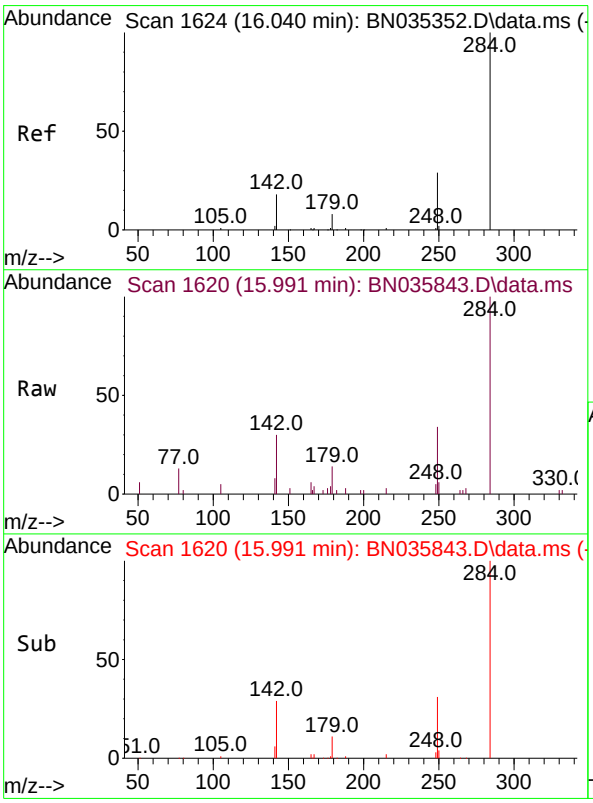
Ion	Ratio	Lower	Upper
248	100		
250	104.8	80.6	120.8
141	42.5	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

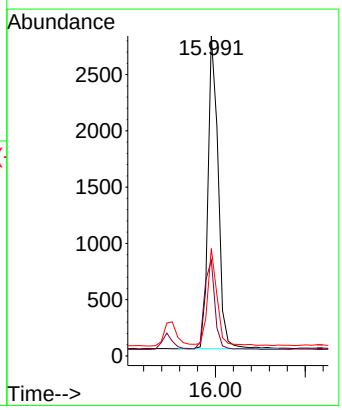
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

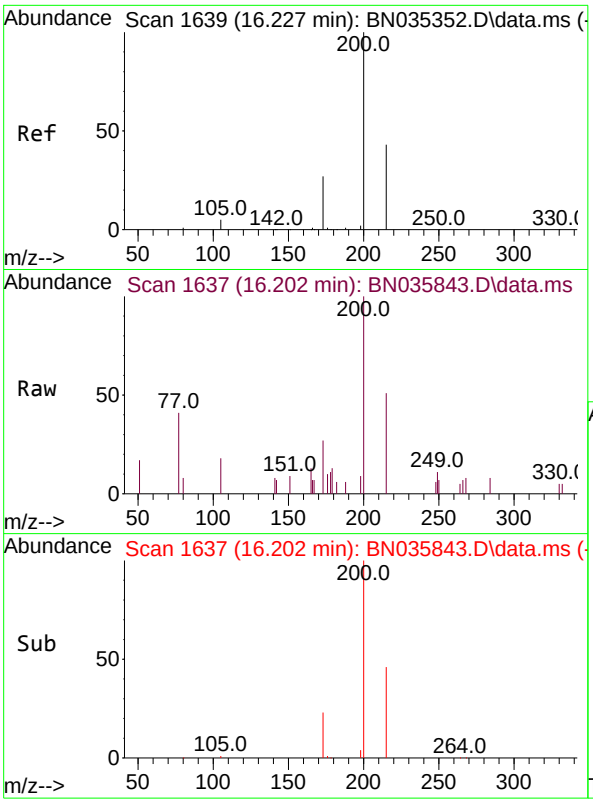


#22
Hexachlorobenzene
Concen: 0.469 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:284 Resp: 4352

Ion	Ratio	Lower	Upper
284	100		
142	29.5	26.7	40.1
249	29.5	24.6	36.8

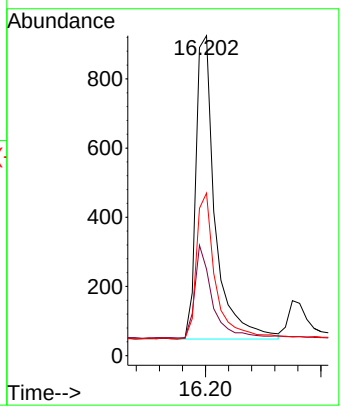




#23
Atrazine
Concen: 0.362 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:200 Resp: 203

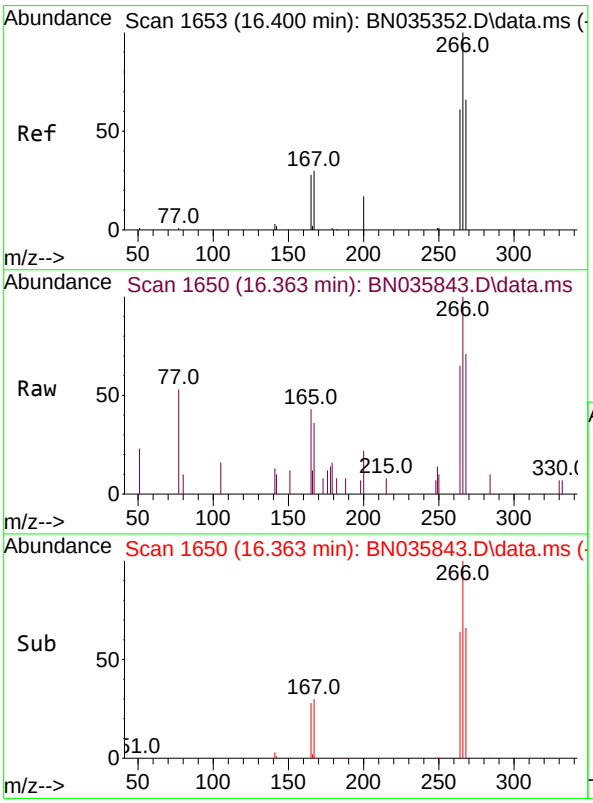
Ion	Ratio	Lower	Upper
200	100		
173	27.0	24.1	36.1
215	50.8	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

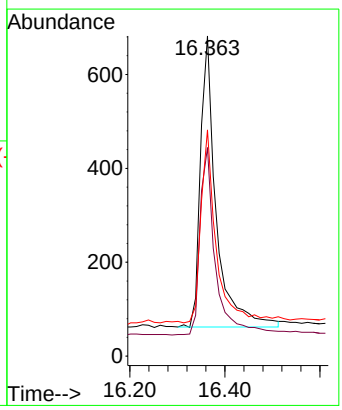
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

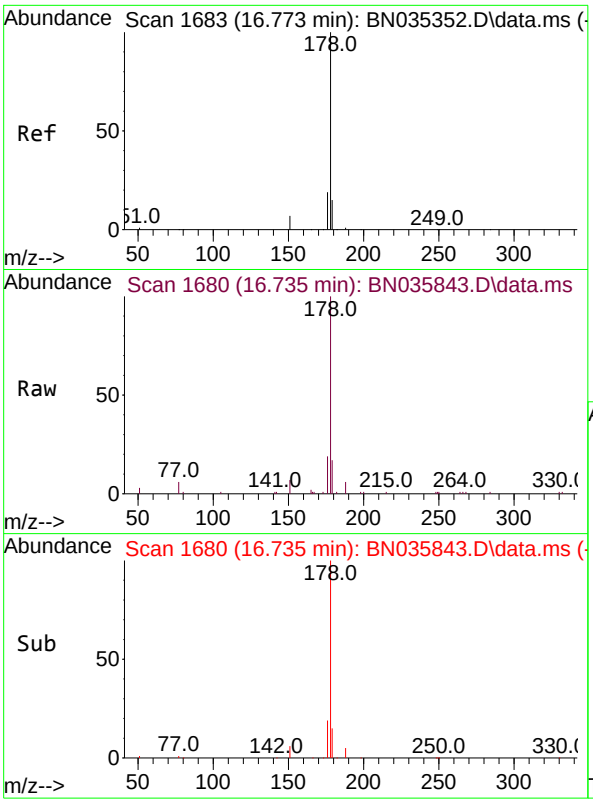


#24
Pentachlorophenol
Concen: 0.355 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:266 Resp: 1431

Ion	Ratio	Lower	Upper
266	100		
264	63.7	42.3	63.5#
268	64.5	43.3	64.9

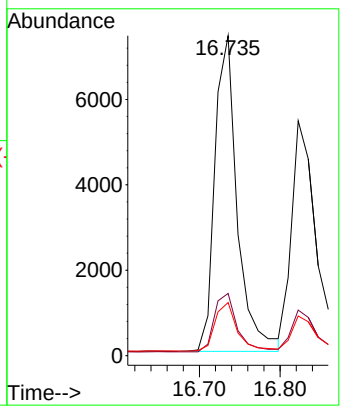




#25
Phenanthrene
Concen: 0.384 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:178 Resp: 1425

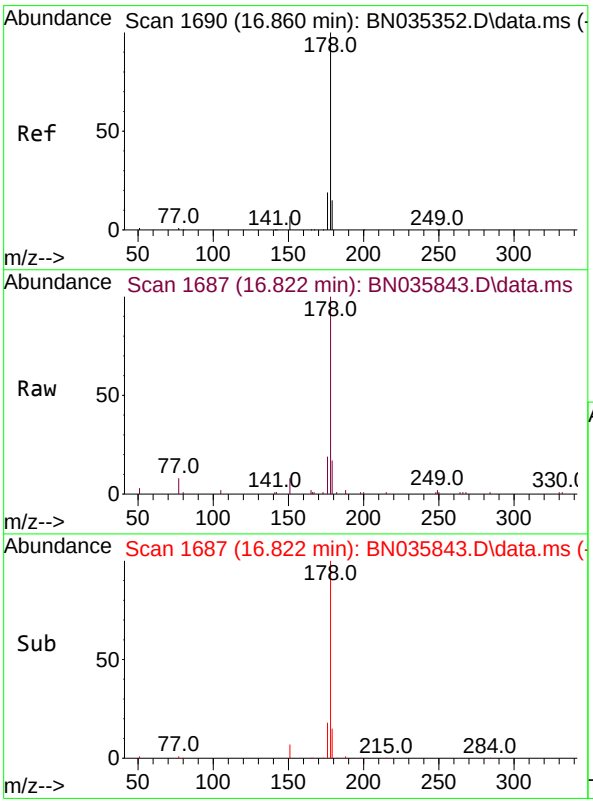
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

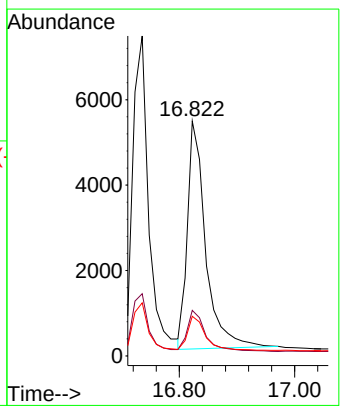
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

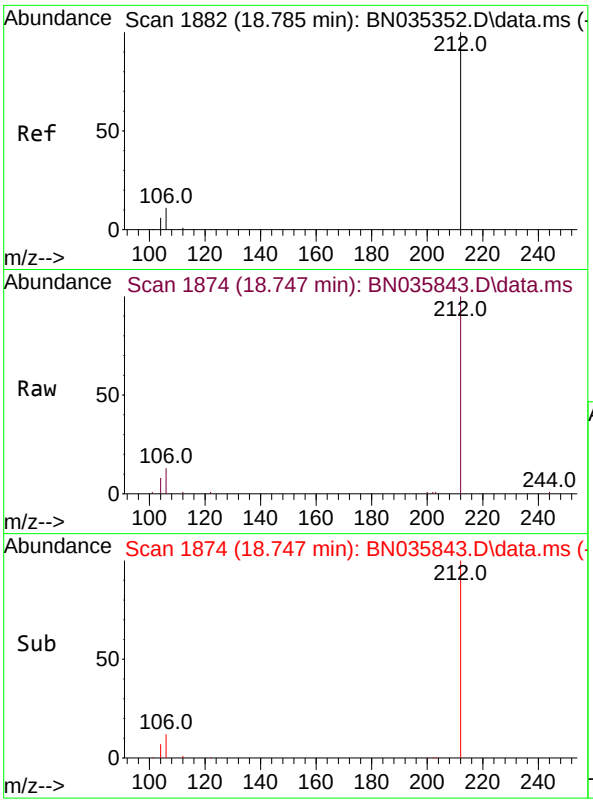


#26
Anthracene
Concen: 0.350 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:178 Resp: 11727

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.0	12.6	18.8

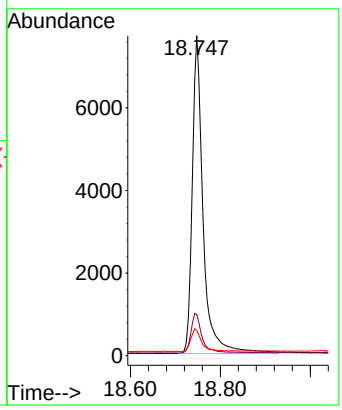




#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:212 Resp: 1294

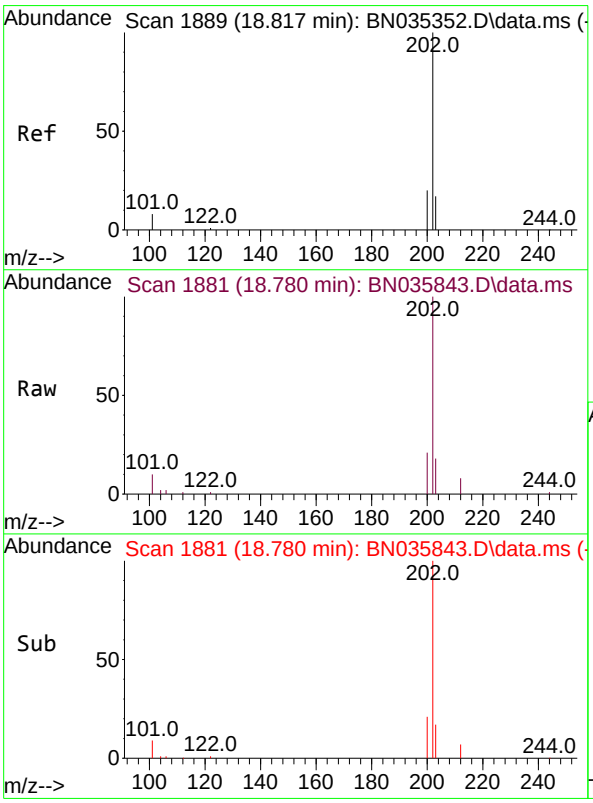
Ion	Ratio	Lower	Upper
212	100		
106	12.6	9.2	13.8
104	7.2	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

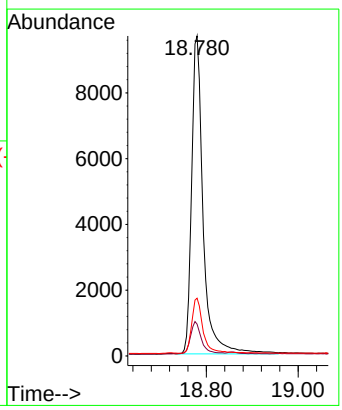
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

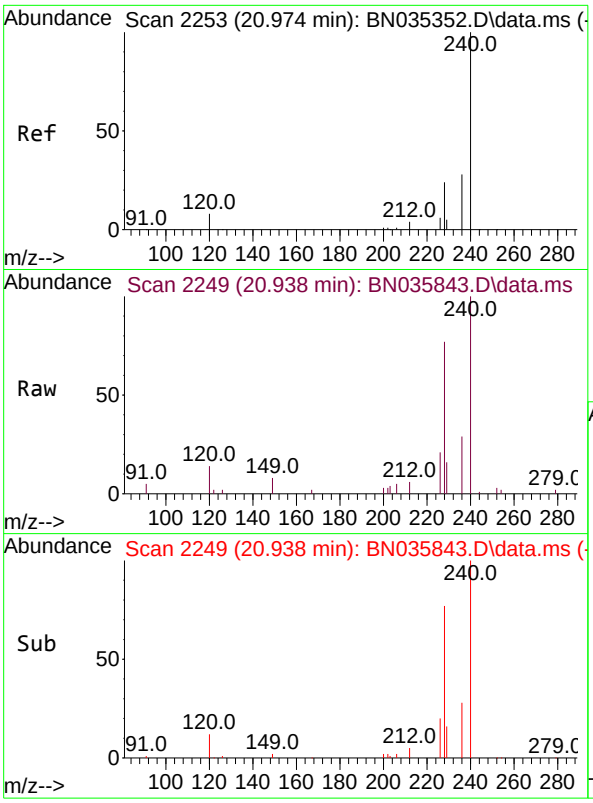


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 16856

Ion	Ratio	Lower	Upper
202	100		
101	9.9	7.4	11.0
203	16.7	13.7	20.5

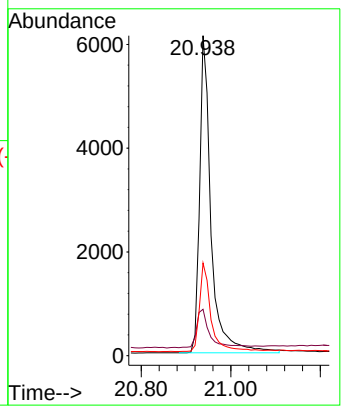




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:240 Resp: 1082

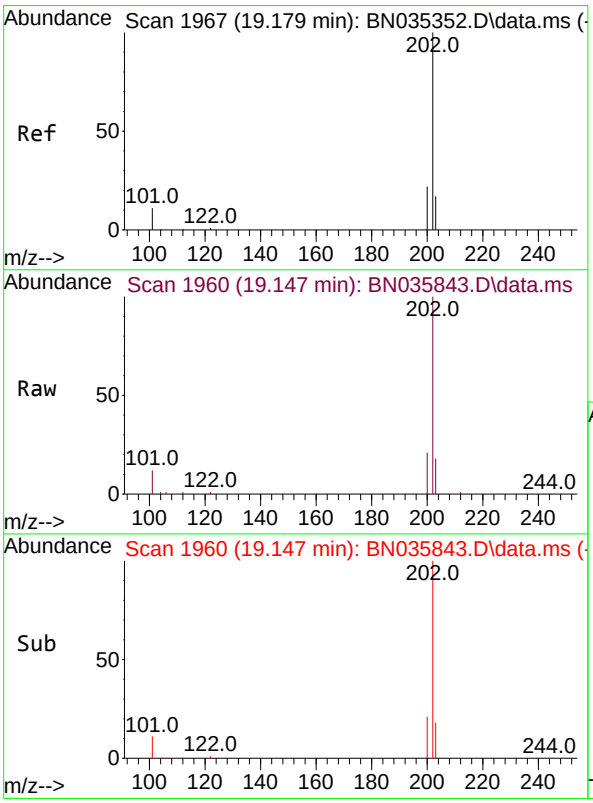
Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9#
236	29.0	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

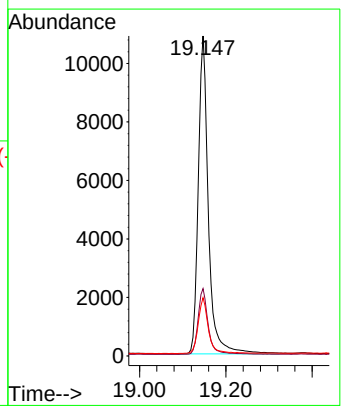
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

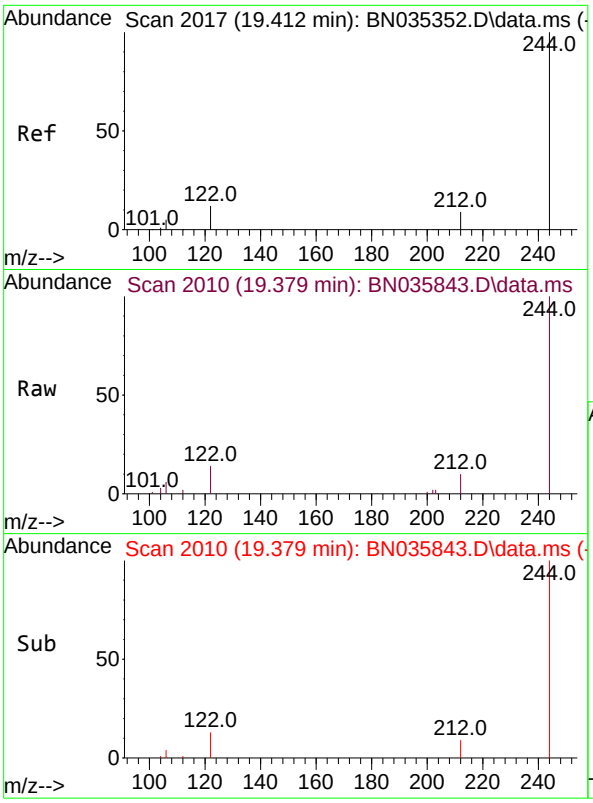


#30
Pyrene
Concen: 0.441 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 17619

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.8	14.3	21.5

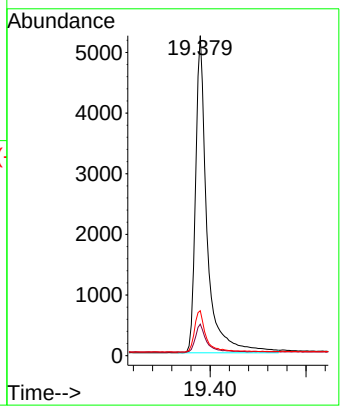




#31
Terphenyl-d14
Concen: 0.411 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:244 Resp: 877

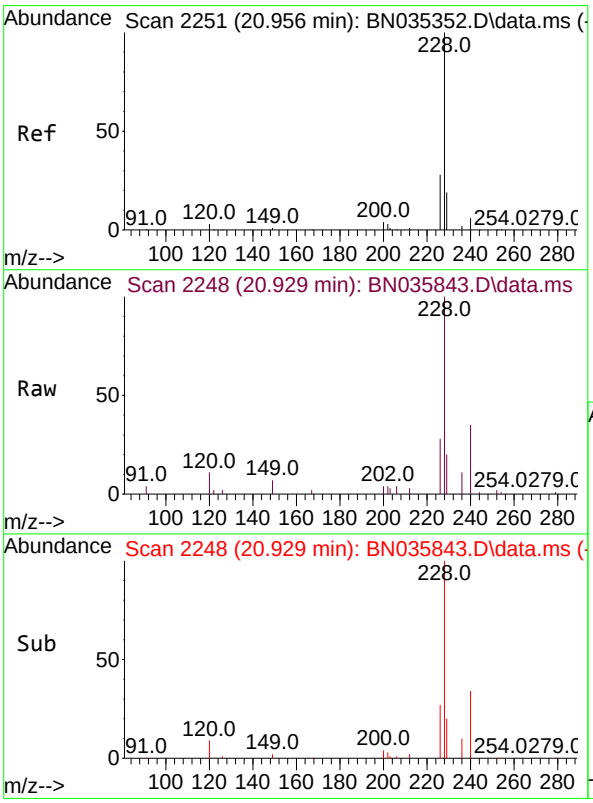
Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	14.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

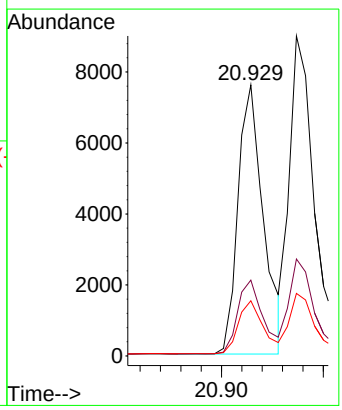
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

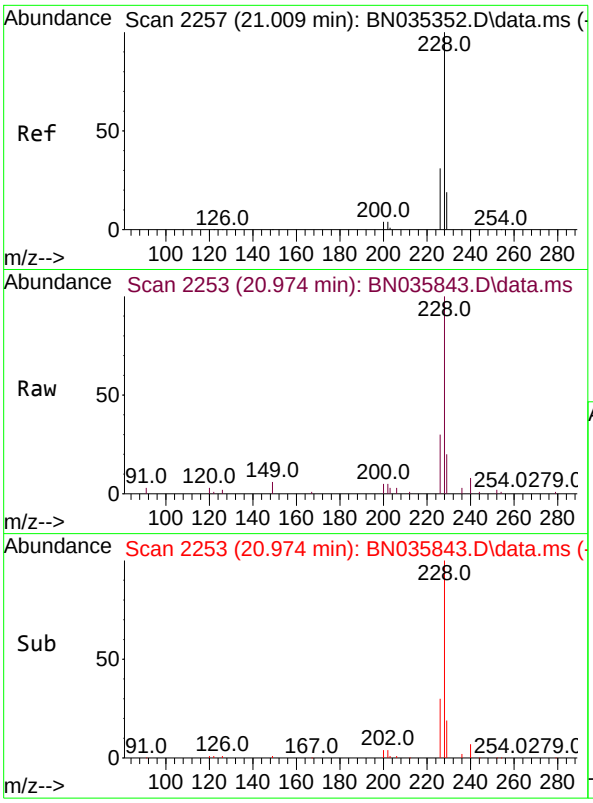


#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:228 Resp: 13110

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.3	15.8	23.8

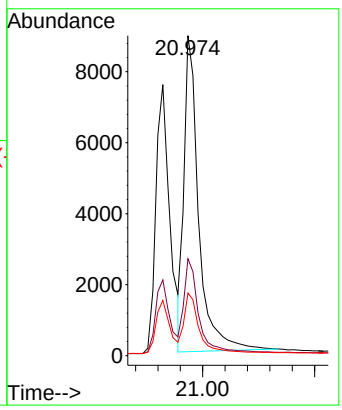




#33
Chrysene
Concen: 0.416 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:228 Resp: 1623

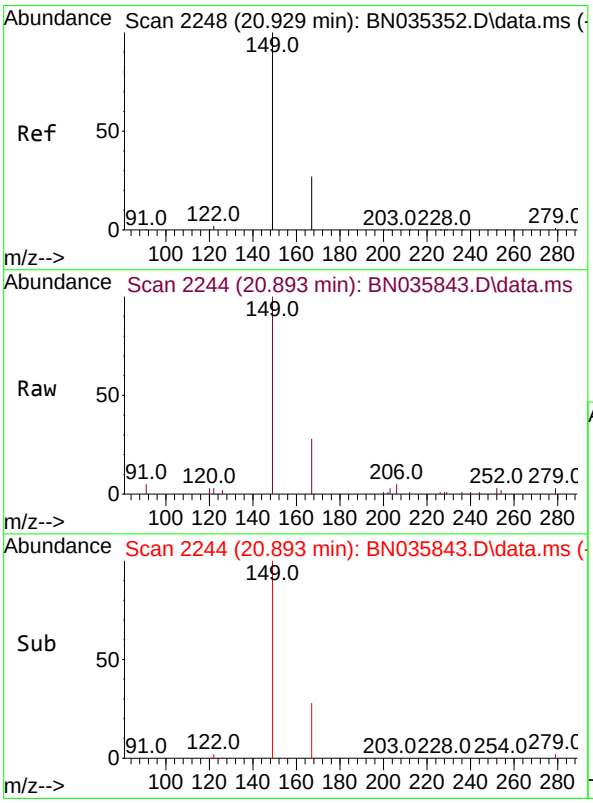
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

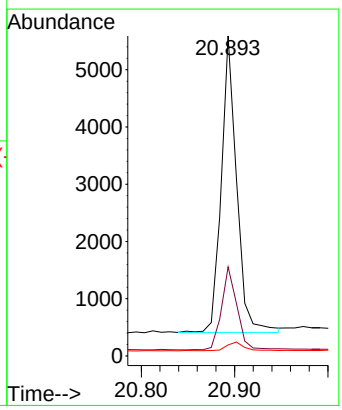
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

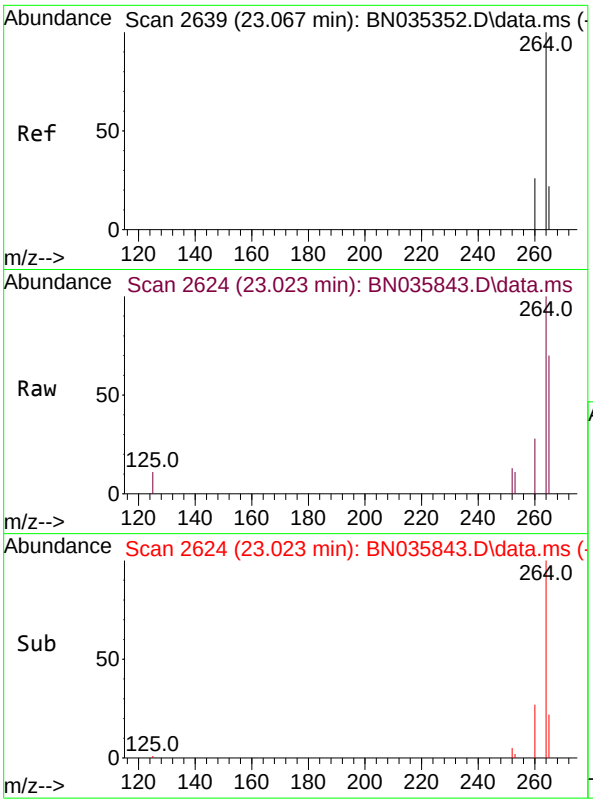


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.397 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:149 Resp: 5933

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.5	2.7	4.1

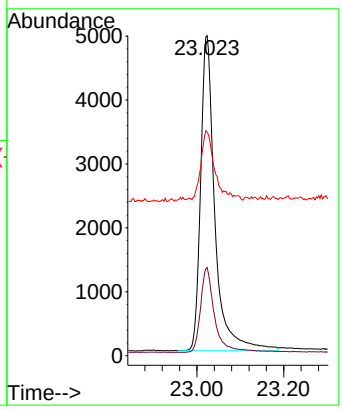




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:264 Resp: 1127

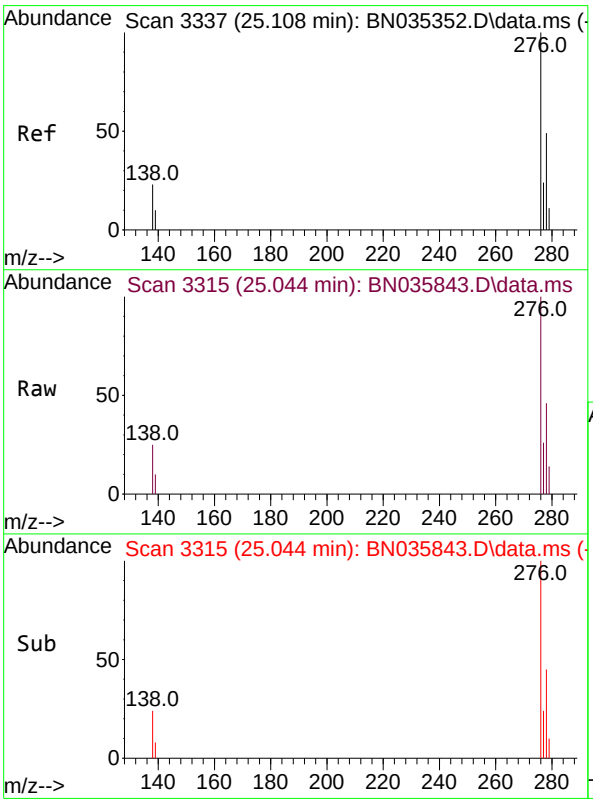
Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	69.9	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

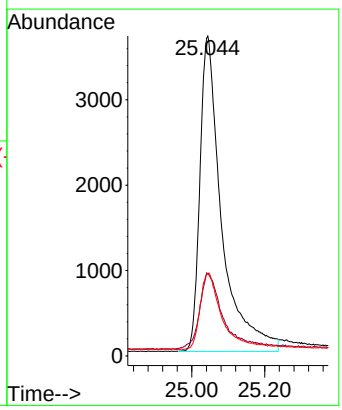
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

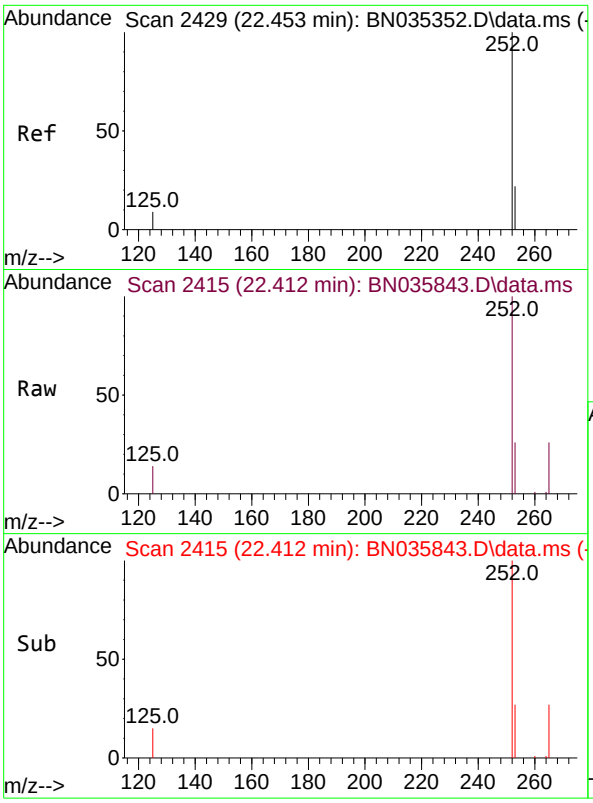


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:276 Resp: 15331

Ion	Ratio	Lower	Upper
276	100		
138	24.4	19.4	29.0
277	24.2	19.8	29.6

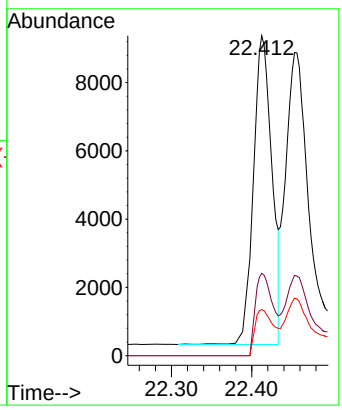




#37
Benzo(b)fluoranthene
Concen: 0.621 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:252 Resp: 2561

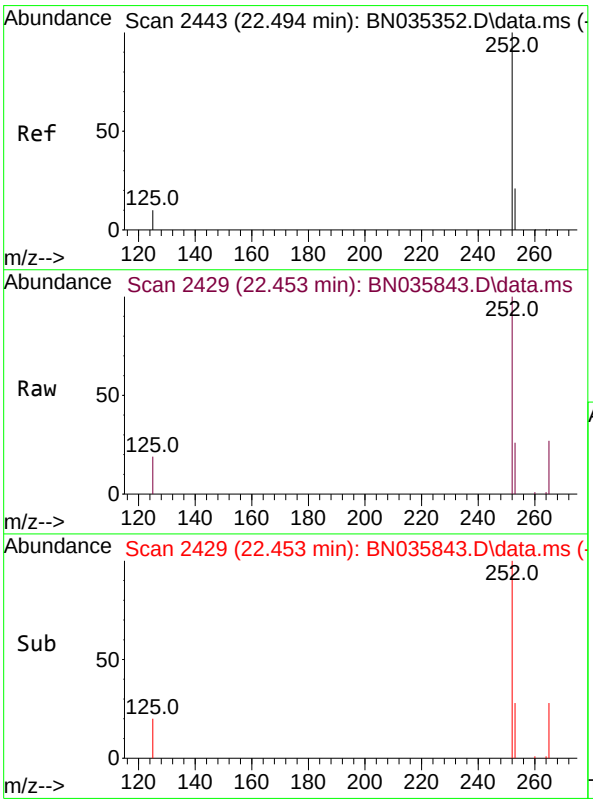
Ion	Ratio	Lower	Upper
252	100		
253	25.7	19.6	29.4
125	14.4	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

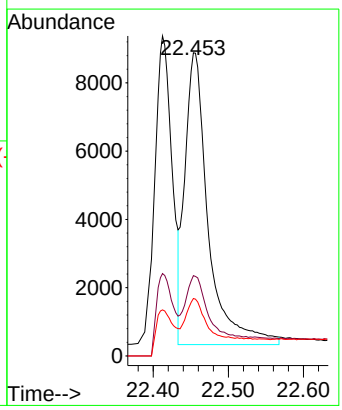
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

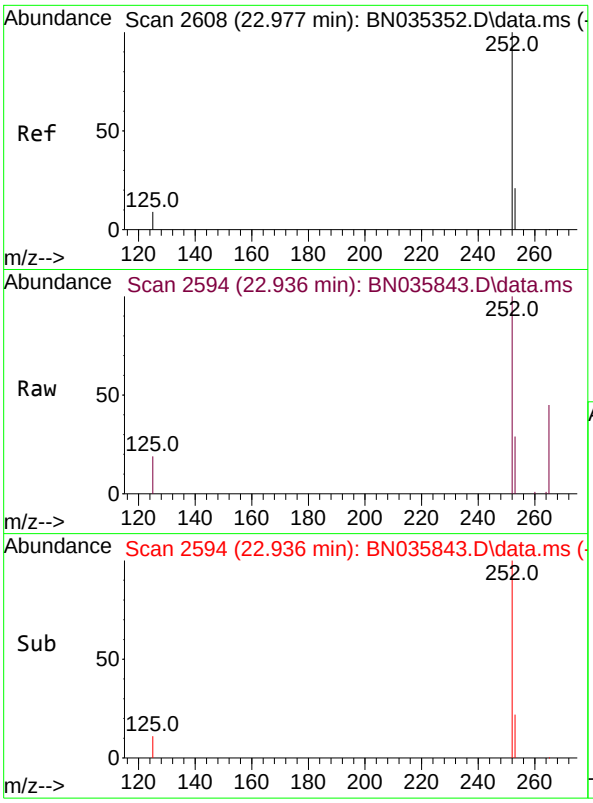


#38
Benzo(k)fluoranthene
Concen: 0.458 ng m
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:252 Resp: 18591

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	18.9	10.2	15.4#

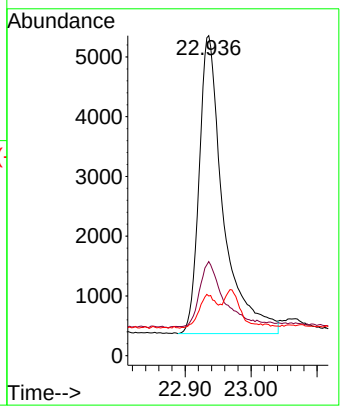




#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.936 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:252 Resp: 1266

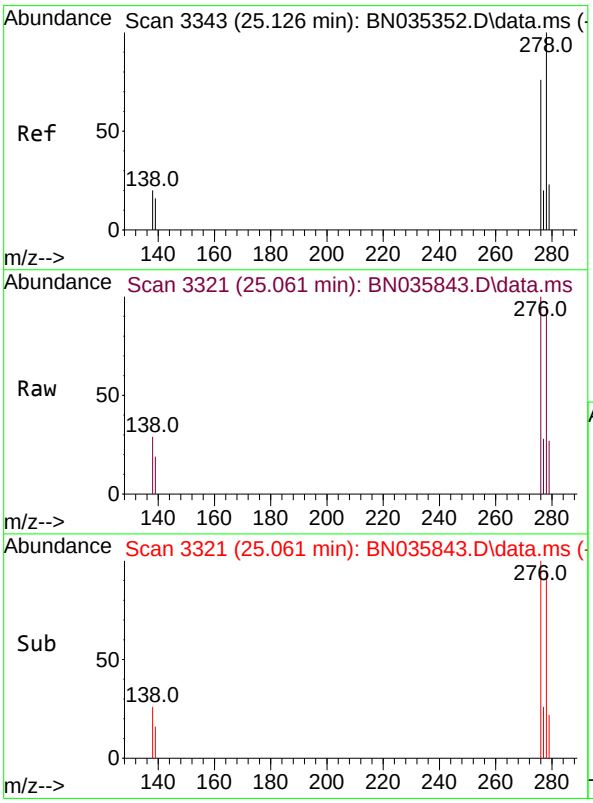
Ion	Ratio	Lower	Upper
252	100		
253	29.4	20.2	30.4
125	18.6	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

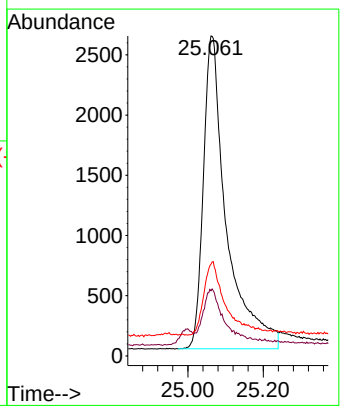
Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

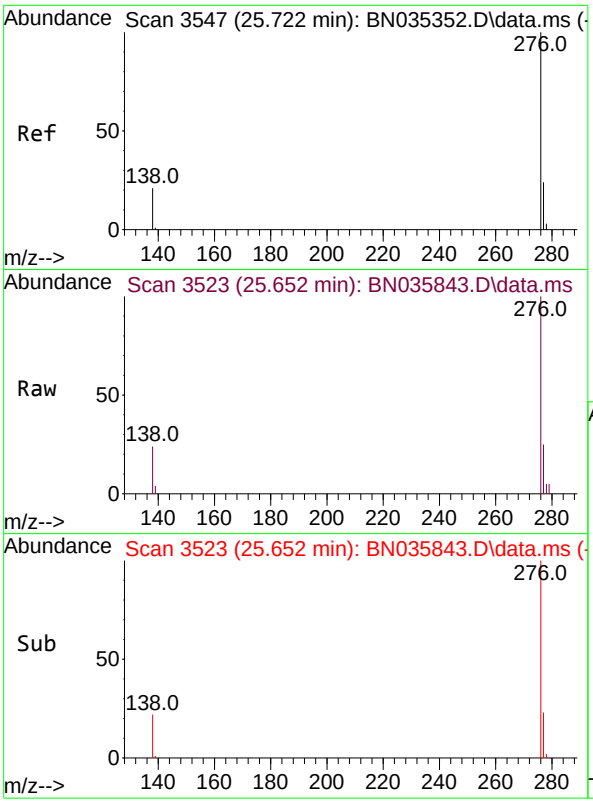


#40
Dibenzo(a,h)anthracene
Concen: 0.320 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:278 Resp: 11116

Ion	Ratio	Lower	Upper
278	100		
139	20.4	14.2	21.4
279	28.7	20.5	30.7

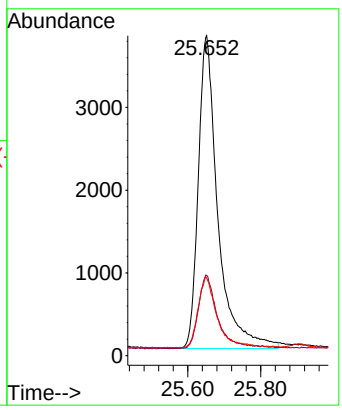




#41
Benzo(g,h,i)perylene
Concen: 0.387 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.027 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:276 Resp: 1407

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	24.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/26/2024
Supervised By :mohammad ahmed 12/26/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	252#	-0.01
2		1,4-Dioxane	0.382	0.510	-33.5#	341#	0.00
3		n-Nitrosodimethylamine	0.319	0.305	4.4	236#	0.00
4	S	2-Fluorophenol	1.001	0.947	5.4	234#	-0.01
5	S	Phenol-d6	1.204	1.574	-30.7#	332#	-0.02
6		bis(2-Chloroethyl)ether	1.012	1.223	-20.8	310#	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	250#	-0.02
8	S	Nitrobenzene-d5	0.244	0.351	-43.9#	373#	-0.01
9		Naphthalene	1.055	1.347	-27.7#	322#	-0.01
10		Hexachlorobutadiene	0.243	0.340	-39.9#	344#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.525	16.1	212#	-0.02
12		2-Methylnaphthalene	0.755	0.665	11.9	225#	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	179#	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.234	17.6	163#	-0.01
15	S	2-Fluorobiphenyl	1.512	1.591	-5.2	189#	-0.02
16		Acenaphthylene	1.680	1.553	7.6	174#	-0.02
17		Acenaphthene	1.115	1.070	4.0	176#	-0.02
18		Fluorene	1.596	1.366	14.4	158#	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	142	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.034	12.8	137	-0.01
21		4-Bromophenyl-phenylether	0.234	0.219	6.4	138	-0.01
22		Hexachlorobenzene	0.275	0.322	-17.1	168#	-0.03
23		Atrazine	0.167	0.151	9.6	139	0.00
24		Pentachlorophenol	0.120	0.106	11.7	158#	-0.01
25		Phenanthrene	1.099	1.056	3.9	141	-0.01
26		Anthracene	0.994	0.869	12.6	131	-0.01
27	SURR	Fluoranthene-d10	1.134	0.959	15.4	127	-0.01
28		Fluoranthene	1.481	1.249	15.7	125	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	114	-0.02
30		Pyrene	1.477	1.627	-10.2	125	-0.01
31	S	Terphenyl-d14	0.789	0.810	-2.7	116	0.00
32		Benzo(a)anthracene	1.399	1.211	13.4	102	0.00
33		Chrysene	1.443	1.500	-4.0	118	-0.02
34		Bis(2-ethylhexyl)phthalate	0.553	0.548	0.9	121	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	104	-0.02
36		Indeno(1,2,3-cd)pyrene	1.564	1.360	13.0	92	-0.02
37		Benzo(b)fluoranthene	1.463	2.273	-55.4#	180#	-0.02
38		Benzo(k)fluoranthene	1.440	1.649	-14.5	122	-0.02
39	C	Benzo(a)pyrene	1.205	1.124	6.7	102	-0.01
40		Dibenzo(a,h)anthracene	1.234	0.986	20.1	86	-0.02
41		Benzo(g,h,i)perylene	1.289	1.248	3.2	104	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	252	-0.01
2		1,4-Dioxane	0.400	0.533	-33.3#	341	0.00
3		n-Nitrosodimethylamine	0.400	0.384	4.0	236	0.00
4	S	2-Fluorophenol	0.400	0.378	5.5	234	-0.01
5	S	Phenol-d6	0.400	0.523	-30.8#	332	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.483	-20.7	310	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	250	-0.02
8	S	Nitrobenzene-d5	0.400	0.574	-43.5#	373	-0.01
9		Naphthalene	0.400	0.511	-27.7#	322	-0.01
10		Hexachlorobutadiene	0.400	0.559	-39.8#	344	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.335	16.3	212	-0.02
12		2-Methylnaphthalene	0.400	0.352	12.0	225	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	179	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.329	17.8	163	-0.01
15	S	2-Fluorobiphenyl	0.400	0.421	-5.2	189	-0.02
16		Acenaphthylene	0.400	0.370	7.5	174	-0.02
17		Acenaphthene	0.400	0.384	4.0	176	-0.02
18		Fluorene	0.400	0.342	14.5	158	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	142	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.347	13.3	137	-0.01
21		4-Bromophenyl-phenylether	0.400	0.375	6.3	138	-0.01
22		Hexachlorobenzene	0.400	0.469	-17.2	168	-0.03
23		Atrazine	0.400	0.362	9.5	139	0.00
24		Pentachlorophenol	0.400	0.355	11.3	158	-0.01
25		Phenanthrene	0.400	0.384	4.0	141	-0.01
26		Anthracene	0.400	0.350	12.5	131	-0.01
27	SURR	Fluoranthene-d10	0.400	0.338	15.5	127	-0.01
28		Fluoranthene	0.400	0.337	15.8	125	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	114	-0.02
30		Pyrene	0.400	0.441	-10.2	125	-0.01
31	S	Terphenyl-d14	0.400	0.411	-2.7	116	0.00
32		Benzo(a)anthracene	0.400	0.346	13.5	102	0.00
33		Chrysene	0.400	0.416	-4.0	118	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.397	0.8	121	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	104	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.348	13.0	92	-0.02
37		Benzo(b)fluoranthene	0.400	0.621	-55.2#	180	-0.02
38		Benzo(k)fluoranthene	0.400	0.458	-14.5	122	-0.02
39	C	Benzo(a)pyrene	0.400	0.373	6.8	102	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.320	20.0	86	-0.02
41		Benzo(g,h,i)perylene	0.400	0.387	3.3	104	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 09:58

Lab File ID: BN035845.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.545		-12.9	20.0
Fluoranthene-d10	1.134	0.991		-12.6	20.0
2-Fluorophenol	1.001	1.006		0.5	20.0
Phenol-d6	1.204	1.112		-7.6	20.0
Nitrobenzene-d5	0.244	0.298		22.1	20.0
2-Fluorobiphenyl	1.512	1.504		-0.5	20.0
2,4,6-Tribromophenol	0.284	0.248		-12.7	20.0
Terphenyl-d14	0.789	0.784		-0.6	20.0
1,4-Dioxane	0.382	0.405		6.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	9322	0.400	ng		#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400	ng		#-0.01
29) Chrysene-d12	20.938	240	9932	0.400	ng		#-0.02
35) Perylene-d12	23.021	264	10817	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3777	0.402	ng		-0.01
5) Phenol-d6	6.470	99	4175	0.369	ng		-0.02
8) Nitrobenzene-d5	8.397	82	2776m	0.488	ng		-0.01
11) 2-Methylnaphthalene-d10	11.600	152	5080	0.348	ng		-0.02
14) 2,4,6-Tribromophenol	15.432	330	1338	0.350	ng		-0.02
15) 2-Fluorobiphenyl	12.523	172	8104	0.398	ng		-0.02
27) Fluoranthene-d10	18.743	212	11161	0.350	ng		-0.02
31) Terphenyl-d14	19.375	244	7783	0.397	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1520	0.423	ng		97
3) n-Nitrosodimethylamine	3.270	42	1223	0.409	ng	#	82
6) bis(2-Chloroethyl)ether	6.708	93	3599	0.379	ng		99
9) Naphthalene	10.041	128	9440	0.384	ng		100
10) Hexachlorobutadiene	10.340	225	2352	0.415	ng	#	99
12) 2-Methylnaphthalene	11.676	142	5939	0.337	ng		98
16) Acenaphthylene	13.625	152	8340	0.369	ng		100
17) Acenaphthene	13.978	154	5695	0.379	ng		99
18) Fluorene	14.983	166	7523	0.350	ng		99
20) 4,6-Dinitro-2-methylph...	15.100	198	526	0.475	ng	#	39
21) 4-Bromophenyl-phenylether	15.891	248	2443	0.371	ng	#	87
22) Hexachlorobenzene	15.991	284	3482	0.450	ng		95
23) Atrazine	16.189	200	1843	0.393	ng		97
24) Pentachlorophenol	16.363	266	1383	0.411	ng		87
25) Phenanthrene	16.723	178	11602	0.375	ng		100
26) Anthracene	16.822	178	10005	0.358	ng		100
28) Fluoranthene	18.775	202	14489	0.347	ng		98
30) Pyrene	19.142	202	15278	0.417	ng		100
32) Benzo(a)anthracene	20.920	228	12798	0.368	ng		100
33) Chrysene	20.974	228	14214	0.397	ng		100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6282	0.458	ng		100
36) Indeno(1,2,3-cd)pyrene	25.041	276	15946	0.377	ng		97
37) Benzo(b)fluoranthene	22.412	252	19565	0.494	ng	#	96
38) Benzo(k)fluoranthene	22.453	252	16469m	0.423	ng		
39) Benzo(a)pyrene	22.933	252	12458	0.382	ng	#	92
40) Dibenzo(a,h)anthracene	25.058	278	12678	0.380	ng		96
41) Benzo(g,h,i)perylene	25.646	276	14614	0.419	ng		98

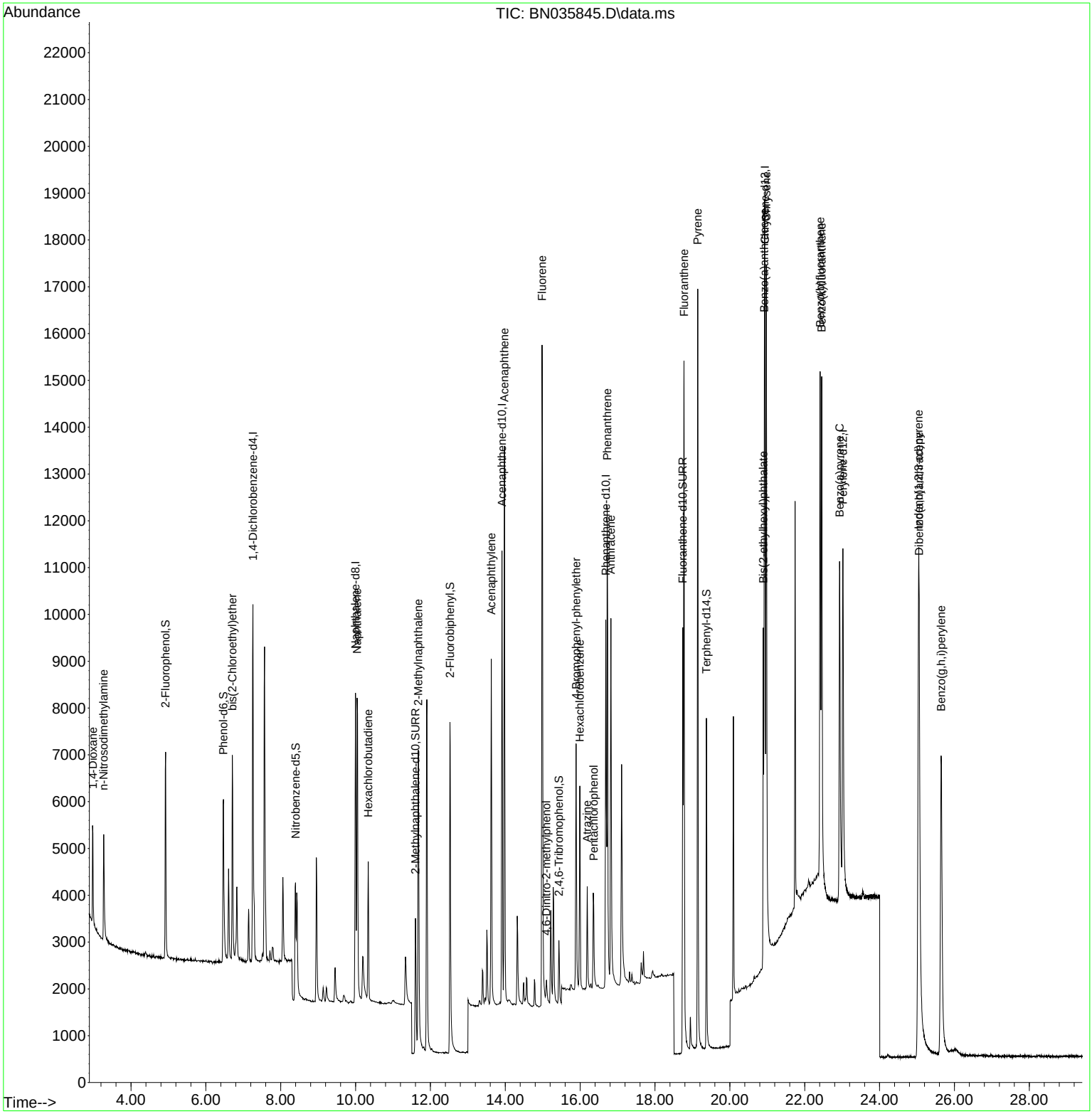
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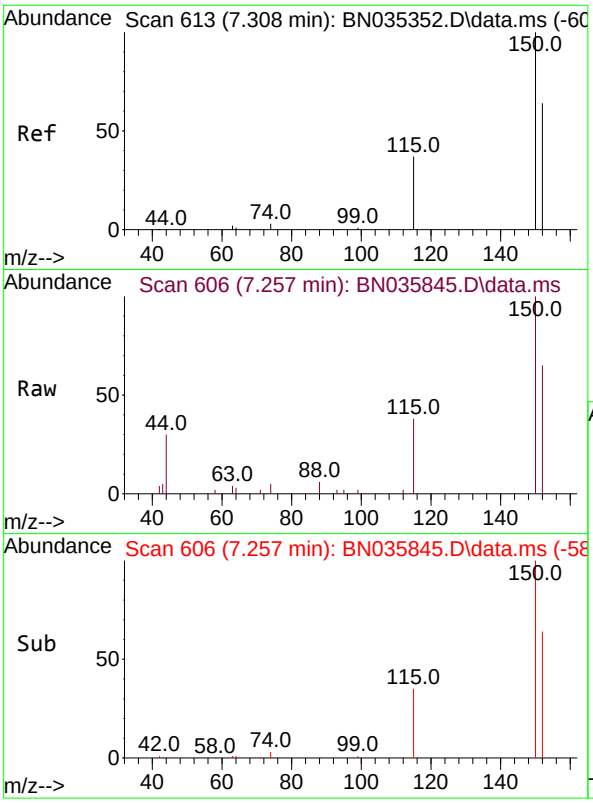
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Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

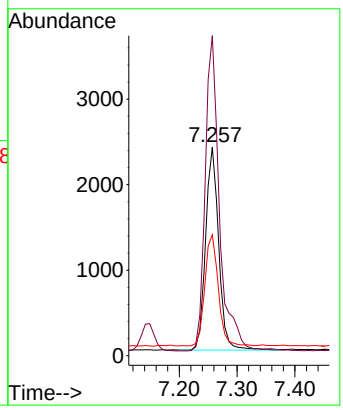




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 375

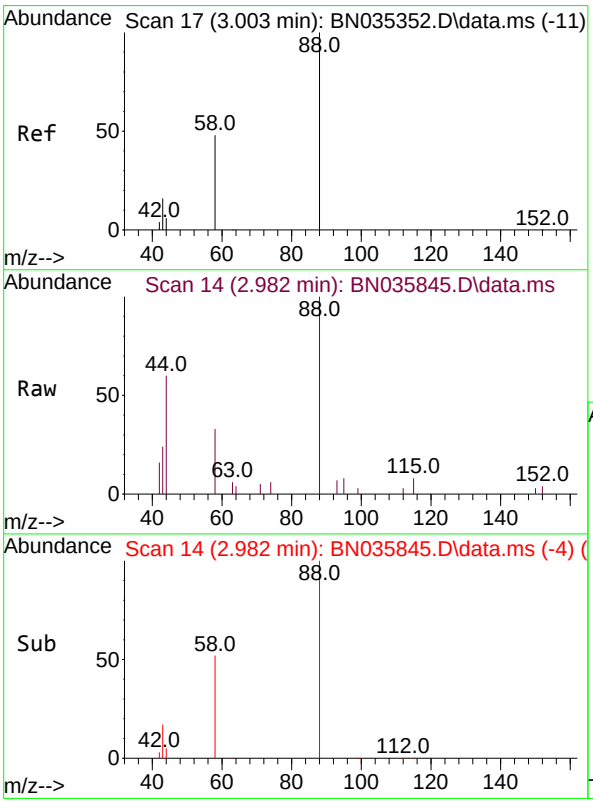
Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.0	186.0
115	58.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

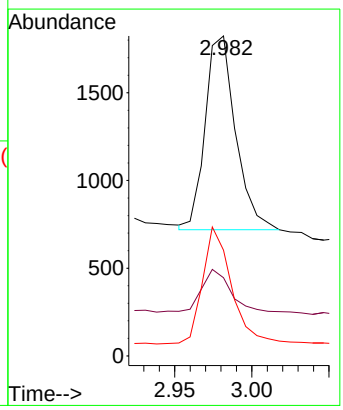
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

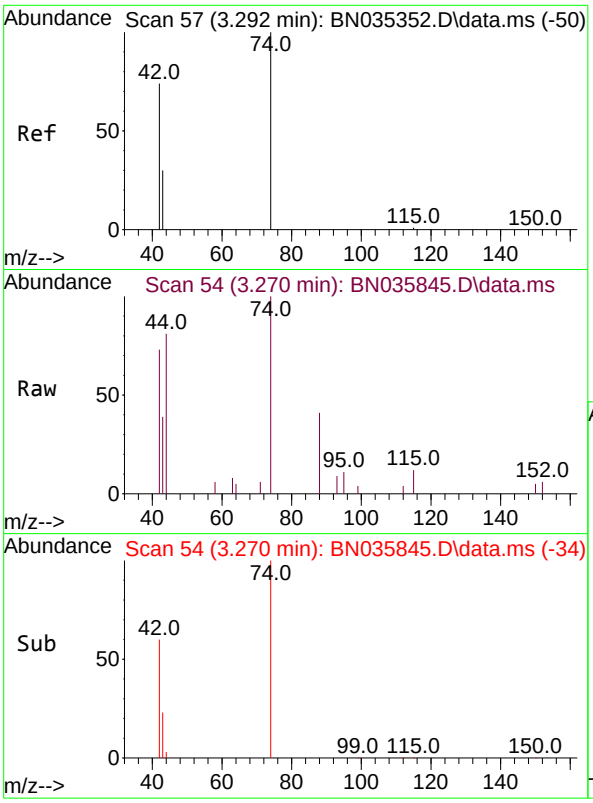


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 88 Resp: 1520

Ion	Ratio	Lower	Upper
88	100		
43	19.9	17.2	25.8
58	57.5	44.5	66.7

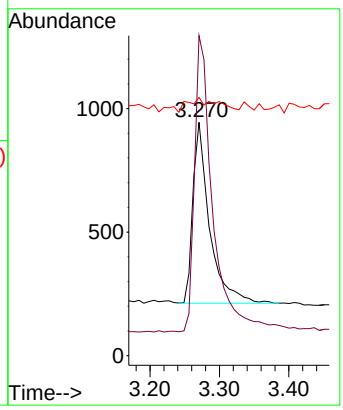




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 42 Resp: 122

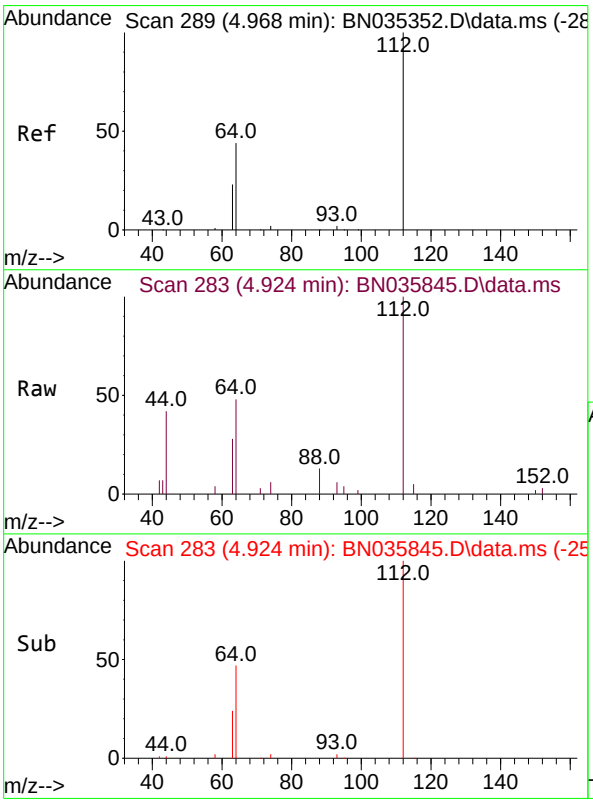
Ion	Ratio	Lower	Upper
42	100		
74	179.4	124.9	187.3
44	16.9	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

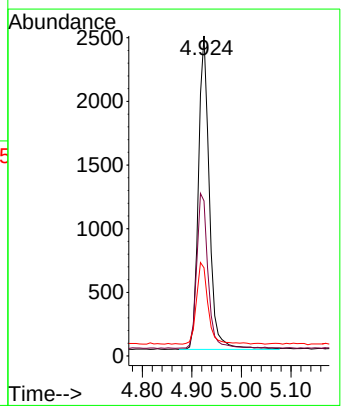
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

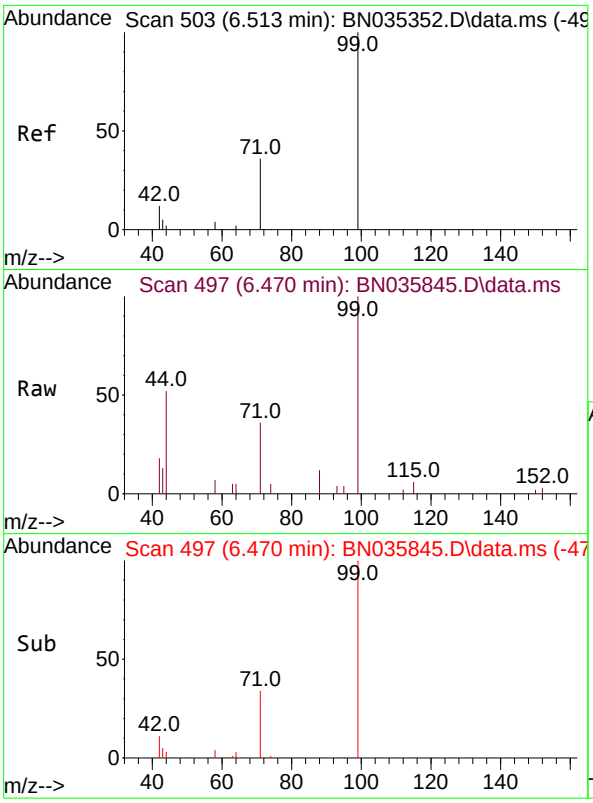


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:112 Resp: 3777

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	27.5	21.0	31.6

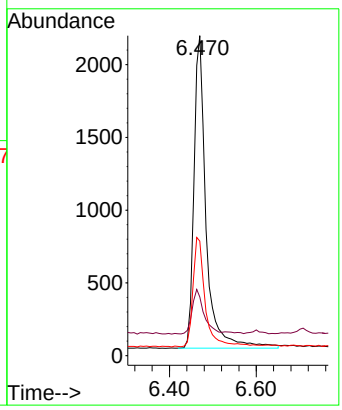




#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 99 Resp: 417

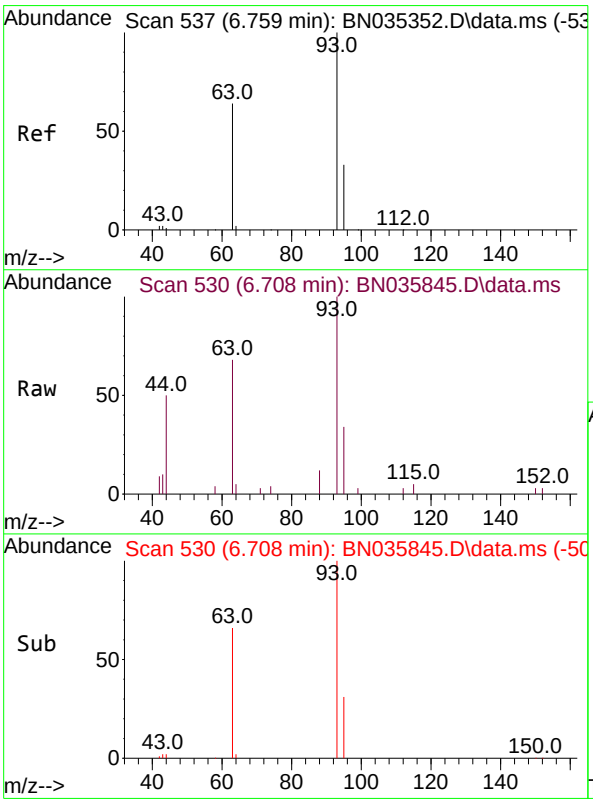
Ion	Ratio	Lower	Upper
99	100		
42	14.0	11.4	17.2
71	35.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

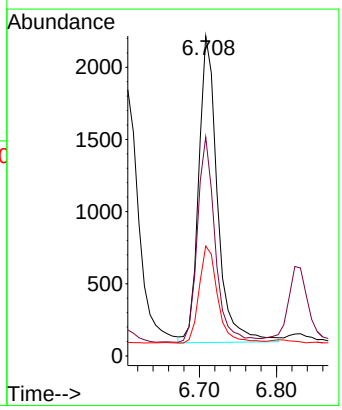
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

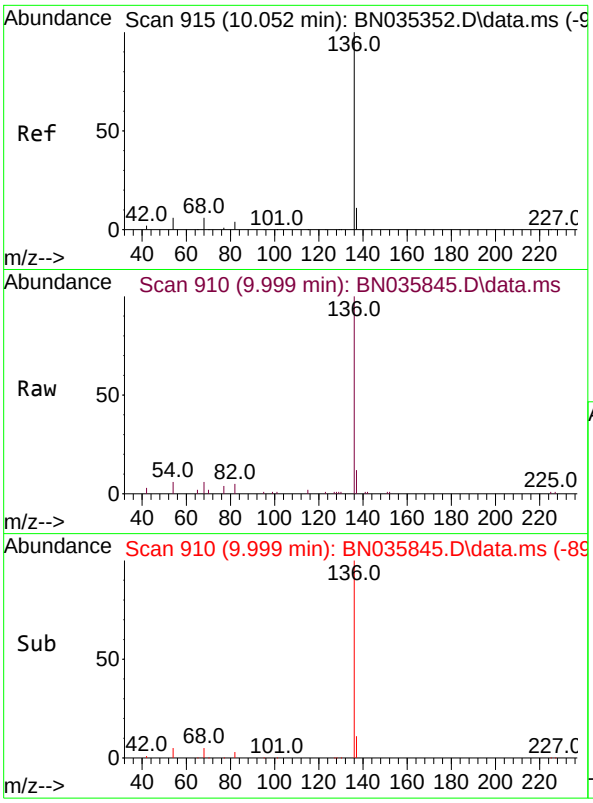


#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 93 Resp: 3599

Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	31.3	25.7	38.5

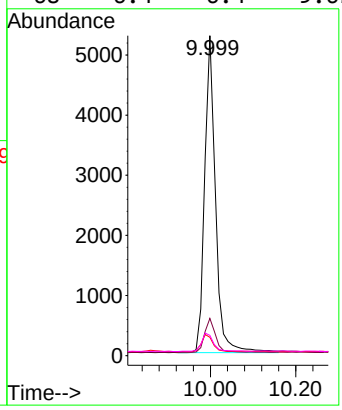




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:136 Resp: 932

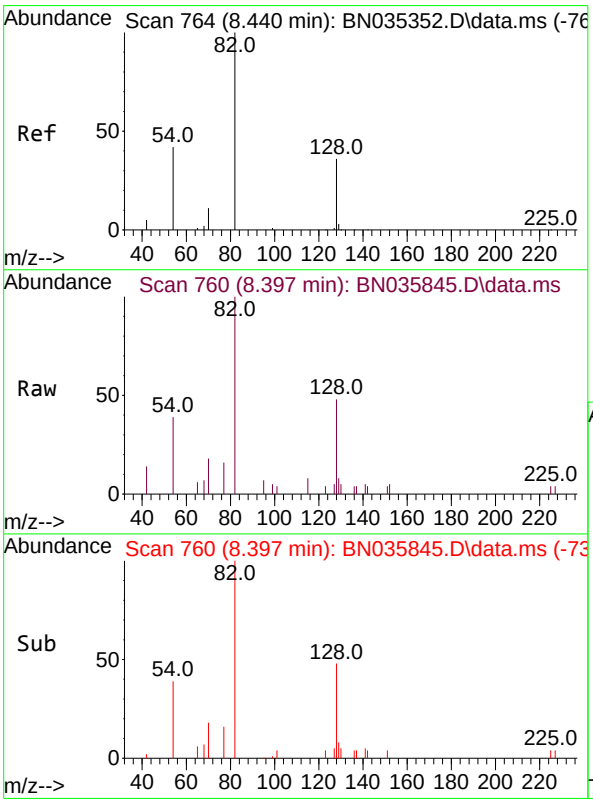
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.8	6.1	9.1#
68	6.4	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

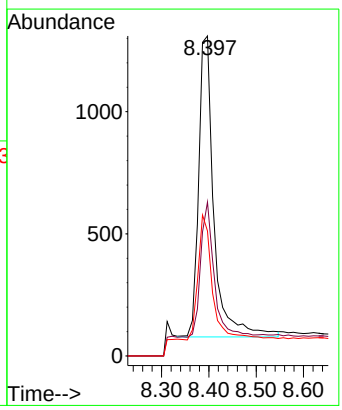
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

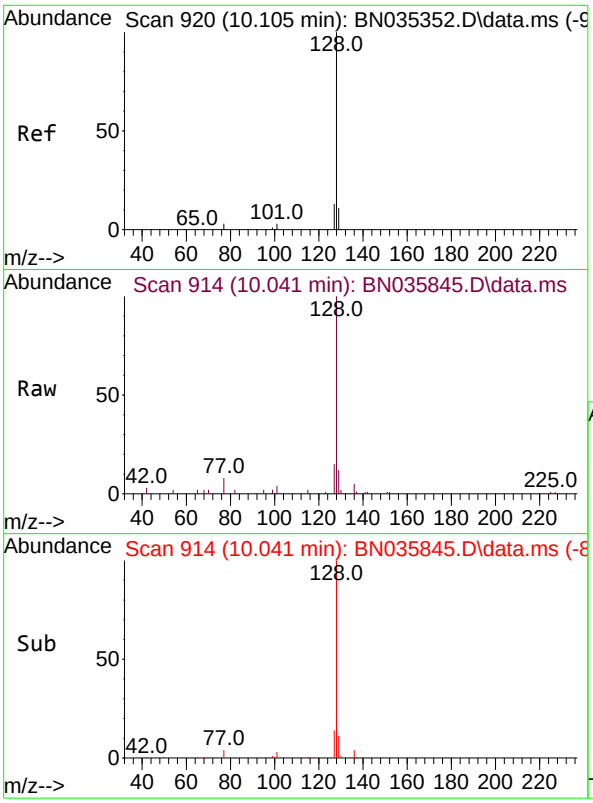


#8
Nitrobenzene-d5
Concen: 0.488 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 82 Resp: 2776

Ion	Ratio	Lower	Upper
82	100		
128	48.1	33.4	50.0
54	39.1	36.7	55.1

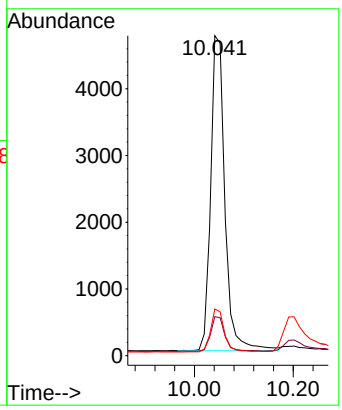




#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:128 Resp: 944

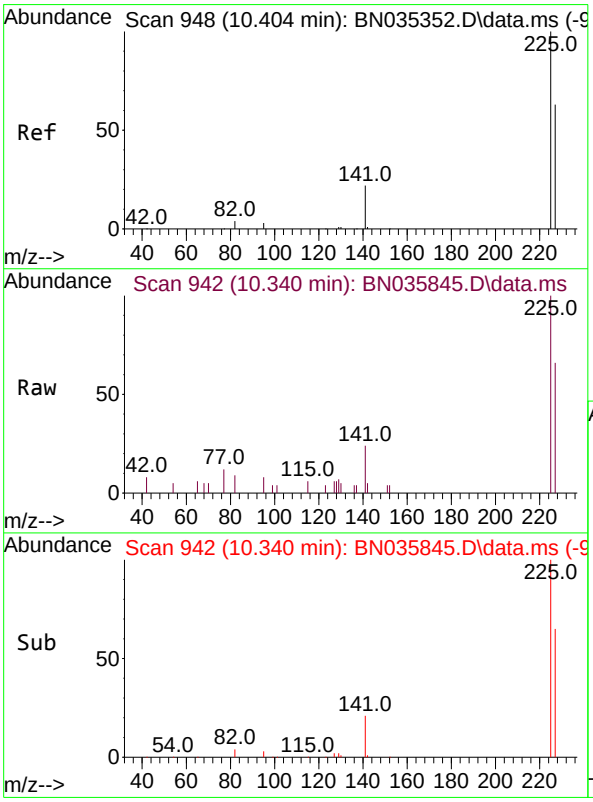
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.6	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

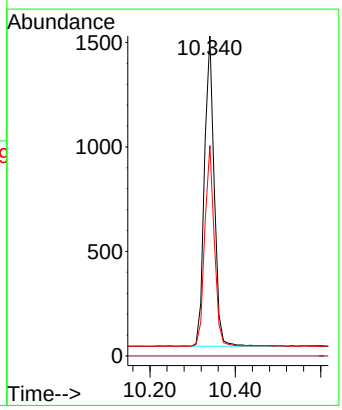
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

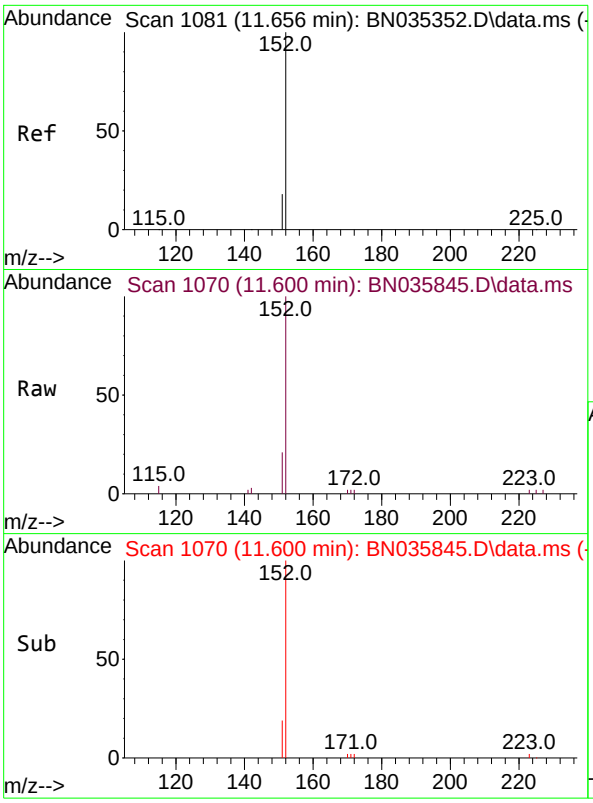


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.3	76.9

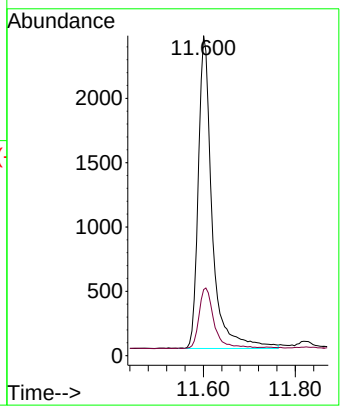




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 508

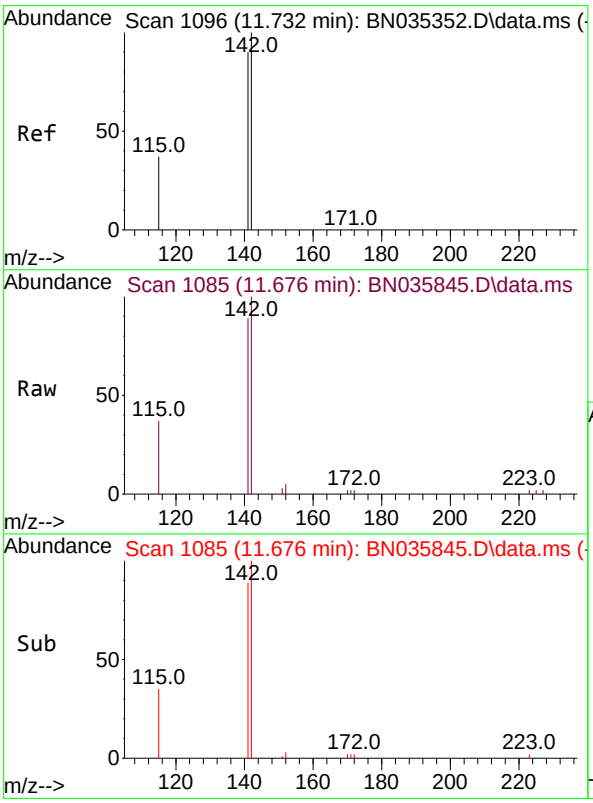
Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

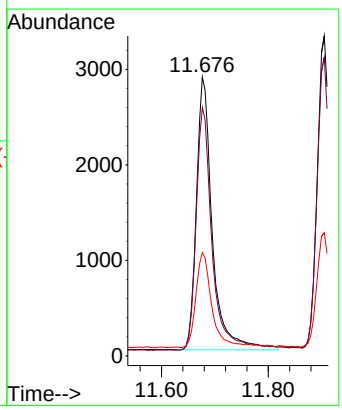
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

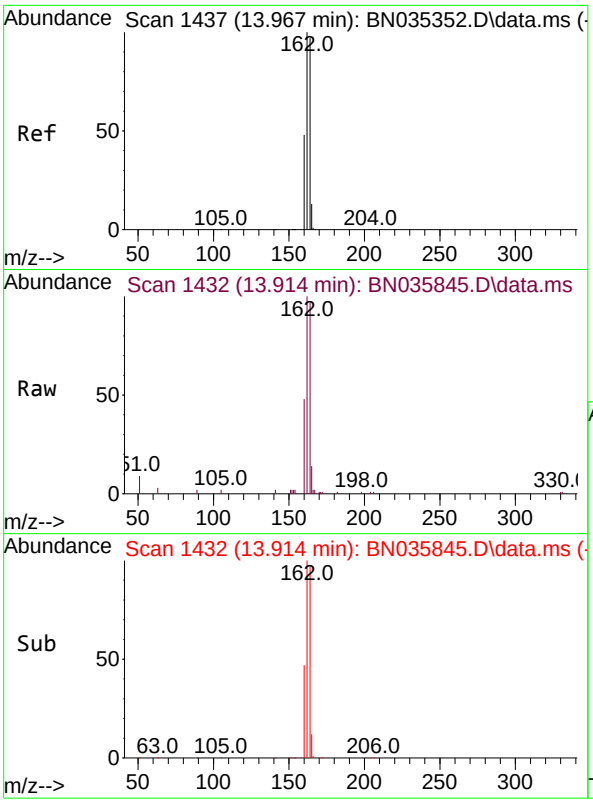


#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939

Ion	Ratio	Lower	Upper
142	100		
141	89.1	72.2	108.4
115	37.1	31.4	47.0

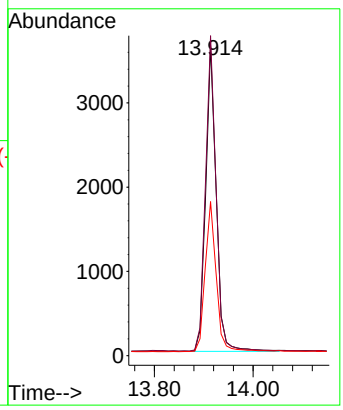




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:164 Resp: 538

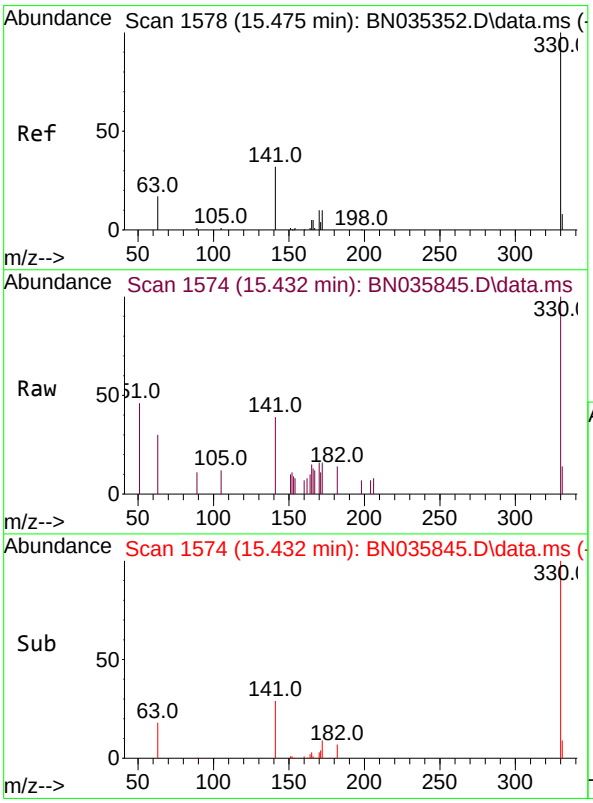
Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.2	123.2
160	49.7	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

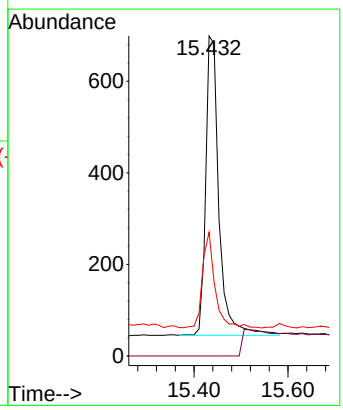
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

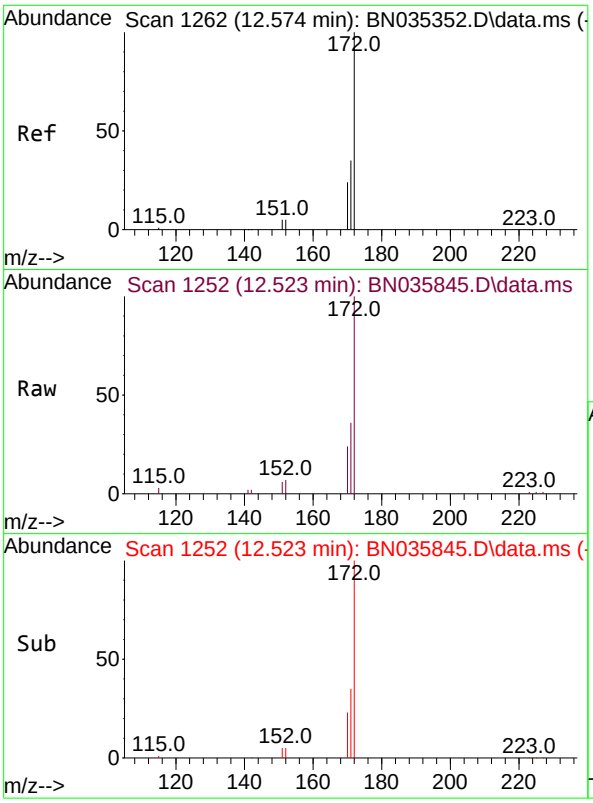


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.7	26.6	40.0

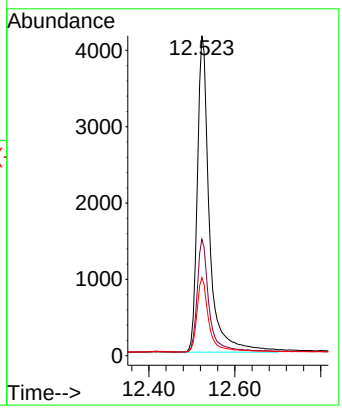




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:172 Resp: 810

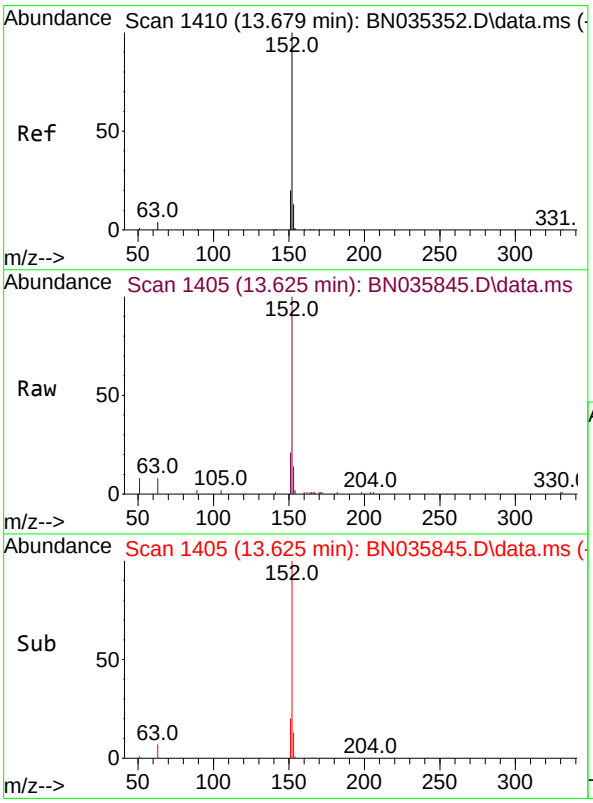
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

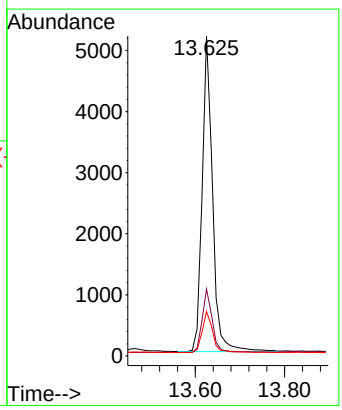
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

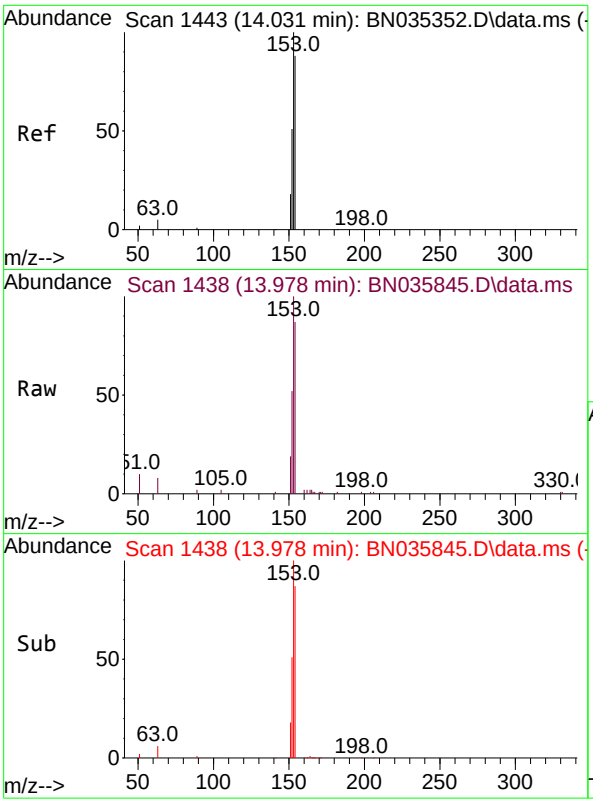


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 8340

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6

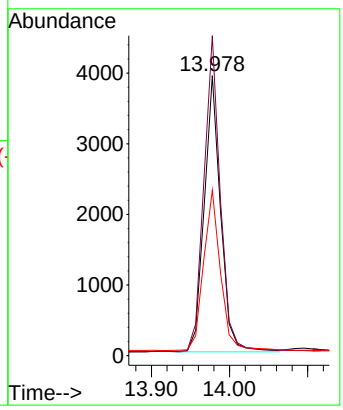




#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:154 Resp: 569

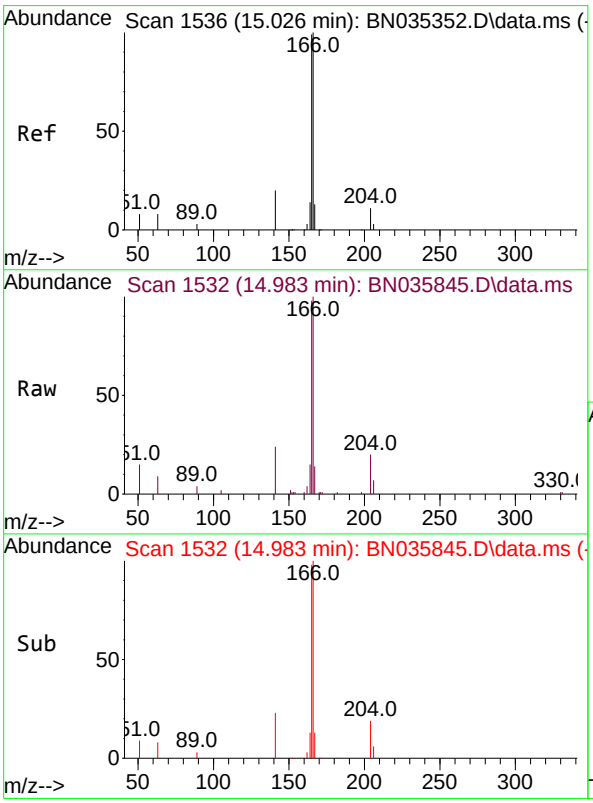
Ion	Ratio	Lower	Upper
154	100		
153	116.1	92.6	139.0
152	60.4	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

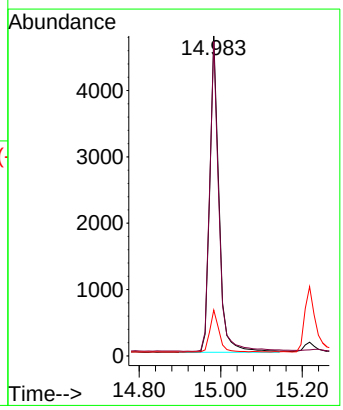
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

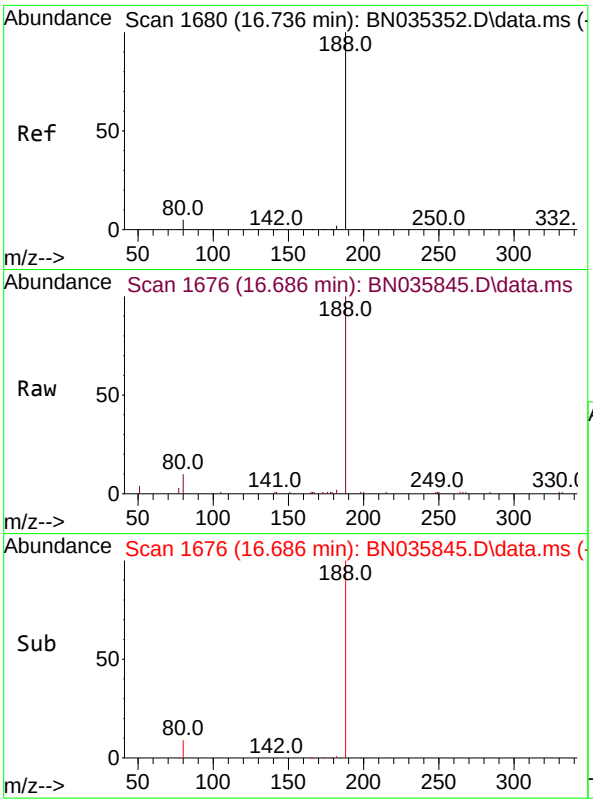


#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.4	10.8	16.2

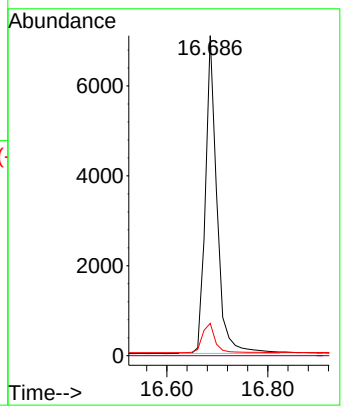




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:188 Resp: 1126

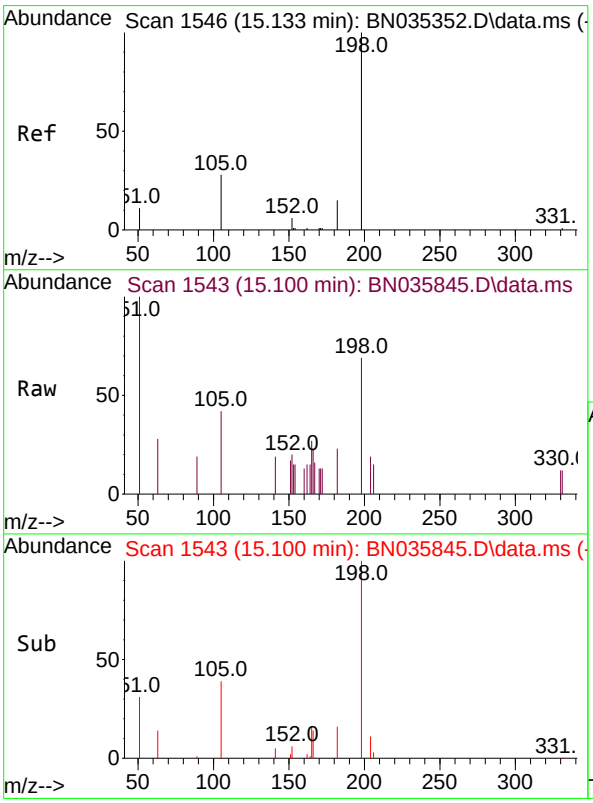
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

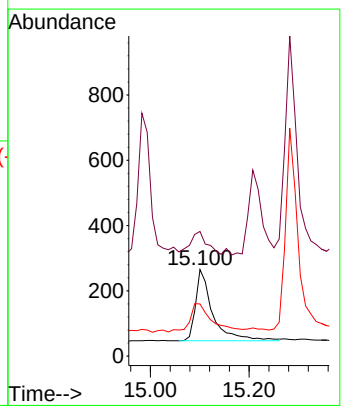
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

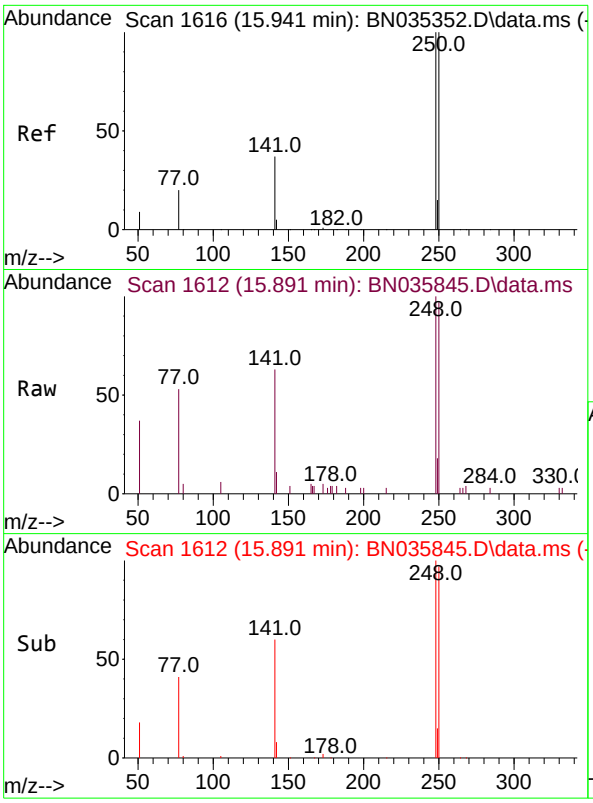


#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:198 Resp: 526

Ion	Ratio	Lower	Upper
198	100		
51	144.2	46.5	69.7#
105	60.4	45.3	67.9

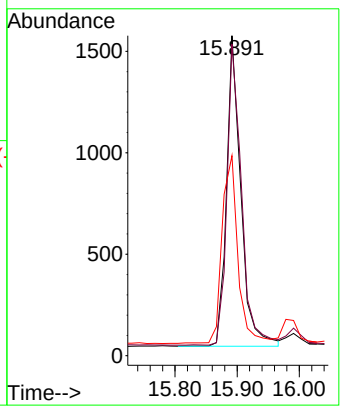




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:248 Resp: 244

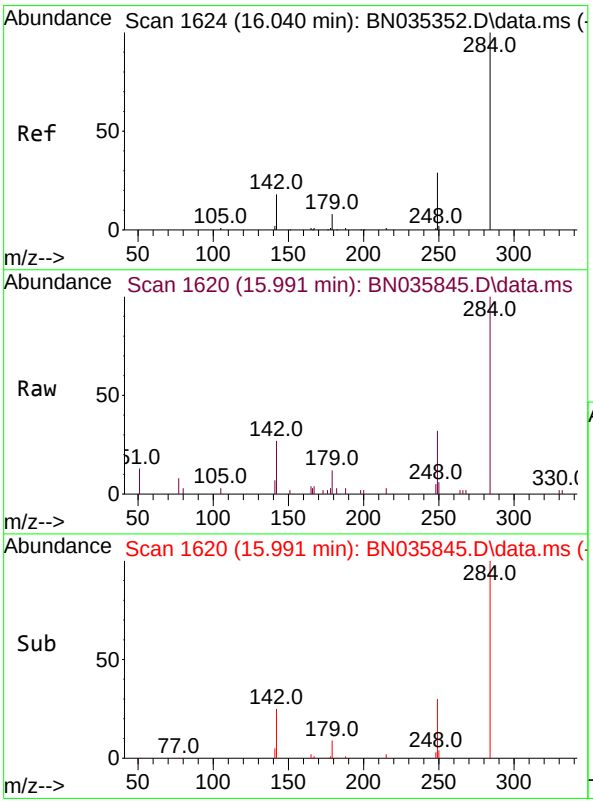
Ion	Ratio	Lower	Upper
248	100		
250	97.3	80.6	120.8
141	62.5	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

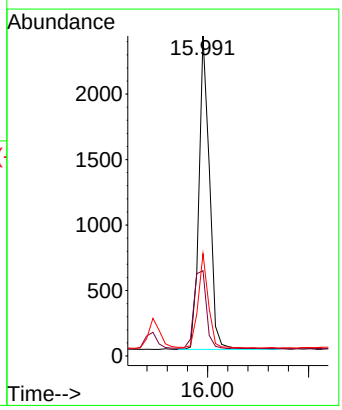
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

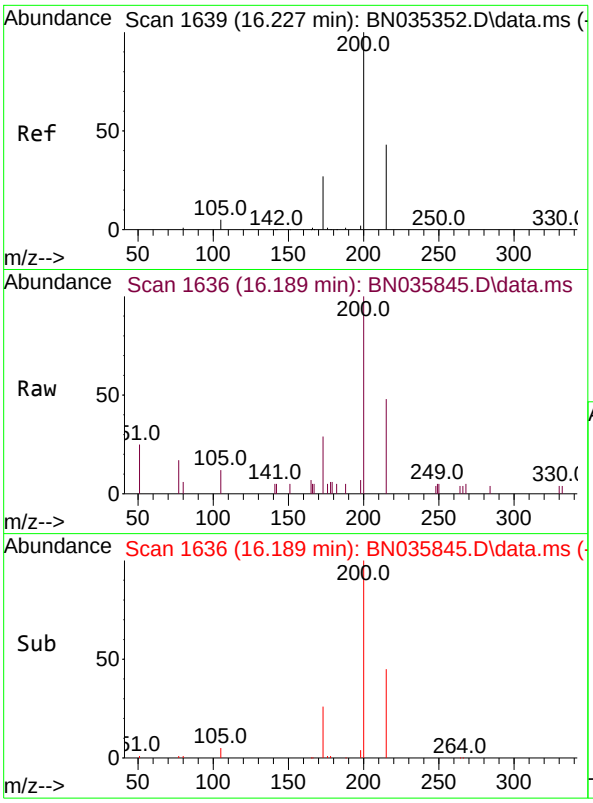


#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482

Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	28.9	24.6	36.8

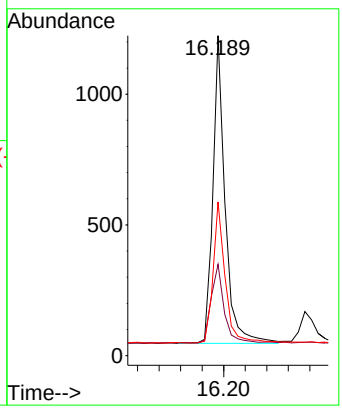




#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:200 Resp: 184

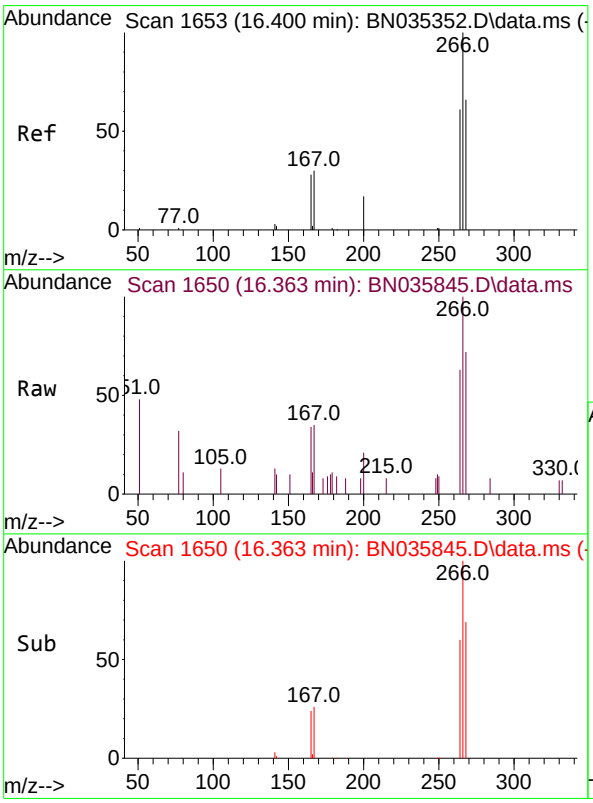
Ion	Ratio	Lower	Upper
200	100		
173	28.5	24.1	36.1
215	48.0	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

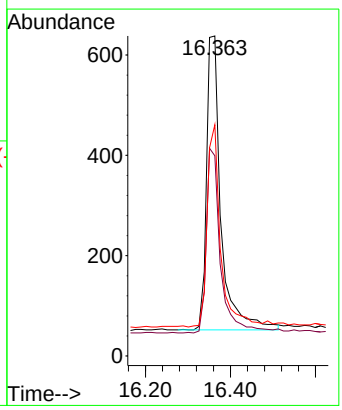
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

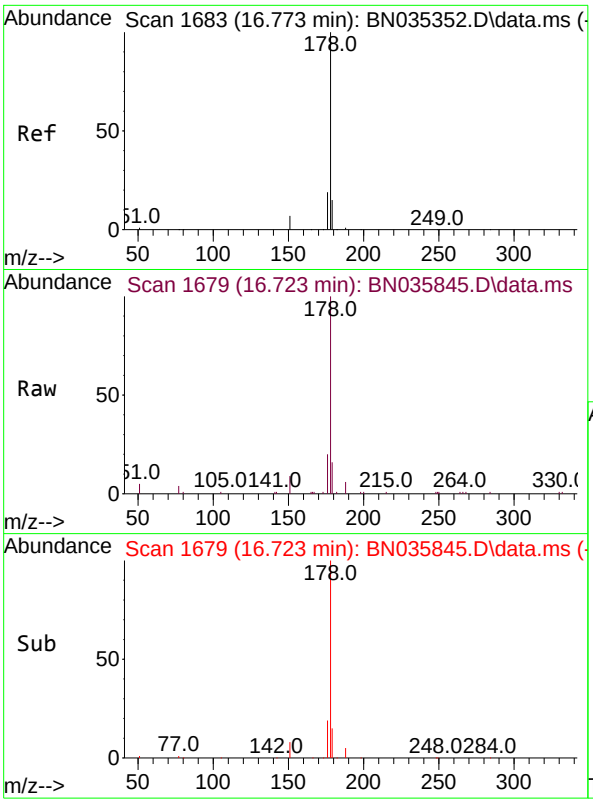


#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:266 Resp: 1383

Ion	Ratio	Lower	Upper
266	100		
264	61.3	42.3	63.5
268	63.8	43.3	64.9

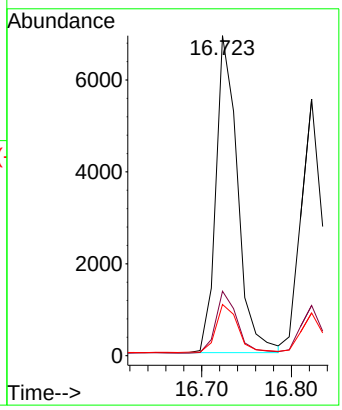




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 1160

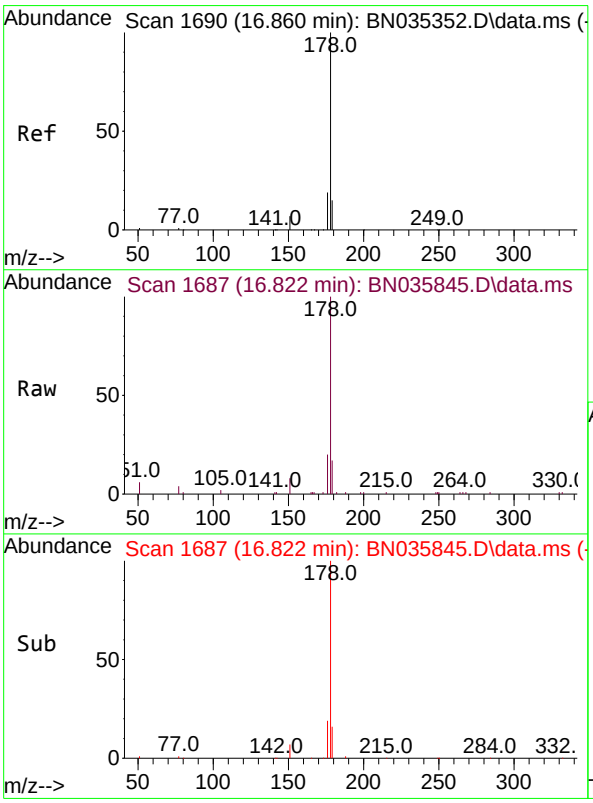
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

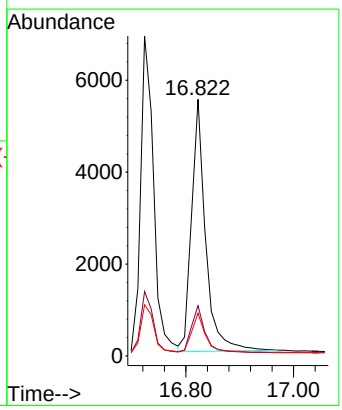
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

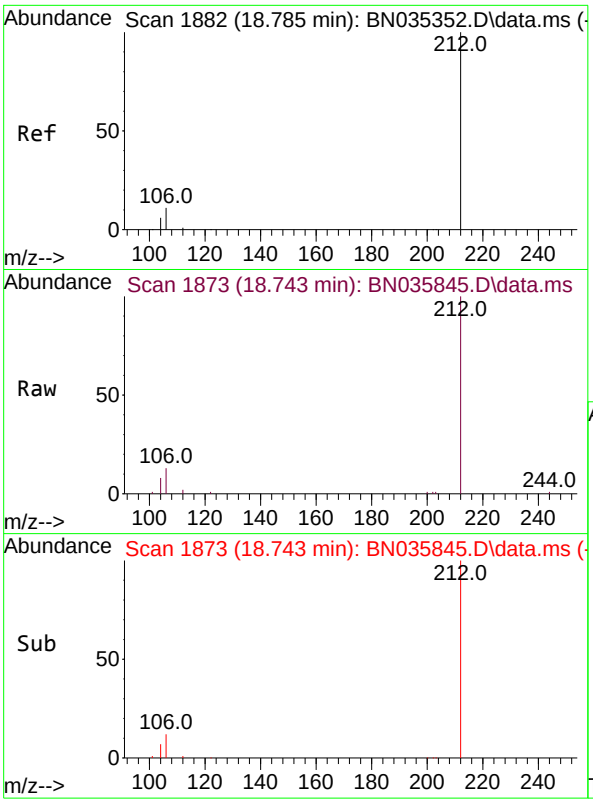


#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 10005

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8

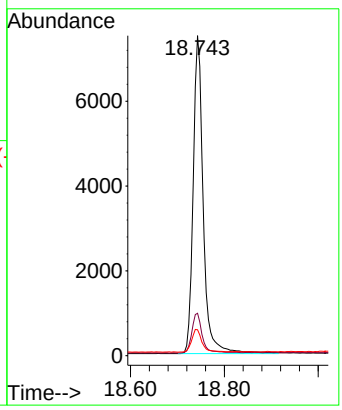




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:212 Resp: 1116

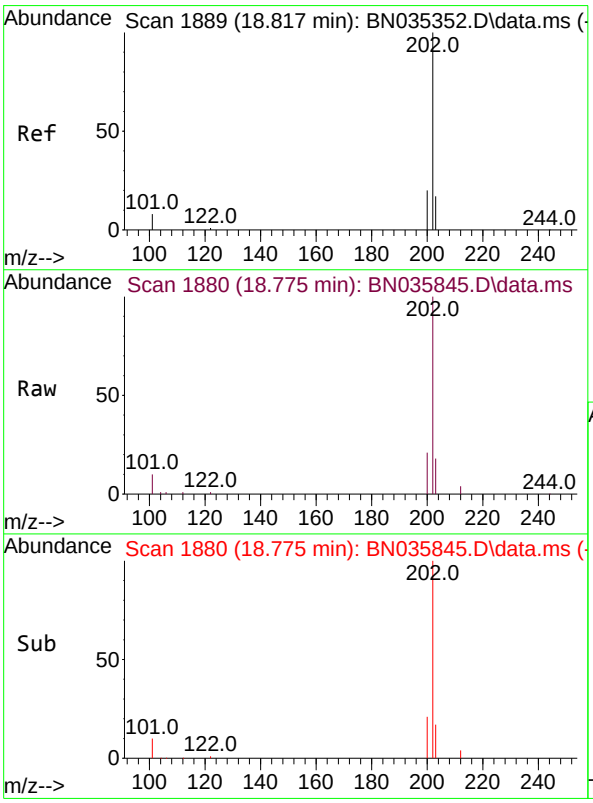
Ion	Ratio	Lower	Upper
212	100		
106	12.7	9.2	13.8
104	7.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

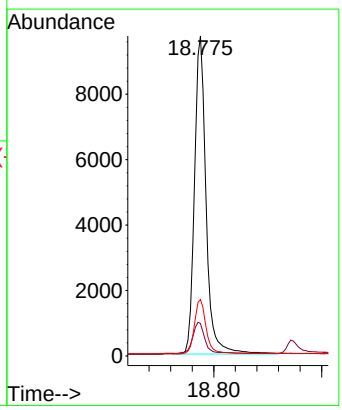
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

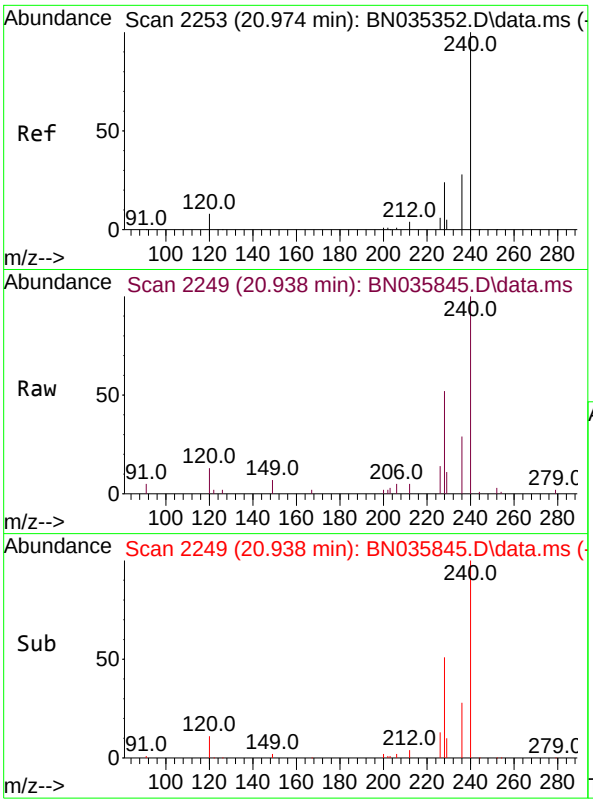


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 14489

Ion	Ratio	Lower	Upper
202	100		
101	10.7	7.4	11.0
203	17.0	13.7	20.5

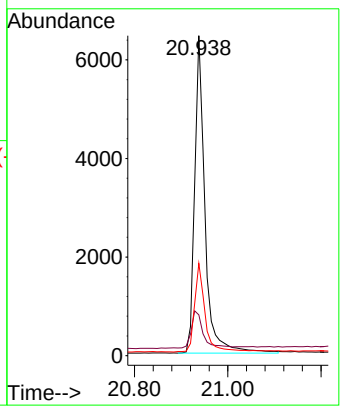




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:240 Resp: 993

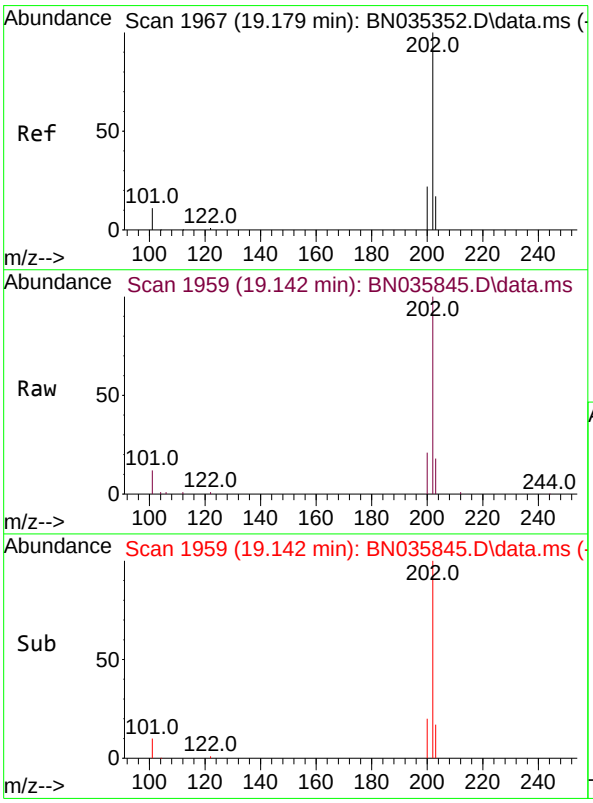
Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9
236	28.9	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

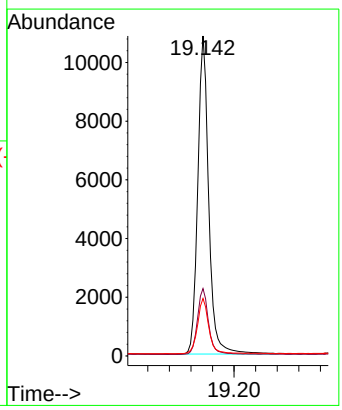
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

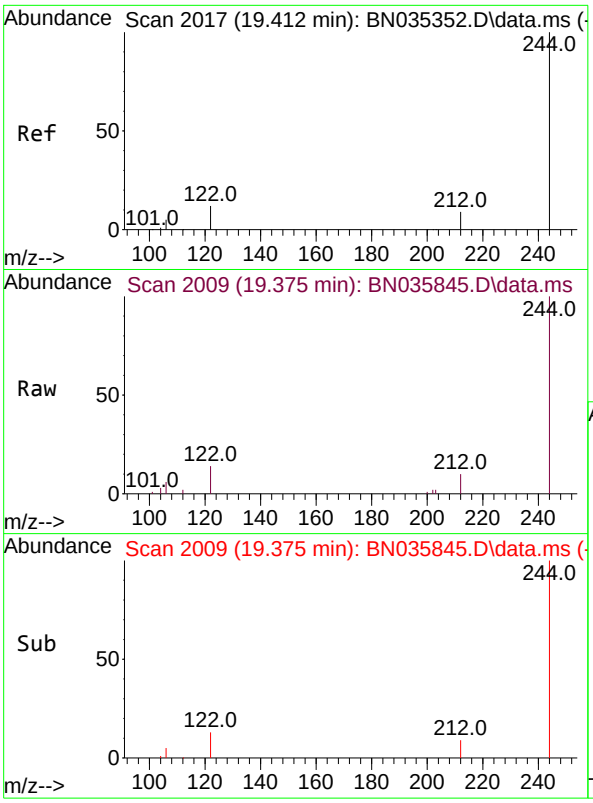


#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.9	14.3	21.5

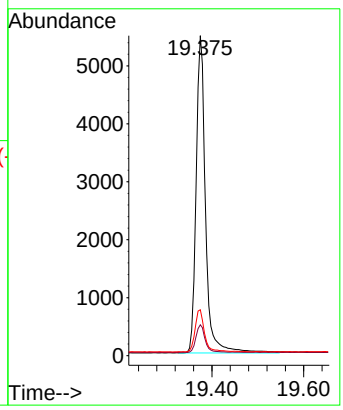




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:244 Resp: 778

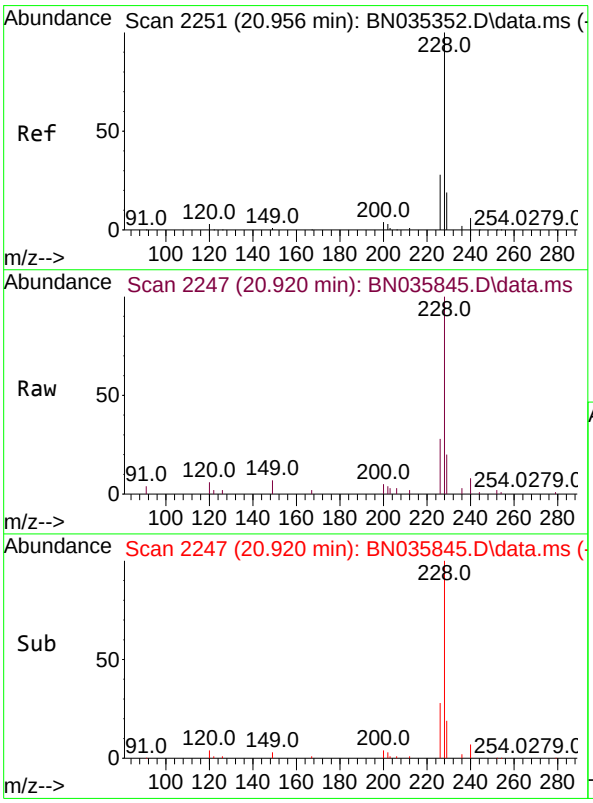
Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	14.4	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

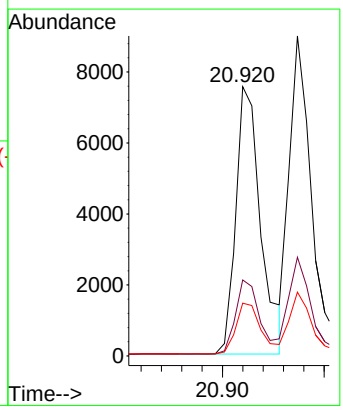
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

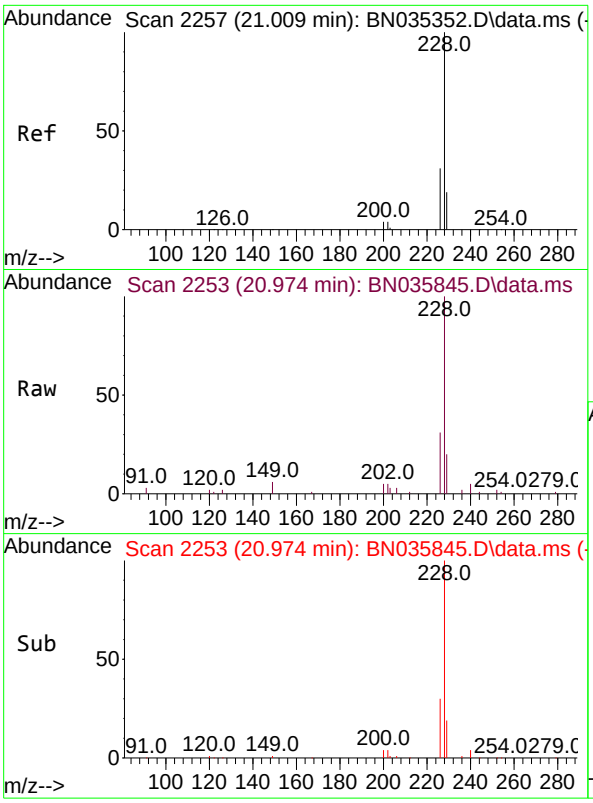


#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 12798

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8





#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

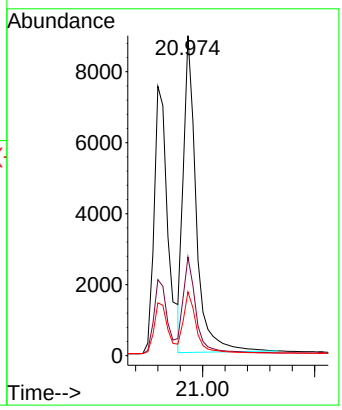
Tgt Ion:228 Resp: 1421

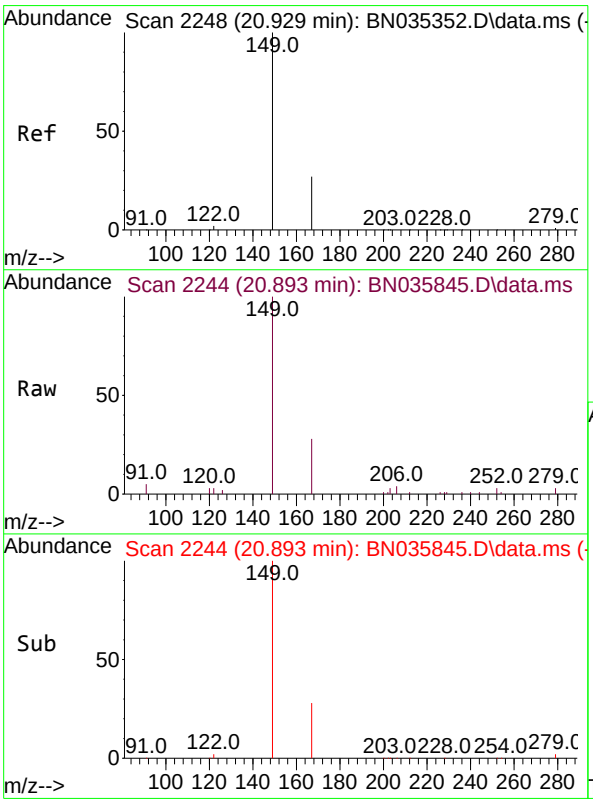
Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	20.0	15.9	23.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

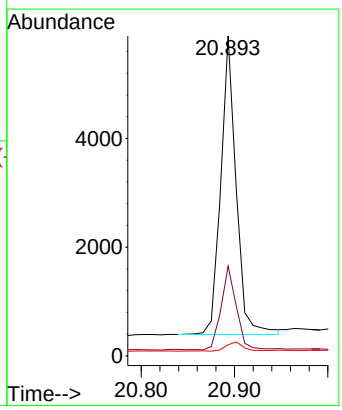


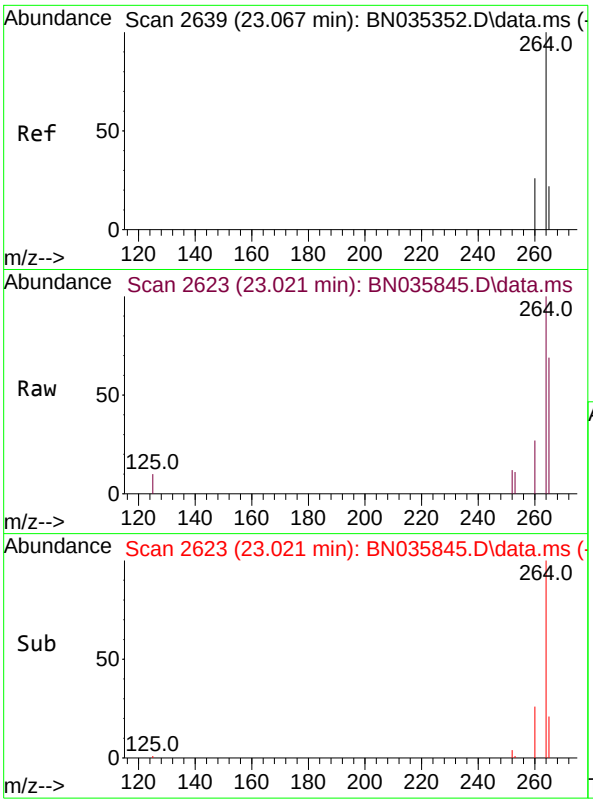


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:149 Resp: 6282

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.4	2.7	4.1

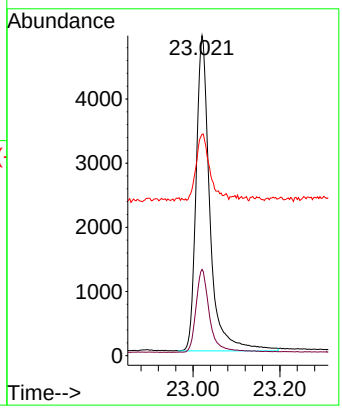




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:264 Resp: 1081

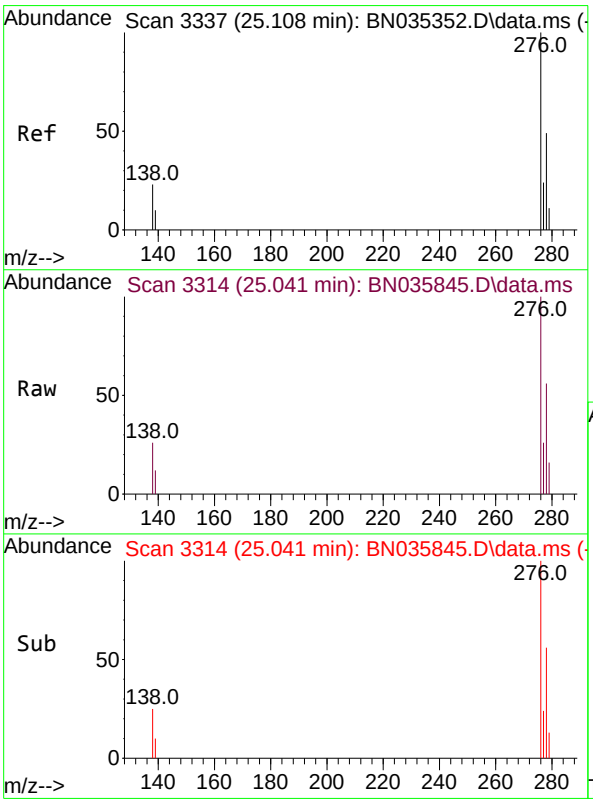
Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	69.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

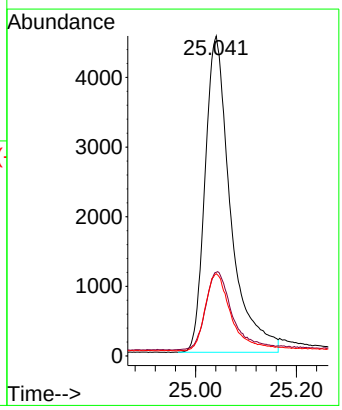
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

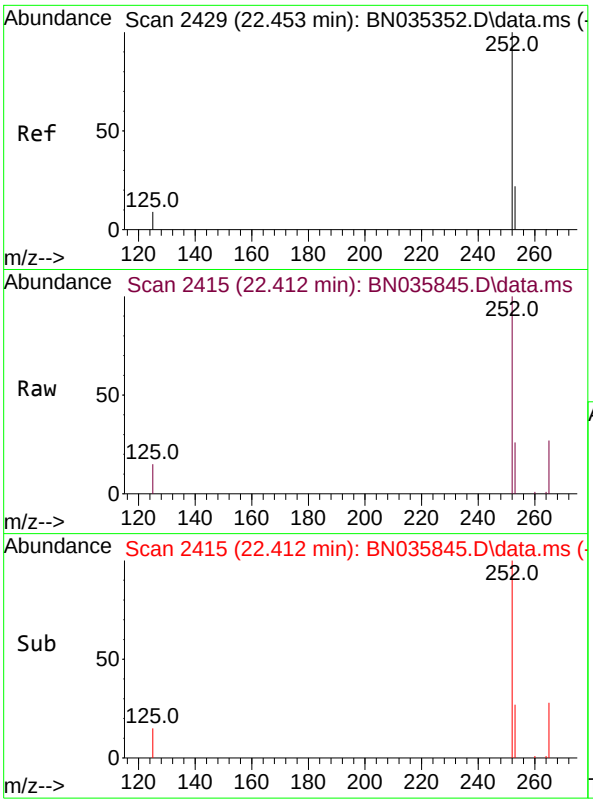


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946

Ion	Ratio	Lower	Upper
276	100		
138	26.4	19.4	29.0
277	25.7	19.8	29.6

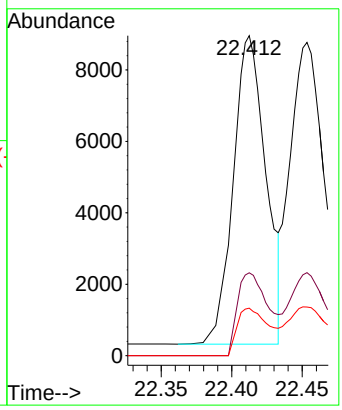




#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 1956

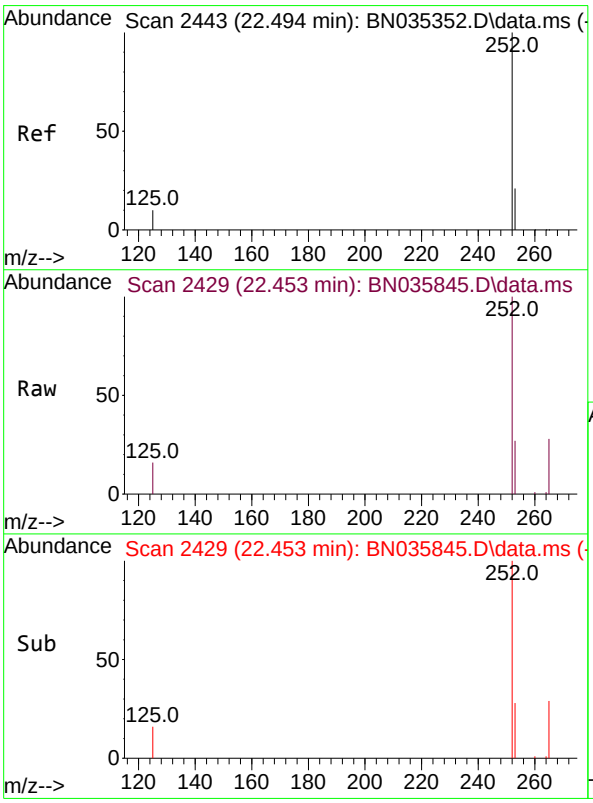
Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.9	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

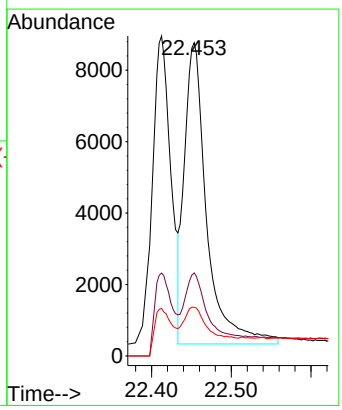
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

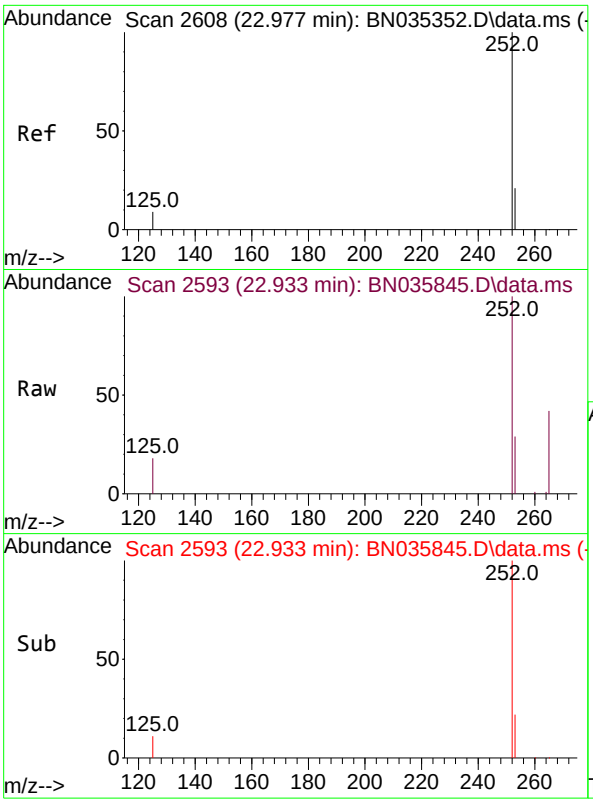


#38
Benzo(k)fluoranthene
Concen: 0.423 ng m
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 16469

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	15.5	10.2	15.4#

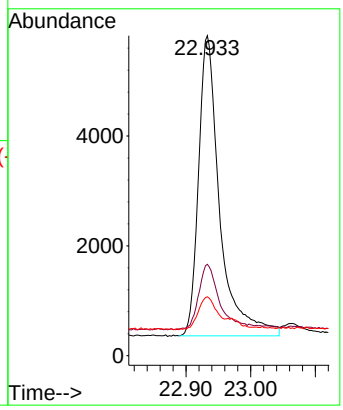




#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 1245

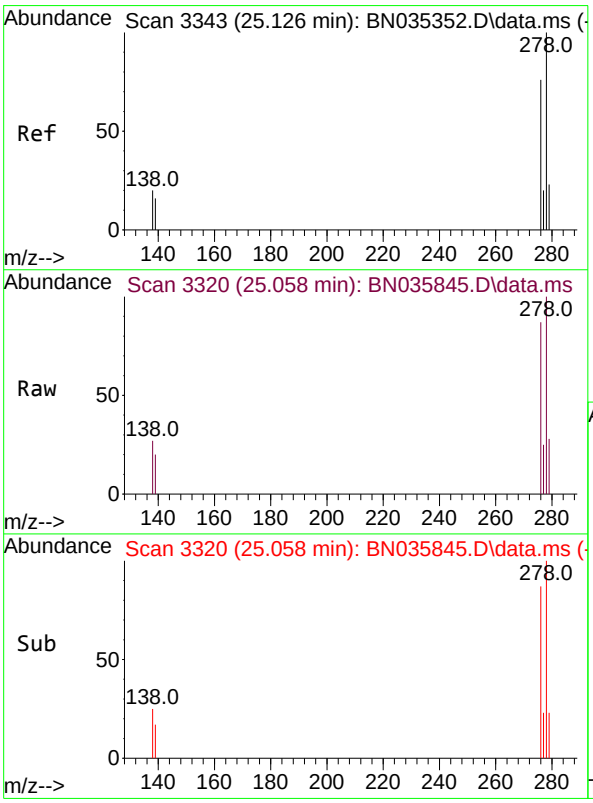
Ion	Ratio	Lower	Upper
252	100		
253	28.6	20.2	30.4
125	18.4	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

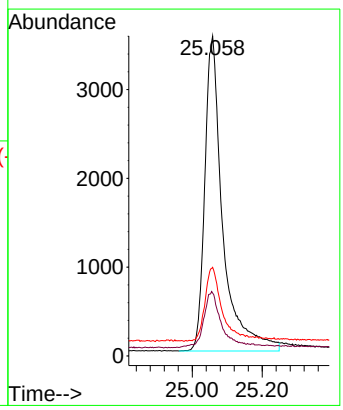
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

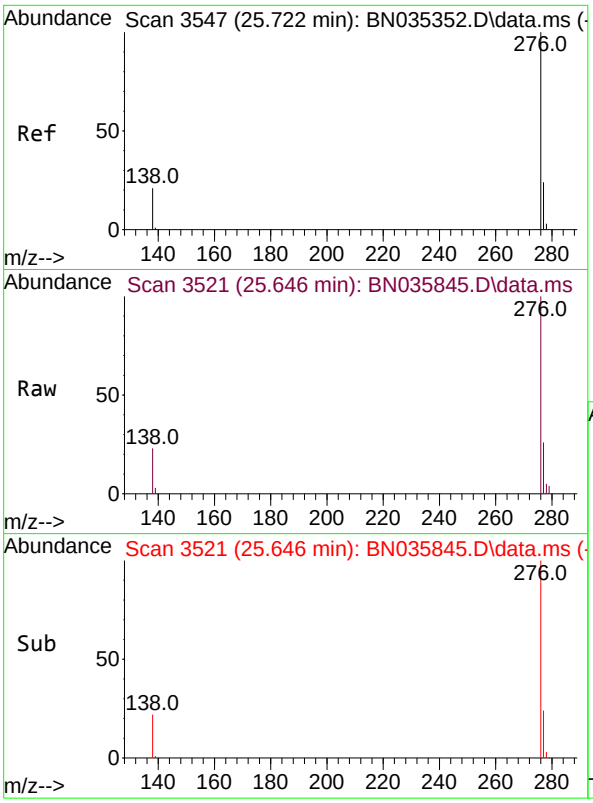


#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:278 Resp: 12678

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.7	20.5	30.7

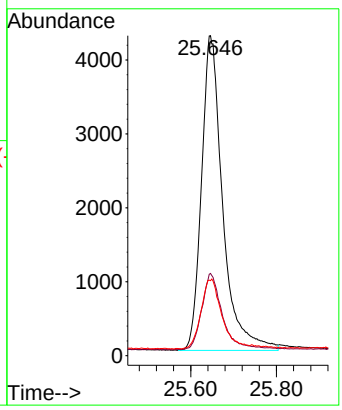




#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 1461

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	23.5	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	183#	-0.01
2		1,4-Dioxane	0.382	0.405	-6.0	197#	0.00
3		n-Nitrosodimethylamine	0.319	0.326	-2.2	183#	0.00
4	S	2-Fluorophenol	1.001	1.006	-0.5	181#	-0.01
5	S	Phenol-d6	1.204	1.112	7.6	171#	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.958	5.3	177#	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	178#	-0.02
8	S	Nitrobenzene-d5	0.244	0.298	-22.1	226#	-0.01
9		Naphthalene	1.055	1.013	4.0	172#	-0.02
10		Hexachlorobutadiene	0.243	0.252	-3.7	182#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.545	12.9	157#	-0.02
12		2-Methylnaphthalene	0.755	0.637	15.6	154#	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	142	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.248	12.7	137	-0.02
15	S	2-Fluorobiphenyl	1.512	1.504	0.5	141	-0.02
16		Acenaphthylene	1.680	1.548	7.9	138	-0.02
17		Acenaphthene	1.115	1.057	5.2	138	-0.02
18		Fluorene	1.596	1.397	12.5	128	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	119	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.047	-20.5	156#	-0.02
21		4-Bromophenyl-phenylether	0.234	0.217	7.3	114	-0.02
22		Hexachlorobenzene	0.275	0.309	-12.4	134	-0.02
23		Atrazine	0.167	0.164	1.8	126	-0.01
24		Pentachlorophenol	0.120	0.123	-2.5	153#	-0.01
25		Phenanthrene	1.099	1.030	6.3	115	-0.02
26		Anthracene	0.994	0.888	10.7	112	-0.01
27	SURR	Fluoranthene-d10	1.134	0.991	12.6	109	-0.02
28		Fluoranthene	1.481	1.287	13.1	108	-0.01
29	I	Chrysene-d12	1.000	1.000	0.0	104	-0.02
30		Pyrene	1.477	1.538	-4.1	109	-0.02
31	S	Terphenyl-d14	0.789	0.784	0.6	103	-0.01
32		Benzo(a)anthracene	1.399	1.289	7.9	99	-0.02
33		Chrysene	1.443	1.431	0.8	104	-0.02
34		Bis(2-ethylhexyl)phthalate	0.553	0.633	-14.5	128	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	100	-0.02
36		Indeno(1,2,3-cd)pyrene	1.564	1.474	5.8	96	-0.03
37		Benzo(b)fluoranthene	1.463	1.809	-23.7	137	-0.02
38		Benzo(k)fluoranthene	1.440	1.523	-5.8	108	-0.02
39	C	Benzo(a)pyrene	1.205	1.152	4.4	100	-0.02
40		Dibenzo(a,h)anthracene	1.234	1.172	5.0	98	-0.02
41		Benzo(g,h,i)perylene	1.289	1.351	-4.8	108	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	183	-0.01
2		1,4-Dioxane	0.400	0.423	-5.7	197	0.00
3		n-Nitrosodimethylamine	0.400	0.409	-2.2	183	0.00
4	S	2-Fluorophenol	0.400	0.402	-0.5	181	-0.01
5	S	Phenol-d6	0.400	0.369	7.8	171	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.379	5.3	177	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	178	-0.02
8	S	Nitrobenzene-d5	0.400	0.488	-22.0	226	-0.01
9		Naphthalene	0.400	0.384	4.0	172	-0.02
10		Hexachlorobutadiene	0.400	0.415	-3.7	182	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.348	13.0	157	-0.02
12		2-Methylnaphthalene	0.400	0.337	15.8	154	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	142	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.350	12.5	137	-0.02
15	S	2-Fluorobiphenyl	0.400	0.398	0.5	141	-0.02
16		Acenaphthylene	0.400	0.369	7.8	138	-0.02
17		Acenaphthene	0.400	0.379	5.3	138	-0.02
18		Fluorene	0.400	0.350	12.5	128	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	119	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.475	-18.7	156	-0.02
21		4-Bromophenyl-phenylether	0.400	0.371	7.3	114	-0.02
22		Hexachlorobenzene	0.400	0.450	-12.5	134	-0.02
23		Atrazine	0.400	0.393	1.8	126	-0.01
24		Pentachlorophenol	0.400	0.411	-2.7	153	-0.01
25		Phenanthrene	0.400	0.375	6.3	115	-0.02
26		Anthracene	0.400	0.358	10.5	112	-0.01
27	SURR	Fluoranthene-d10	0.400	0.350	12.5	109	-0.02
28		Fluoranthene	0.400	0.347	13.3	108	-0.01
29	I	Chrysene-d12	0.400	0.400	0.0	104	-0.02
30		Pyrene	0.400	0.417	-4.2	109	-0.02
31	S	Terphenyl-d14	0.400	0.397	0.8	103	-0.01
32		Benzo(a)anthracene	0.400	0.368	8.0	99	-0.02
33		Chrysene	0.400	0.397	0.8	104	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.458	-14.5	128	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	100	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.377	5.8	96	-0.03
37		Benzo(b)fluoranthene	0.400	0.494	-23.5	137	-0.02
38		Benzo(k)fluoranthene	0.400	0.423	-5.7	108	-0.02
39	C	Benzo(a)pyrene	0.400	0.382	4.5	100	-0.02
40		Dibenzo(a,h)anthracene	0.400	0.380	5.0	98	-0.02
41		Benzo(g,h,i)perylene	0.400	0.419	-4.7	108	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 19:41

Lab File ID: BN035861.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.551		-12.0	50.0
Fluoranthene-d10	1.134	0.922		-18.7	50.0
2-Fluorophenol	1.001	0.931		-7.0	50.0
Phenol-d6	1.204	1.022		-15.1	50.0
Nitrobenzene-d5	0.244	0.306		25.4	50.0
2-Fluorobiphenyl	1.512	1.480		-2.1	50.0
2,4,6-Tribromophenol	0.284	0.225		-20.8	50.0
Terphenyl-d14	0.789	0.898		13.8	50.0
1,4-Dioxane	0.382	0.394		3.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng		#-0.01
29) Chrysene-d12	20.947	240	6021	0.400	ng		# 0.00
35) Perylene-d12	23.026	264	5699	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	2874	0.372	ng		-0.01
5) Phenol-d6	6.470	99	3155	0.340	ng		-0.02
8) Nitrobenzene-d5	8.397	82	2215m	0.501	ng		-0.01
11) 2-Methylnaphthalene-d10	11.605	152	3987	0.352	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	1008	0.318	ng		-0.01
15) 2-Fluorobiphenyl	12.528	172	6619	0.392	ng		-0.02
27) Fluoranthene-d10	18.747	212	8643	0.325	ng		-0.01
31) Terphenyl-d14	19.379	244	5407	0.455	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1215	0.412	ng		96
3) n-Nitrosodimethylamine	3.271	42	1021	0.415	ng	#	90
6) bis(2-Chloroethyl)ether	6.708	93	2725	0.349	ng		98
9) Naphthalene	10.052	128	7516	0.394	ng		100
10) Hexachlorobutadiene	10.340	225	1992	0.452	ng	#	99
12) 2-Methylnaphthalene	11.682	142	4745	0.347	ng		99
16) Acenaphthylene	13.625	152	6923	0.369	ng		100
17) Acenaphthene	13.978	154	4776	0.383	ng		99
18) Fluorene	14.983	166	6478	0.363	ng		99
20) 4,6-Dinitro-2-methylph...	15.111	198	453	0.492	ng	#	67
21) 4-Bromophenyl-phenylether	15.904	248	2071	0.378	ng	#	96
22) Hexachlorobenzene	15.991	284	3015	0.468	ng		98
23) Atrazine	16.202	200	1507	0.386	ng		94
24) Pentachlorophenol	16.363	266	846	0.302	ng	#	84
25) Phenanthrene	16.736	178	9697	0.377	ng		100
26) Anthracene	16.822	178	8100	0.348	ng		99
28) Fluoranthene	18.780	202	11145	0.321	ng		99
30) Pyrene	19.147	202	11492	0.517	ng		99
32) Benzo(a)anthracene	20.929	228	6901	0.328	ng		99
33) Chrysene	20.983	228	9578	0.441	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4069	0.489	ng		99
36) Indeno(1,2,3-cd)pyrene	25.050	276	9030	0.405	ng		98
37) Benzo(b)fluoranthene	22.418	252	11803	0.566	ng	#	92
38) Benzo(k)fluoranthene	22.459	252	9638	0.470	ng	#	90
39) Benzo(a)pyrene	22.939	252	6641	0.387	ng	#	82
40) Dibenzo(a,h)anthracene	25.070	278	6633	0.377	ng	#	91
41) Benzo(g,h,i)perylene	25.652	276	8300	0.452	ng		95

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

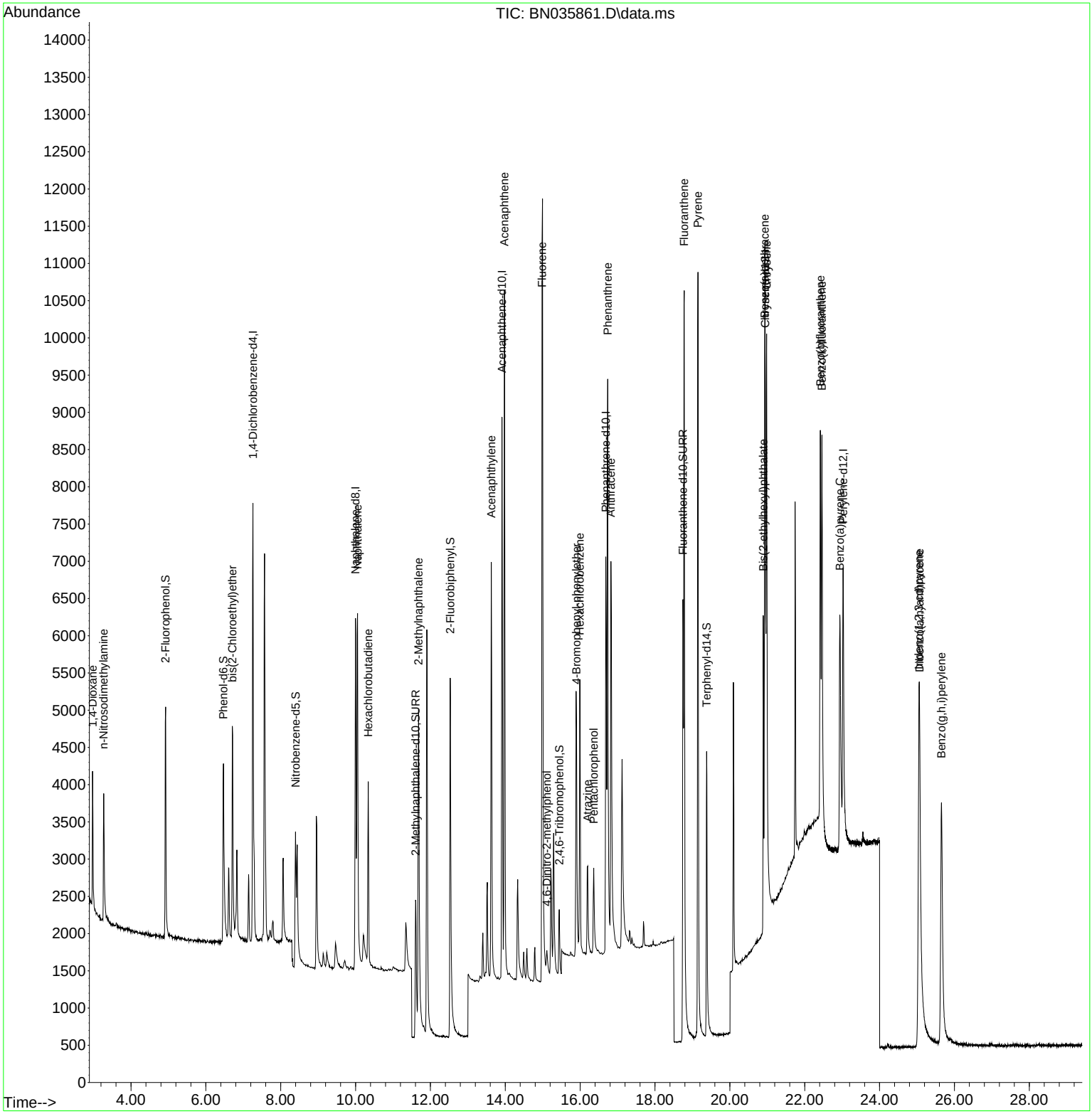
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Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

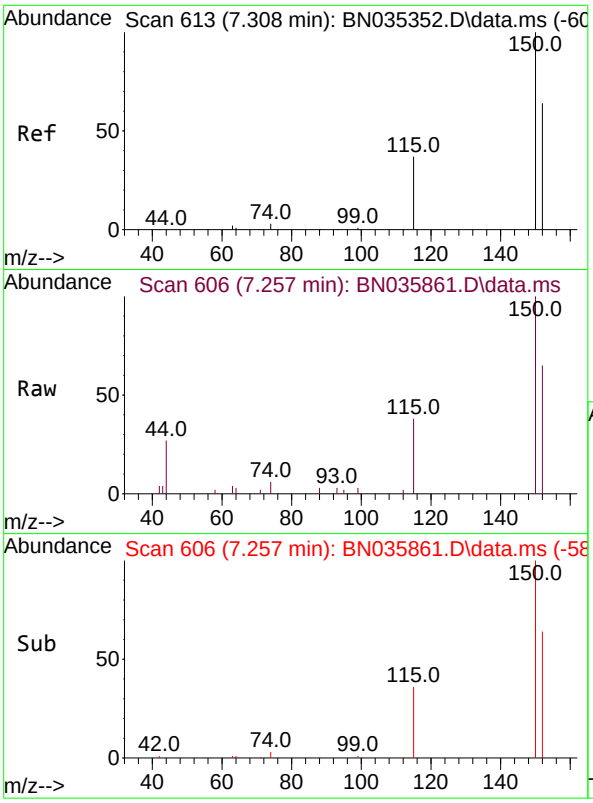
Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

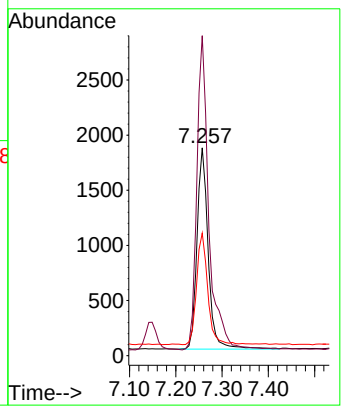




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 308

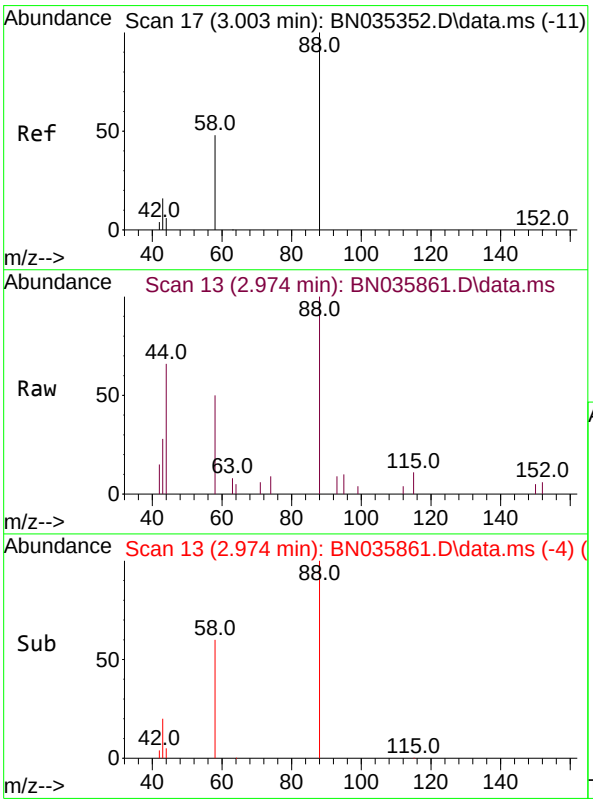
Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.0	186.0
115	58.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

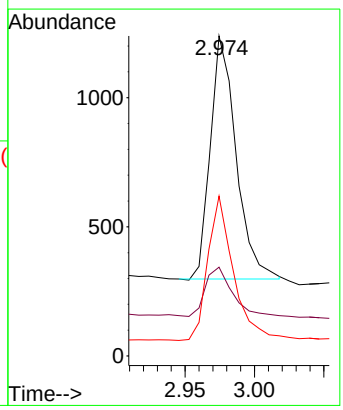
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

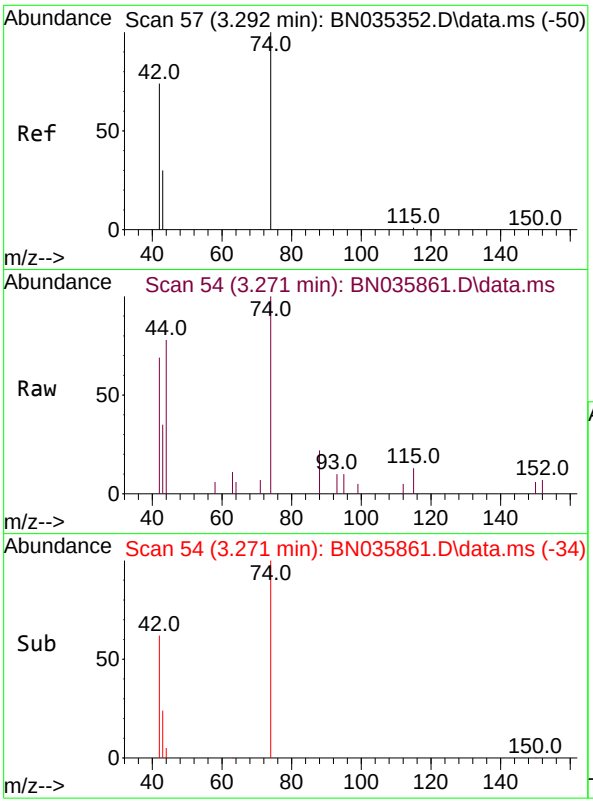


#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 88 Resp: 1215

Ion	Ratio	Lower	Upper
88	100		
43	20.1	17.2	25.8
58	59.1	44.5	66.7

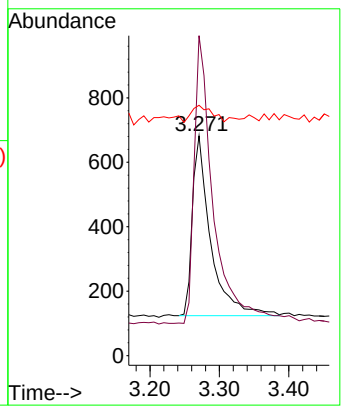




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

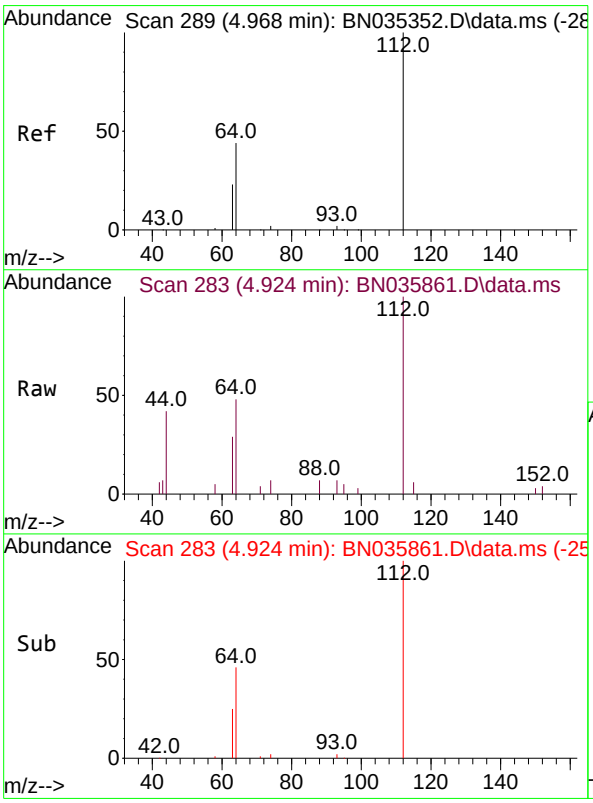
Tgt Ion: 42 Resp: 102

Ion	Ratio	Lower	Upper
42	100		
74	169.1	124.9	187.3
44	10.6	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

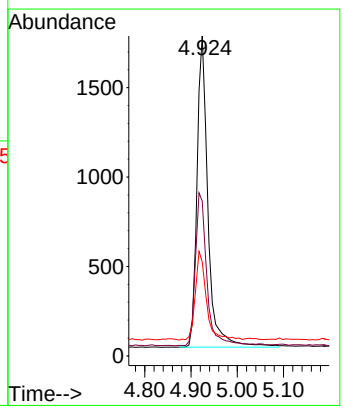
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

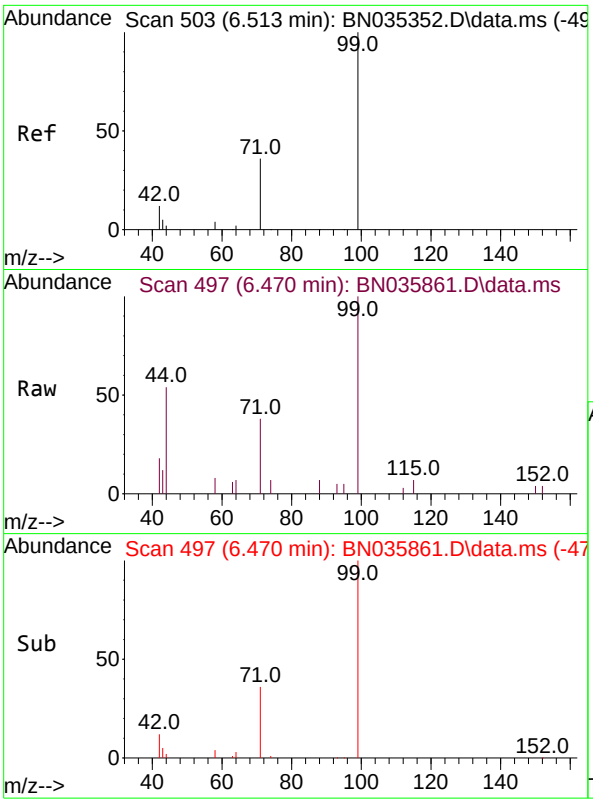


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:112 Resp: 2874

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	28.9	21.0	31.6

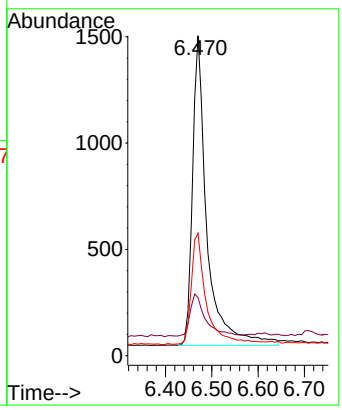




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 99 Resp: 315

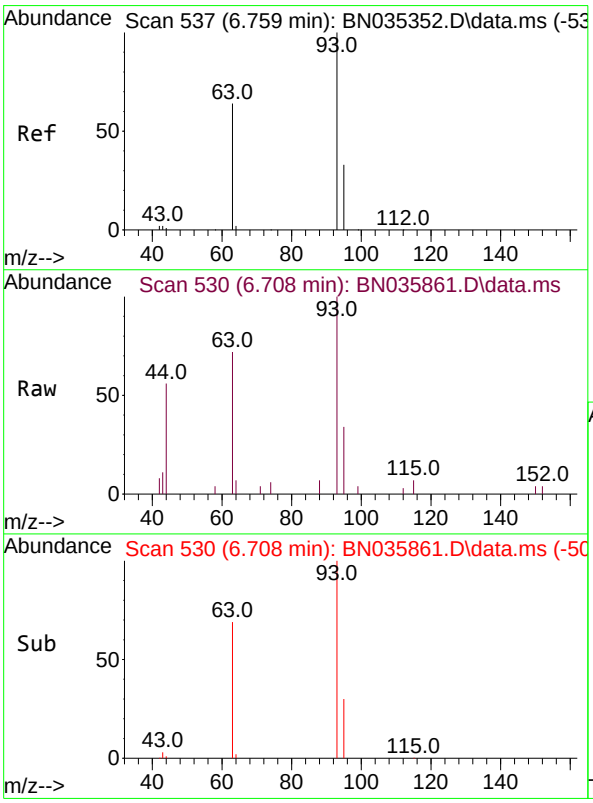
Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

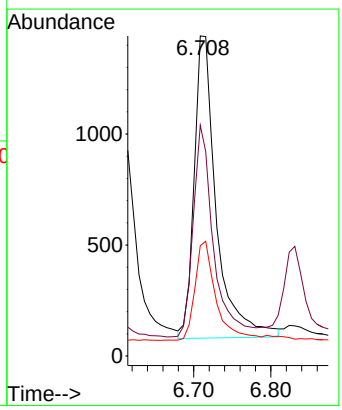
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

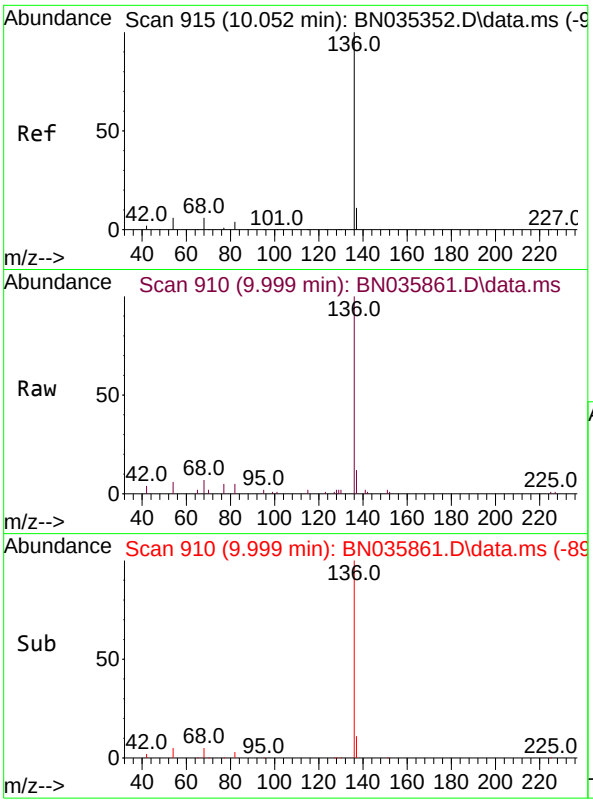


#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725

Ion	Ratio	Lower	Upper
93	100		
63	64.1	50.4	75.6
95	31.0	25.7	38.5

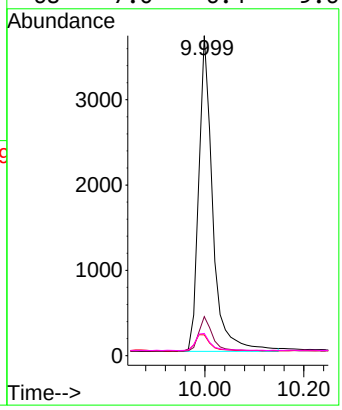




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:136 Resp: 723

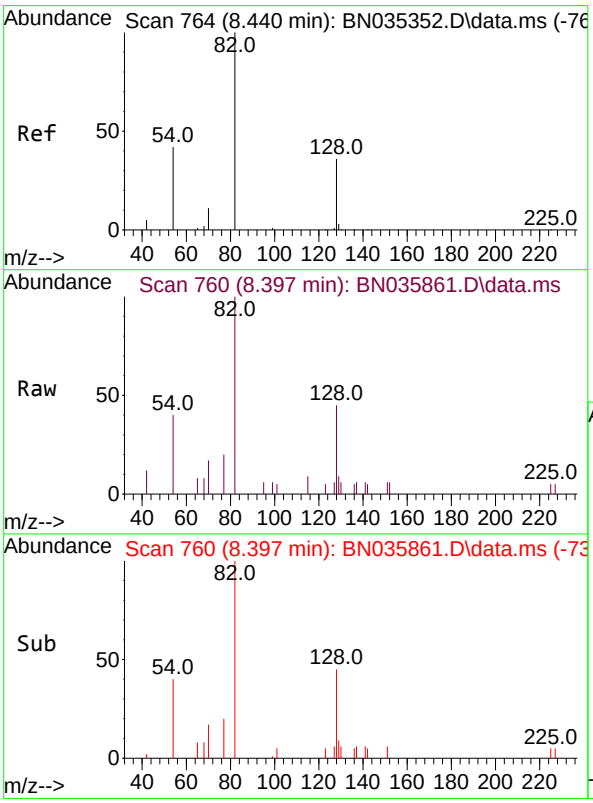
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.5	6.1	9.1
68	7.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

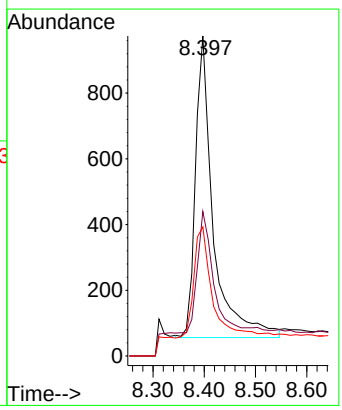
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

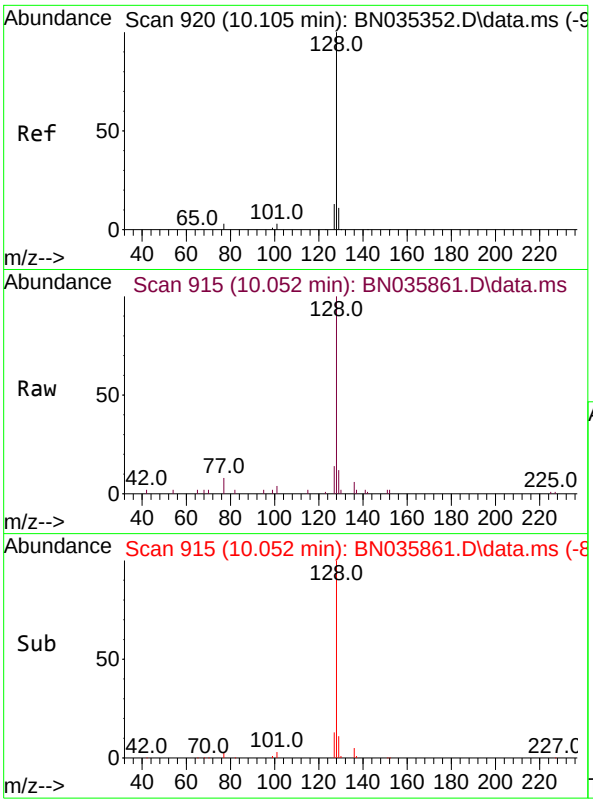


#8
Nitrobenzene-d5
Concen: 0.501 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 82 Resp: 2215

Ion	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.3	36.7	55.1

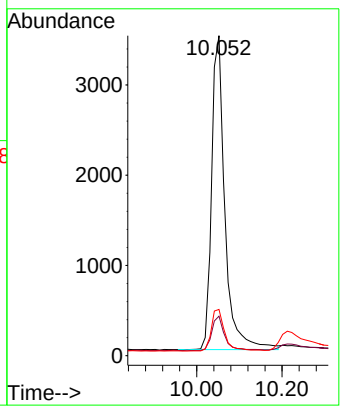




#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:128 Resp: 751

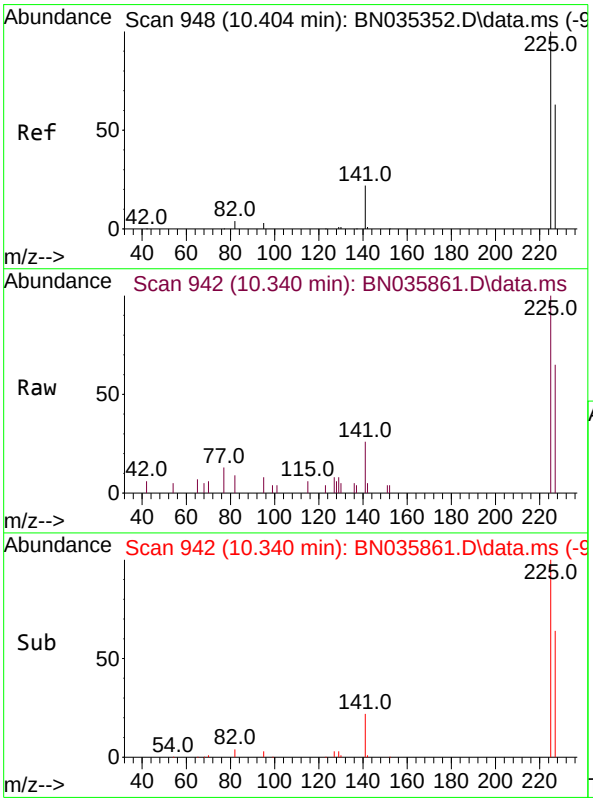
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.5	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

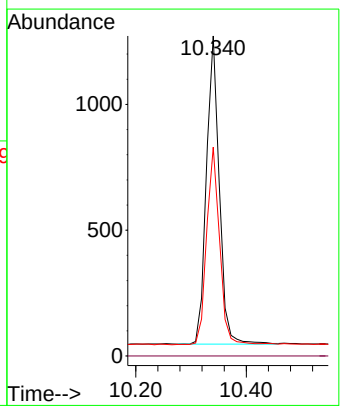
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

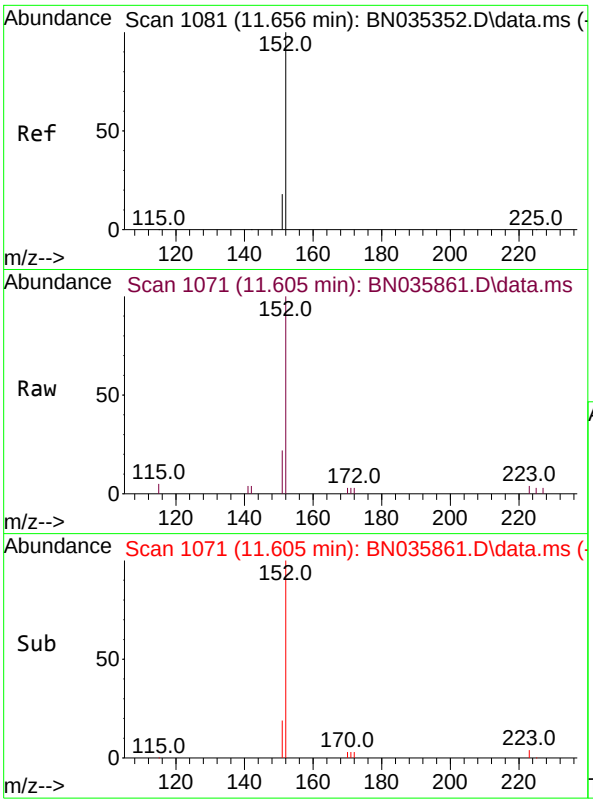


#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:225 Resp: 1992

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9

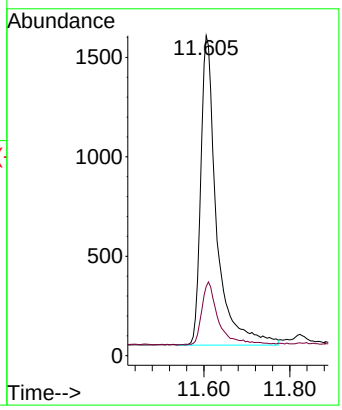




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 398

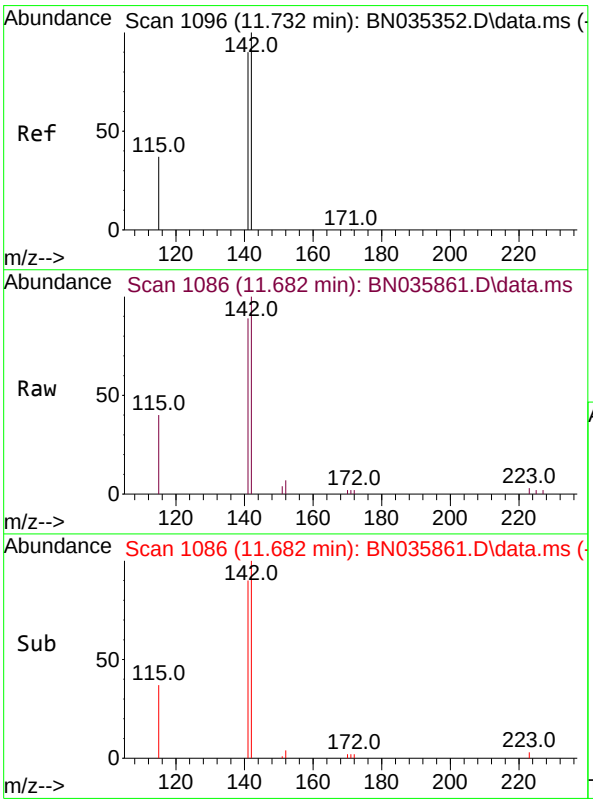
Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

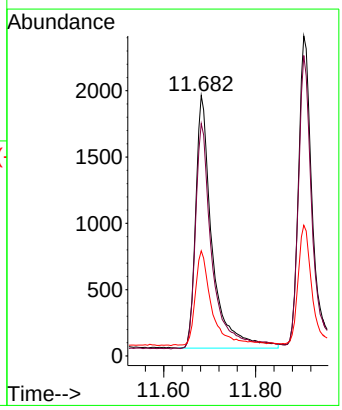
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

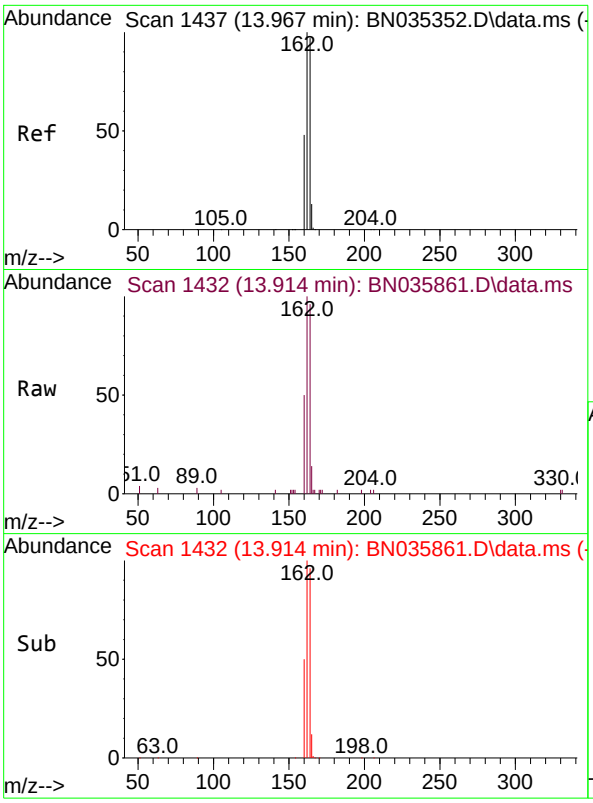


#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:142 Resp: 4745

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.4	31.4	47.0

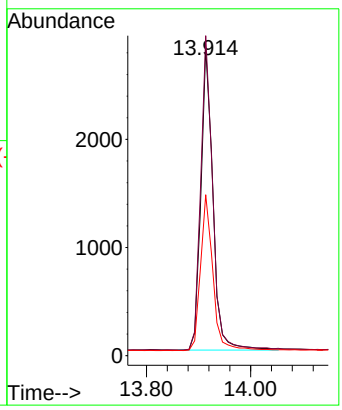




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:164 Resp: 447

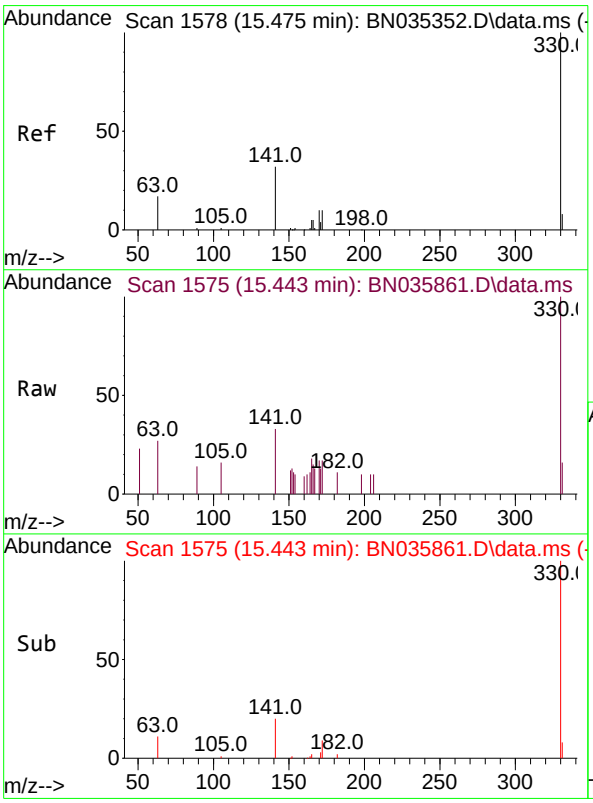
Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.2	123.2
160	52.3	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

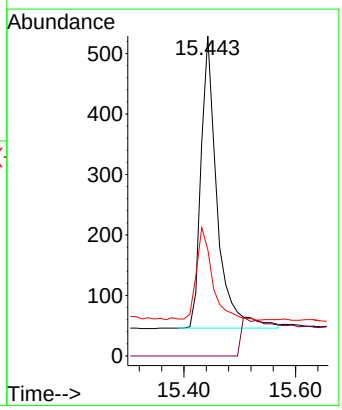
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

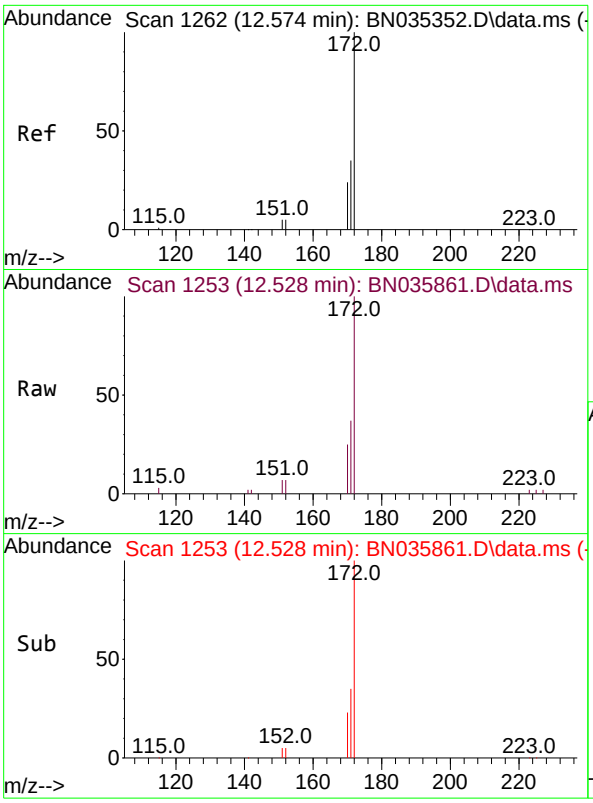


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.5	26.6	40.0

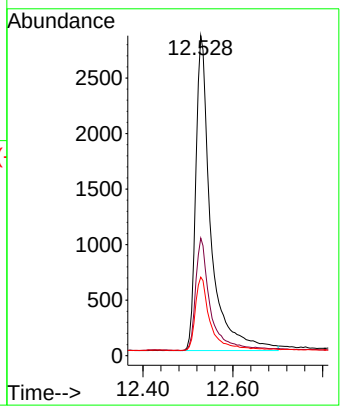




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:172 Resp: 661

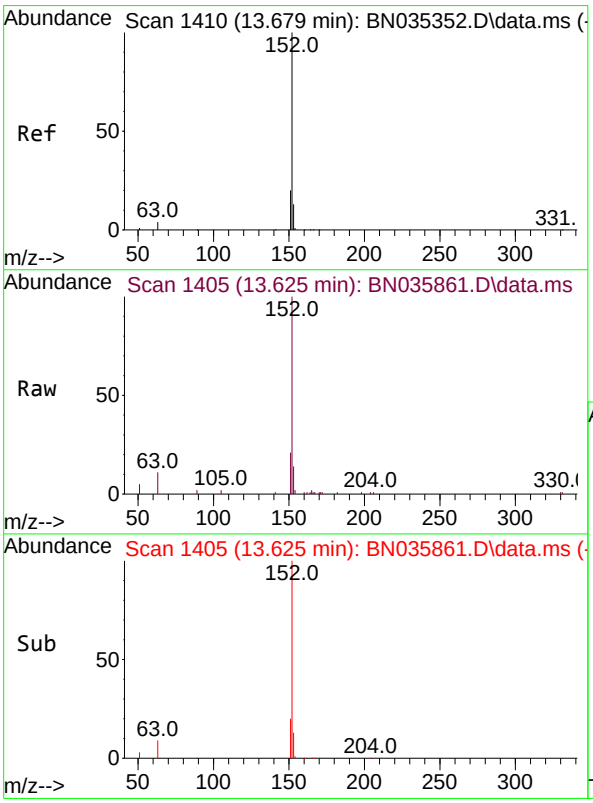
Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.0	43.4
170	24.5	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

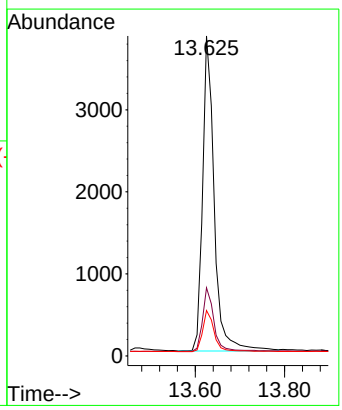
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

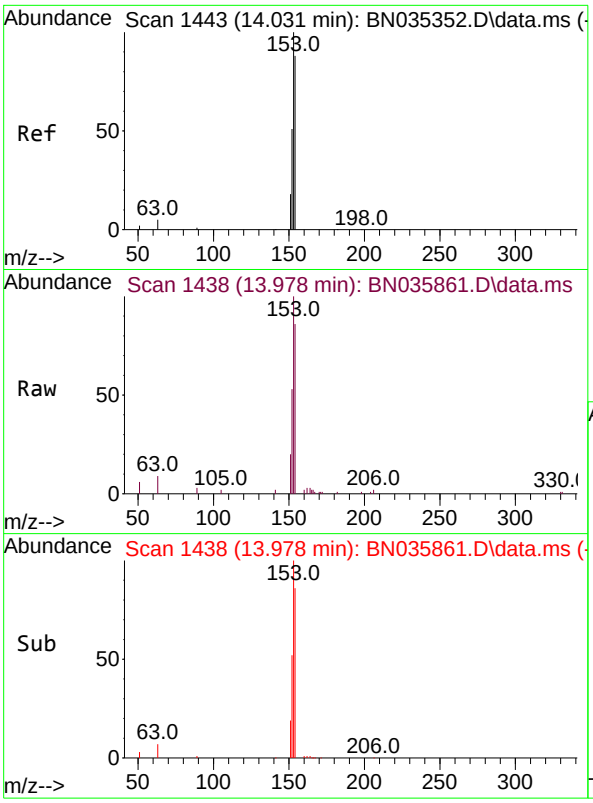


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 6923

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.0	10.4	15.6

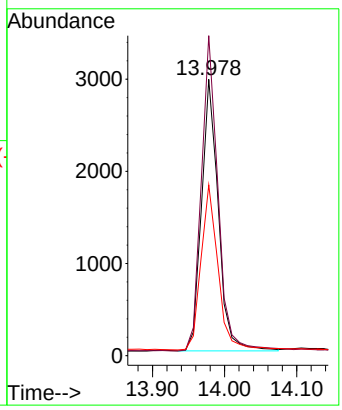




#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:154 Resp: 477(

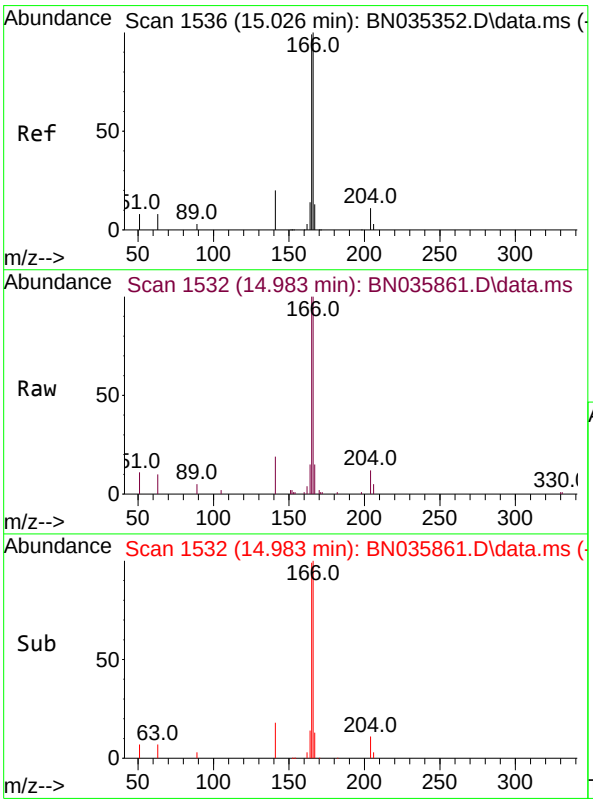
Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	62.6	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

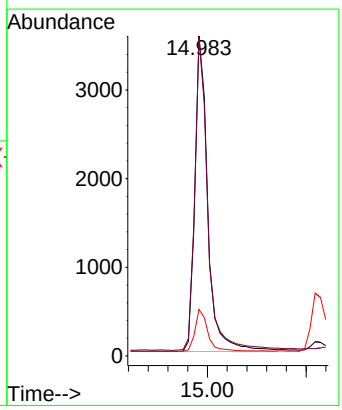
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

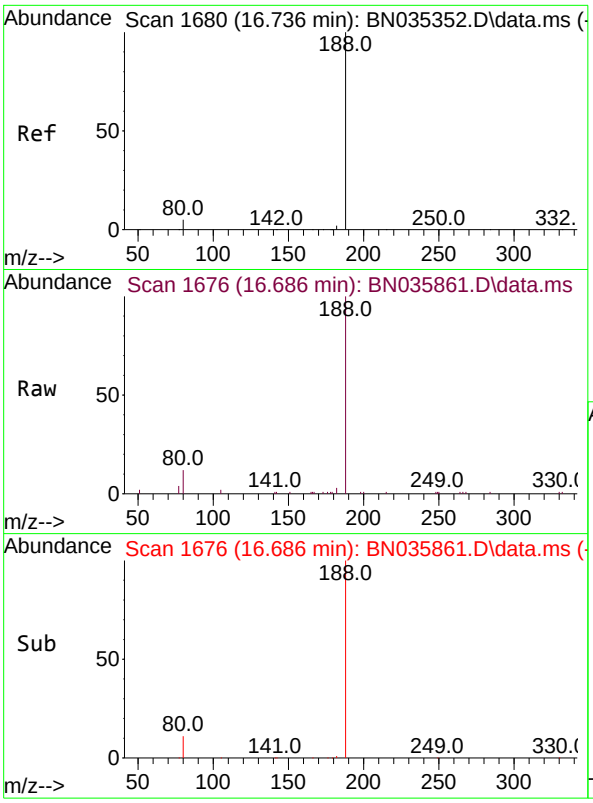


#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.6	10.8	16.2

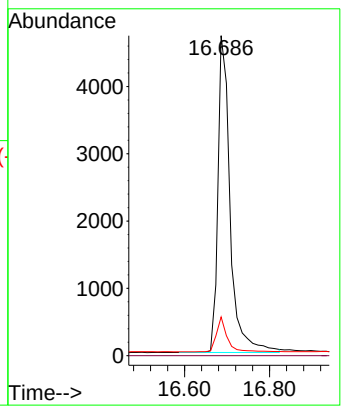




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:188 Resp: 937

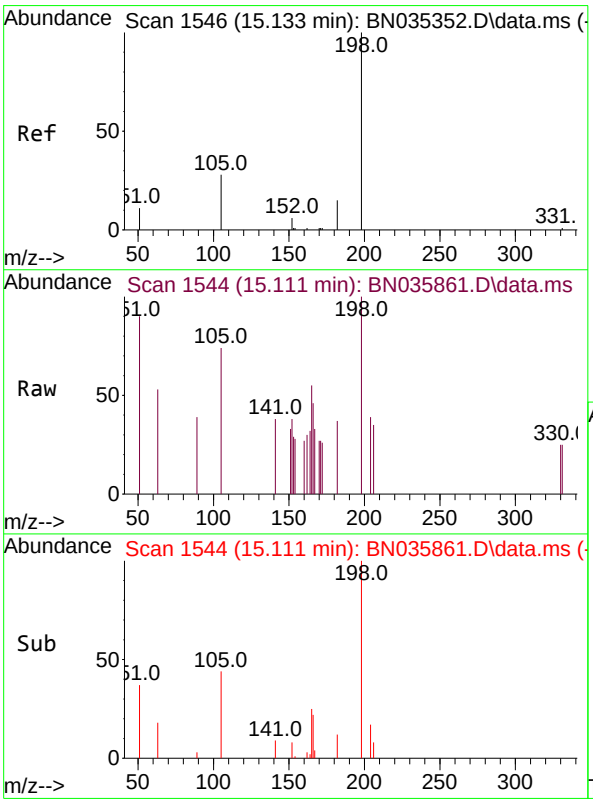
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

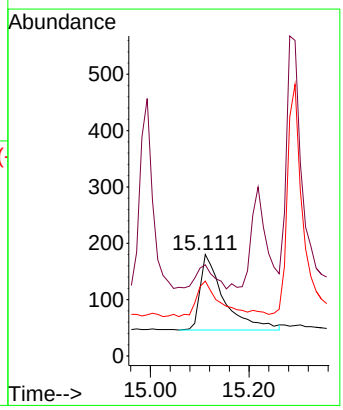
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

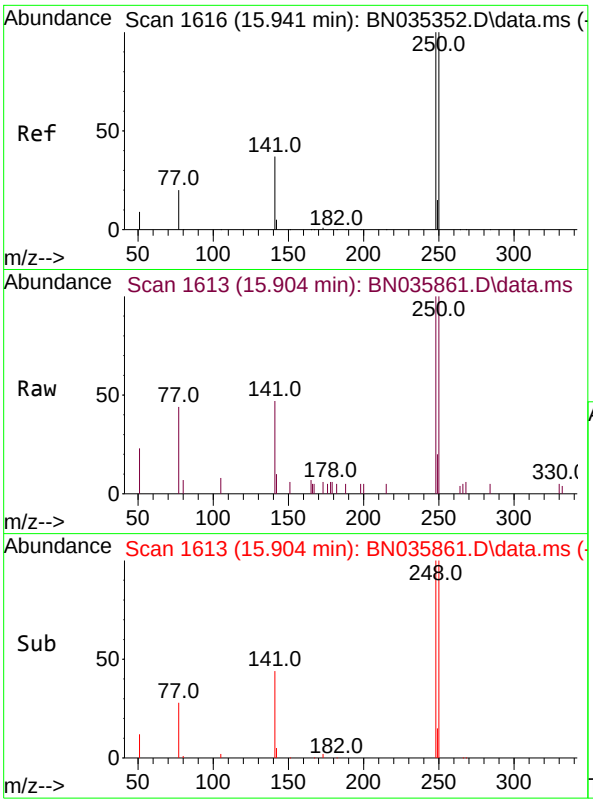


#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:198 Resp: 453

Ion	Ratio	Lower	Upper
198	100		
51	90.0	46.5	69.7#
105	73.9	45.3	67.9#

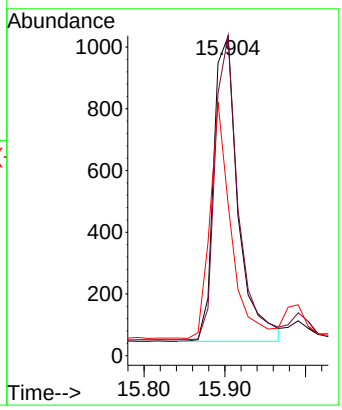




#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:248 Resp: 207

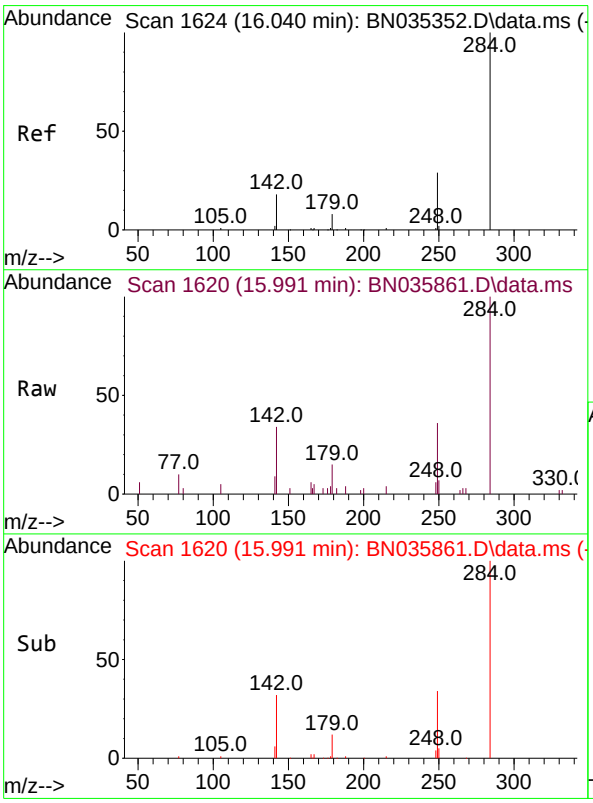
Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.6	120.8
141	47.4	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

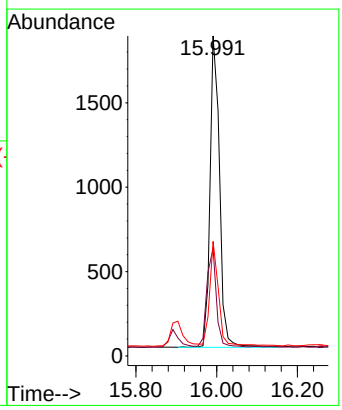
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

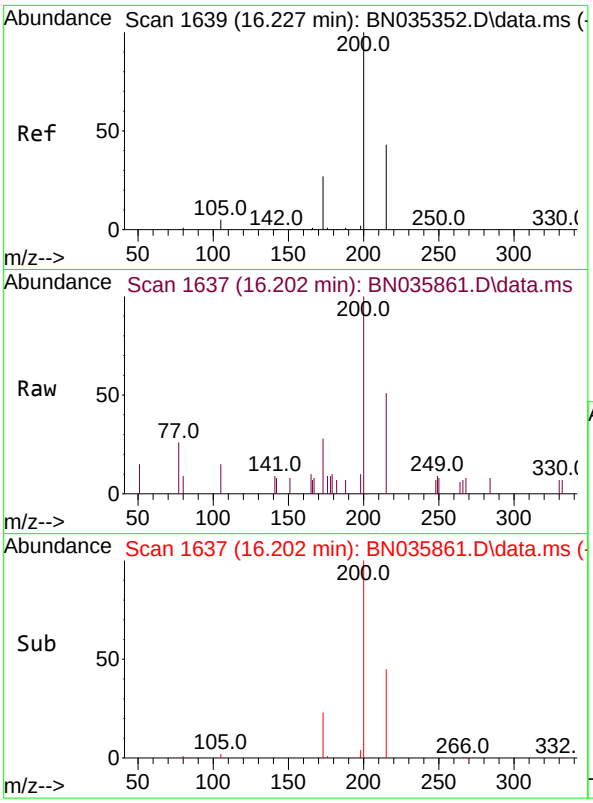


#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015

Ion	Ratio	Lower	Upper
284	100		
142	31.5	26.7	40.1
249	31.2	24.6	36.8

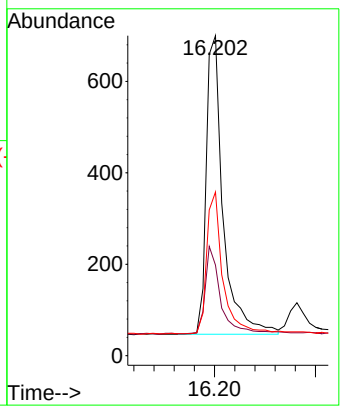




#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:200 Resp: 150

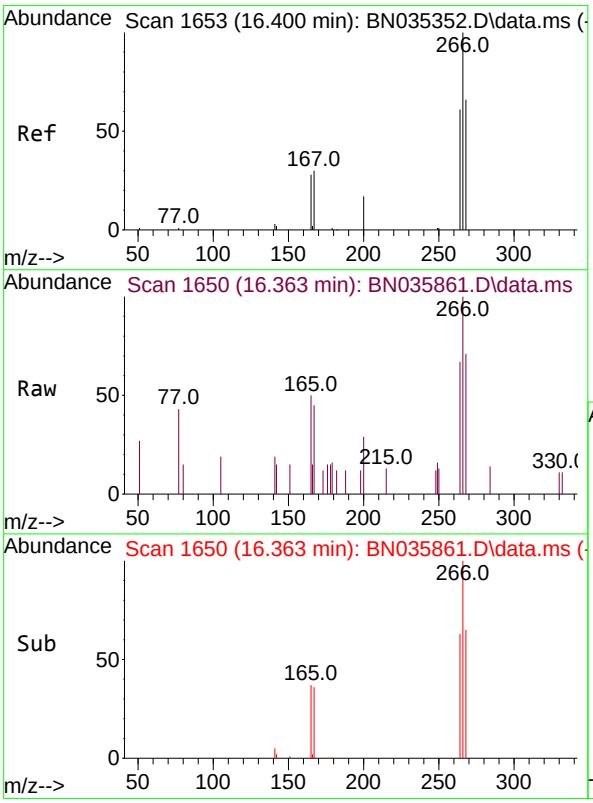
Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	51.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

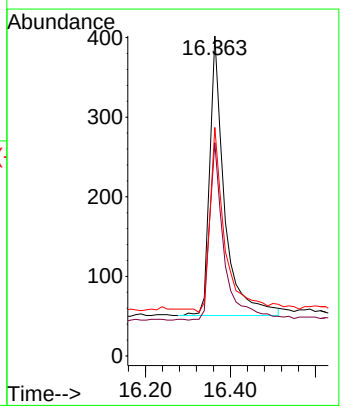
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

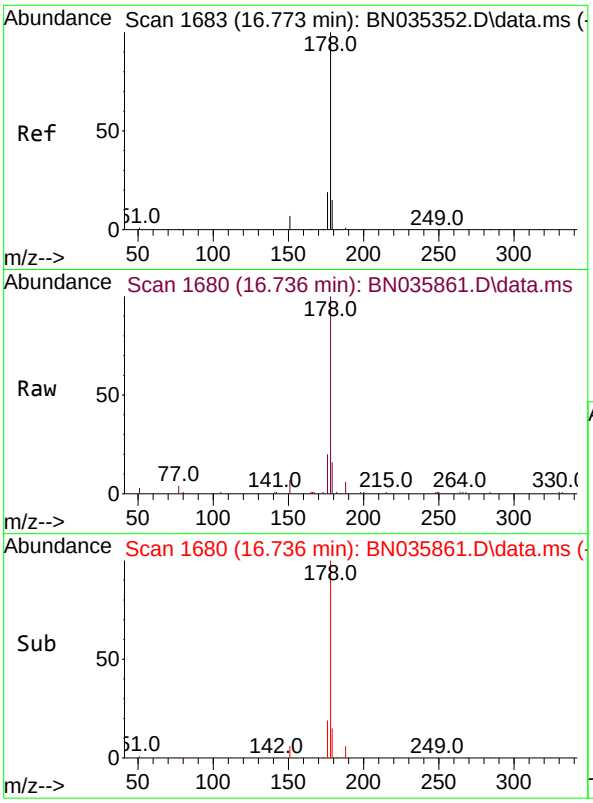


#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846

Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	67.7	43.3	64.9#

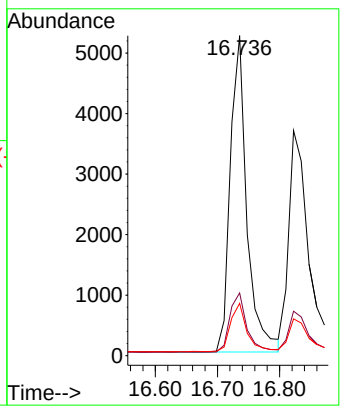




#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 969

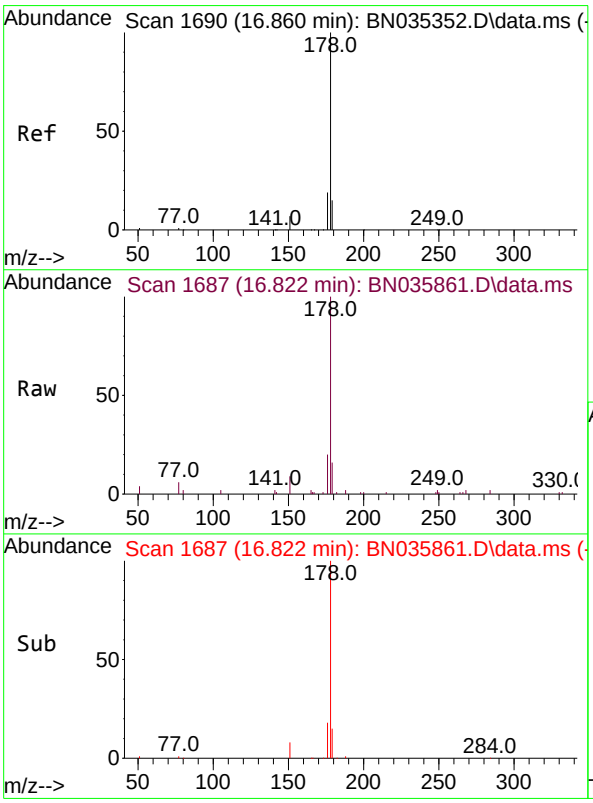
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.3	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

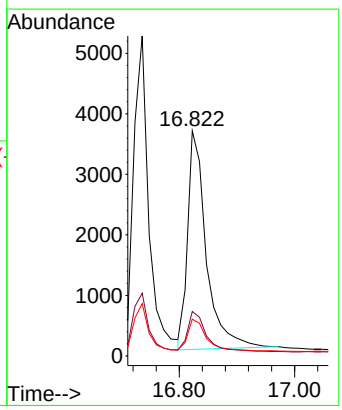
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

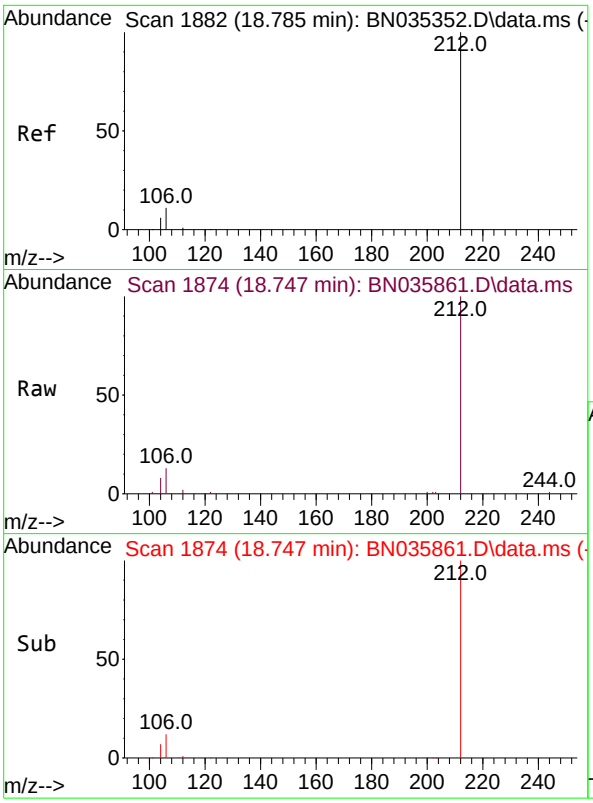


#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 8100

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.3	12.6	18.8

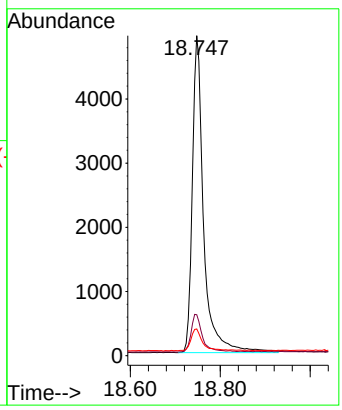




#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:212 Resp: 864

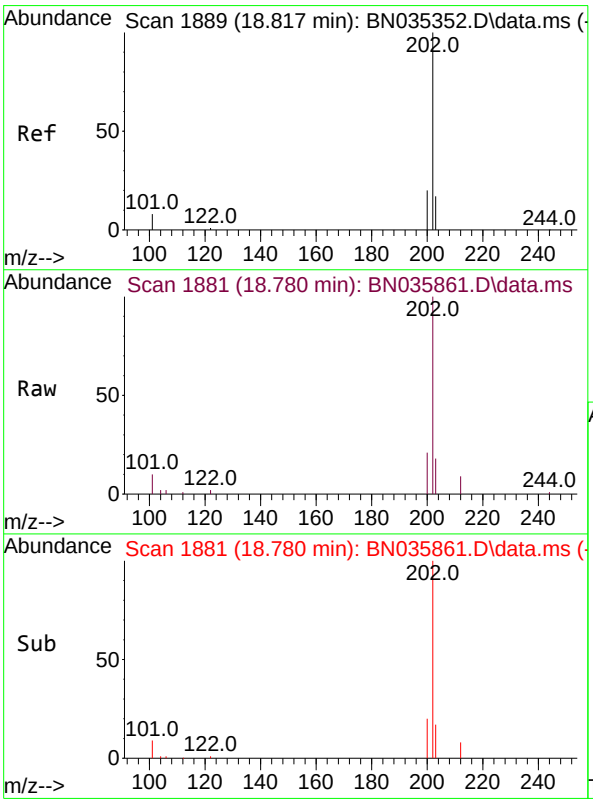
Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	7.0	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

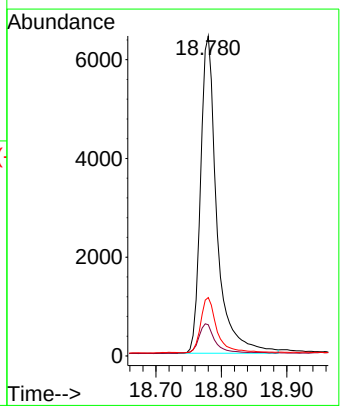
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

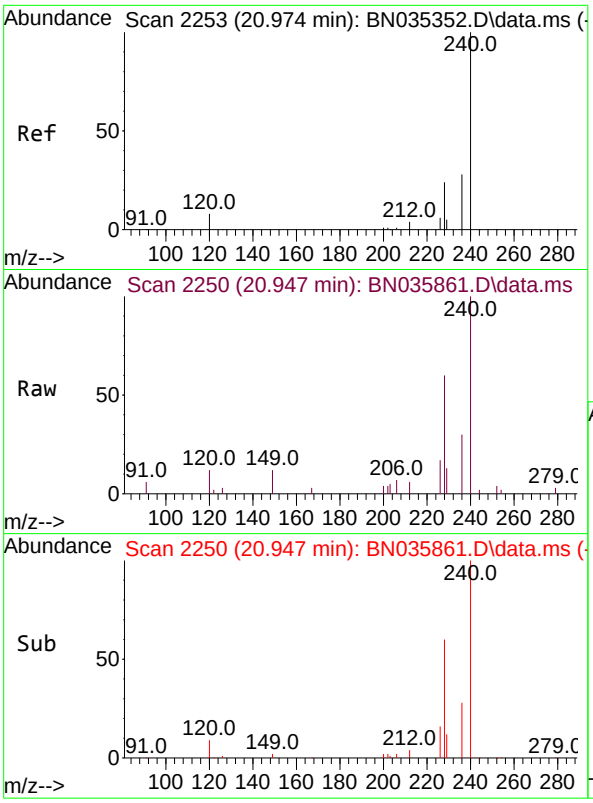


#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.4	11.0
203	17.4	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

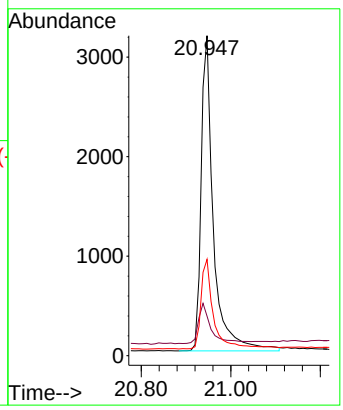
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

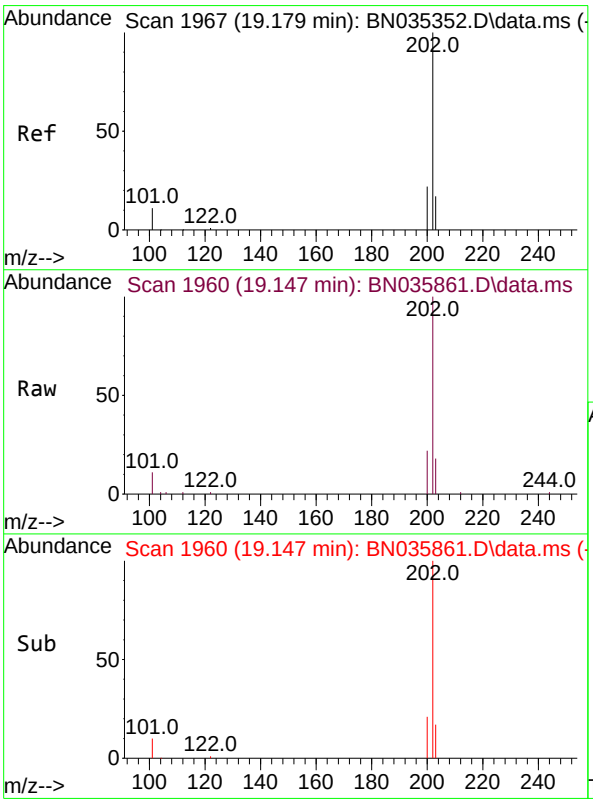
Tgt Ion:240 Resp: 602

Ion	Ratio	Lower	Upper
240	100		
120	12.3	7.9	11.9
236	30.1	22.9	34.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

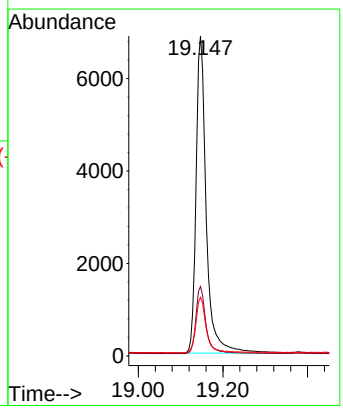


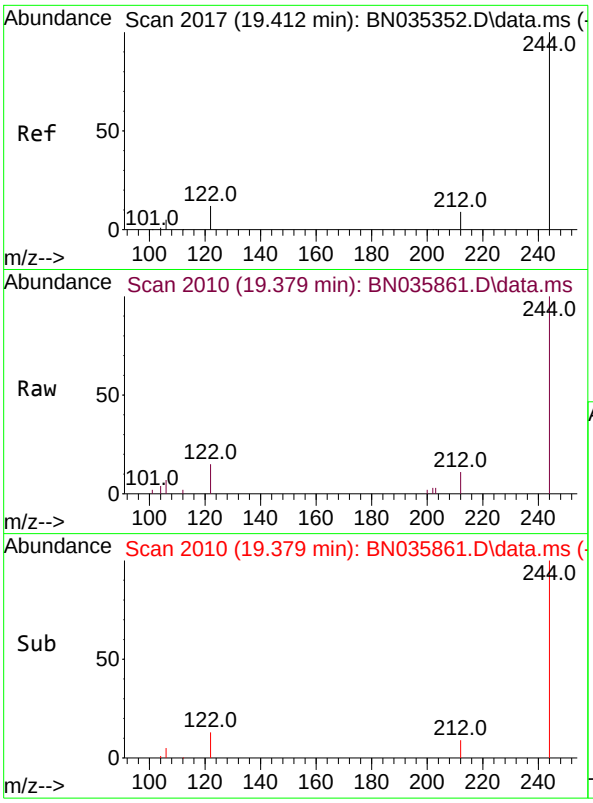


#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11492

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.0	14.3	21.5

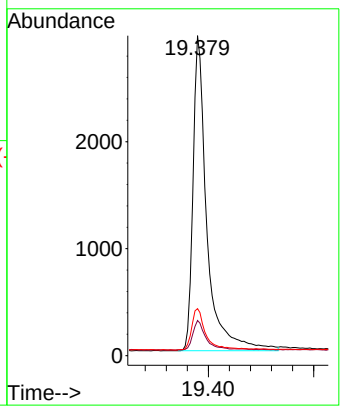




#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:244 Resp: 540

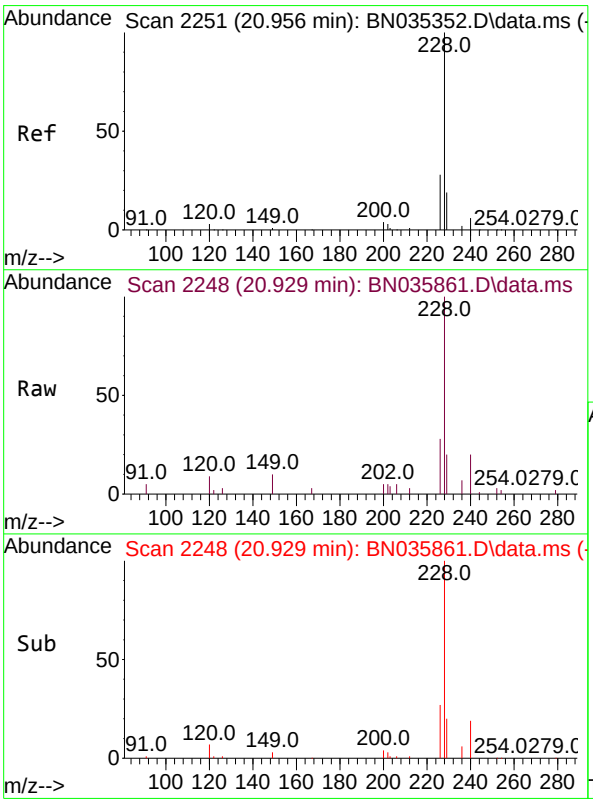
Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	14.7	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

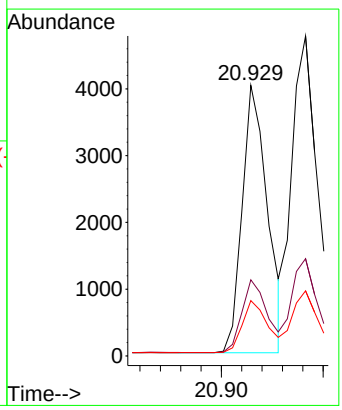
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

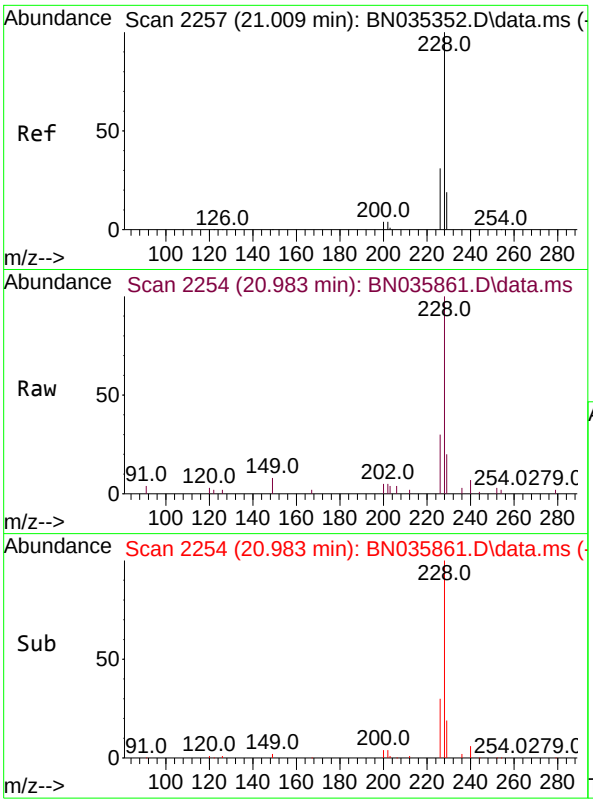


#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 6901

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.5	15.8	23.8

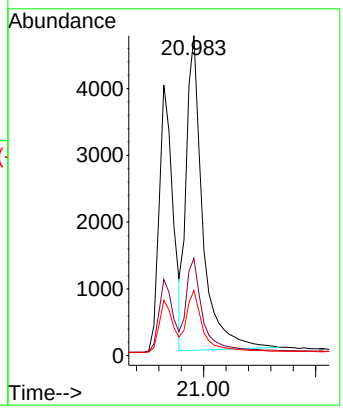




#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 957

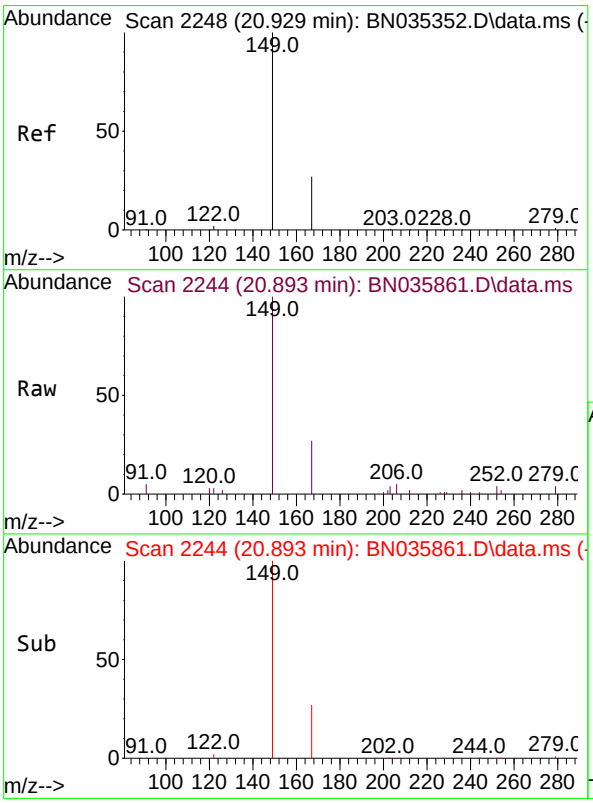
Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.3	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

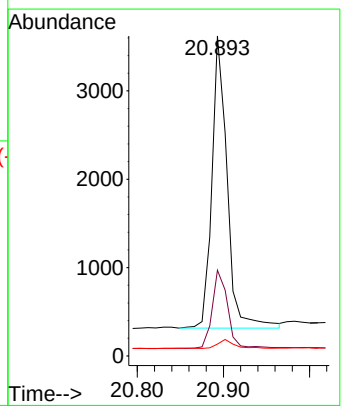
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

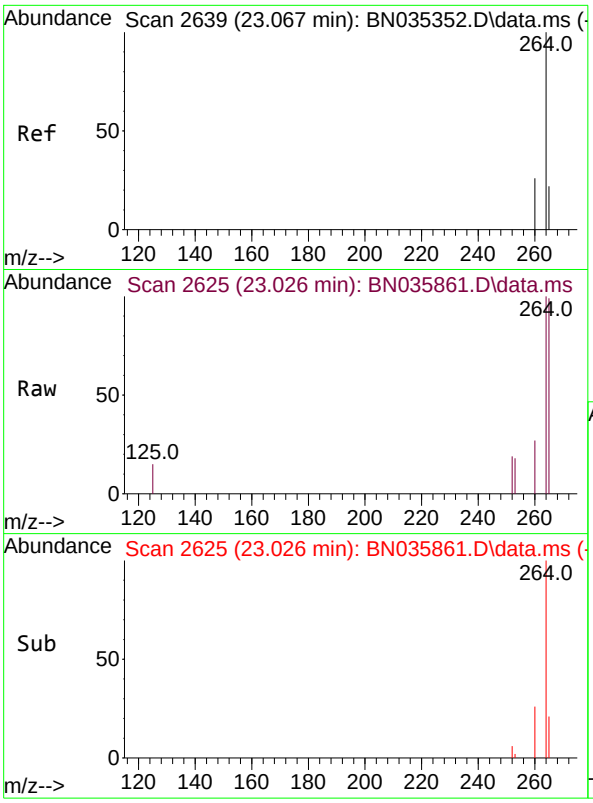


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:149 Resp: 4069

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	3.2	2.7	4.1

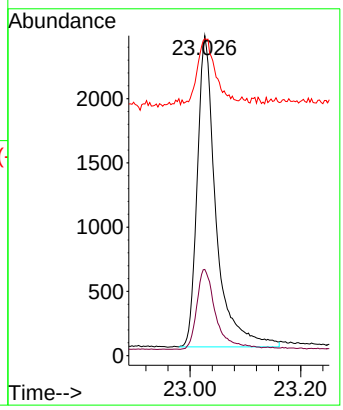




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:264 Resp: 569

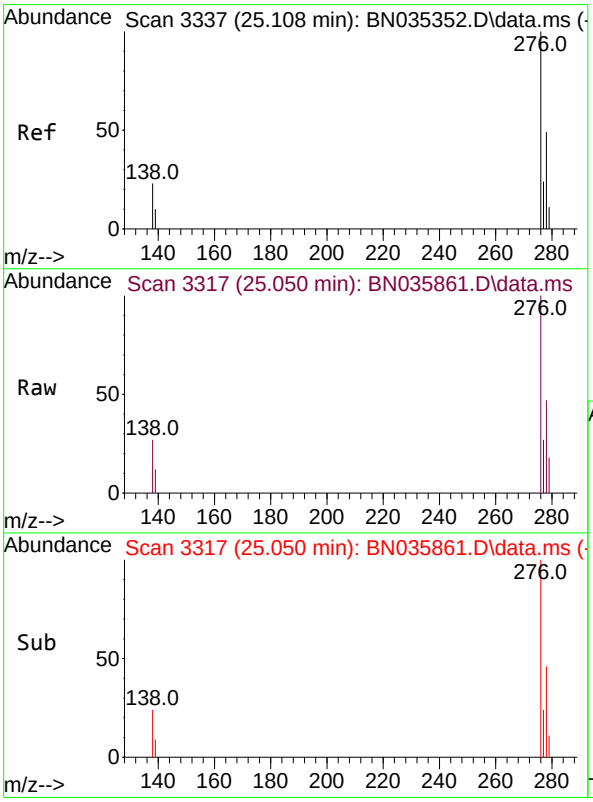
Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	99.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

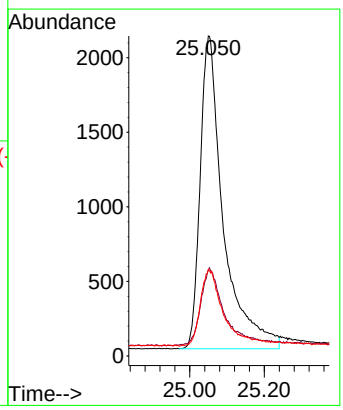
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

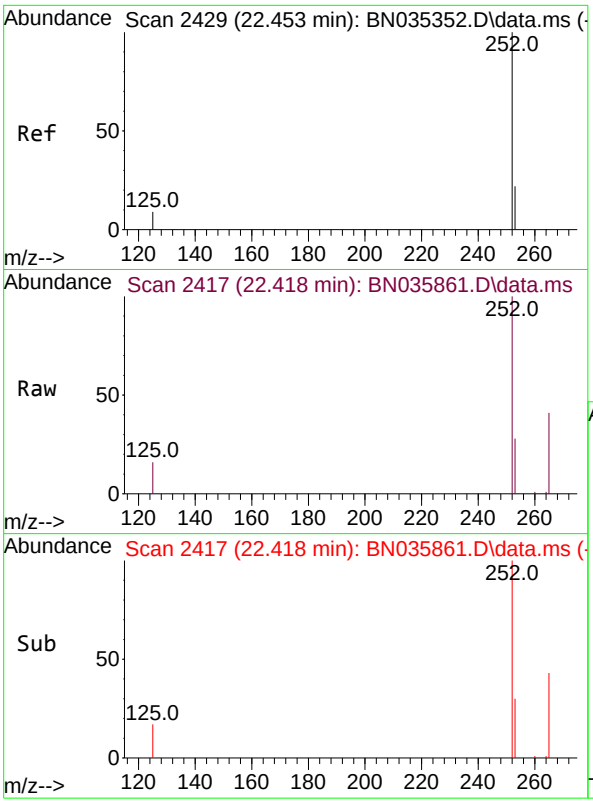


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 9030

Ion	Ratio	Lower	Upper
276	100		
138	24.8	19.4	29.0
277	23.4	19.8	29.6

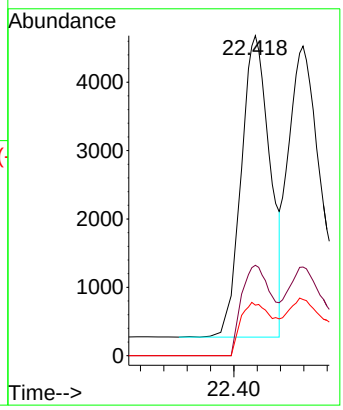




#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 1180

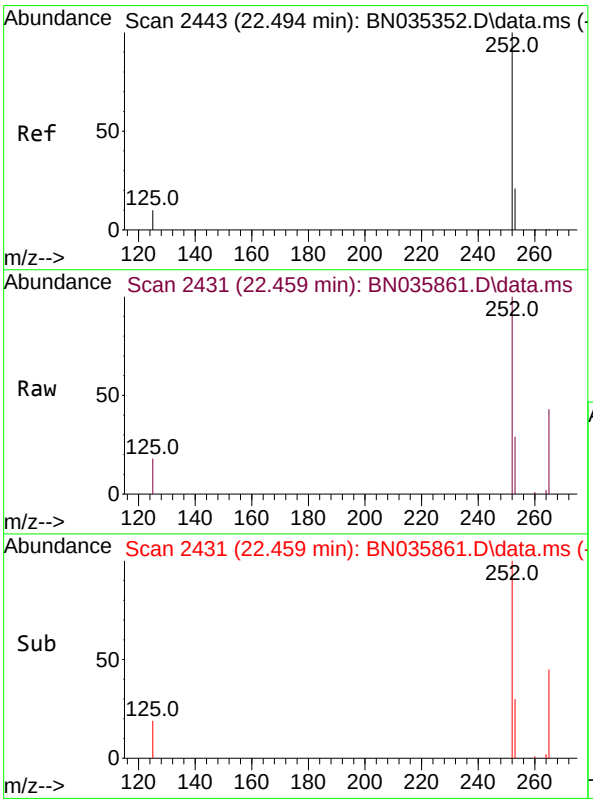
Ion	Ratio	Lower	Upper
252	100		
253	28.3	19.6	29.4
125	15.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

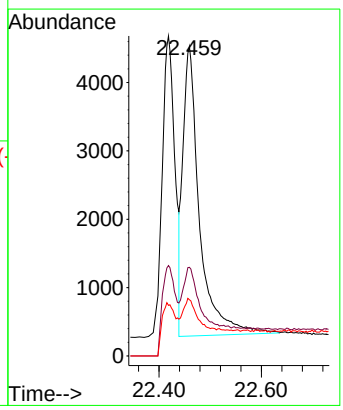
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

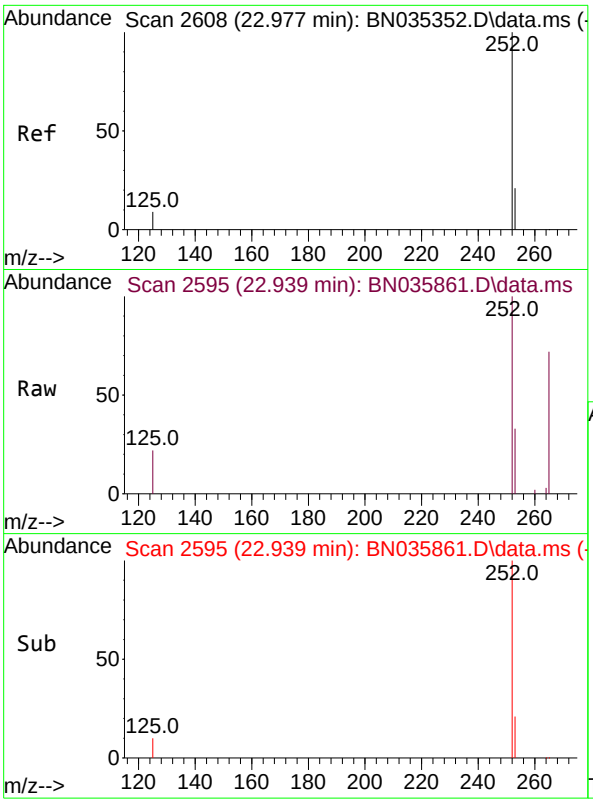


#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638

Ion	Ratio	Lower	Upper
252	100		
253	28.6	19.5	29.3
125	18.2	10.2	15.4#

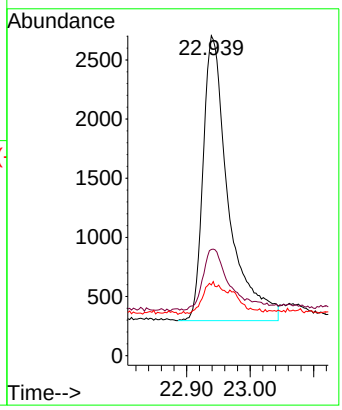




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 664

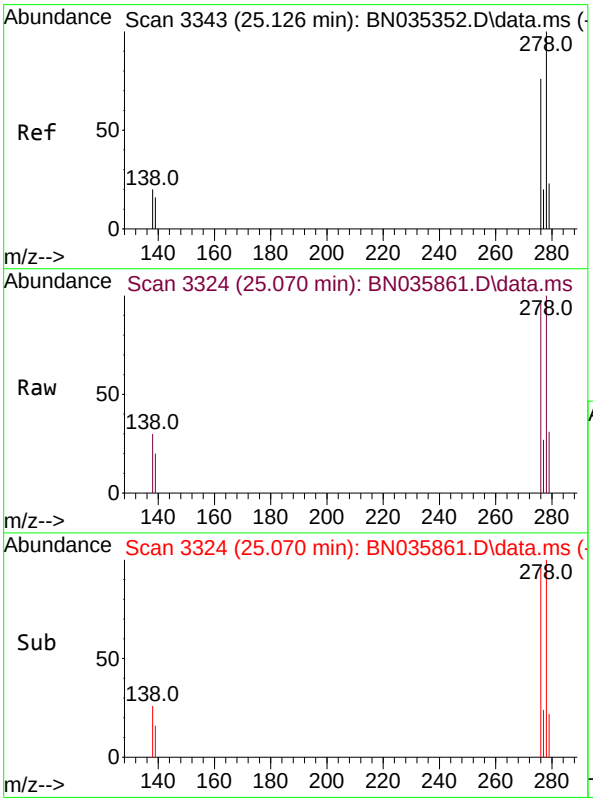
Ion	Ratio	Lower	Upper
252	100		
253	33.2	20.2	30.4#
125	22.1	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

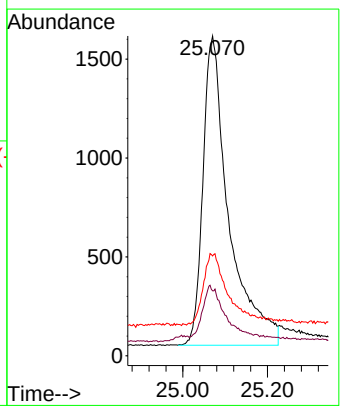
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

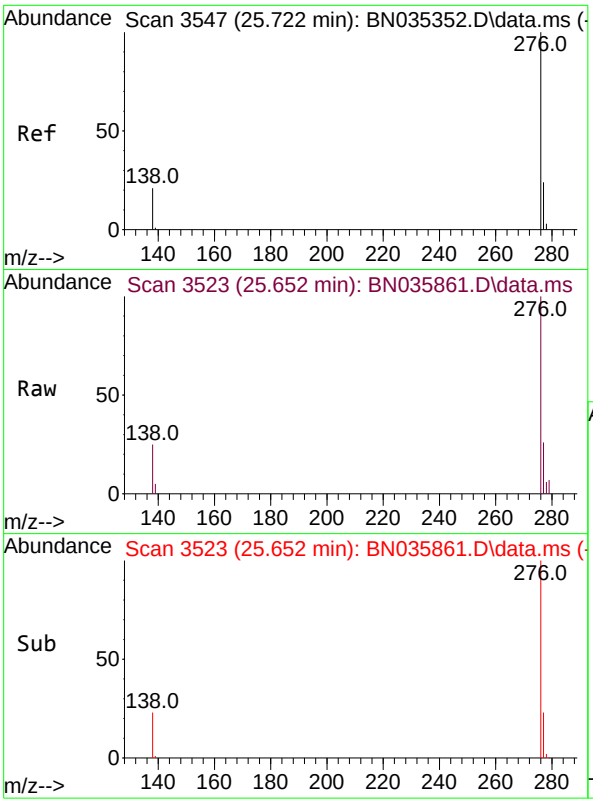


#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:278 Resp: 6633

Ion	Ratio	Lower	Upper
278	100		
139	20.3	14.2	21.4
279	31.2	20.5	30.7#

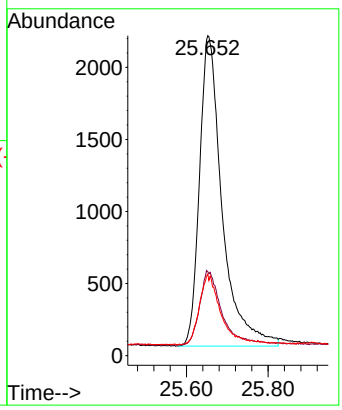




#41
Benzo(g,h,i)perylene
Concen: 0.452 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 830

Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.9	29.9
138	25.5	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	151#	-0.01
2		1,4-Dioxane	0.382	0.394	-3.1	158#	0.00
3		n-Nitrosodimethylamine	0.319	0.331	-3.8	153#	0.00
4	S	2-Fluorophenol	1.001	0.931	7.0	138	-0.01
5	S	Phenol-d6	1.204	1.022	15.1	129	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.883	12.7	134	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	138	-0.02
8	S	Nitrobenzene-d5	0.244	0.306	-25.4#	180#	-0.01
9		Naphthalene	1.055	1.038	1.6	137	-0.01
10		Hexachlorobutadiene	0.243	0.275	-13.2	154#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.551	12.0	123	-0.02
12		2-Methylnaphthalene	0.755	0.655	13.2	123	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.225	20.8	103	-0.01
15	S	2-Fluorobiphenyl	1.512	1.480	2.1	115	-0.02
16		Acenaphthylene	1.680	1.548	7.9	114	-0.02
17		Acenaphthene	1.115	1.068	4.2	116	-0.02
18		Fluorene	1.596	1.449	9.2	110	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.048	-23.1	134	-0.01
21		4-Bromophenyl-phenylether	0.234	0.221	5.6	97	-0.01
22		Hexachlorobenzene	0.275	0.322	-17.1	116	-0.02
23		Atrazine	0.167	0.161	3.6	103	0.00
24		Pentachlorophenol	0.120	0.090	25.0	93	-0.01
25		Phenanthrene	1.099	1.035	5.8	96	-0.01
26		Anthracene	0.994	0.864	13.1	91	-0.01
27	SURR	Fluoranthene-d10	1.134	0.922	18.7	85	-0.01
28		Fluoranthene	1.481	1.189	19.7	83	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	63	0.00
30		Pyrene	1.477	1.909	-29.2#	82	-0.01
31	S	Terphenyl-d14	0.789	0.898	-13.8	72	0.00
32		Benzo(a)anthracene	1.399	1.146	18.1	53	0.00
33		Chrysene	1.443	1.591	-10.3	70	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.676	-22.2	83	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	53	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.584	-1.3	54	-0.02
37		Benzo(b)fluoranthene	1.463	2.071	-41.6#	83	-0.01
38		Benzo(k)fluoranthene	1.440	1.691	-17.4	63	-0.01
39	C	Benzo(a)pyrene	1.205	1.165	3.3	53	-0.01
40		Dibenzo(a,h)anthracene	1.234	1.164	5.7	51	-0.01
41		Benzo(g,h,i)perylene	1.289	1.456	-13.0	61	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	151	-0.01
2		1,4-Dioxane	0.400	0.412	-3.0	158	0.00
3		n-Nitrosodimethylamine	0.400	0.415	-3.7	153	0.00
4	S	2-Fluorophenol	0.400	0.372	7.0	138	-0.01
5	S	Phenol-d6	0.400	0.340	15.0	129	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.349	12.8	134	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	138	-0.02
8	S	Nitrobenzene-d5	0.400	0.501	-25.2#	180	-0.01
9		Naphthalene	0.400	0.394	1.5	137	-0.01
10		Hexachlorobutadiene	0.400	0.452	-13.0	154	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	123	-0.02
12		2-Methylnaphthalene	0.400	0.347	13.3	123	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	118	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.318	20.5	103	-0.01
15	S	2-Fluorobiphenyl	0.400	0.392	2.0	115	-0.02
16		Acenaphthylene	0.400	0.369	7.8	114	-0.02
17		Acenaphthene	0.400	0.383	4.3	116	-0.02
18		Fluorene	0.400	0.363	9.3	110	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.492	-23.0	134	-0.01
21		4-Bromophenyl-phenylether	0.400	0.378	5.5	97	-0.01
22		Hexachlorobenzene	0.400	0.468	-17.0	116	-0.02
23		Atrazine	0.400	0.386	3.5	103	0.00
24		Pentachlorophenol	0.400	0.302	24.5	93	-0.01
25		Phenanthrene	0.400	0.377	5.8	96	-0.01
26		Anthracene	0.400	0.348	13.0	91	-0.01
27	SURR	Fluoranthene-d10	0.400	0.325	18.8	85	-0.01
28		Fluoranthene	0.400	0.321	19.8	83	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	63	0.00
30		Pyrene	0.400	0.517	-29.3#	82	-0.01
31	S	Terphenyl-d14	0.400	0.455	-13.7	72	0.00
32		Benzo(a)anthracene	0.400	0.328	18.0	53	0.00
33		Chrysene	0.400	0.441	-10.2	70	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.489	-22.2	83	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	53	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.405	-1.3	54	-0.02
37		Benzo(b)fluoranthene	0.400	0.566	-41.5#	83	-0.01
38		Benzo(k)fluoranthene	0.400	0.470	-17.5	63	-0.01
39	C	Benzo(a)pyrene	0.400	0.387	3.3	53	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.377	5.8	51	-0.01
41		Benzo(g,h,i)perylene	0.400	0.452	-13.0	61	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

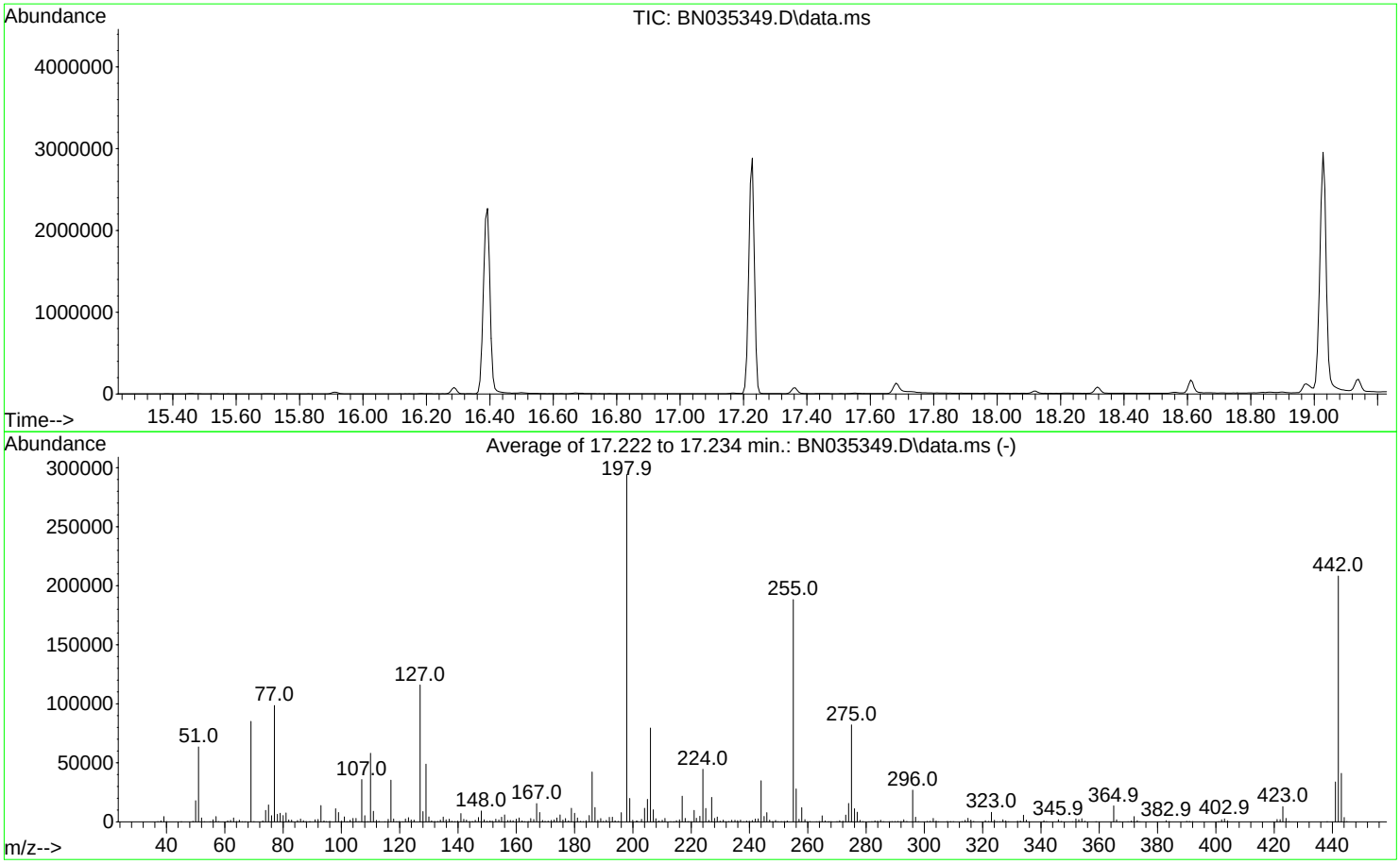
Sample Results: **BN035349.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
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-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



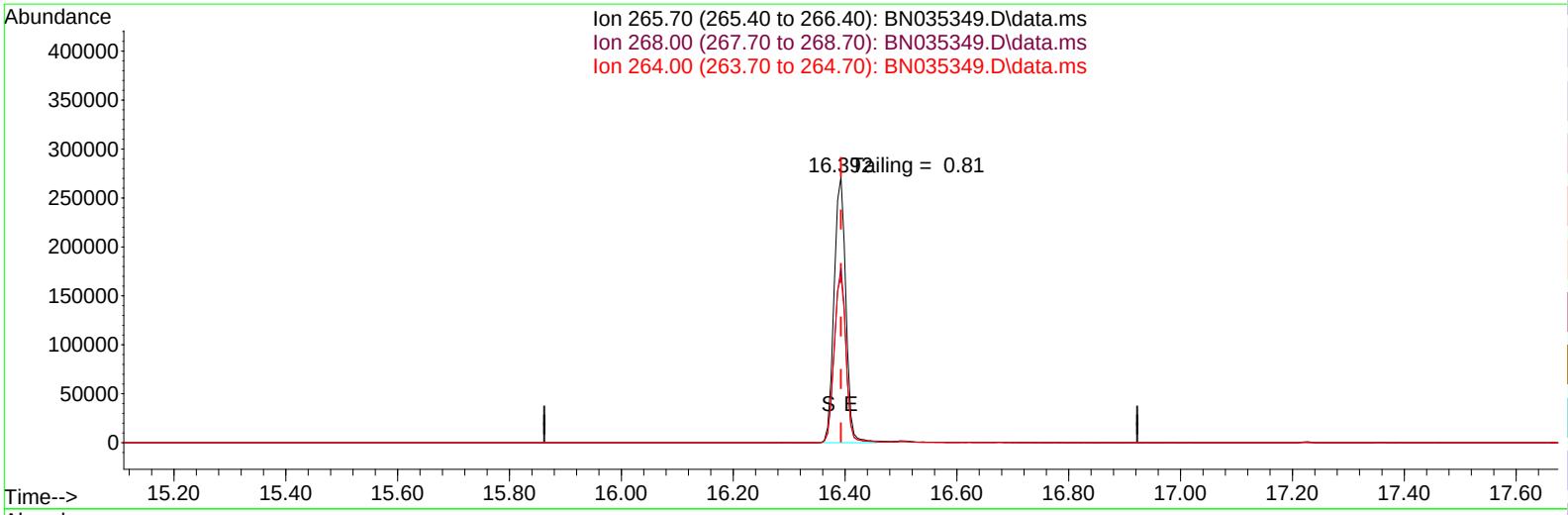
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

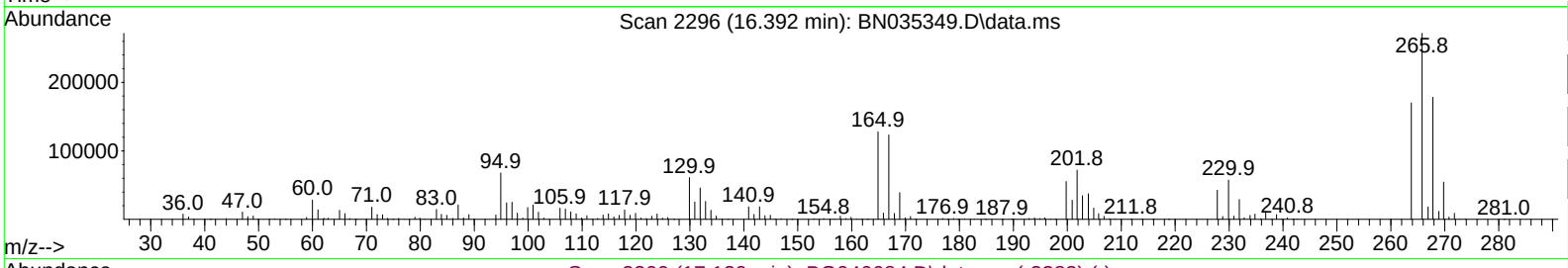
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	21.6	63480	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	28.9	85062	PASS
70	69	0.00	2	0.4	303	PASS
127	198	10	80	39.4	115899	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	294229	PASS
199	198	5	9	6.7	19826	PASS
275	198	10	60	27.9	82149	PASS
365	198	1	100	4.6	13565	PASS
441	198	0.01	100	11.5	33811	PASS
442	442	50	100	100.0	208235	PASS
443	442	15	24	19.7	41045	PASS

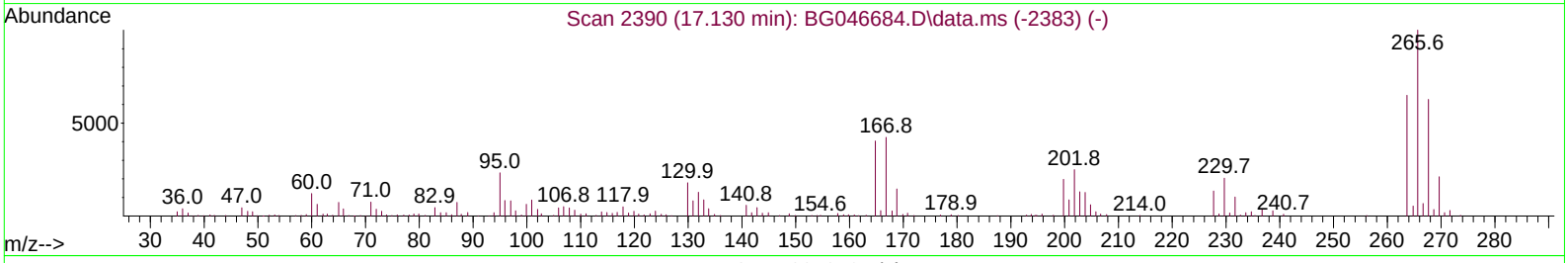
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035349.D\data.ms

(70) Pentachlorophenol (C)

16.392min (0.000) 27794.31 ng

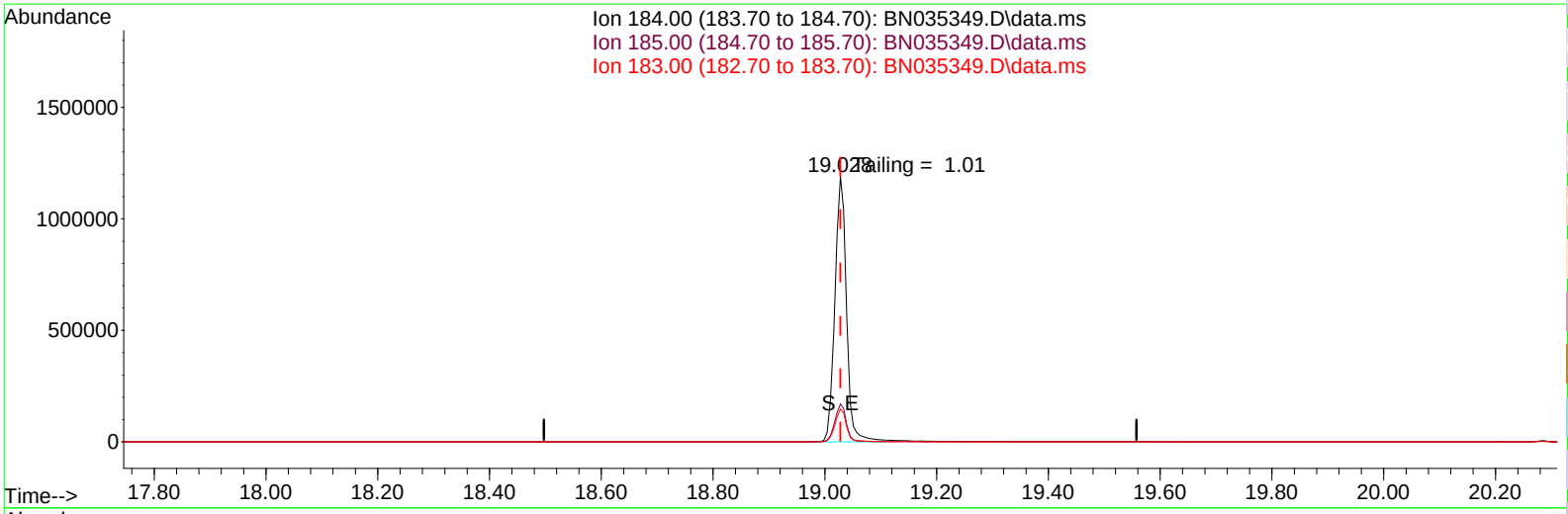
response 398074

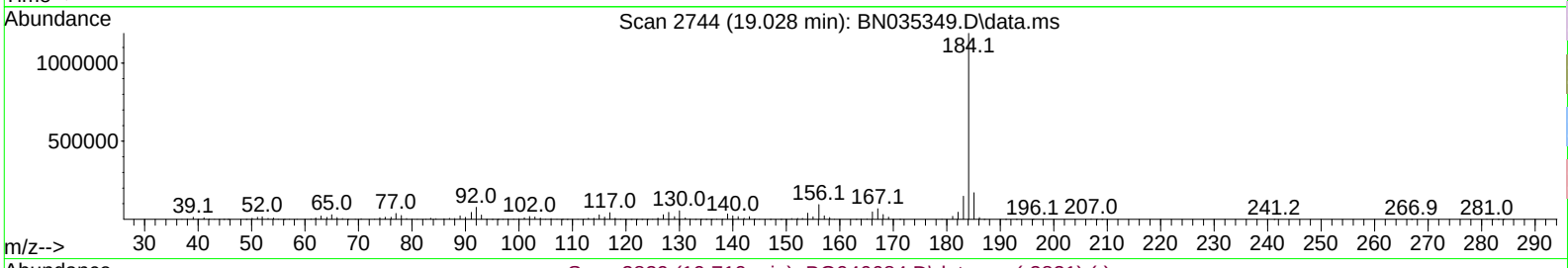
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.68
264.00	61.60	62.66
0.00	0.00	0.00

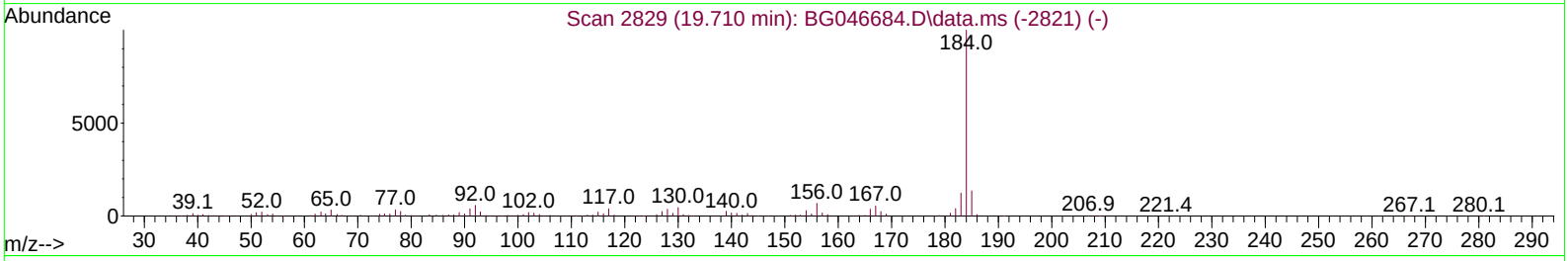
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035349.D\data.ms

(77) Benzidine

19.028min (0.000) 0.00 ng

response 1733630

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.34
183.00	13.20	12.42
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

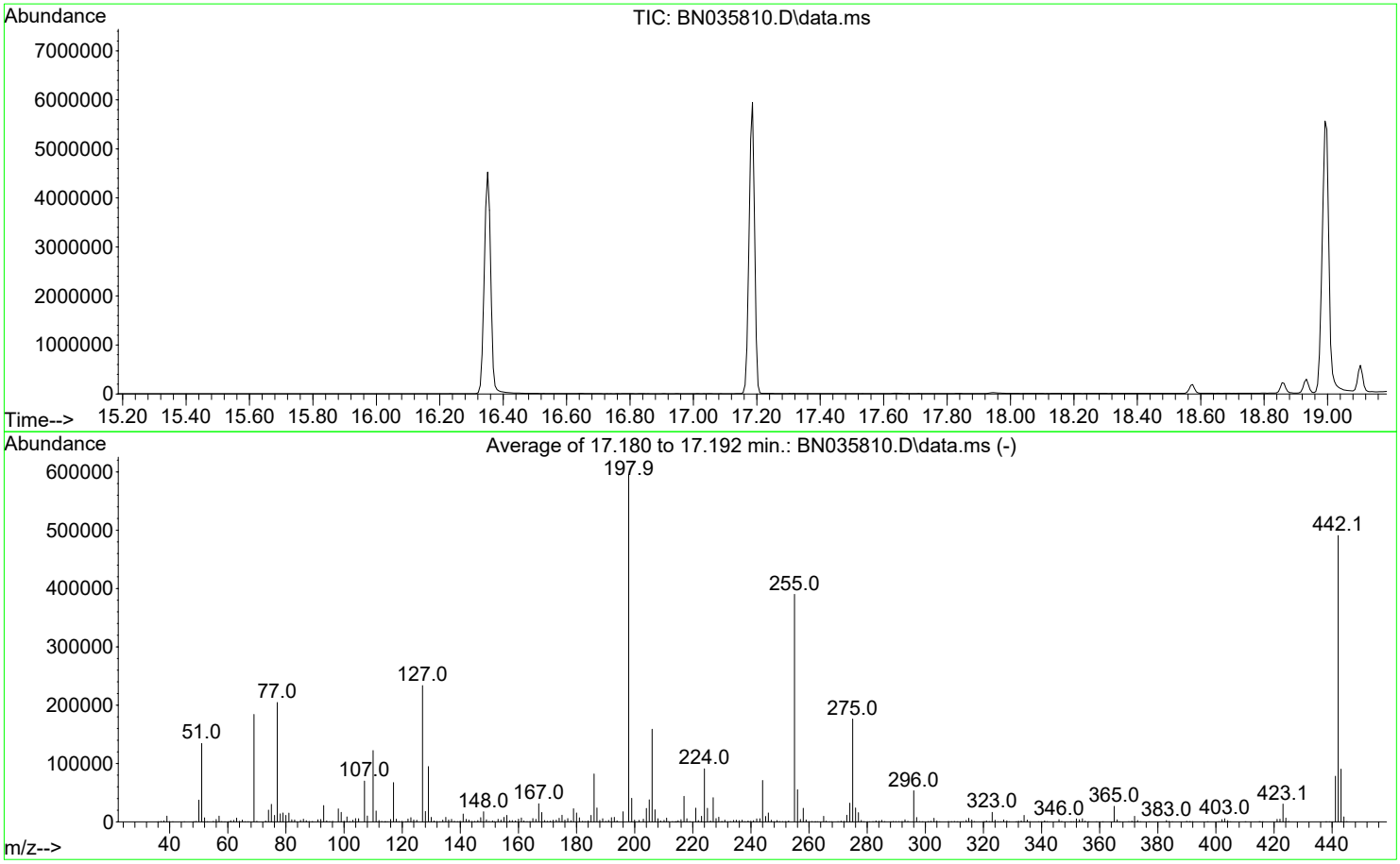
Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	BN035349.D
Compound Name	**Response**	**Retention Time**
DDT	985457	20.286
DDD	27636	19.839
DDE	578	19.322
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
28214	1013671	2.78

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
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-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



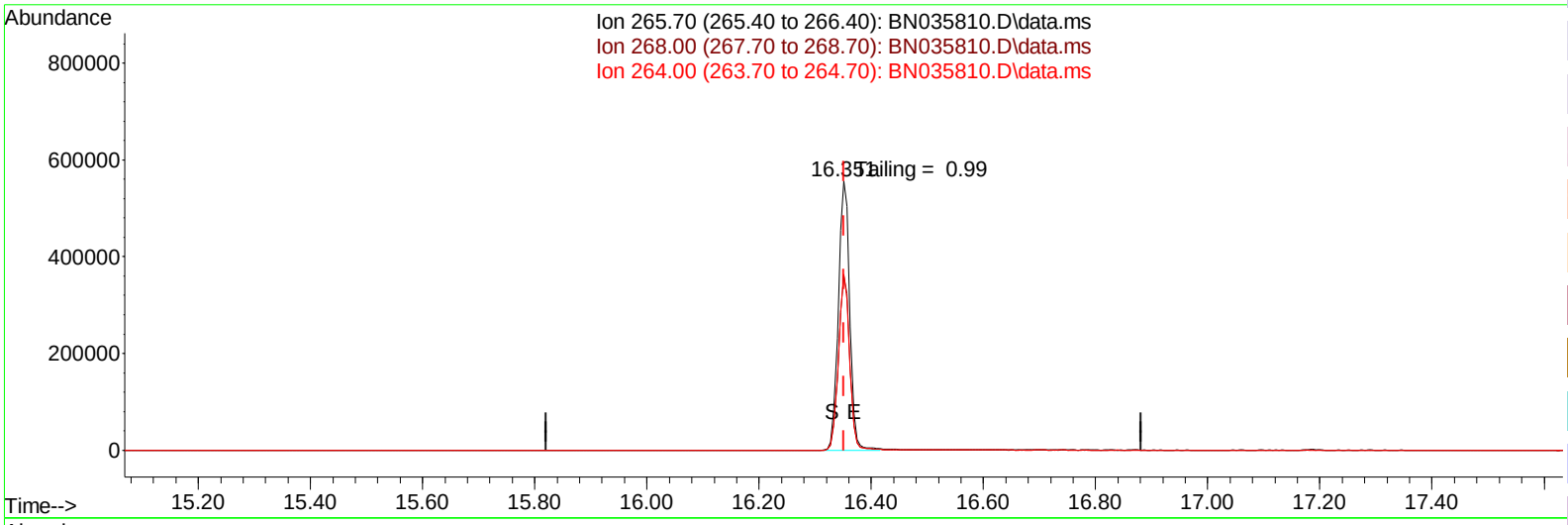
AutoFind: Scans 2430, 2431, 2432; Background Corrected with Scan 2422

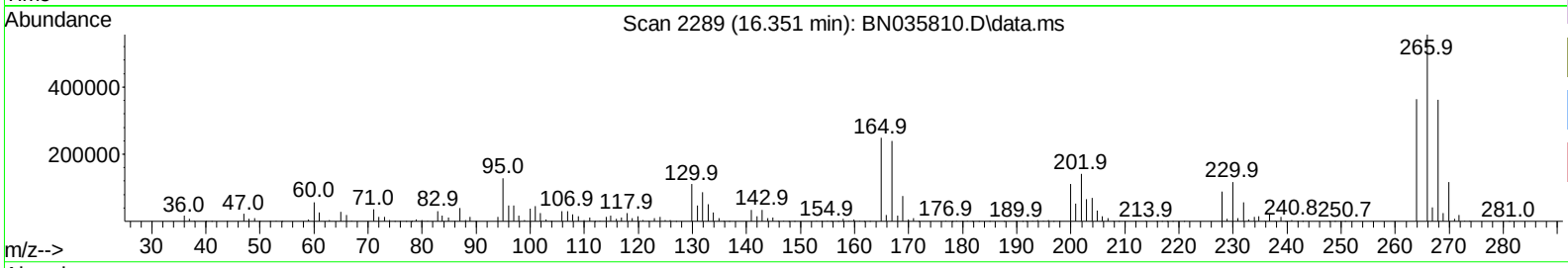
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.6	134565	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.9	184267	PASS
70	69	0.00	2	0.5	1000	PASS
127	198	10	80	39.2	233707	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	595477	PASS
199	198	5	9	6.8	40509	PASS
275	198	10	60	29.6	176405	PASS
365	198	1	100	4.5	26707	PASS
441	198	0.01	100	13.2	78309	PASS
442	442	50	100	100.0	490880	PASS
443	442	15	24	18.4	90491	PASS

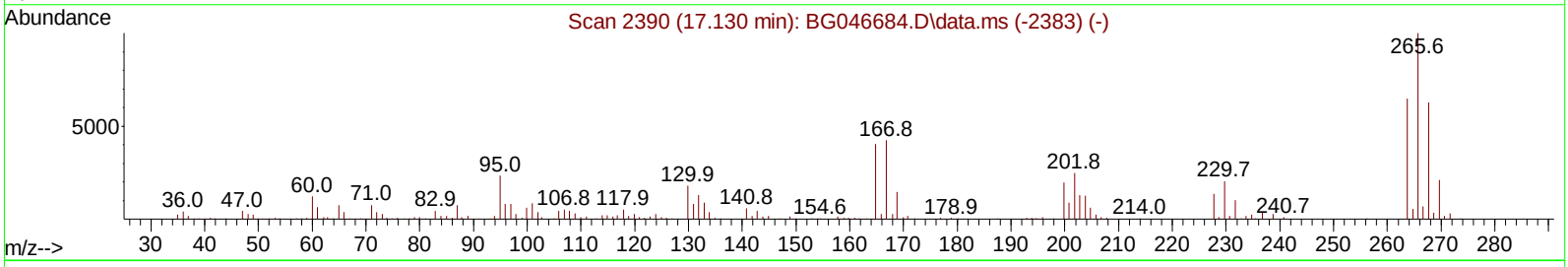
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 25 00:46:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 00:46:49 2024
Response via : Initial Calibration







TIC: BN035810.D\data.ms

(70) Pentachlorophenol (C)

16.351min (0.000) 26136.96 ng

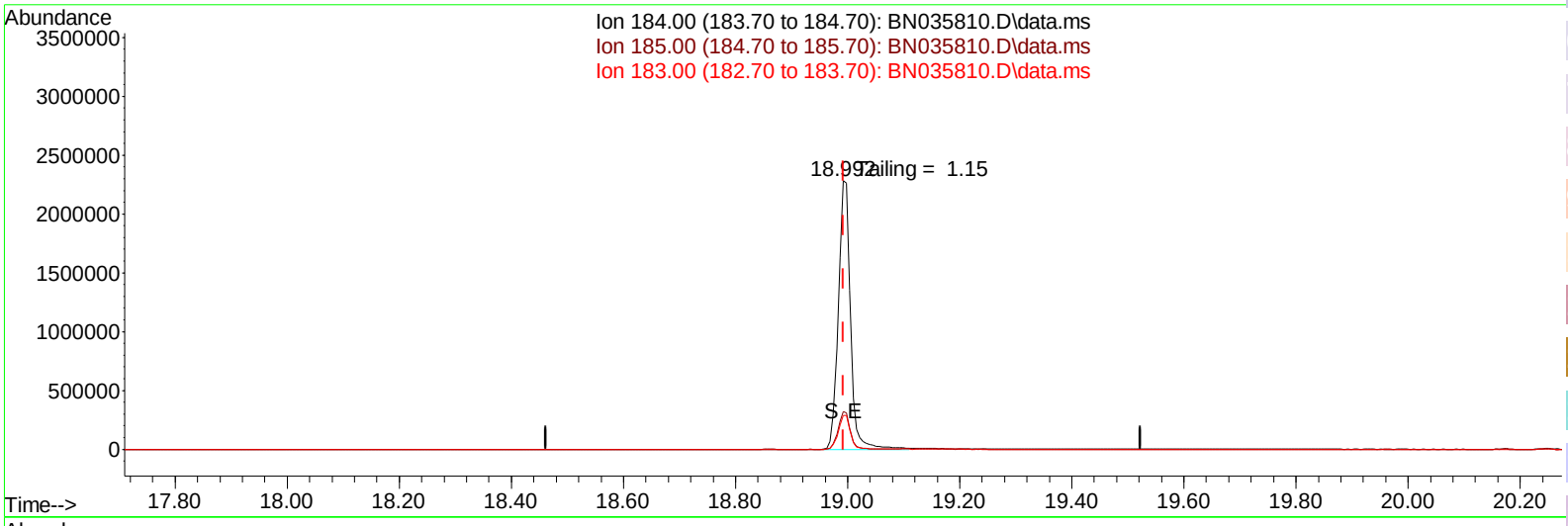
response 791954

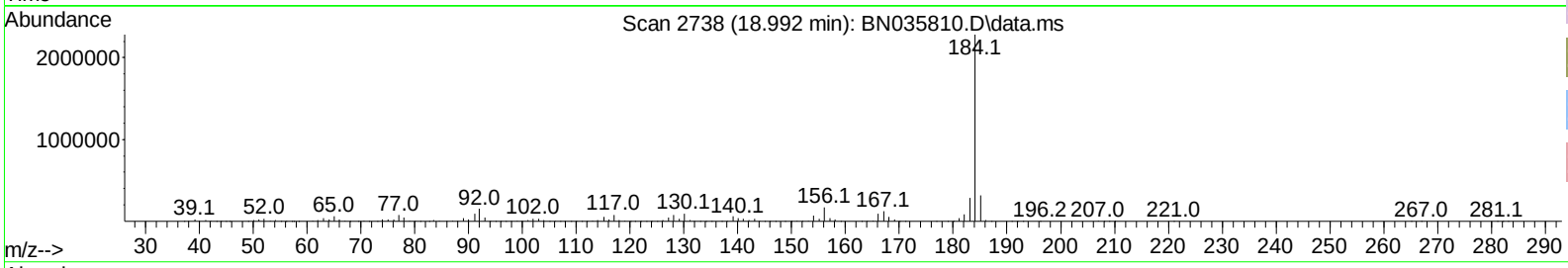
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.05
264.00	61.60	65.35
0.00	0.00	0.00

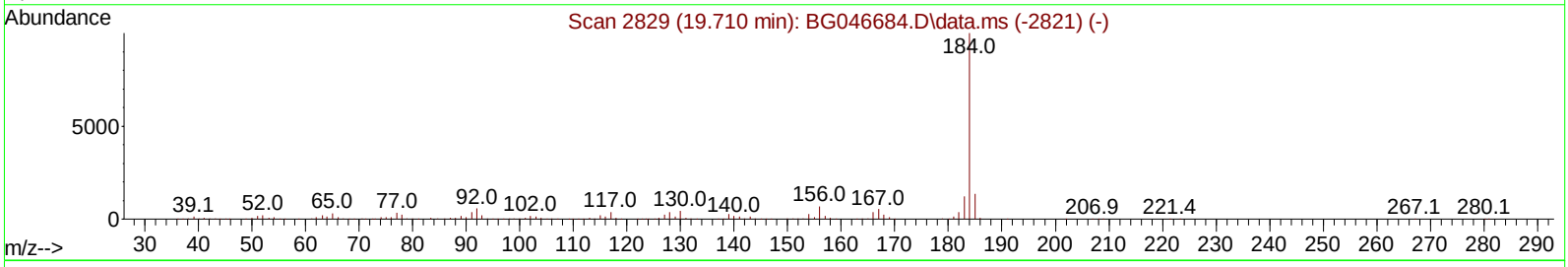
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On : 24 Dec 2024 07:45
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 25 00:46:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 00:46:49 2024
Response via : Initial Calibration







TIC: BN035810.D\data.ms

(77) Benzidine

18.992min (0.000) 0.00 ng

response 3507772

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.96
183.00	13.20	12.67
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

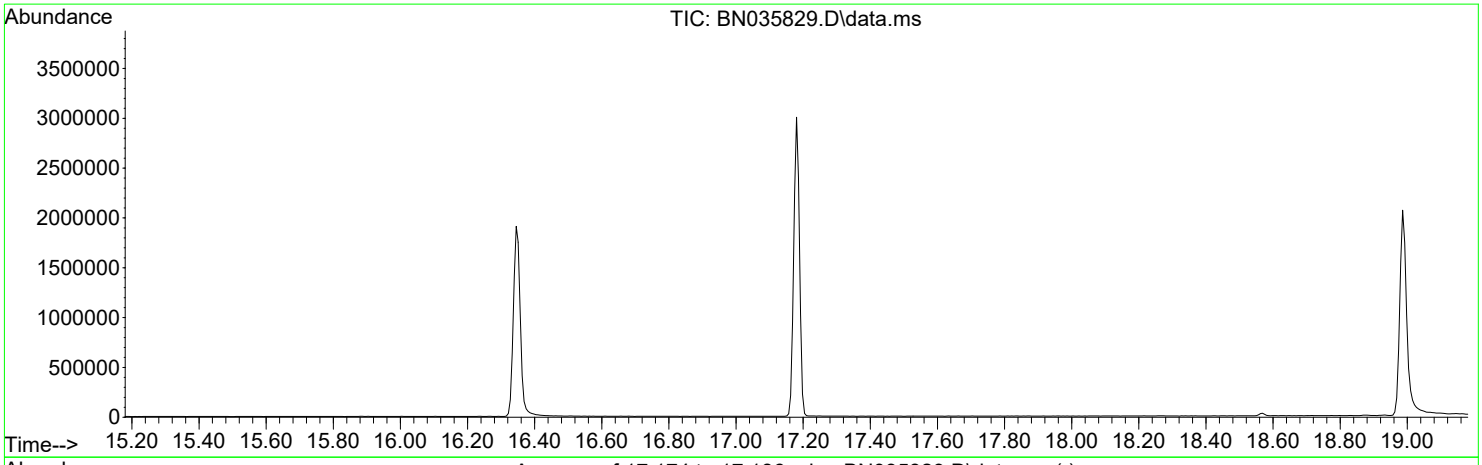
Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	BN035810.D
Compound Name	**Response**	**Retention Time**
DDT	1784590	20.251
DDD	187693	19.804
DDE	5273	19.286
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
192966	1977556	9.76

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035829.D
Acq On : 24 Dec 2024 19:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



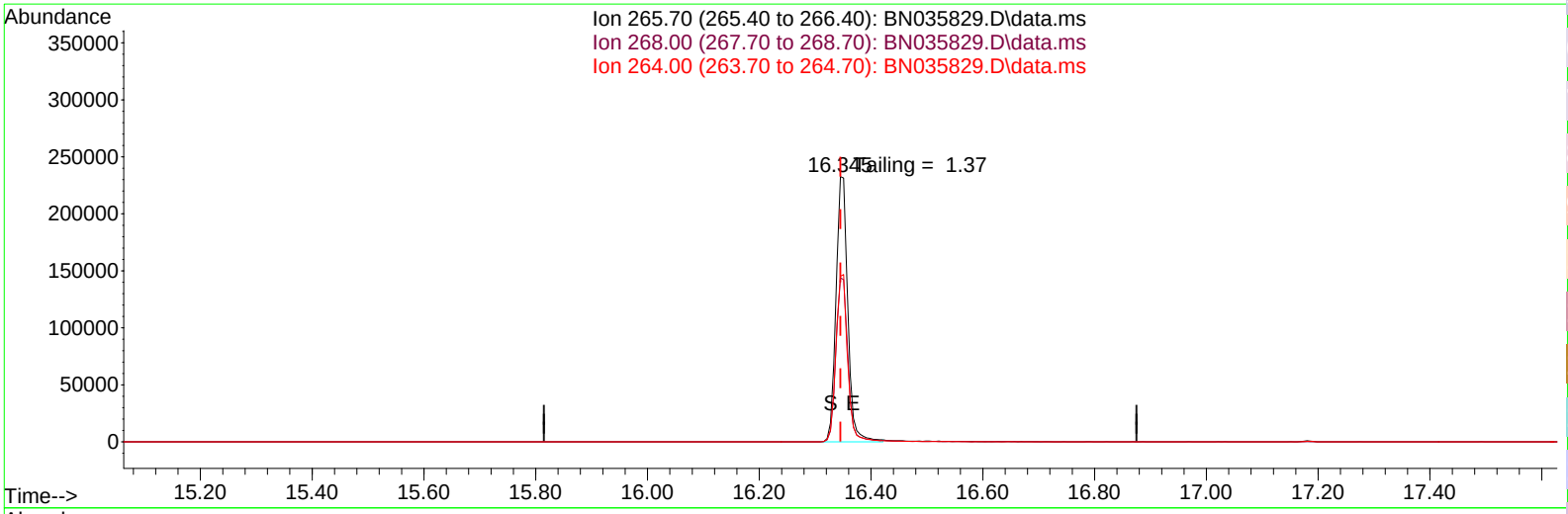
AutoFind: Scans 2429, 2430, 2431; Background Corrected with Scan 2422

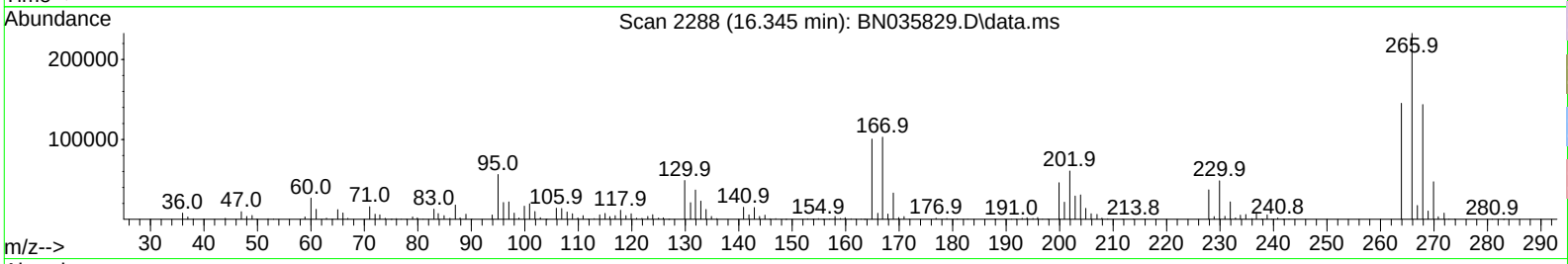
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	23.4	72981	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	32.7	102160	PASS
70	69	0.00	2	0.5	531	PASS
127	198	10	80	39.9	124571	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	312085	PASS
199	198	5	9	6.6	20517	PASS
275	198	10	60	27.8	86749	PASS
365	198	1	100	3.9	12312	PASS
441	198	0.01	100	11.4	35683	PASS
442	442	50	100	100.0	215104	PASS
443	442	15	24	19.8	42619	PASS

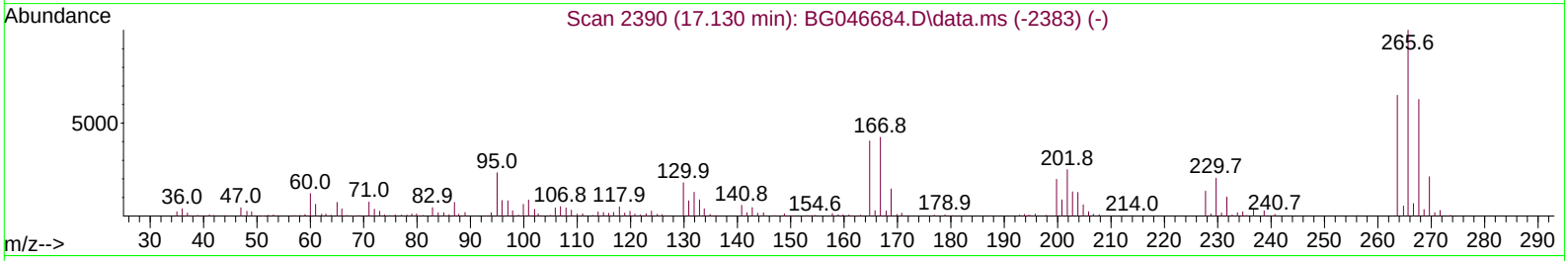
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035829.D
Acq On : 24 Dec 2024 19:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 25 04:24:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN035829.D\data.ms

(70) Pentachlorophenol (C)

16.345min (0.000) 23024.60 ng

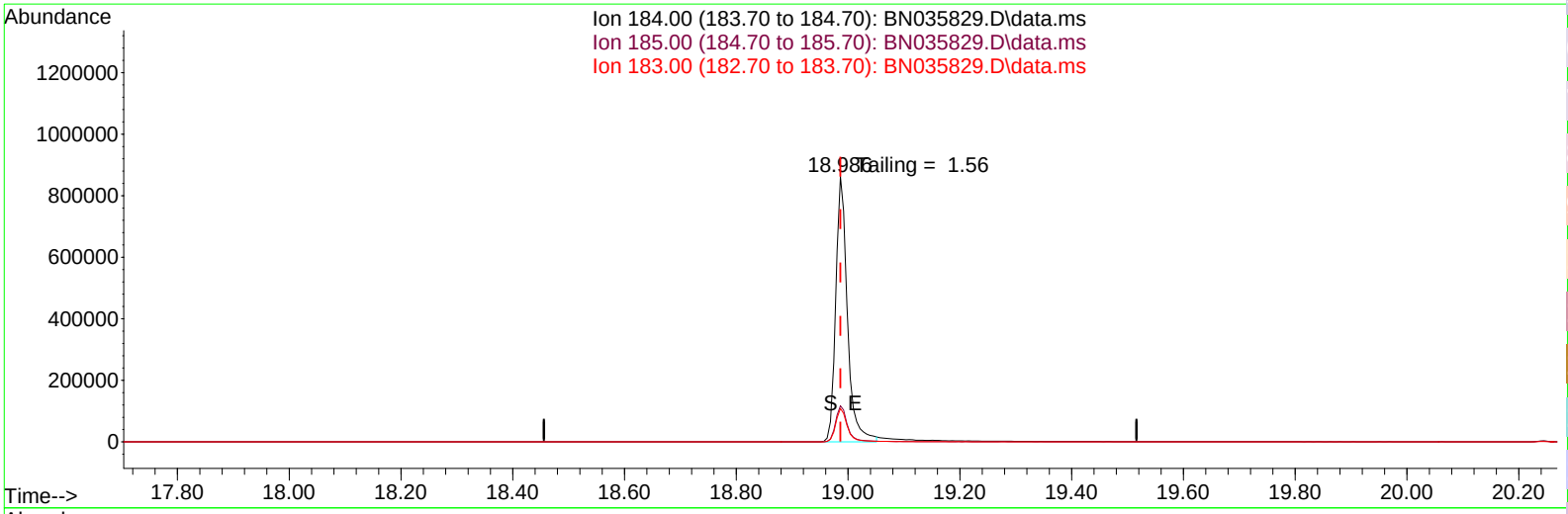
response 344759

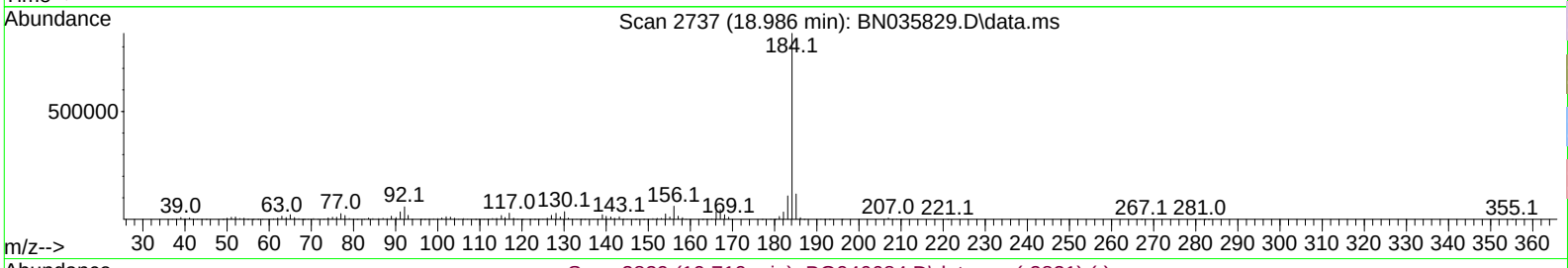
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.74
264.00	61.60	62.43
0.00	0.00	0.00

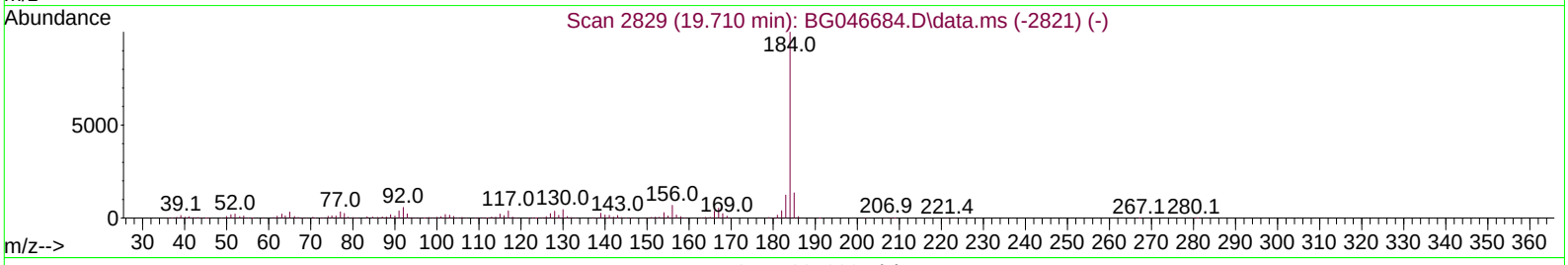
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035829.D
Acq On : 24 Dec 2024 19:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 25 04:24:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN035829.D\data.ms

(77) Benzidine

18.986min (0.000) 0.00 ng

response 1299882

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.60
183.00	13.20	12.60
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

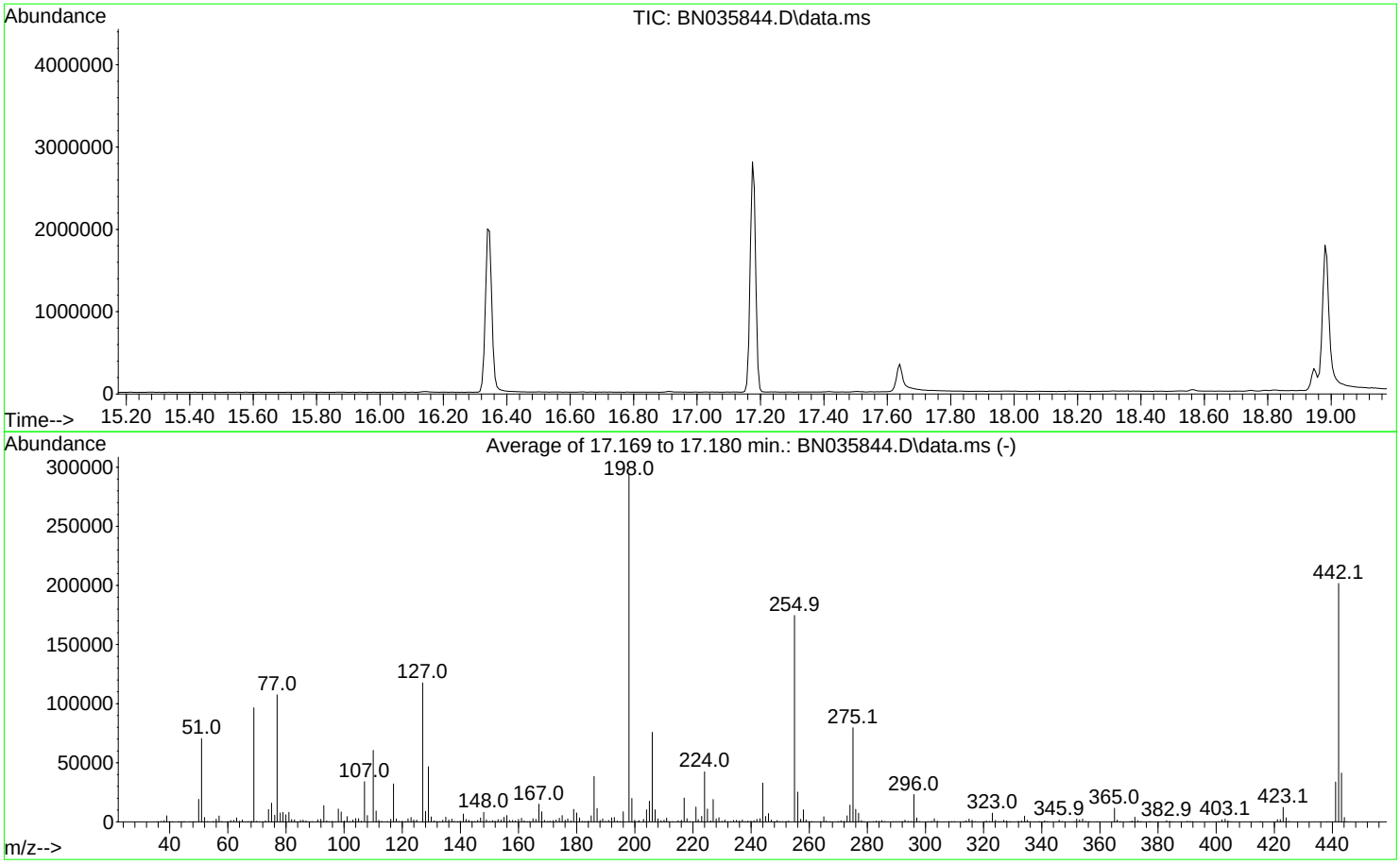
Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	BN035829.D
Compound Name	**Response**	**Retention Time**
DDT	824107	20.245
DDD	86807	19.798
DDE	4191	19.28
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
90998	915105	9.94

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
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-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Dec 19 23:06:19 2024



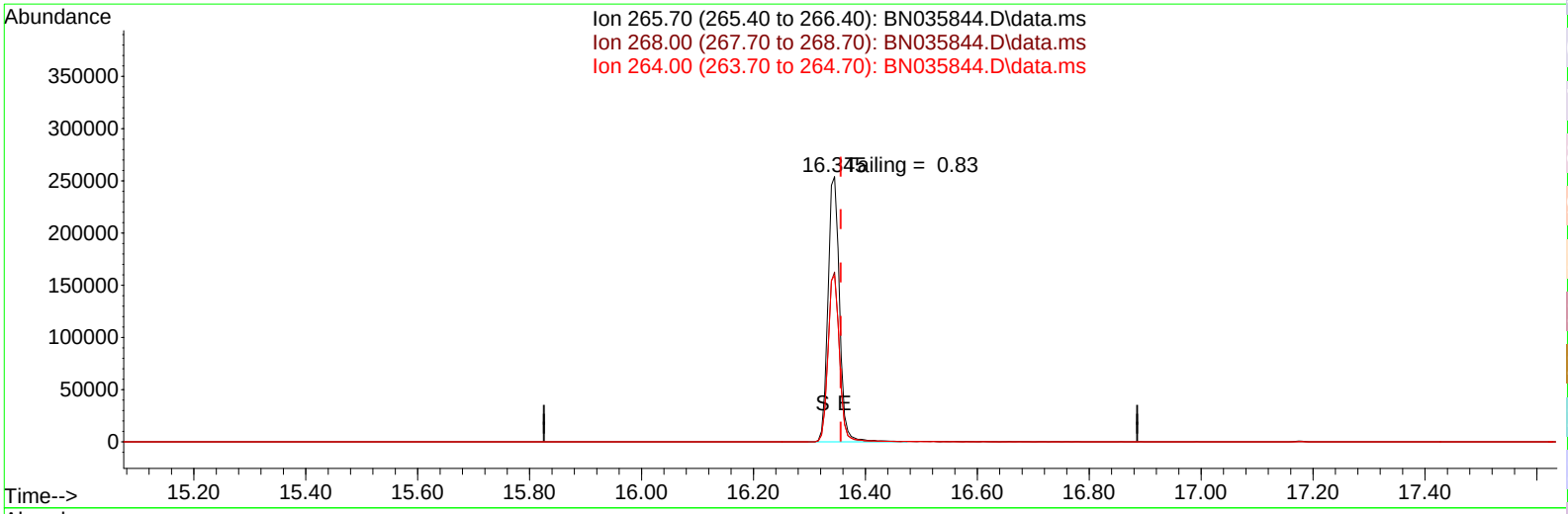
AutoFind: Scans 2428, 2429, 2430; Background Corrected with Scan 2422

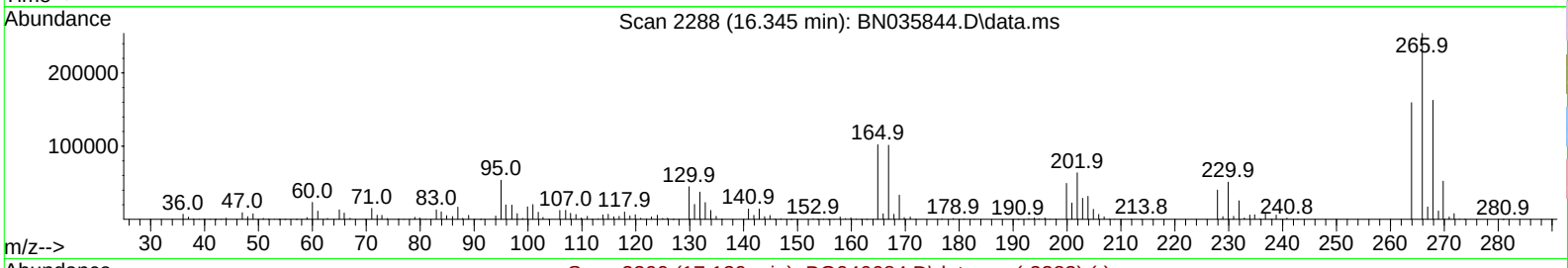
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.0	70451	PASS
68	69	0.00	2	0.6	610	PASS
69	198	0.00	100	32.9	96557	PASS
70	69	0.00	2	0.5	480	PASS
127	198	10	80	40.0	117549	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	293824	PASS
199	198	5	9	6.7	19833	PASS
275	198	10	60	27.1	79648	PASS
365	198	1	100	3.9	11517	PASS
441	198	0.01	100	11.5	33733	PASS
442	442	50	100	100.0	201656	PASS
443	442	15	24	20.5	41285	PASS

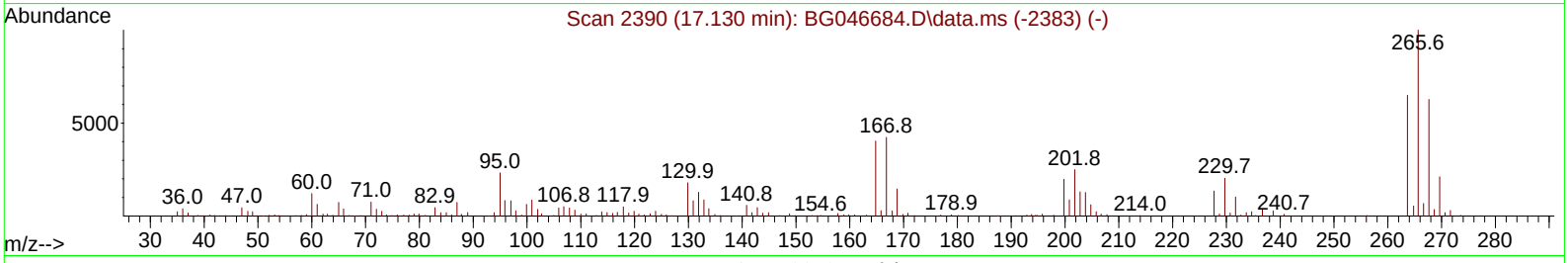
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 26 18:22:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN035844.D\data.ms

(70) Pentachlorophenol (C)

16.345min (-0.011) 24950.02 ng

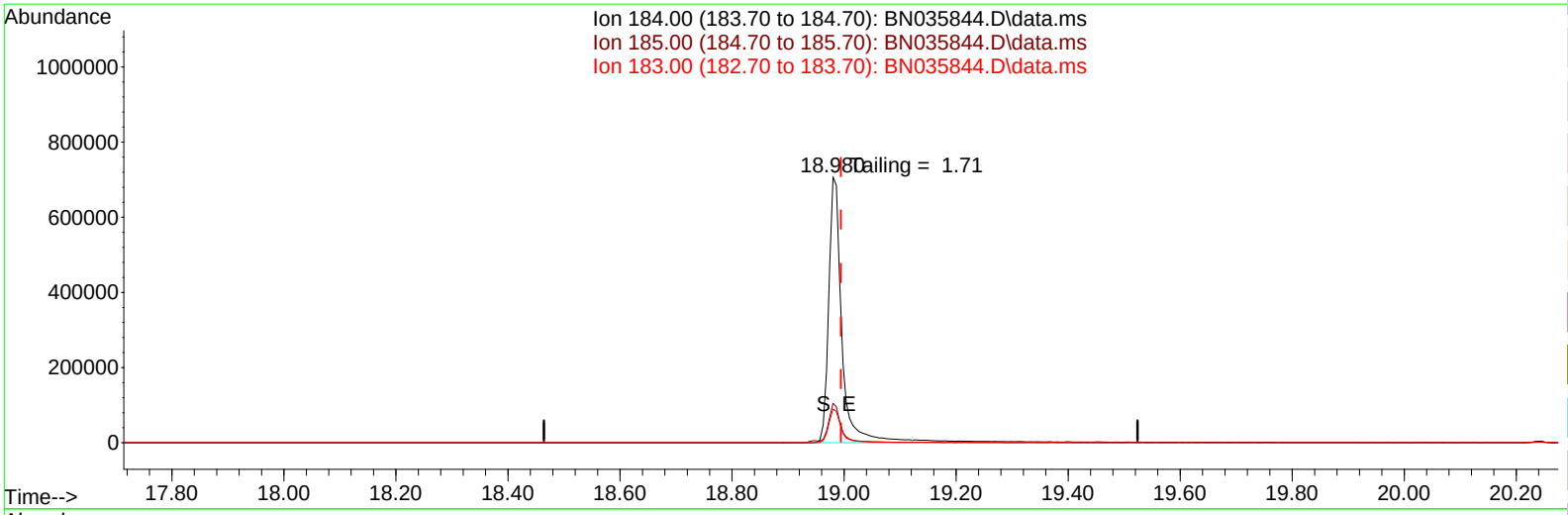
response 363016

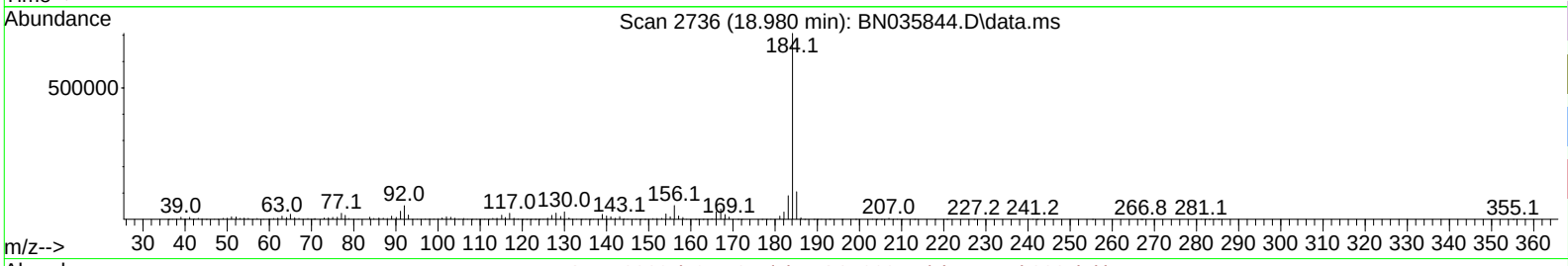
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.03
264.00	61.60	62.72
0.00	0.00	0.00

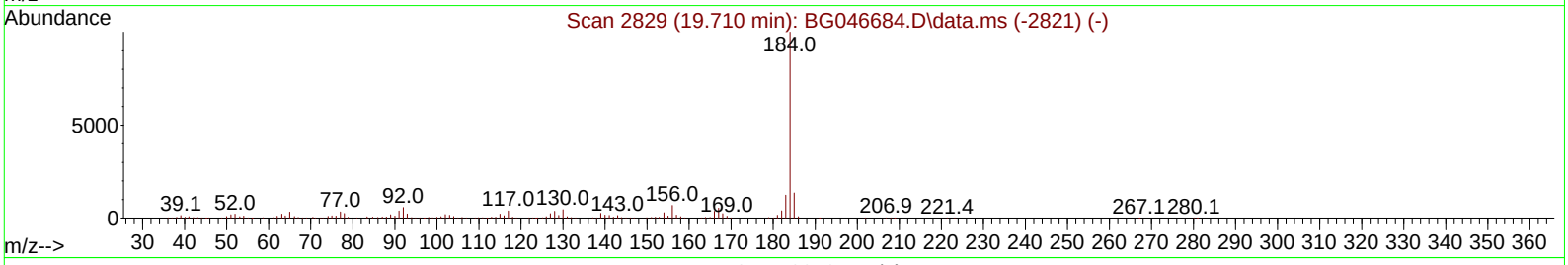
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Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 26 18:24:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN035844.D\data.ms

(77) Benzidine

18.980min (-0.014) 0.00 ng

response 1183784

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.84
183.00	13.20	12.69
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/26/2024	BNA_N	BN035844.D
Compound Name	**Response**	**Retention Time**
DDT	999259	20.239
DDD	18711	19.798
DDE	516	19.28
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
19227	1018486	1.89

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165828BL	SDG No.:	P5376
Lab Sample ID:	PB165828BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035812.D	1	12/23/24 13:29	12/24/24 09:35	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3200	7.264				
1146-65-2	Naphthalene-d8	6950	10.02				
15067-26-2	Acenaphthene-d10	4350	13.935				
1517-22-2	Phenanthrene-d10	8100	16.711				
1719-03-5	Chrysene-d12	6760	20.956				
1520-96-3	Perylene-d12	6750	23.038				

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\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3197	0.400	ng	0.00
7) Naphthalene-d8	10.020	136	6952	0.400	ng	0.00
13) Acenaphthene-d10	13.935	164	4346	0.400	ng	0.00
19) Phenanthrene-d10	16.711	188	8099	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	6756	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	6747	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2496	0.312	ng	0.00
5) Phenol-d6	6.484	99	2096	0.218	ng	0.00
8) Nitrobenzene-d5	8.418	82	1782m	0.420	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	3741	0.344	ng	0.02
14) 2,4,6-Tribromophenol	15.475	330	490	0.159	ng	0.02
15) 2-Fluorobiphenyl	12.564	172	5652	0.344	ng	0.02
27) Fluoranthene-d10	18.761	212	9188	0.400	ng	0.00
31) Terphenyl-d14	19.393	244	6413	0.481	ng	0.00
Target Compounds						Qvalue

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

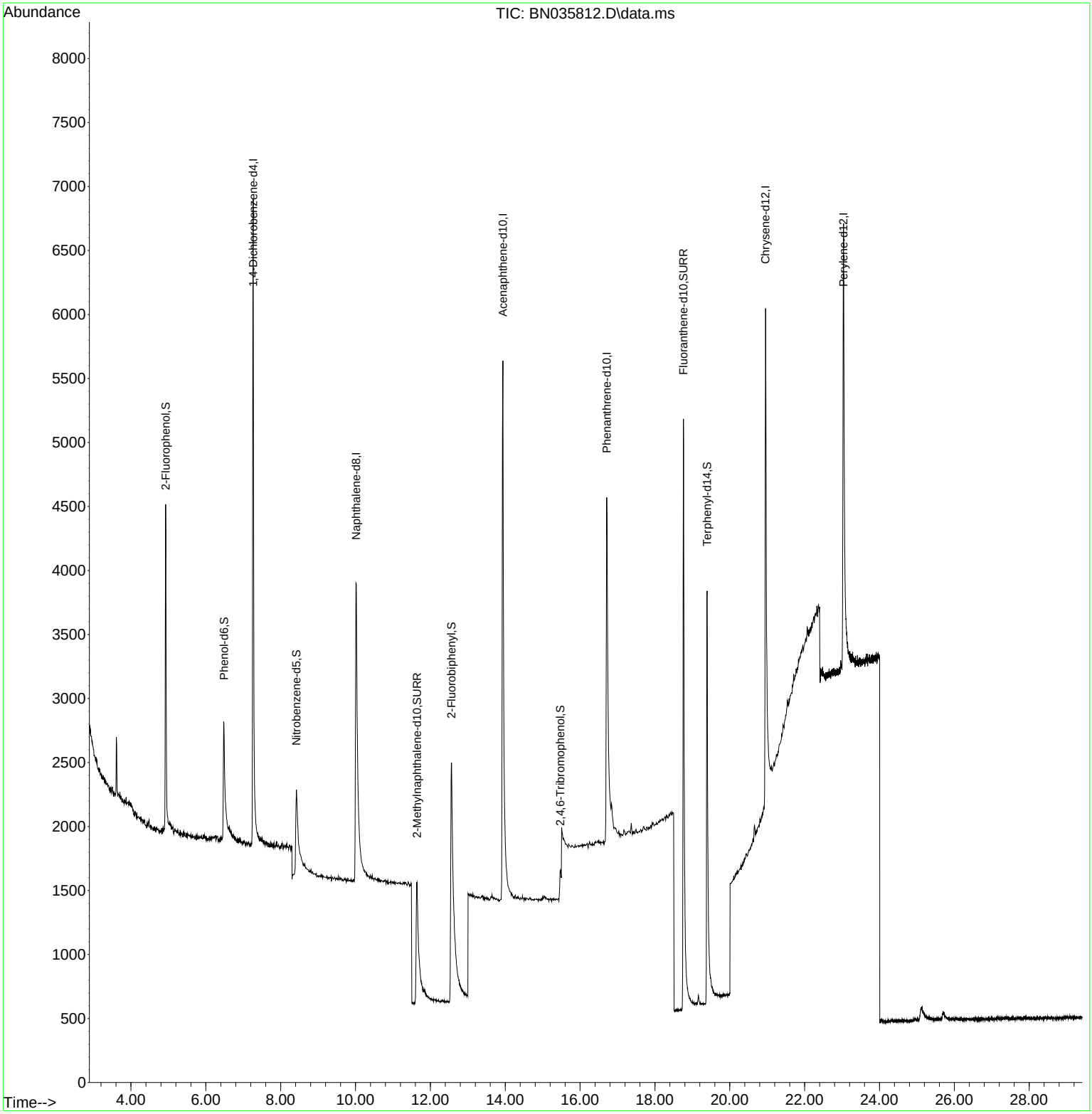
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Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

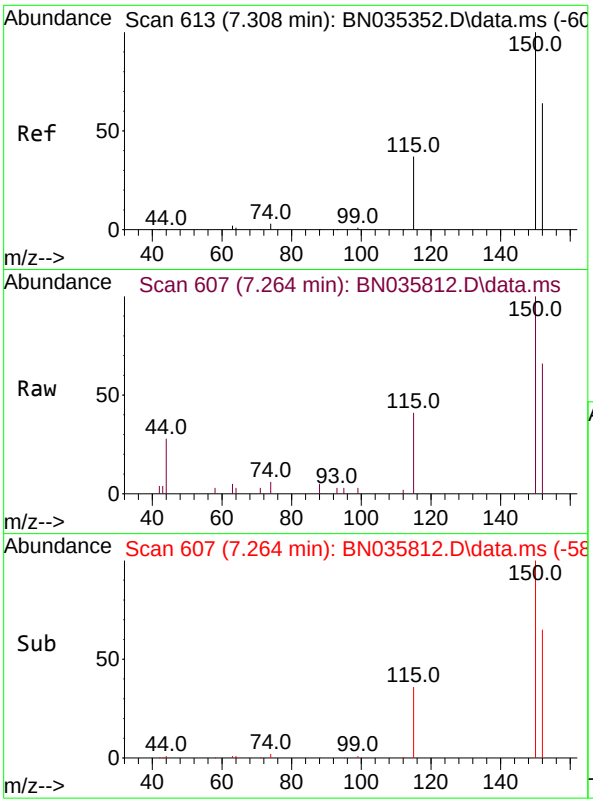
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

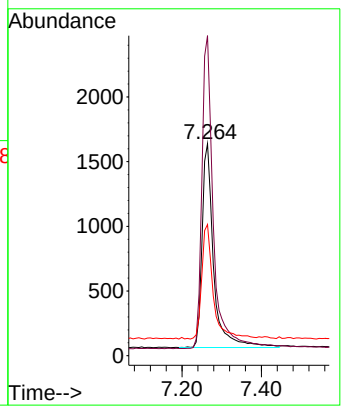




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:152 Resp: 319

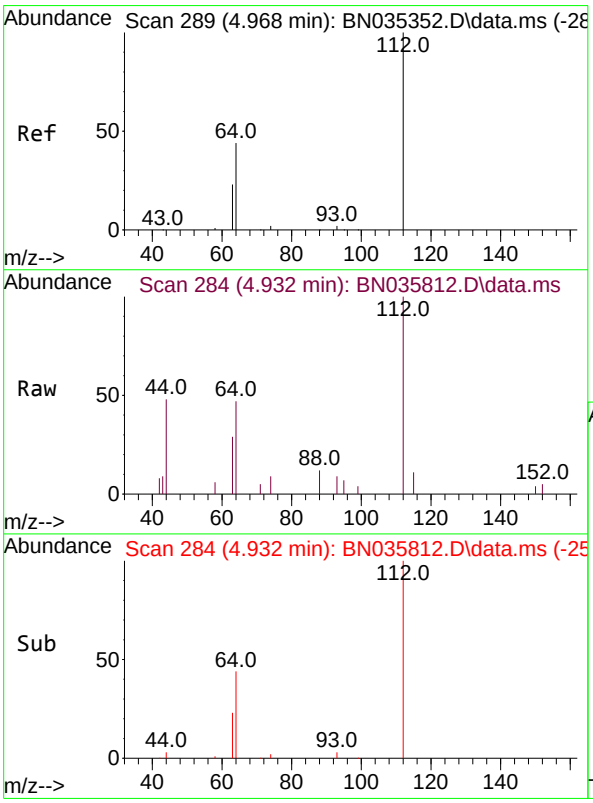
Ion	Ratio	Lower	Upper
152	100		
150	150.9	124.0	186.0
115	61.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
APPROVED

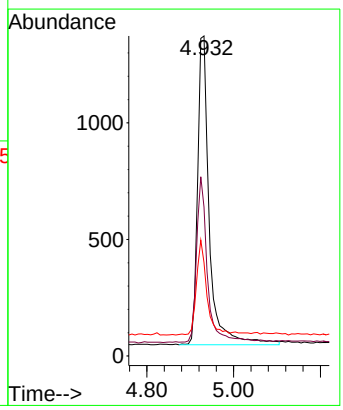
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

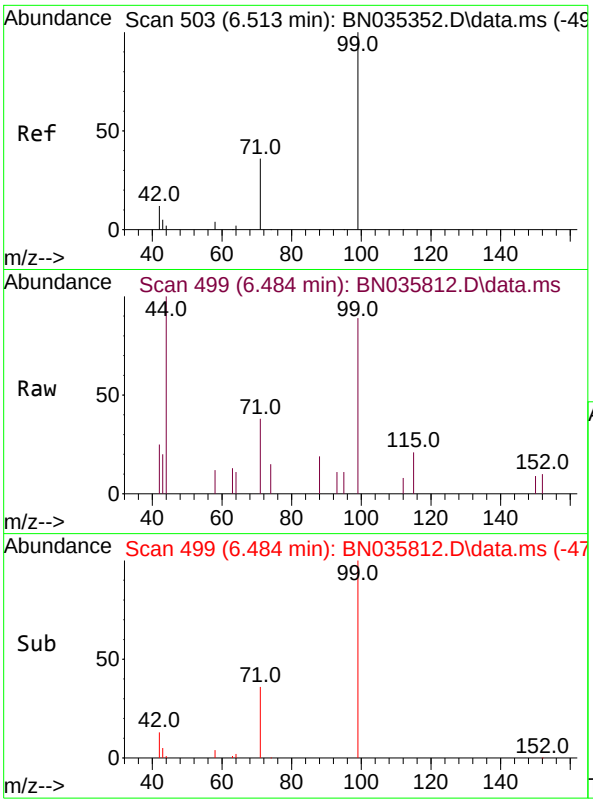


#4
2-Fluorophenol
Concen: 0.312 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:112 Resp: 2496

Ion	Ratio	Lower	Upper
112	100		
64	49.3	39.8	59.8
63	27.1	21.0	31.6

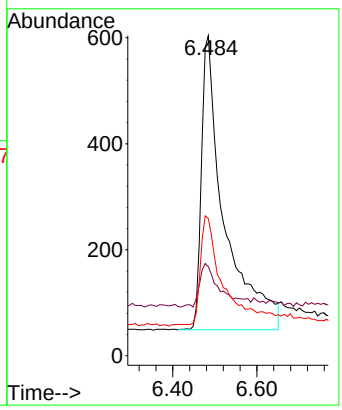




#5
Phenol-d6
Concen: 0.218 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion: 99 Resp: 209

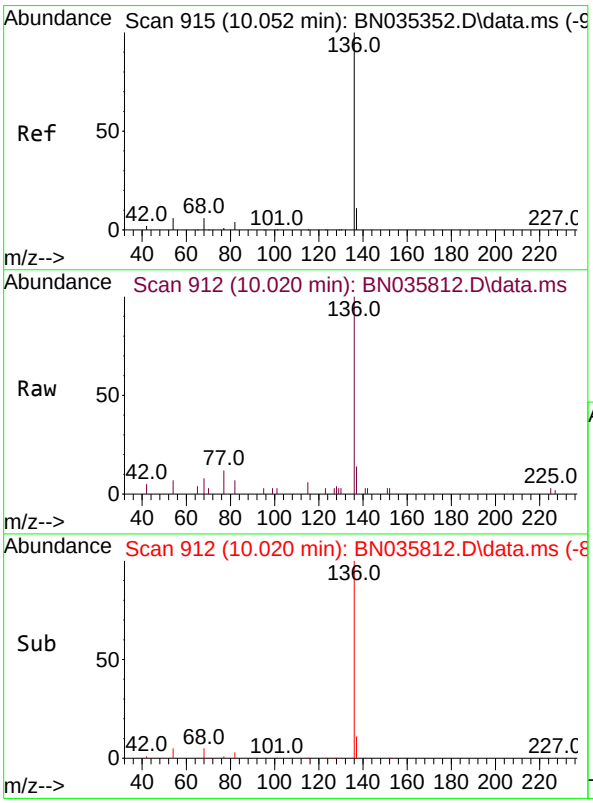
Ion	Ratio	Lower	Upper
99	100		
42	13.4	11.4	17.2
71	37.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
APPROVED

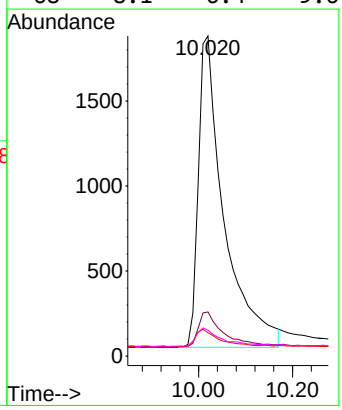
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

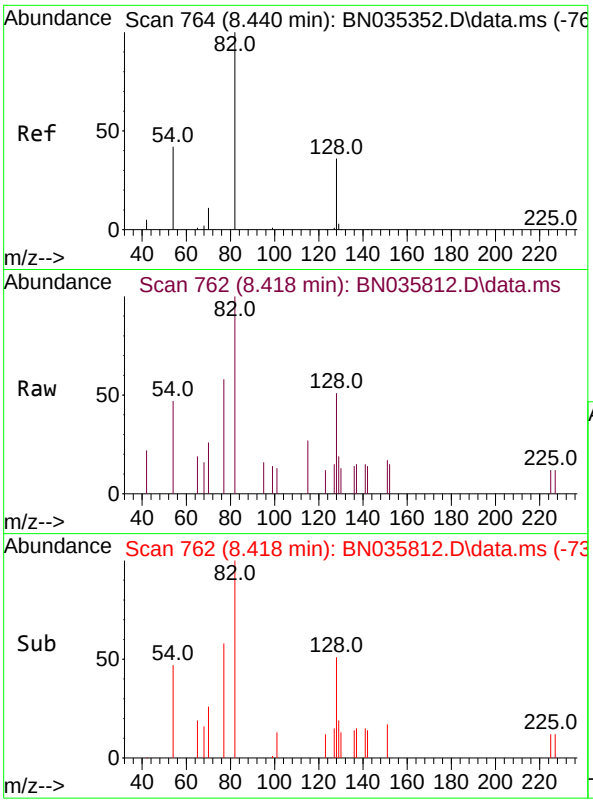


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:136 Resp: 6952

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.2	15.2
54	7.3	6.1	9.1
68	8.1	6.4	9.6

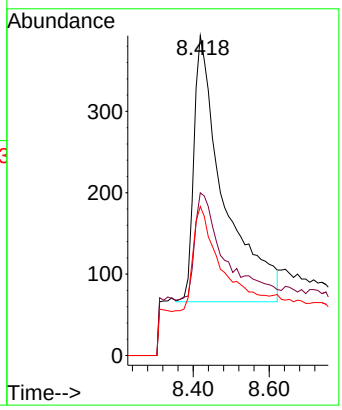




#8
Nitrobenzene-d5
Concen: 0.420 ng m
RT: 8.418 min Scan# 7
Delta R.T. 0.010 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion: 82 Resp: 178

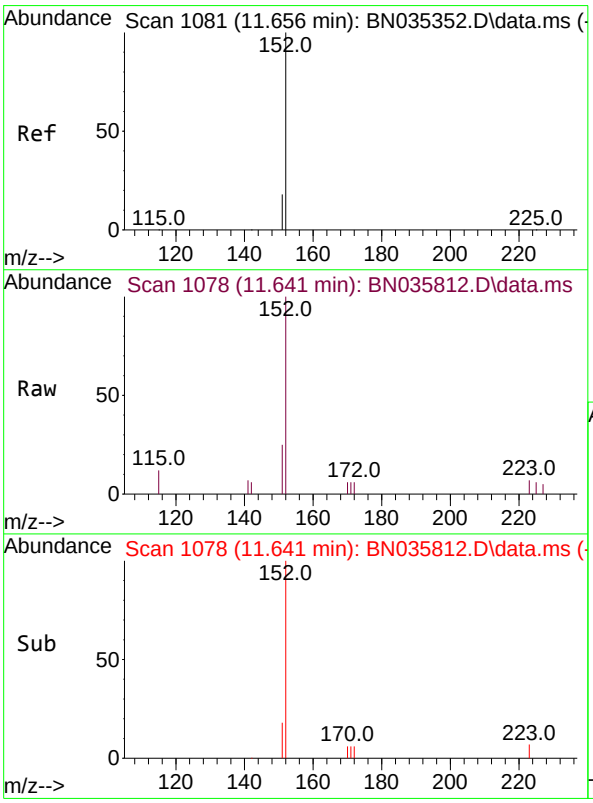
Ion	Ratio	Lower	Upper
82	100		
128	50.9	33.4	50.0
54	46.6	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
APPROVED

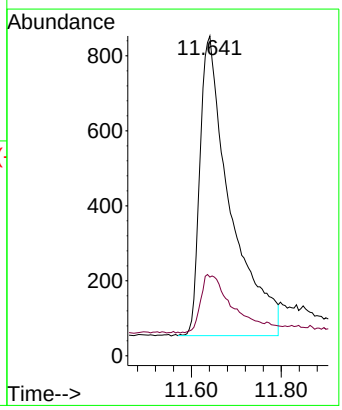
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

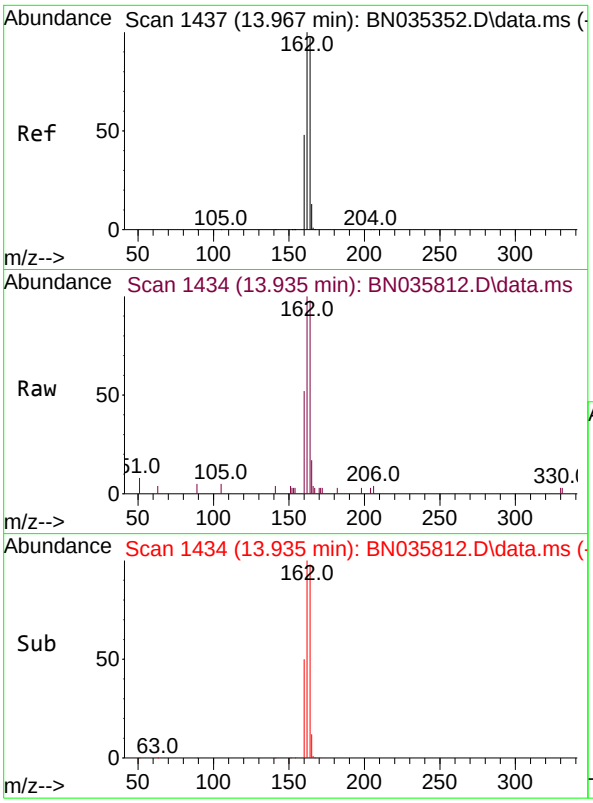


#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:152 Resp: 3741

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.6	25.0

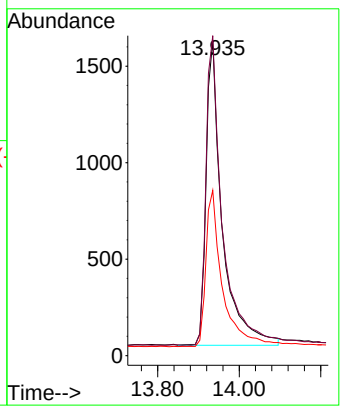




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.935 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:164 Resp: 434

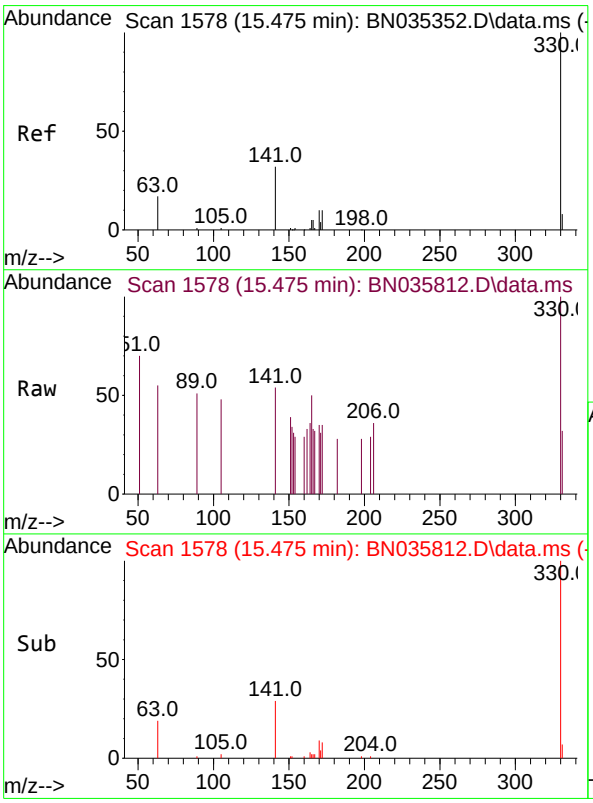
Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.2	123.2
160	52.5	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
APPROVED

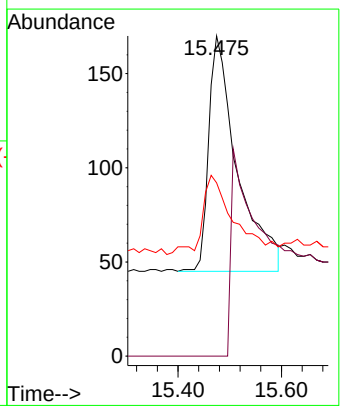
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

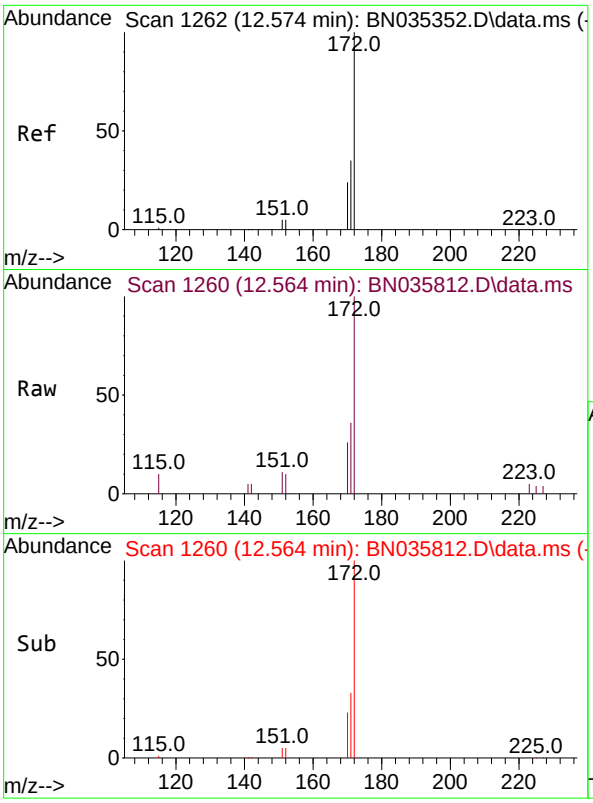


#14
2,4,6-Tribromophenol
Concen: 0.159 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:330 Resp: 490

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.3	26.6	40.0

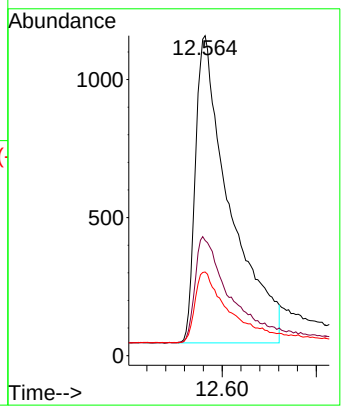




#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.564 min Scan# 1
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:172 Resp: 565

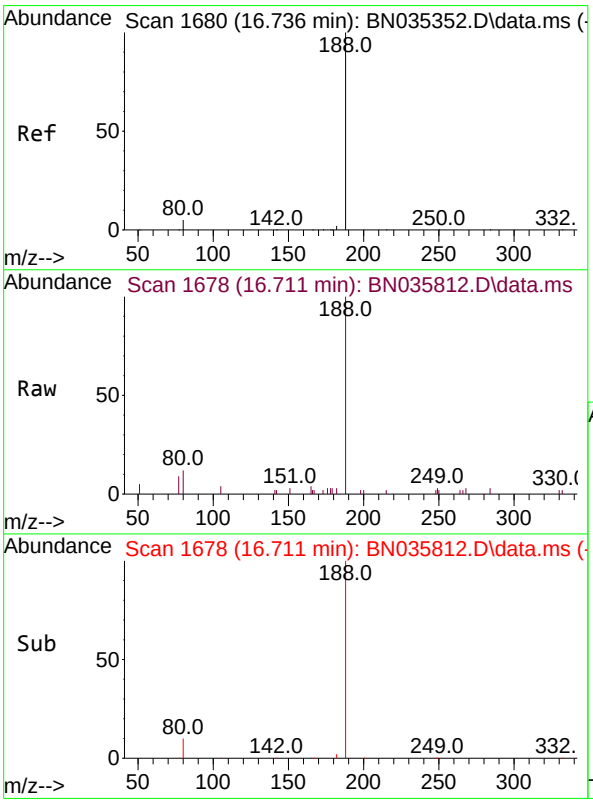
Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	26.1	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
APPROVED

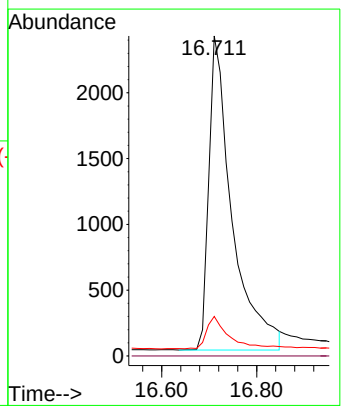
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

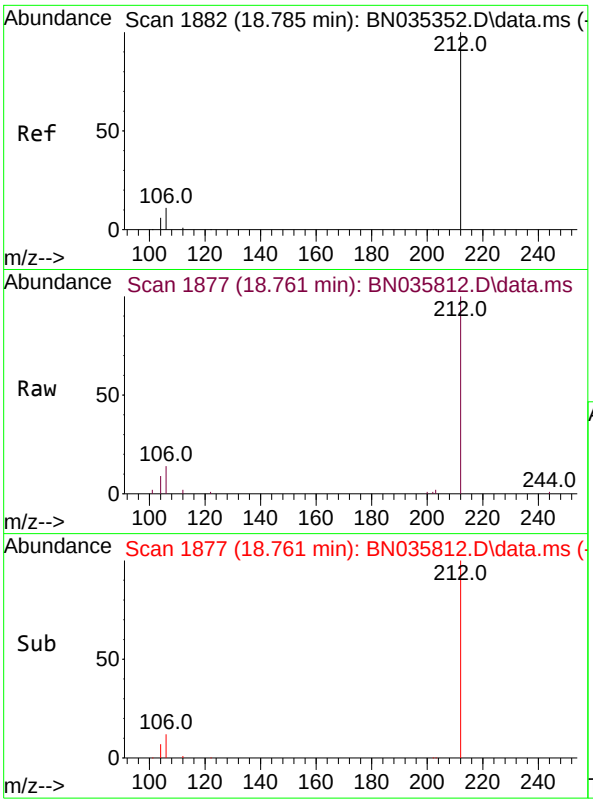


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:188 Resp: 8099

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.3	4.6	6.8#

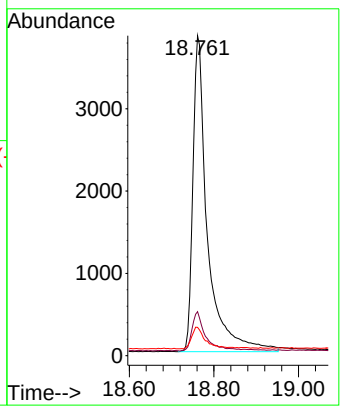




#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:212 Resp: 918

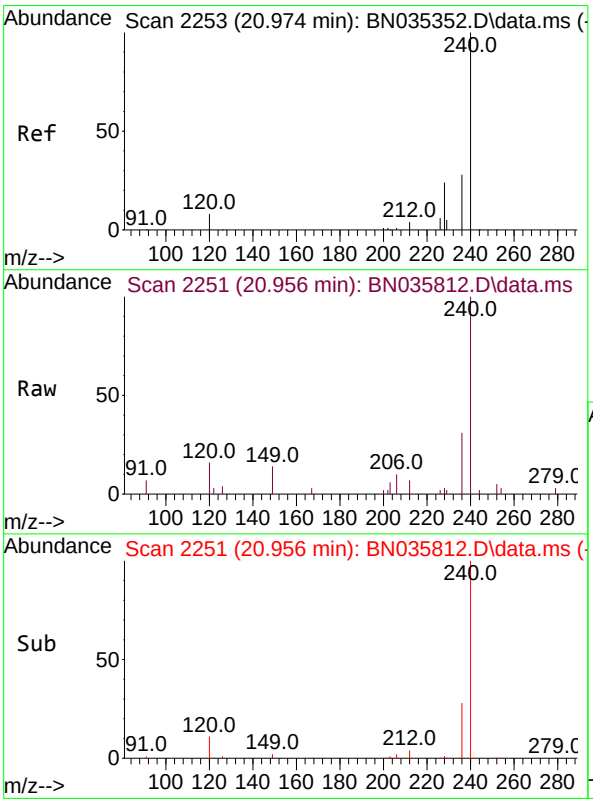
Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.3	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
APPROVED

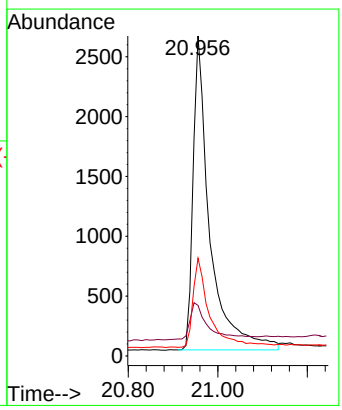
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

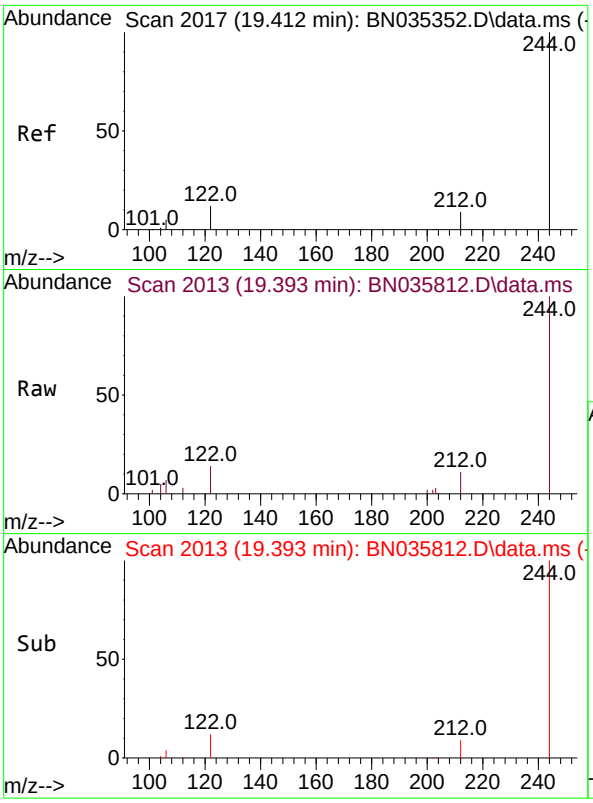


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:240 Resp: 6756

Ion	Ratio	Lower	Upper
240	100		
120	15.8	7.9	11.9#
236	30.6	22.9	34.3

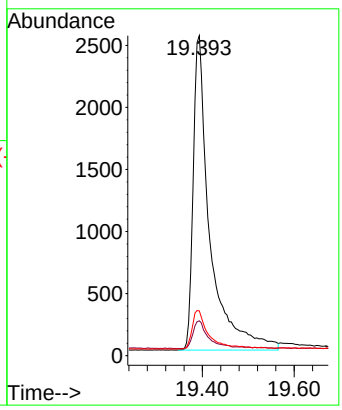




#31
Terphenyl-d14
Concen: 0.481 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:244 Resp: 641

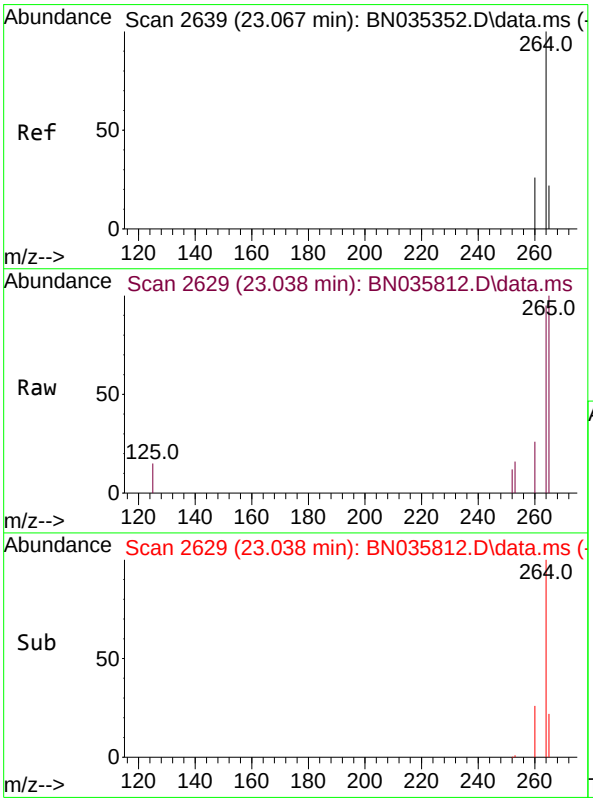
Ion	Ratio	Lower	Upper
244	100		
212	10.9	8.1	12.1
122	14.0	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
APPROVED

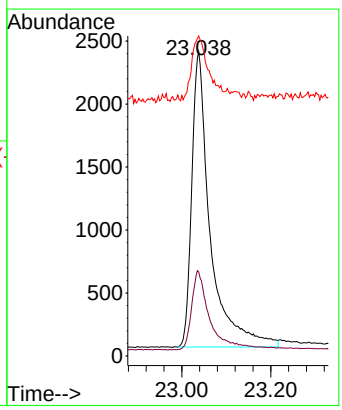
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:264 Resp: 6747

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.4	32.2
265	105.1	40.2	60.4#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165828BS	SDG No.:	P5376
Lab Sample ID:	PB165828BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035852.D	1	12/23/24 13:29	12/26/24 14:19	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.47		30 - 150		116%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		122%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4430	7.257				
1146-65-2	Naphthalene-d8	10900	9.998				
15067-26-2	Acenaphthene-d10	6430	13.914				
1517-22-2	Phenanthrene-d10	13000	16.686				
1719-03-5	Chrysene-d12	9260	20.938				
1520-96-3	Perylene-d12	9150	23.023				

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\BN122624\
Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	4431	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	10905	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	6427	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	13001	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9257	0.400	ng	#-0.02
35) Perylene-d12	23.023	264	9148	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3645	0.329	ng	-0.01
5) Phenol-d6	6.470	99	4024	0.302	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3243m	0.487	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	7947	0.466	ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	913	0.200	ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	9578	0.394	ng	-0.02
27) Fluoranthene-d10	18.747	212	12504	0.339	ng	-0.01
31) Terphenyl-d14	19.379	244	8698	0.476	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1467	0.346	ng	# 88
3) n-Nitrosodimethylamine	3.263	42	1440	0.408	ng	# 88
6) bis(2-Chloroethyl)ether	6.708	93	3983	0.355	ng	99
9) Naphthalene	10.052	128	11935	0.415	ng	99
10) Hexachlorobutadiene	10.340	225	2551	0.385	ng	# 99
12) 2-Methylnaphthalene	11.681	142	7534	0.366	ng	96
16) Acenaphthylene	13.625	152	10983	0.407	ng	100
17) Acenaphthene	13.978	154	6982	0.390	ng	99
18) Fluorene	14.983	166	9056	0.353	ng	100
20) 4,6-Dinitro-2-methylph...	15.111	198	645	0.505	ng	92
21) 4-Bromophenyl-phenylether	15.904	248	2685	0.353	ng	97
22) Hexachlorobenzene	15.991	284	3862	0.432	ng	96
23) Atrazine	16.189	200	2110	0.390	ng	96
24) Pentachlorophenol	16.363	266	1614	0.415	ng	# 85
25) Phenanthrene	16.735	178	14161	0.397	ng	100
26) Anthracene	16.822	178	12409	0.384	ng	99
28) Fluoranthene	18.780	202	15692	0.326	ng	99
30) Pyrene	19.147	202	15917	0.466	ng	100
32) Benzo(a)anthracene	20.929	228	11832	0.365	ng	99
33) Chrysene	20.974	228	14241	0.426	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	5313	0.415	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15551	0.435	ng	99
37) Benzo(b)fluoranthene	22.415	252	19434	0.581	ng	# 96
38) Benzo(k)fluoranthene	22.456	252	14469	0.439	ng	95
39) Benzo(a)pyrene	22.936	252	11624	0.422	ng	# 91
40) Dibenzo(a,h)anthracene	25.061	278	11696	0.414	ng	95
41) Benzo(g,h,i)perylene	25.649	276	12710	0.431	ng	98

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

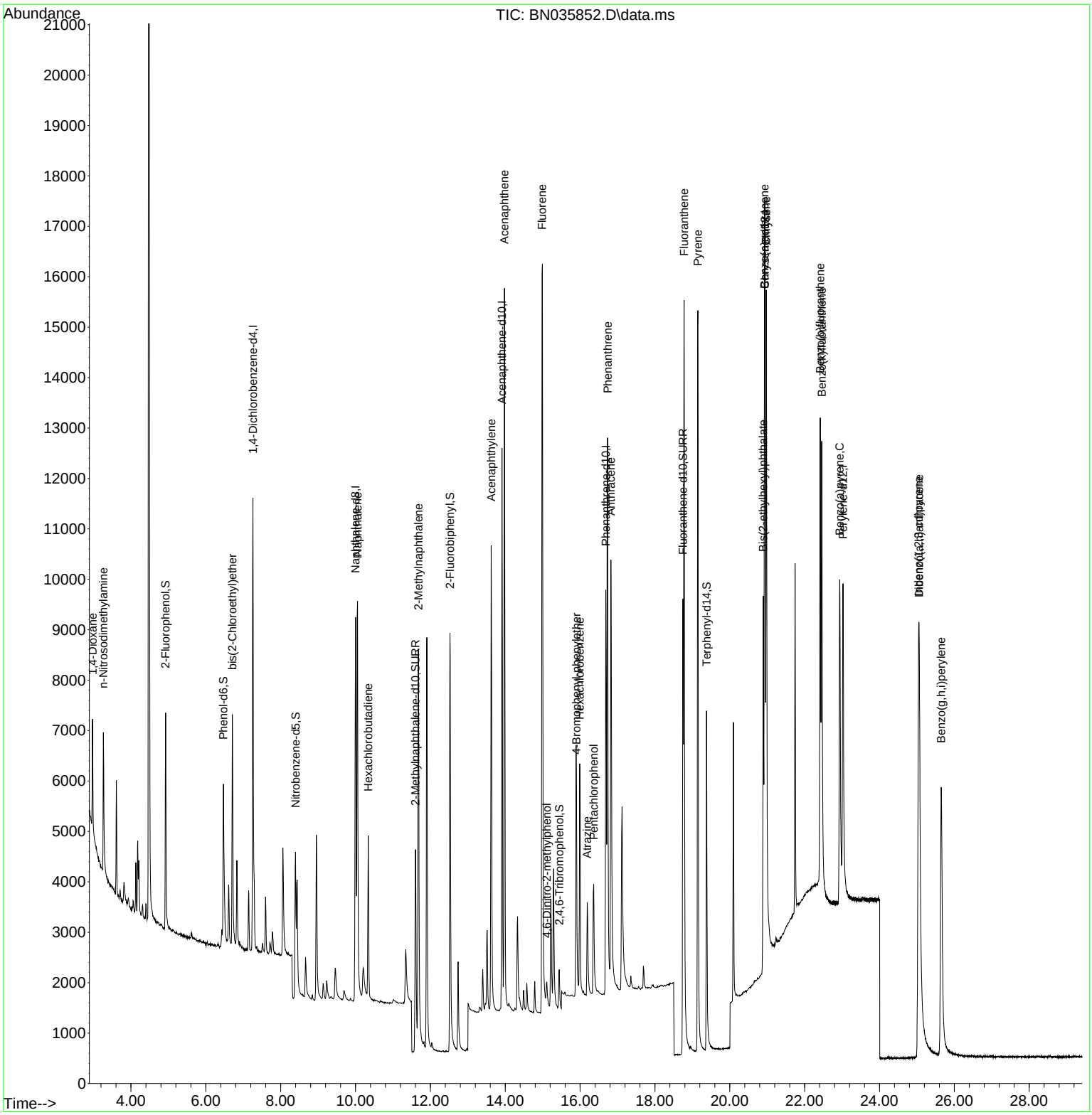
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Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

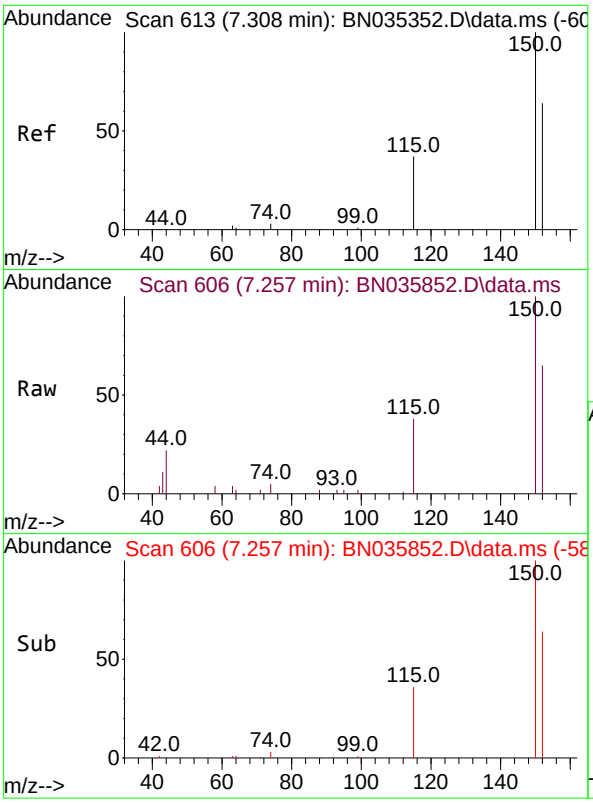
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
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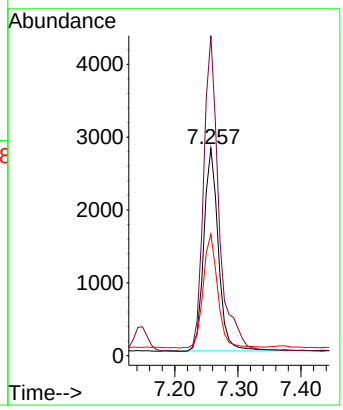




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 443

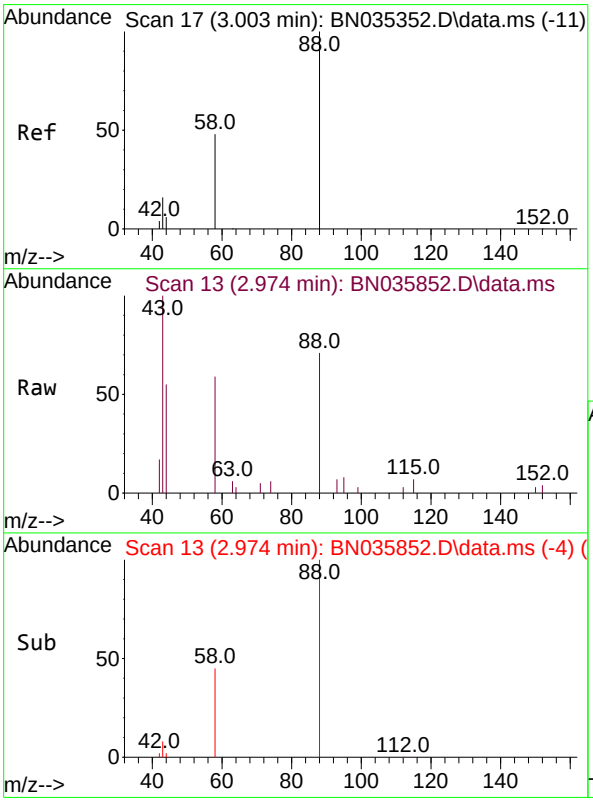
Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.0	186.0
115	58.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

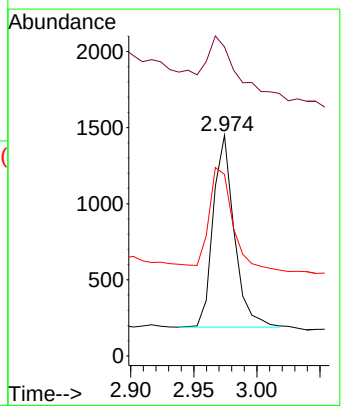
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

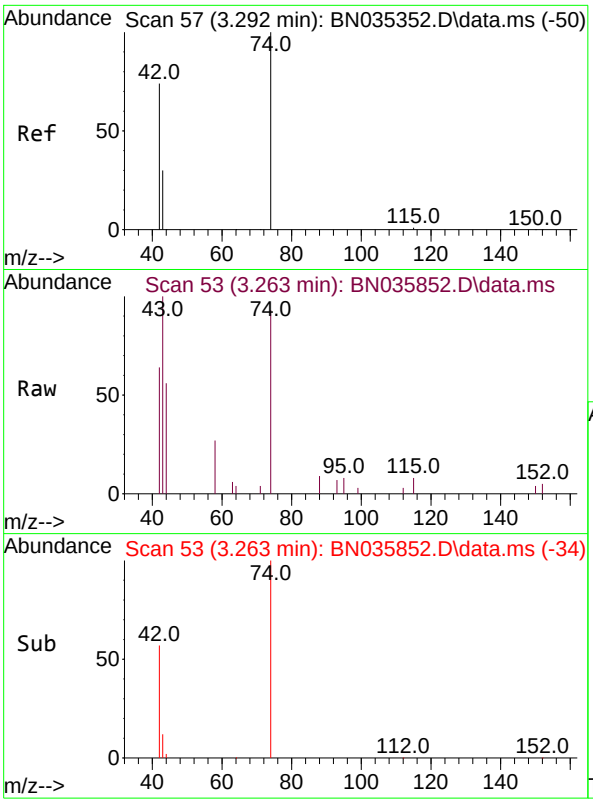


#2
1,4-Dioxane
Concen: 0.346 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 88 Resp: 1467

Ion	Ratio	Lower	Upper
88	100		
43	35.7	17.2	25.8#
58	59.5	44.5	66.7

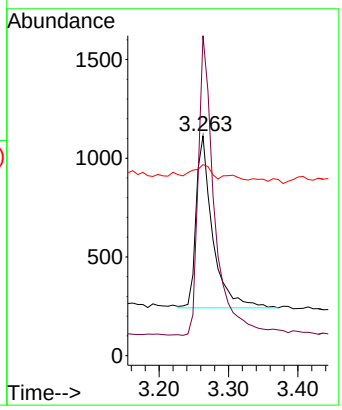




#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 42 Resp: 144

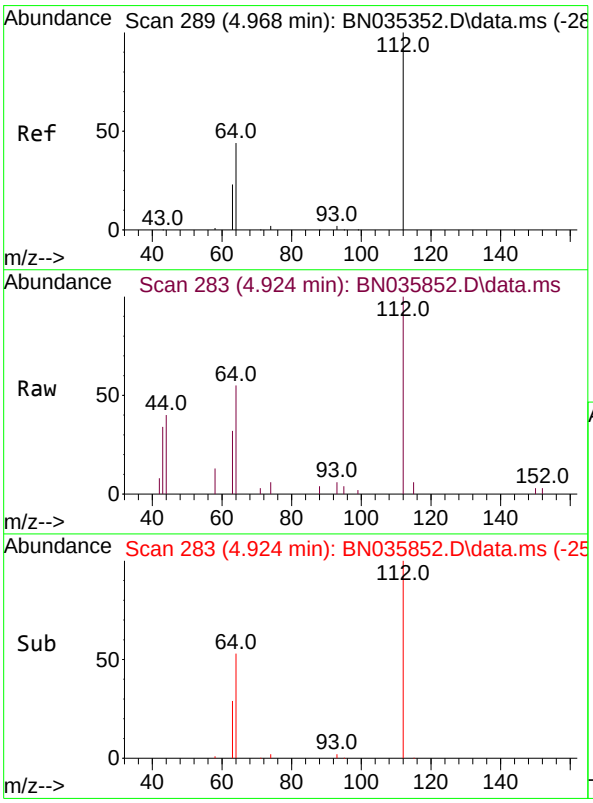
Ion	Ratio	Lower	Upper
42	100		
74	172.0	124.9	187.3
44	8.5	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

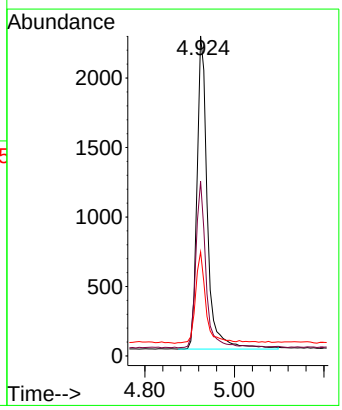
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

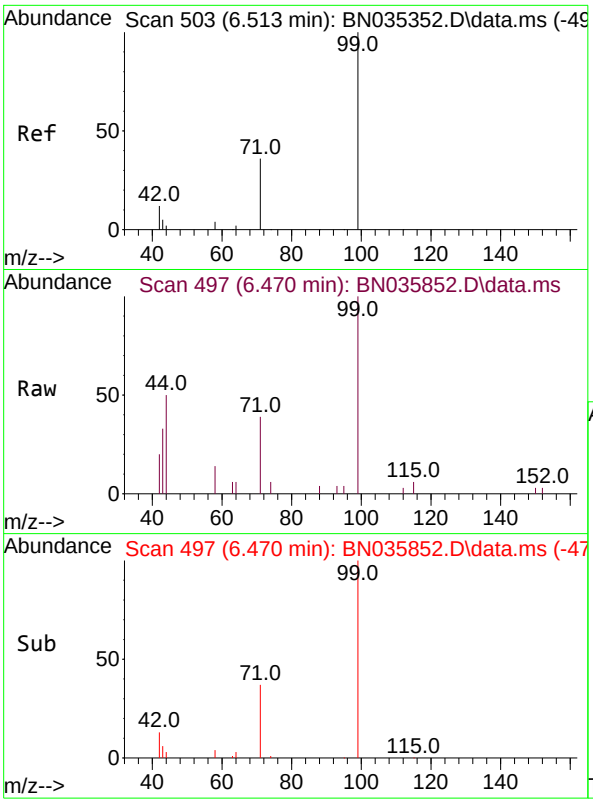


#4
2-Fluorophenol
Concen: 0.329 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:112 Resp: 3645

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	28.7	21.0	31.6

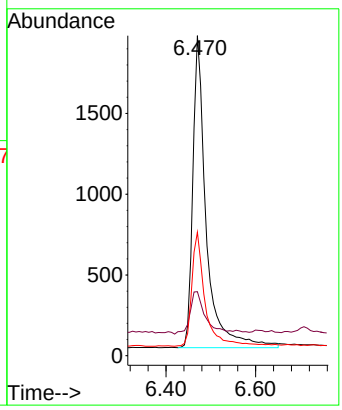




#5
Phenol-d6
Concen: 0.302 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 99 Resp: 402

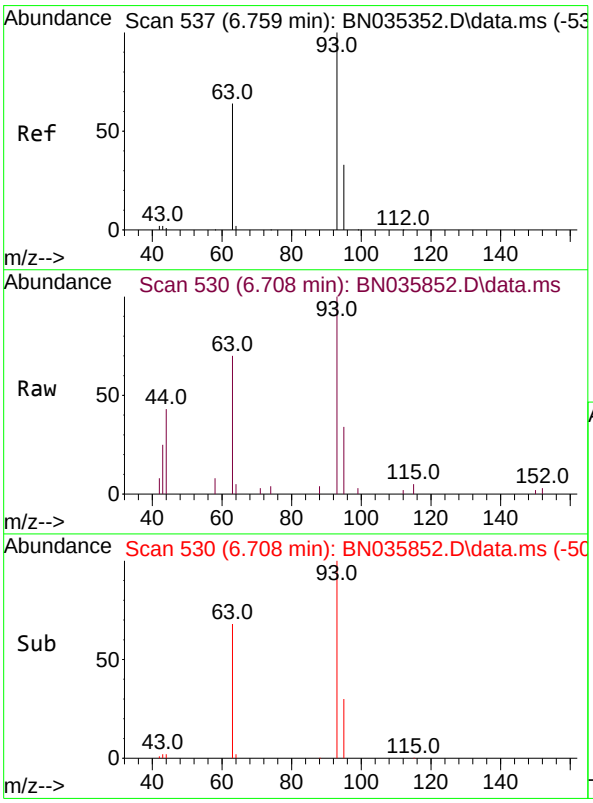
Ion	Ratio	Lower	Upper
99	100		
42	15.6	11.4	17.2
71	36.4	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

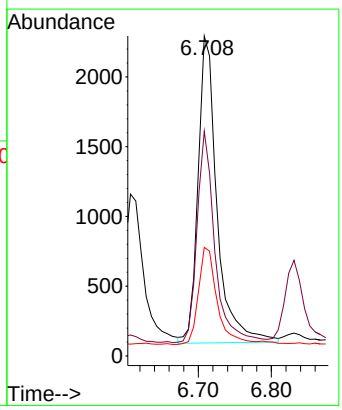
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

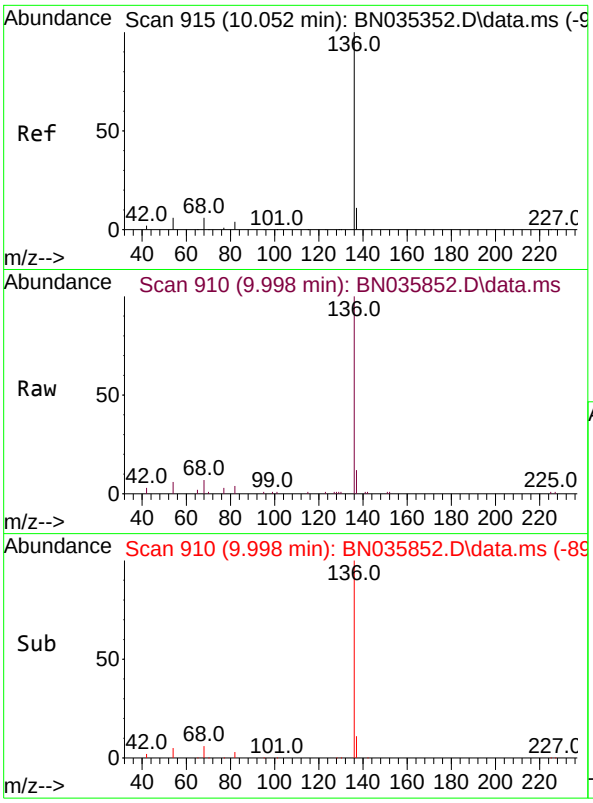


#6
bis(2-Chloroethyl)ether
Concen: 0.355 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 93 Resp: 3983

Ion	Ratio	Lower	Upper
93	100		
63	64.4	50.4	75.6
95	32.1	25.7	38.5

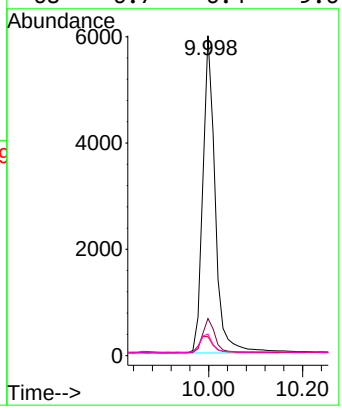




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:136 Resp: 1090

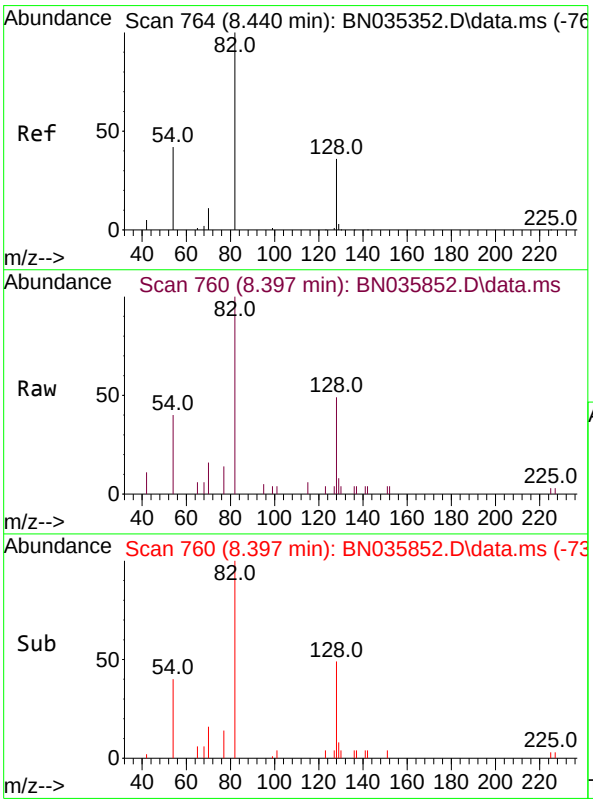
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.9	6.1	9.1
68	6.7	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations APPROVED

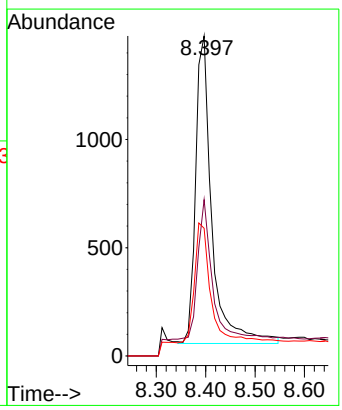
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

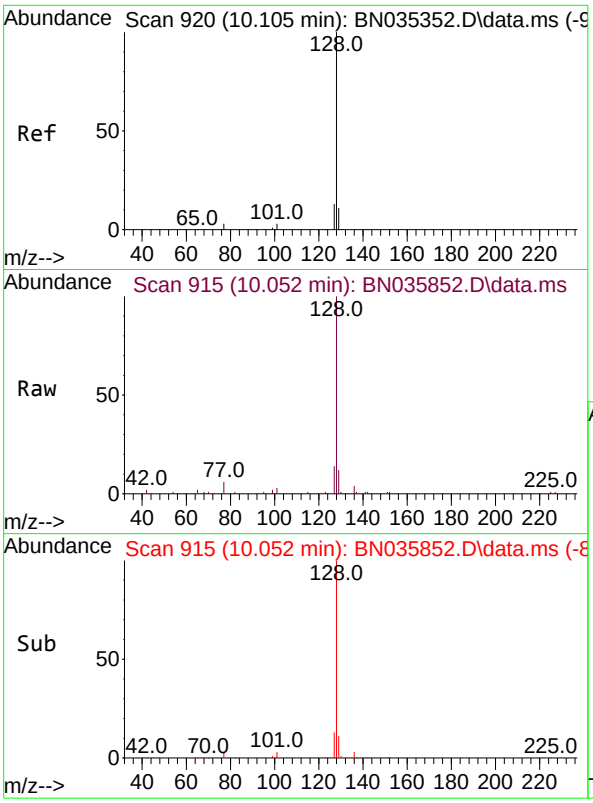


#8
Nitrobenzene-d5
Concen: 0.487 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 82 Resp: 3243

Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	39.9	36.7	55.1

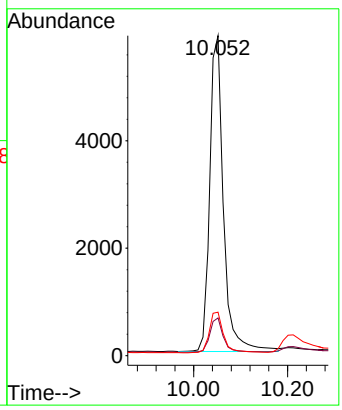




#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:128 Resp: 1193

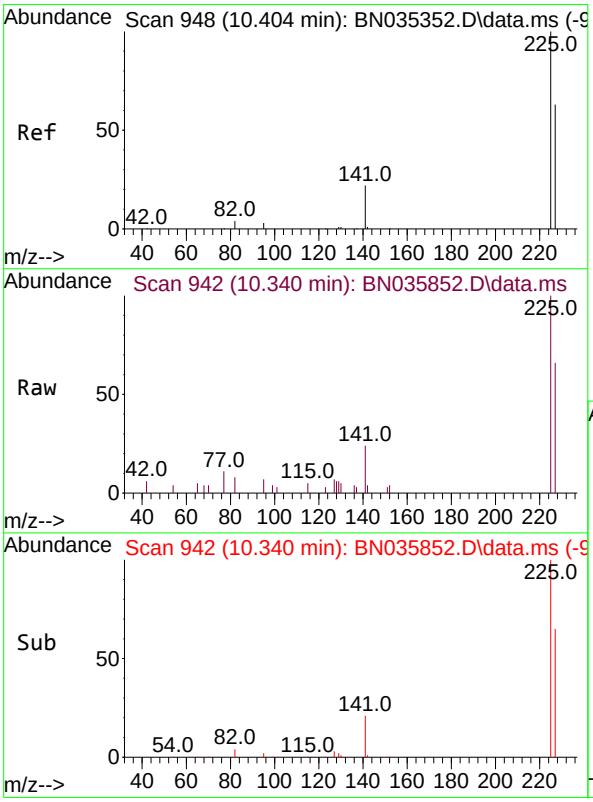
Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.8	14.6
127	13.6	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

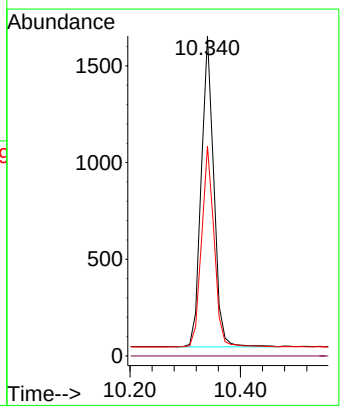
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

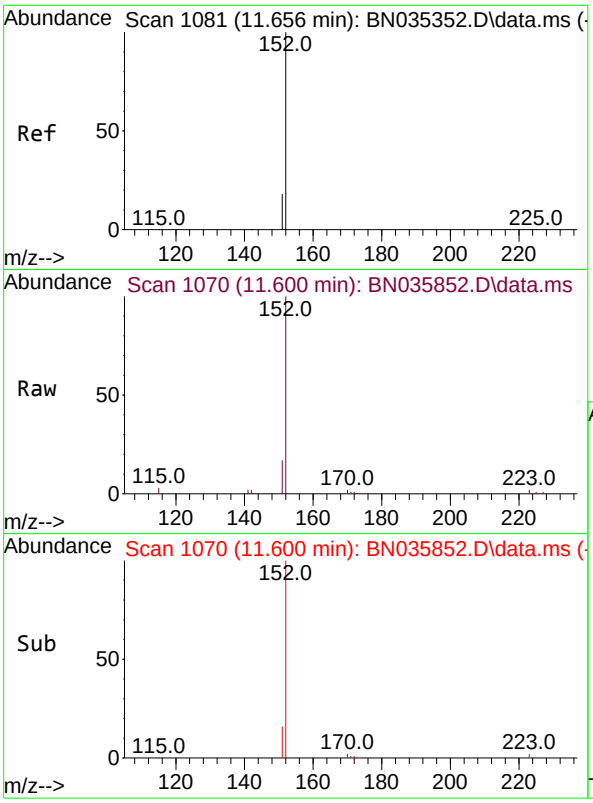


#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:225 Resp: 2551

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9

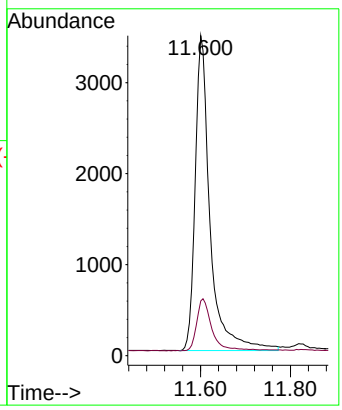




#11
2-Methylnaphthalene-d10
Concen: 0.466 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 794

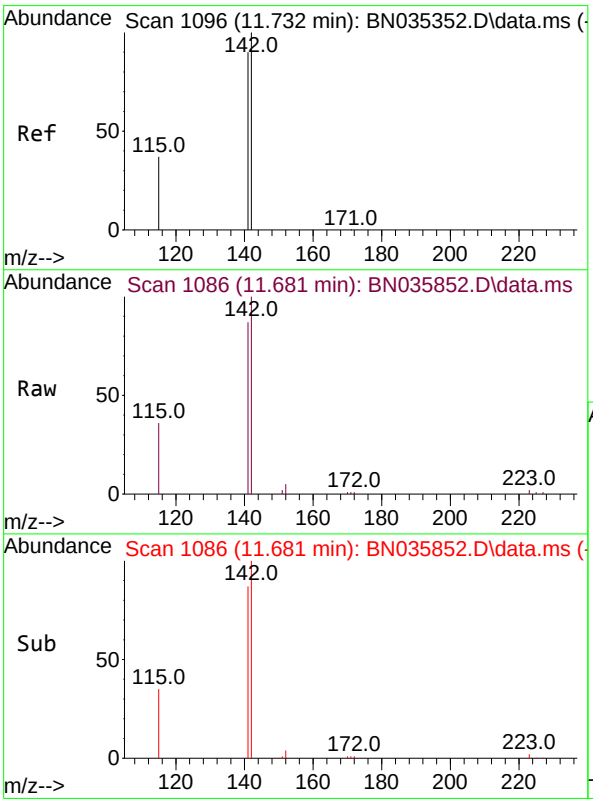
Ion	Ratio	Lower	Upper
152	100		
151	16.8	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
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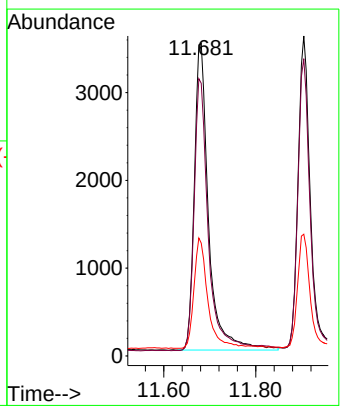
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

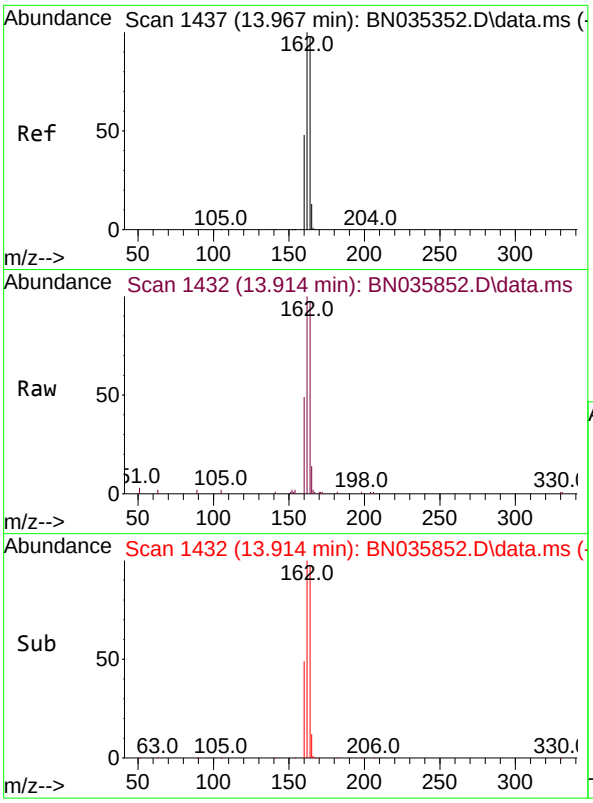


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:142 Resp: 7534

Ion	Ratio	Lower	Upper
142	100		
141	87.3	72.2	108.4
115	36.1	31.4	47.0

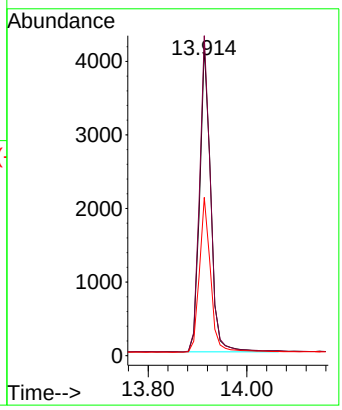




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:164 Resp: 642

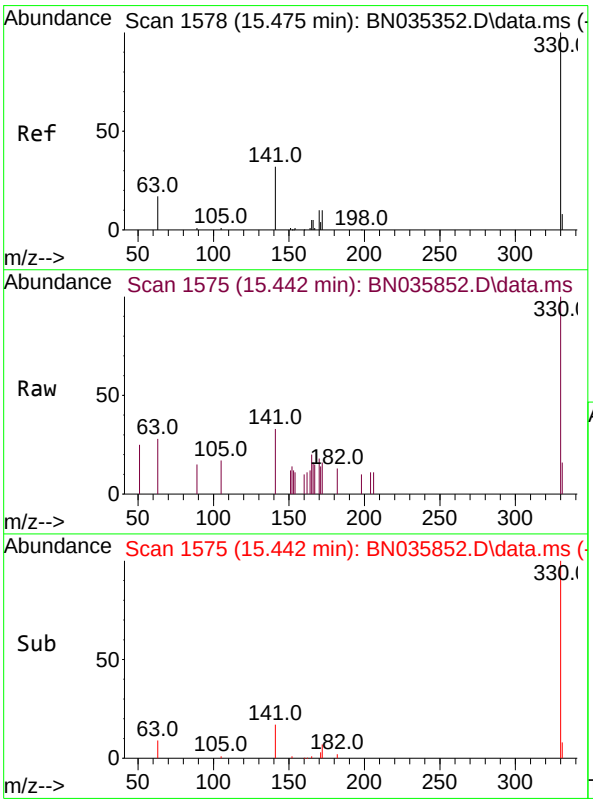
Ion	Ratio	Lower	Upper
164	100		
162	103.4	82.2	123.2
160	51.1	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

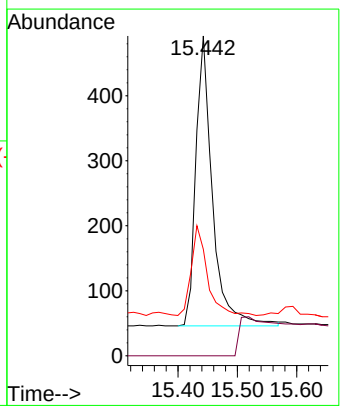
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

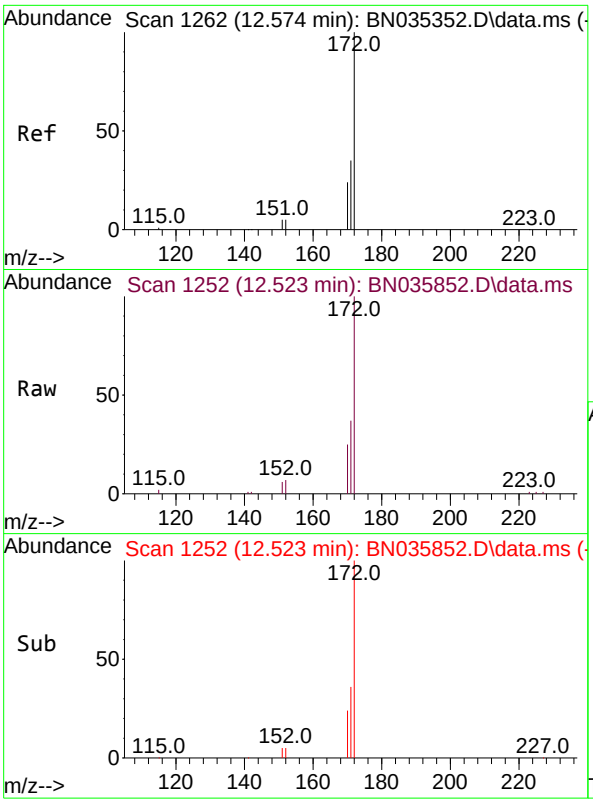


#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:330 Resp: 913

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0

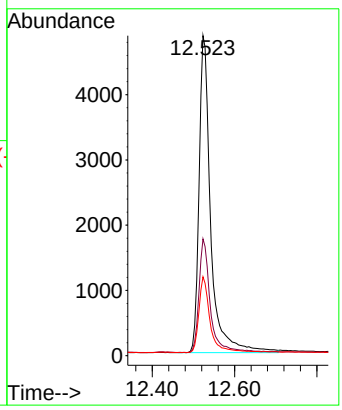




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:172 Resp: 957

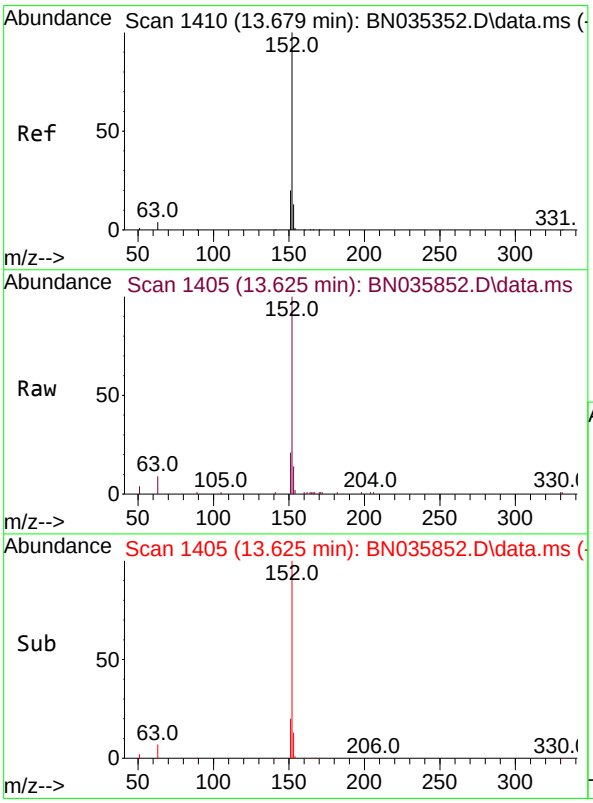
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.6	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

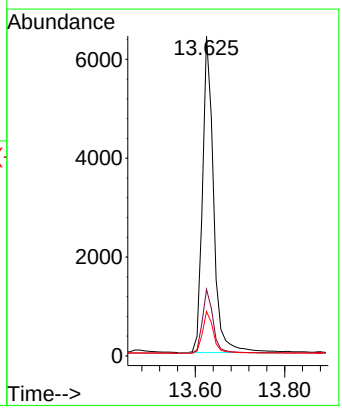
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

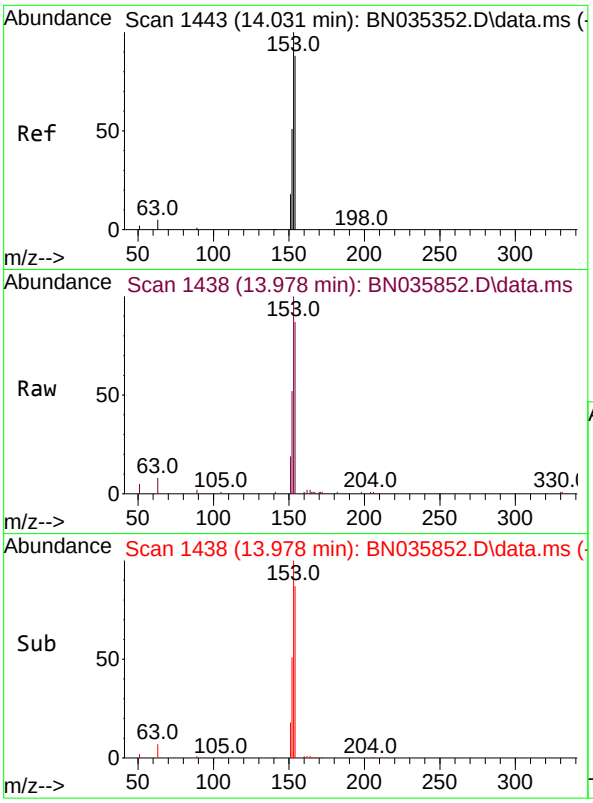


#16
Acenaphthylene
Concen: 0.407 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 10983

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.3	10.4	15.6

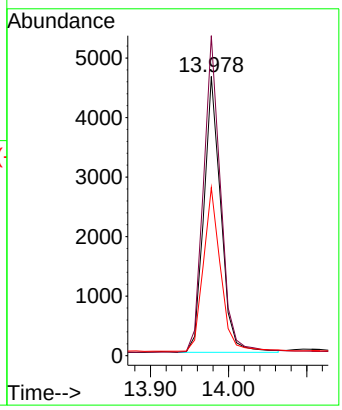




#17
Acenaphthene
Concen: 0.390 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:154 Resp: 698

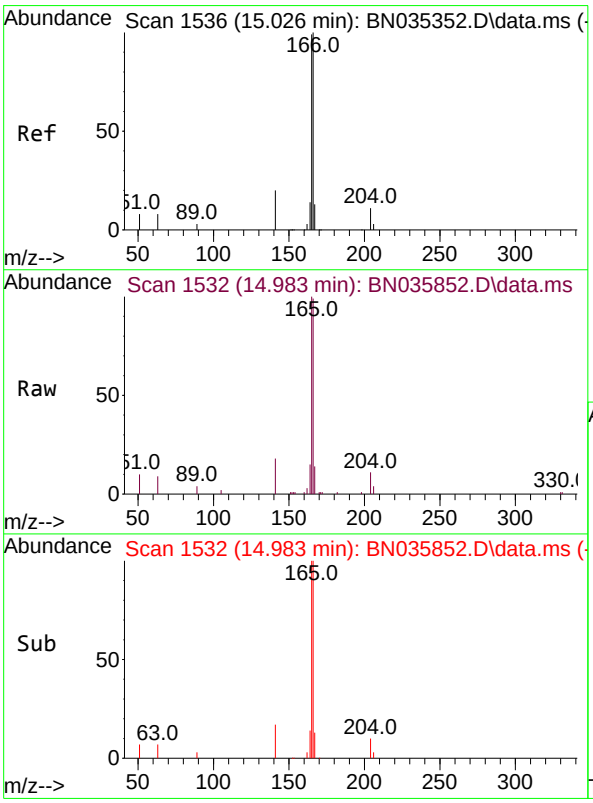
Ion	Ratio	Lower	Upper
154	100		
153	117.4	92.6	139.0
152	60.2	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

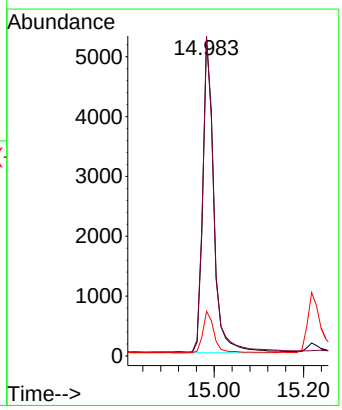
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

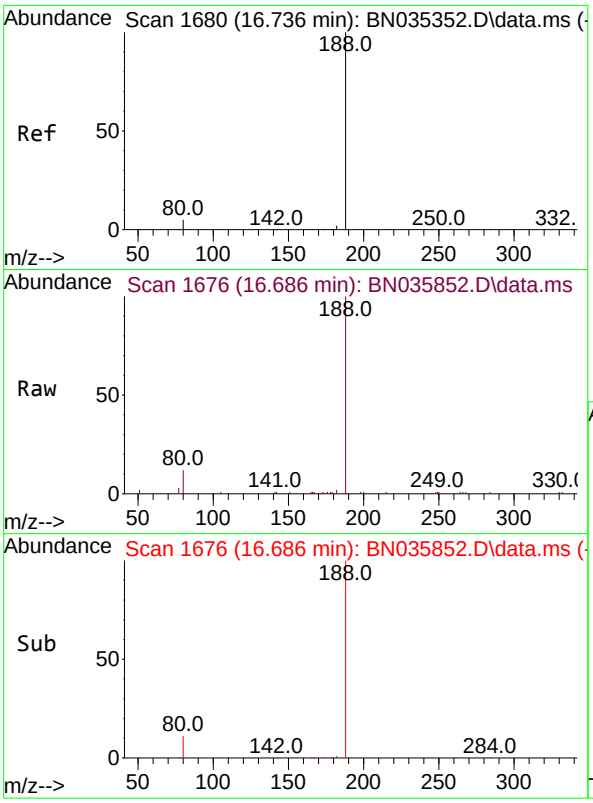


#18
Fluorene
Concen: 0.353 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:166 Resp: 9056

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.7	119.5
167	13.2	10.8	16.2

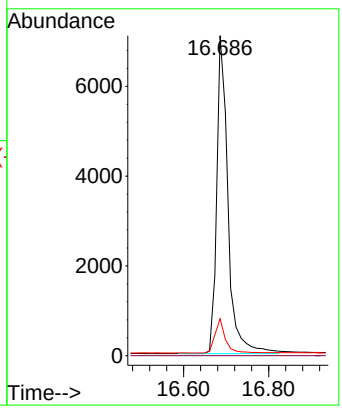




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:188 Resp: 1300

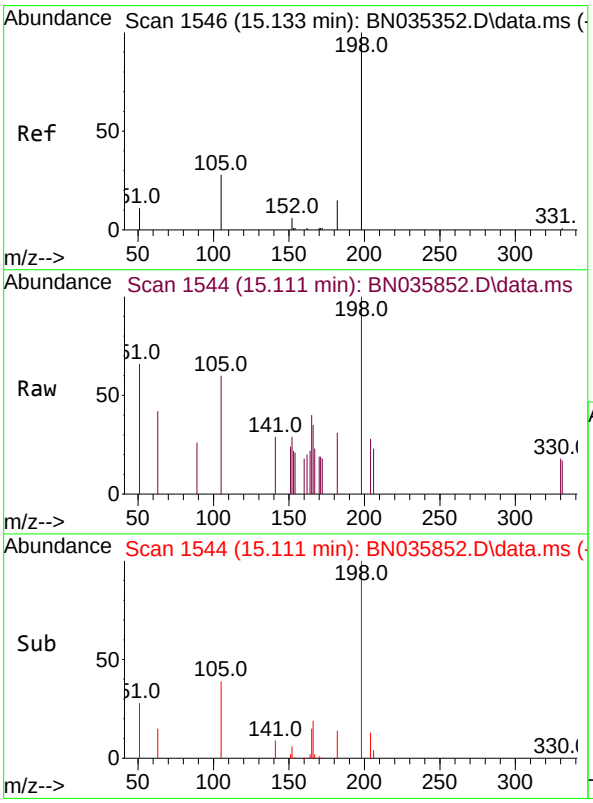
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

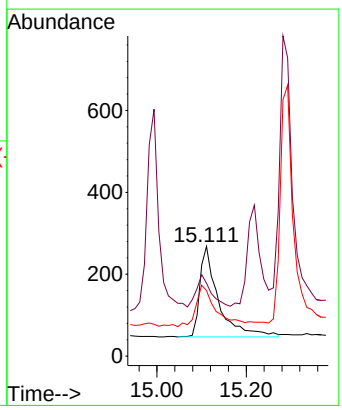
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

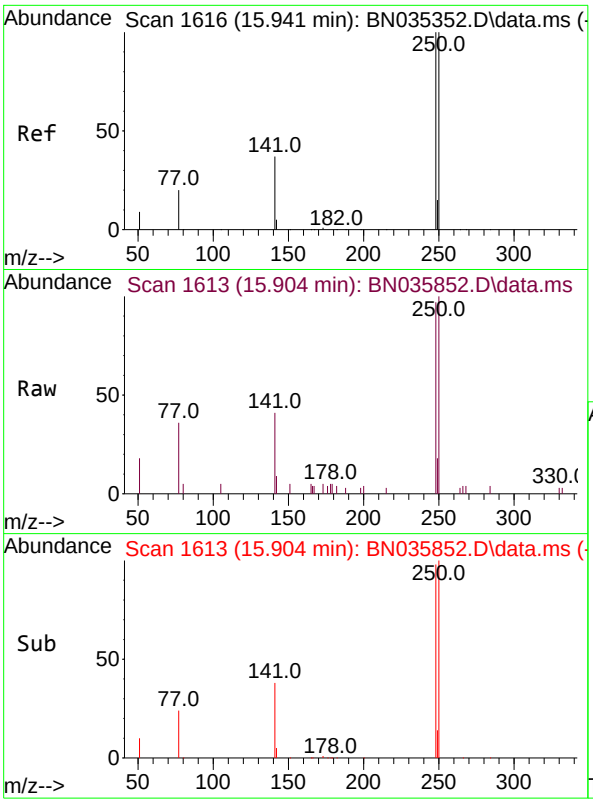


#20
4,6-Dinitro-2-methylphenol
Concen: 0.505 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:198 Resp: 645

Ion	Ratio	Lower	Upper
198	100		
51	66.4	46.5	69.7
105	59.7	45.3	67.9

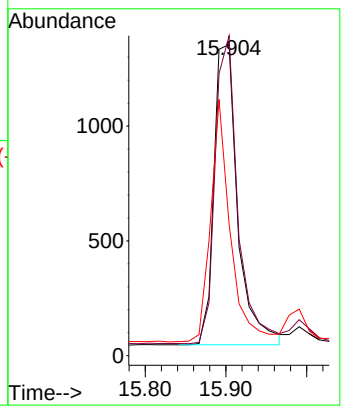




#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:248 Resp: 268

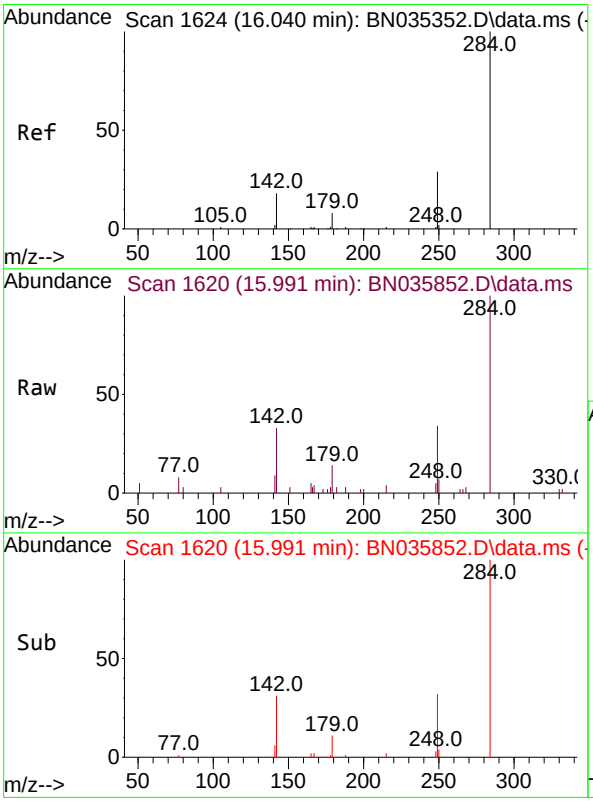
Ion	Ratio	Lower	Upper
248	100		
250	102.8	80.6	120.8
141	42.2	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

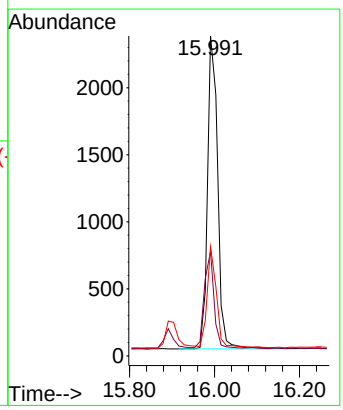
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

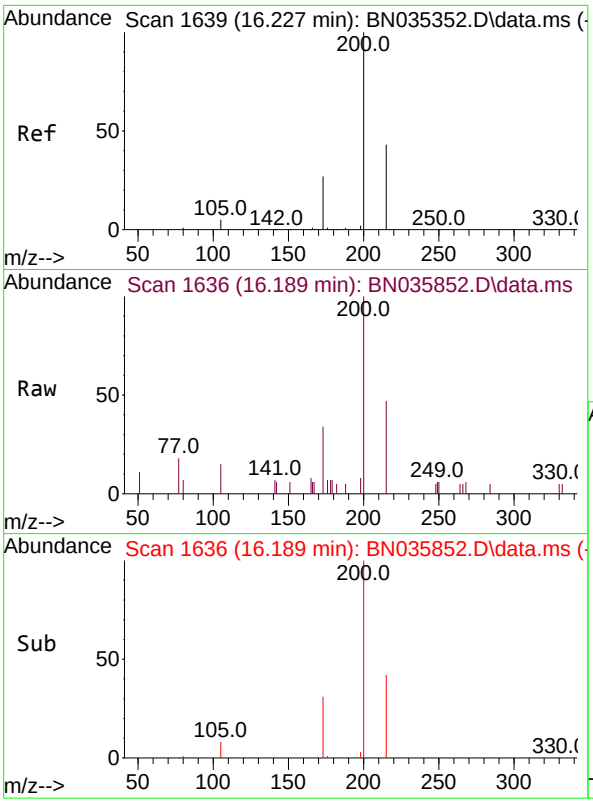


#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:284 Resp: 3862

Ion	Ratio	Lower	Upper
284	100		
142	29.3	26.7	40.1
249	30.2	24.6	36.8





#23
Atrazine
Concen: 0.390 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

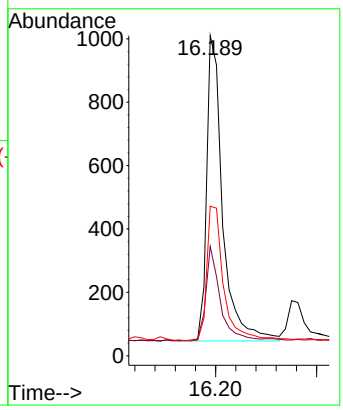
Tgt Ion:200 Resp: 211(

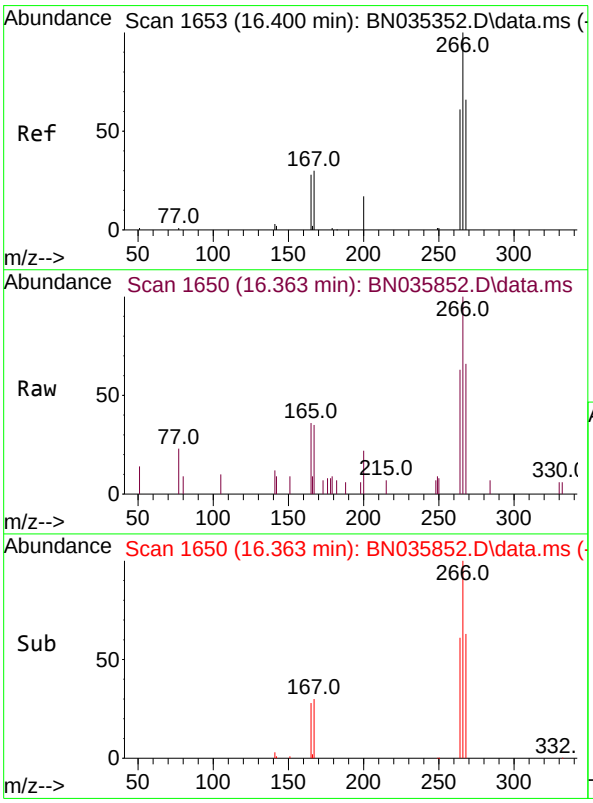
Ion	Ratio	Lower	Upper
200	100		
173	34.2	24.1	36.1
215	46.7	36.9	55.3

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
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Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

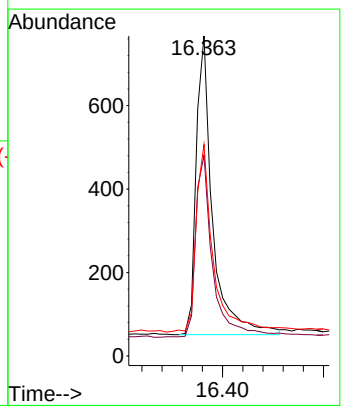


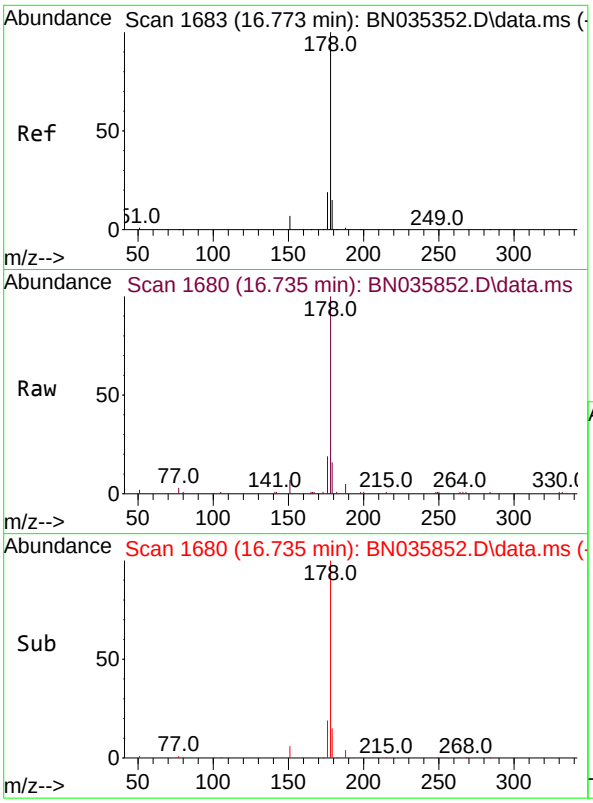


#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:266 Resp: 1614

Ion	Ratio	Lower	Upper
266	100		
264	63.1	42.3	63.5
268	65.7	43.3	64.9#

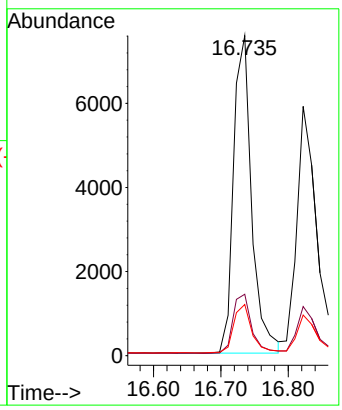




#25
Phenanthrene
Concen: 0.397 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 1416

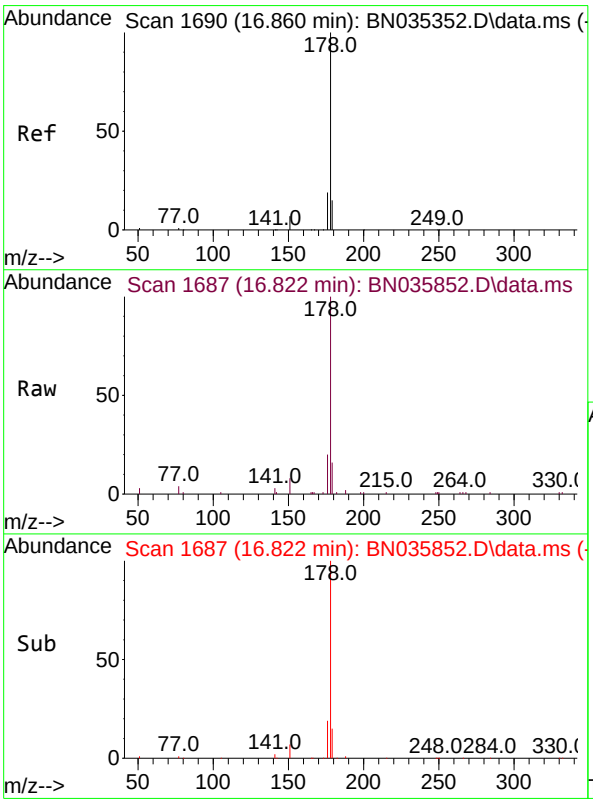
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

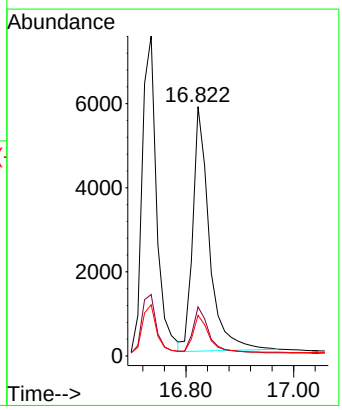
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

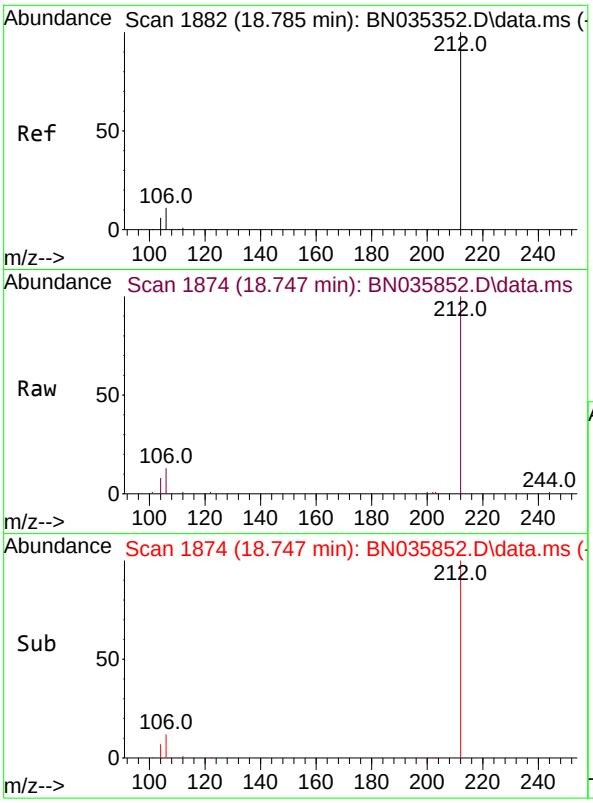


#26
Anthracene
Concen: 0.384 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 12409

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	14.9	12.6	18.8

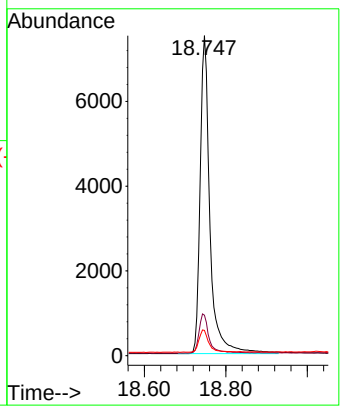




#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:212 Resp: 1250

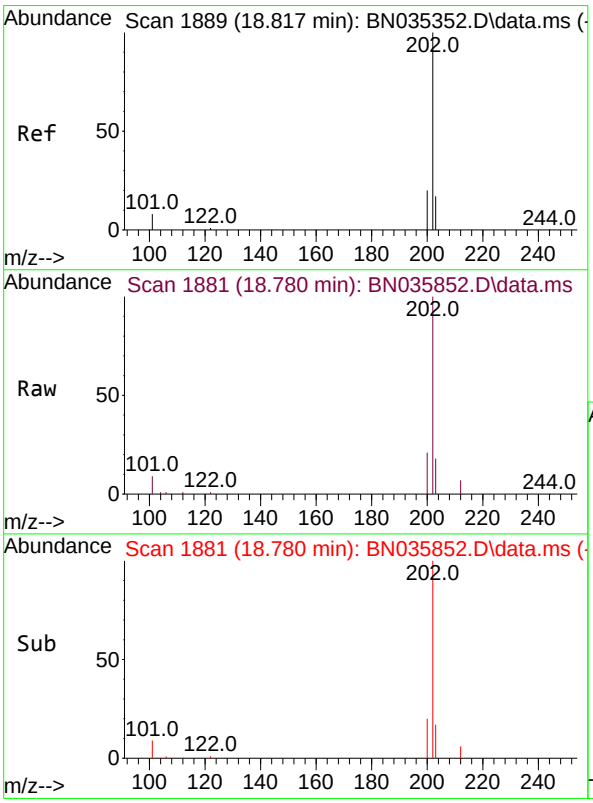
Ion	Ratio	Lower	Upper
212	100		
106	12.6	9.2	13.8
104	7.0	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

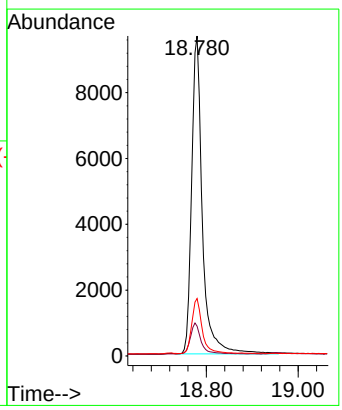
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

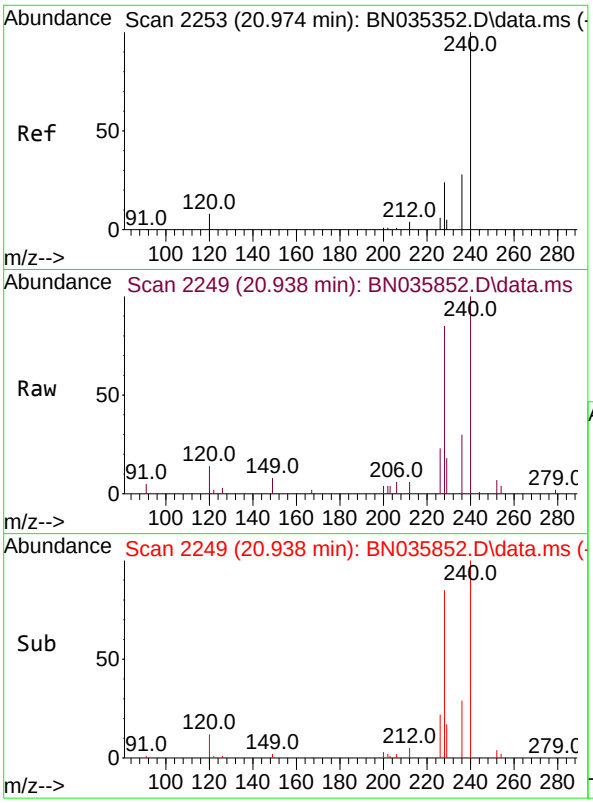


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15692

Ion	Ratio	Lower	Upper
202	100		
101	9.5	7.4	11.0
203	16.8	13.7	20.5

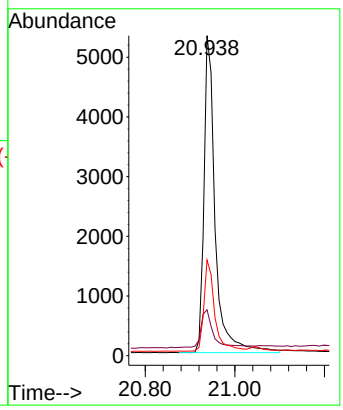




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:240 Resp: 925

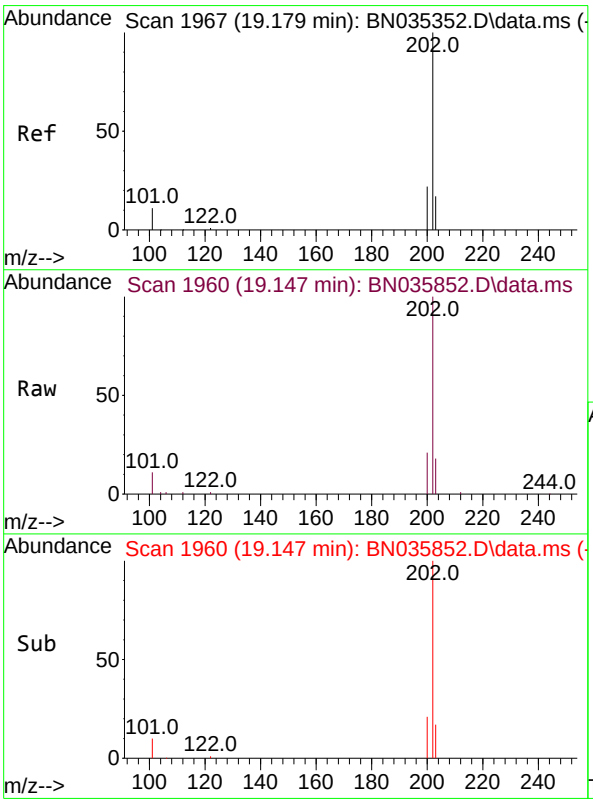
Ion	Ratio	Lower	Upper
240	100		
120	14.3	7.9	11.9#
236	29.9	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

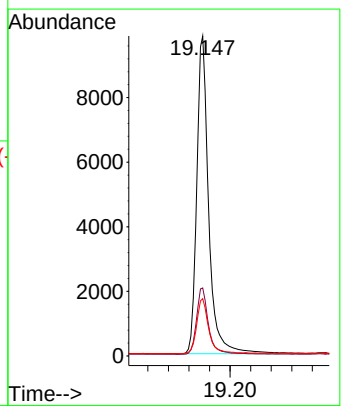
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

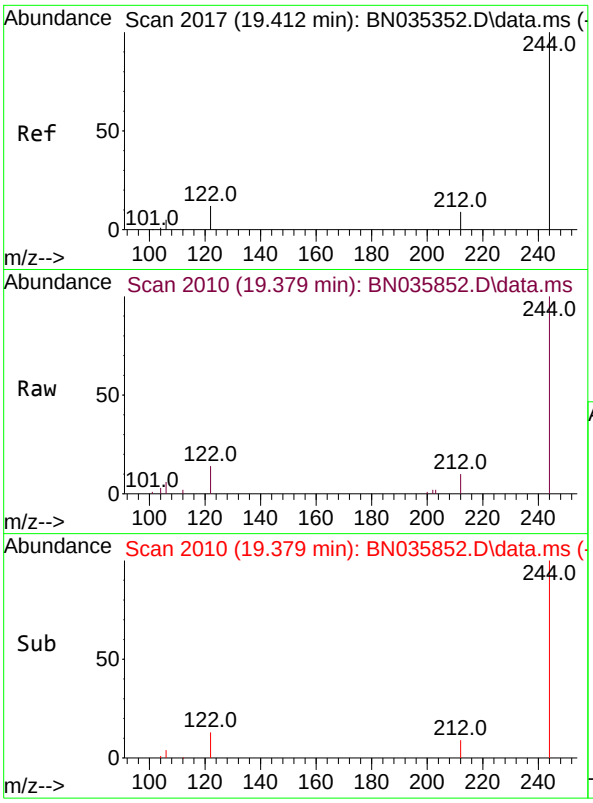


#30
Pyrene
Concen: 0.466 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15917

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5

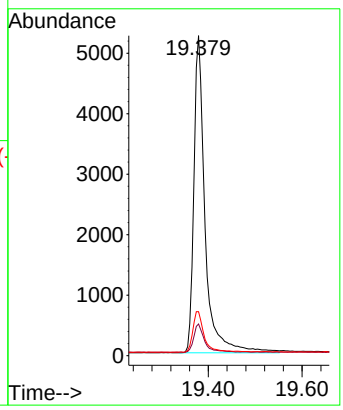




#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:244 Resp: 869

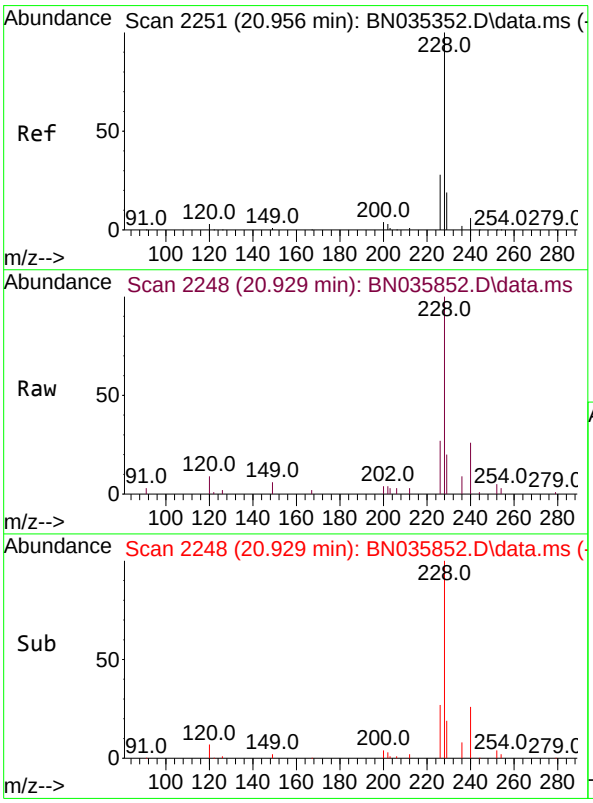
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.7	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

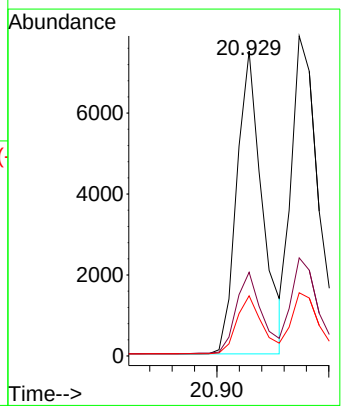
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

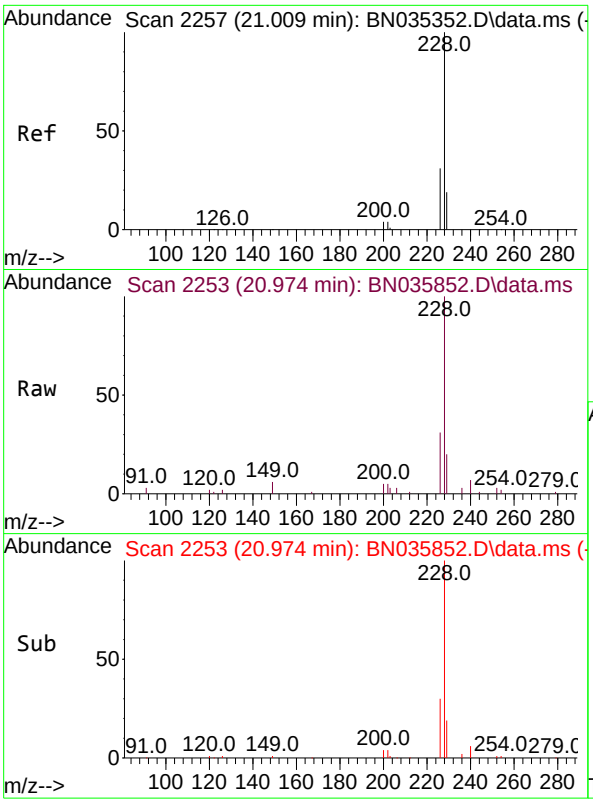


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 11832

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.7	15.8	23.8

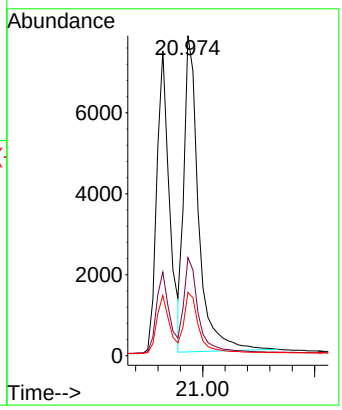




#33
Chrysene
Concen: 0.426 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 1424

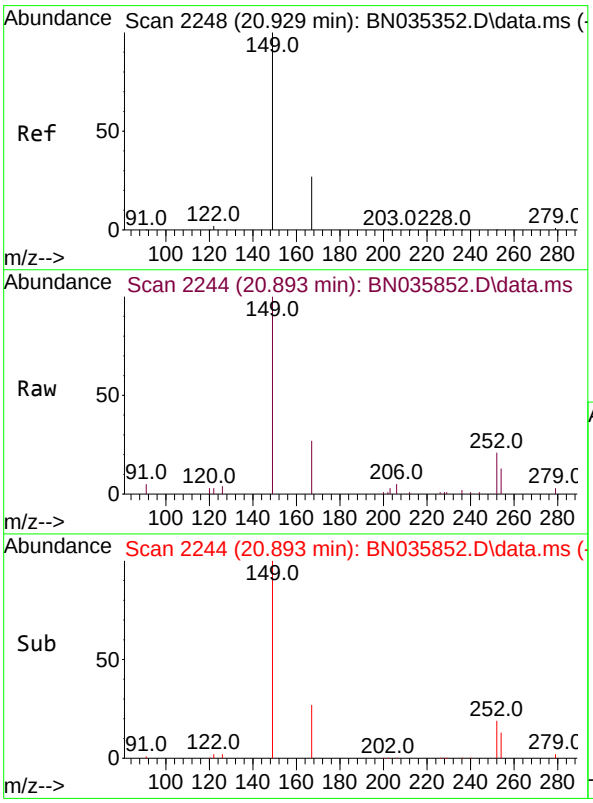
Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

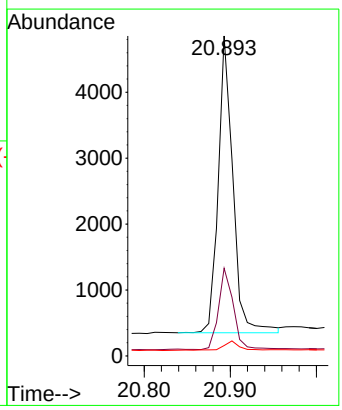
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

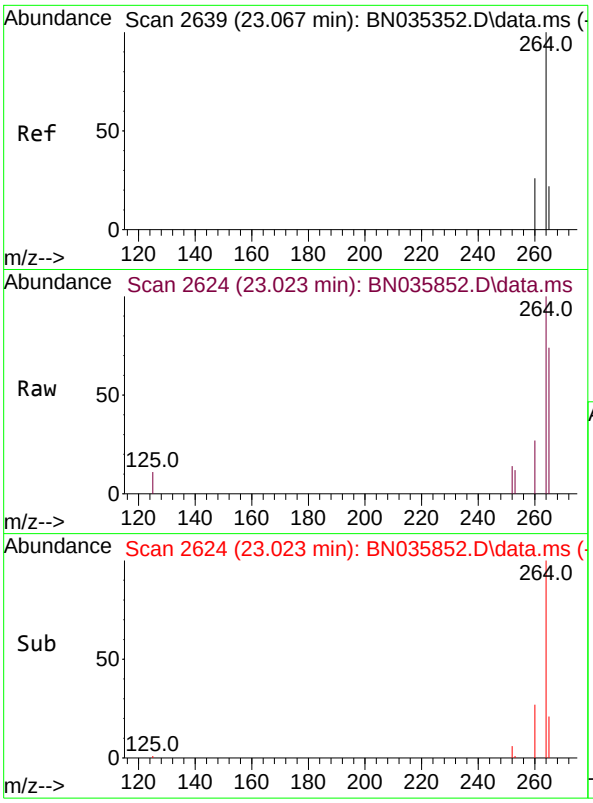


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.415 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:149 Resp: 5313

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.2	33.4
279	3.3	2.7	4.1

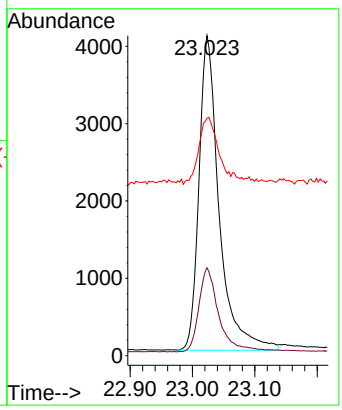




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:264 Resp: 914

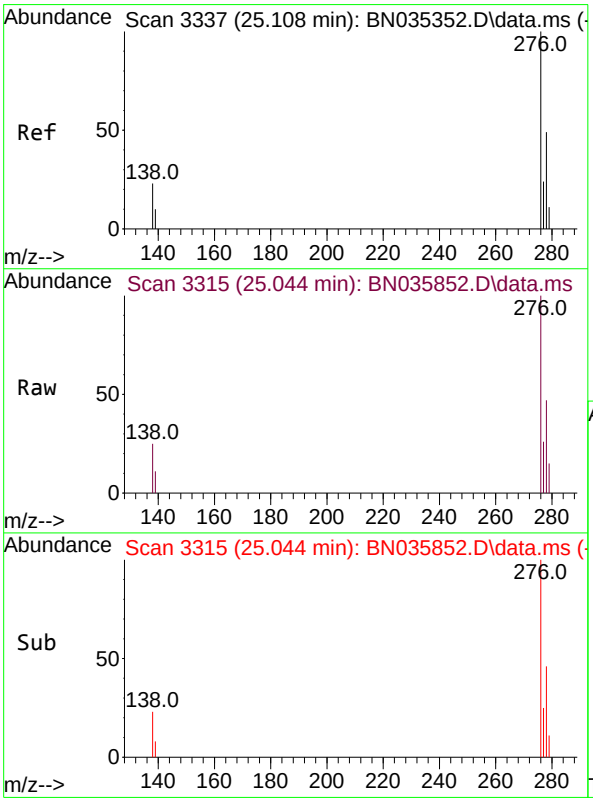
Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	74.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

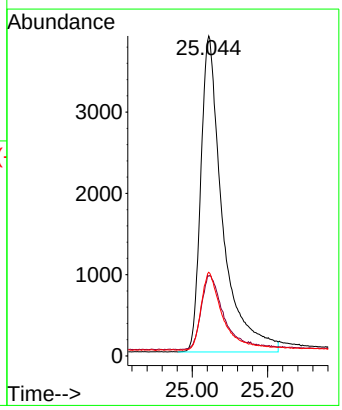
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

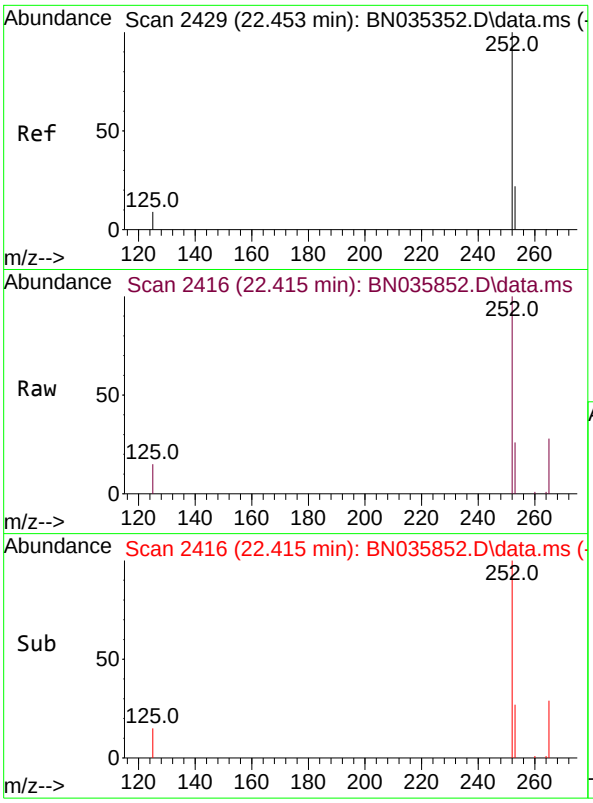


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.435 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:276 Resp: 15551

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.9	19.8	29.6

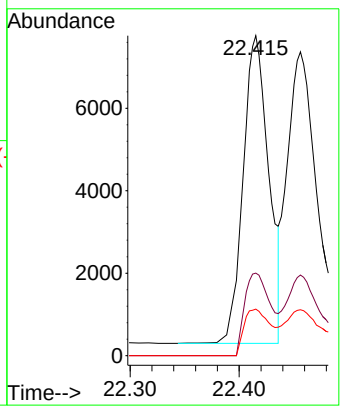




#37
Benzo(b)fluoranthene
Concen: 0.581 ng
RT: 22.415 min Scan# 24
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 1943

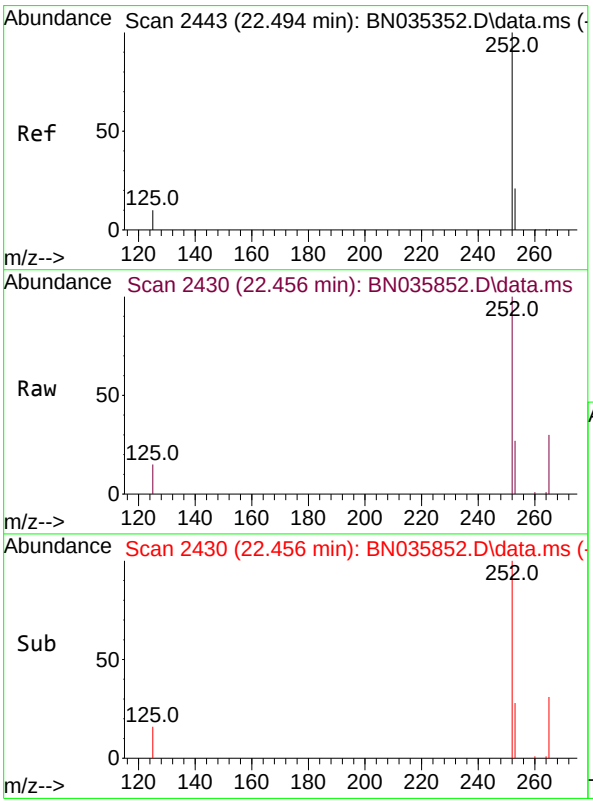
Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.6	29.4
125	14.5	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations APPROVED

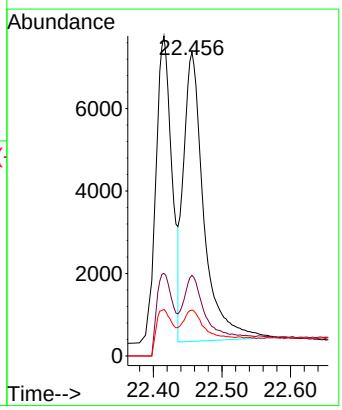
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

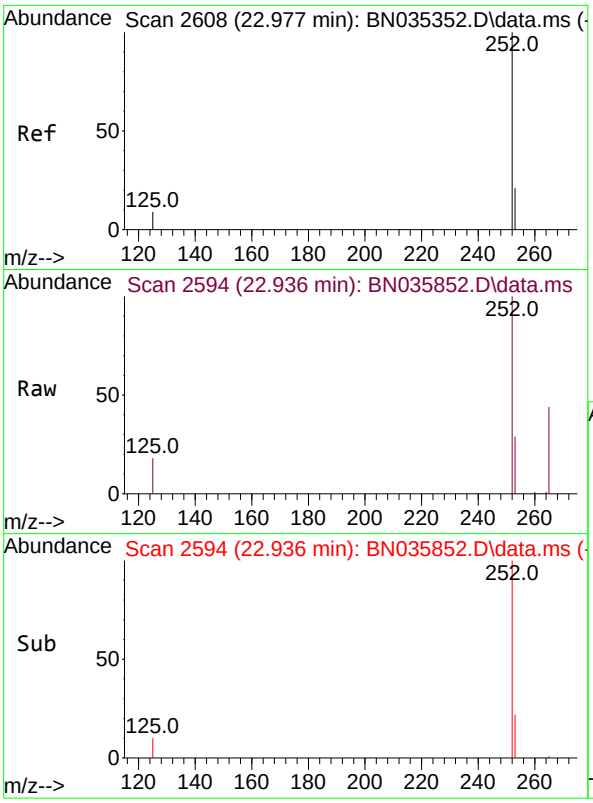


#38
Benzo(k)fluoranthene
Concen: 0.439 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 14469

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	15.1	10.2	15.4

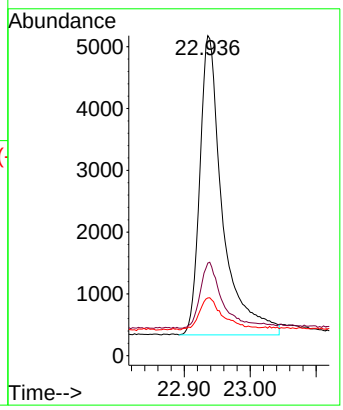




#39
Benzo(a)pyrene
Concen: 0.422 ng
RT: 22.936 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 1162

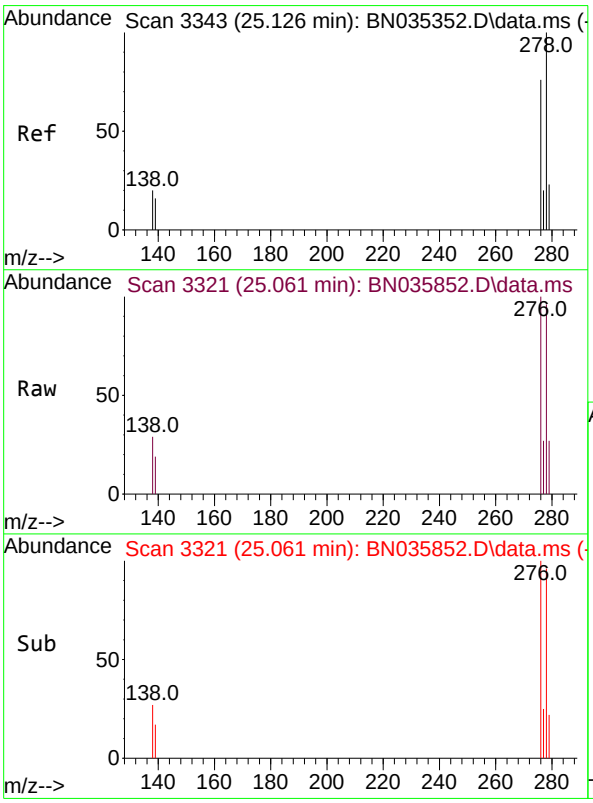
Ion	Ratio	Lower	Upper
252	100		
253	29.0	20.2	30.4
125	18.0	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
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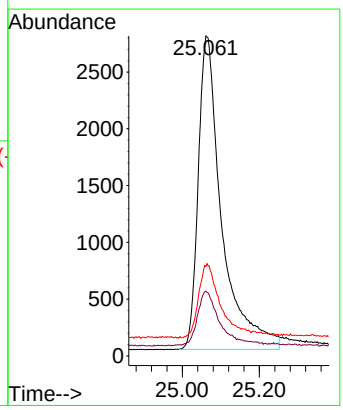
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

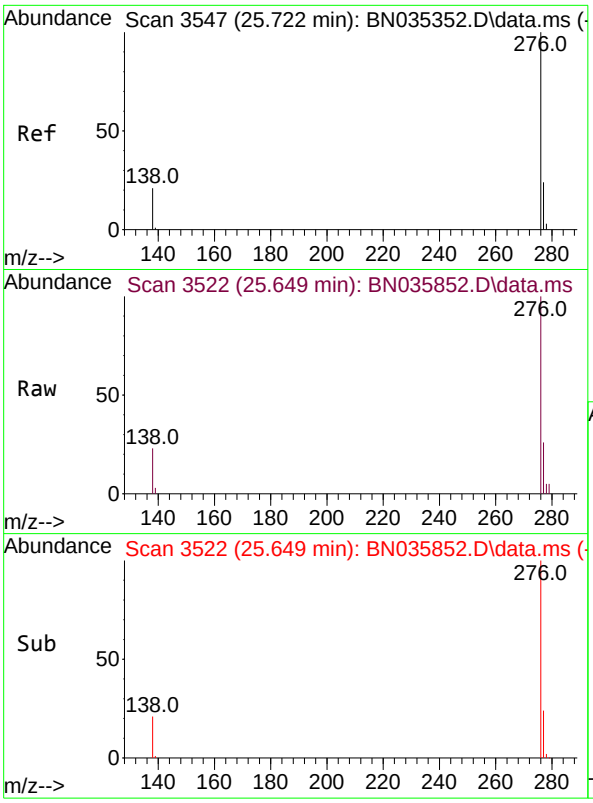


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:278 Resp: 11696

Ion	Ratio	Lower	Upper
278	100		
139	20.2	14.2	21.4
279	28.0	20.5	30.7

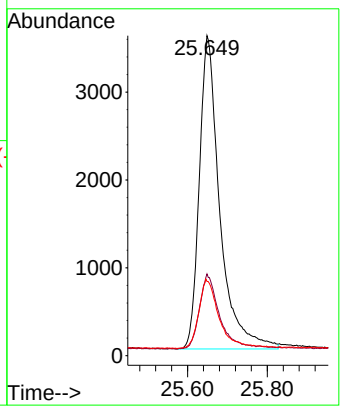




#41
Benzo(g,h,i)perylene
Concen: 0.431 ng
RT: 25.649 min Scan# 3
Delta R.T. -0.029 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:276 Resp: 1271

Ion	Ratio	Lower	Upper
276	100		
277	25.6	19.9	29.9
138	23.2	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10-MW01S-20241218MS	SDG No.:	P5376
Lab Sample ID:	P5376-08MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035821.D	1	12/23/24 13:29	12/24/24 14:55	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		107%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3130	7.257				
1146-65-2	Naphthalene-d8	7400	9.998				
15067-26-2	Acenaphthene-d10	4430	13.914				
1517-22-2	Phenanthrene-d10	9040	16.686				
1719-03-5	Chrysene-d12	8800	20.947				
1520-96-3	Perylene-d12	9480	23.026				

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\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3131	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	7403	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4434	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9040	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	8798	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	9479	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	943	0.120	ng	0.00
5) Phenol-d6	6.477	99	545	0.058	ng	-0.01
8) Nitrobenzene-d5	8.397	82	1912m	0.423	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	4950	0.427	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	691	0.220	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6280	0.375	ng	-0.02
27) Fluoranthene-d10	18.747	212	10896	0.425	ng	-0.01
31) Terphenyl-d14	19.379	244	8459	0.487	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	909	0.304	ng	# 85
3) n-Nitrosodimethylamine	3.270	42	393	0.158	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	2329	0.294	ng	98
9) Naphthalene	10.052	128	7736	0.396	ng	99
10) Hexachlorobutadiene	10.340	225	1471	0.327	ng	# 100
12) 2-Methylnaphthalene	11.681	142	5119	0.366	ng	99
16) Acenaphthylene	13.625	152	8059	0.433	ng	99
17) Acenaphthene	13.978	154	5206	0.421	ng	99
18) Fluorene	14.983	166	6975	0.394	ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	266	0.299	ng	# 39
21) 4-Bromophenyl-phenylether	15.891	248	1959	0.370	ng	# 75
22) Hexachlorobenzene	16.003	284	2633	0.424	ng	98
23) Atrazine	16.189	200	1523	0.405	ng	96
24) Pentachlorophenol	16.363	266	1863	0.690	ng	# 86
25) Phenanthrene	16.735	178	12002	0.483	ng	100
26) Anthracene	16.822	178	10344	0.461	ng	99
28) Fluoranthene	18.780	202	14906	0.445	ng	99
30) Pyrene	19.147	202	15976	0.492	ng	99
32) Benzo(a)anthracene	20.929	228	13869	0.451	ng	99
33) Chrysene	20.983	228	16049	0.506	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6067	0.499	ng	98
36) Indeno(1,2,3-cd)pyrene	25.052	276	15853	0.428	ng	98
37) Benzo(b)fluoranthene	22.418	252	20643	0.595	ng	# 94
38) Benzo(k)fluoranthene	22.459	252	16743	0.491	ng	# 94
39) Benzo(a)pyrene	22.939	252	13748	0.481	ng	# 89
40) Dibenzo(a,h)anthracene	25.067	278	11568	0.396	ng	94
41) Benzo(g,h,i)perylene	25.658	276	13235	0.433	ng	98

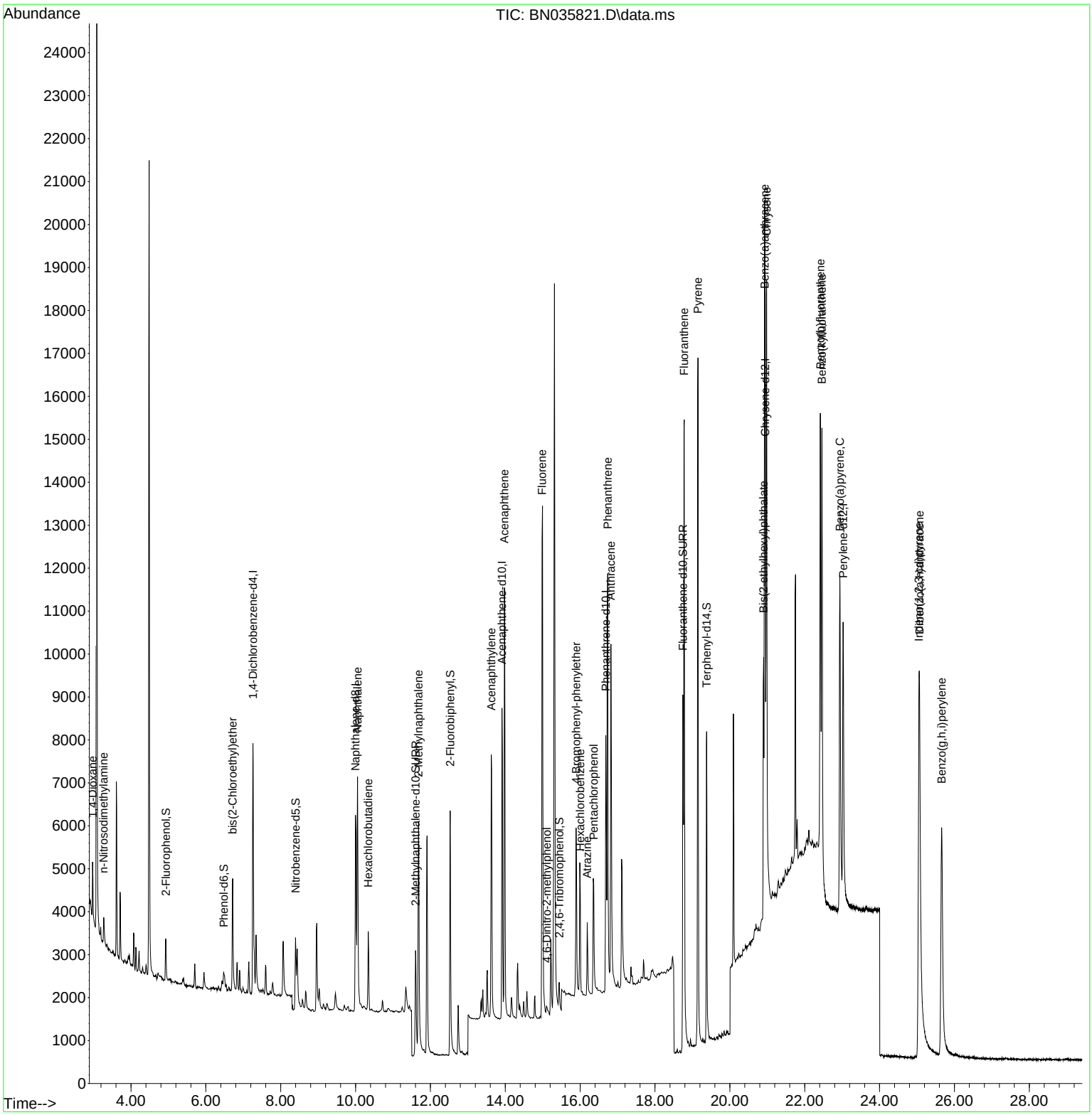
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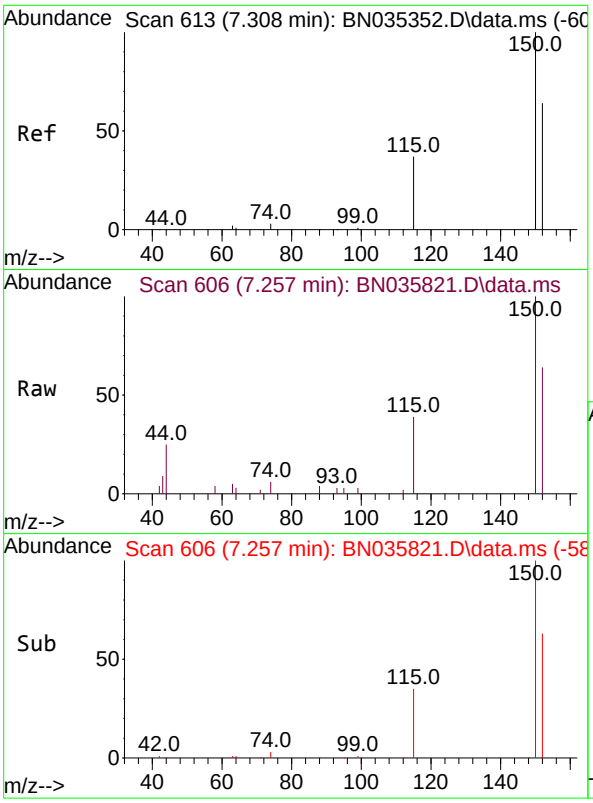
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Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

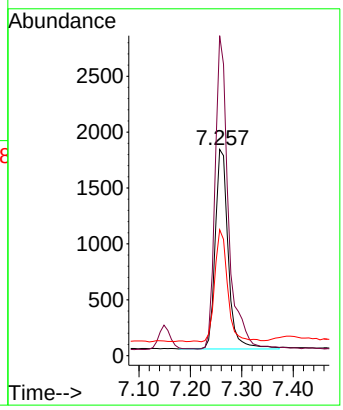




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 313

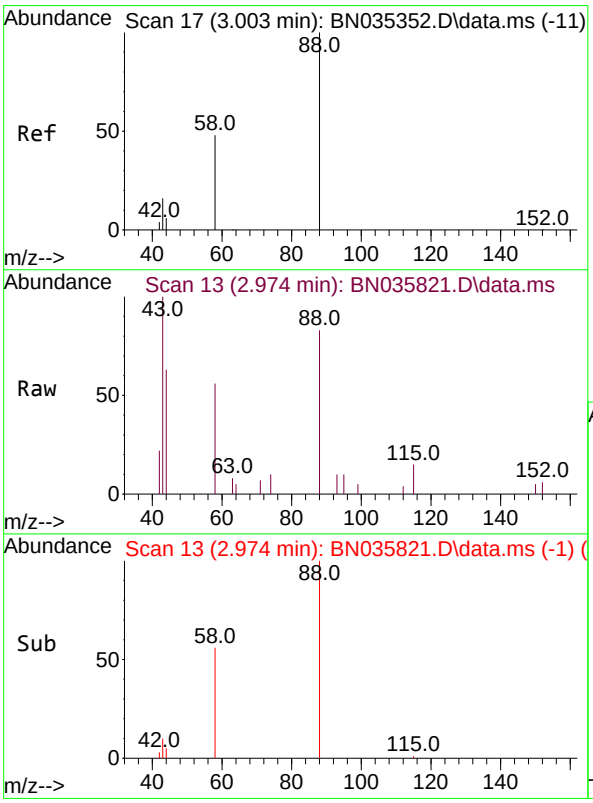
Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.0	186.0
115	61.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

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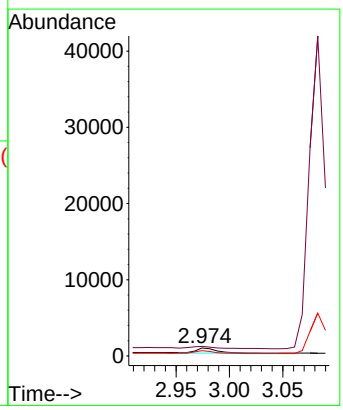
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

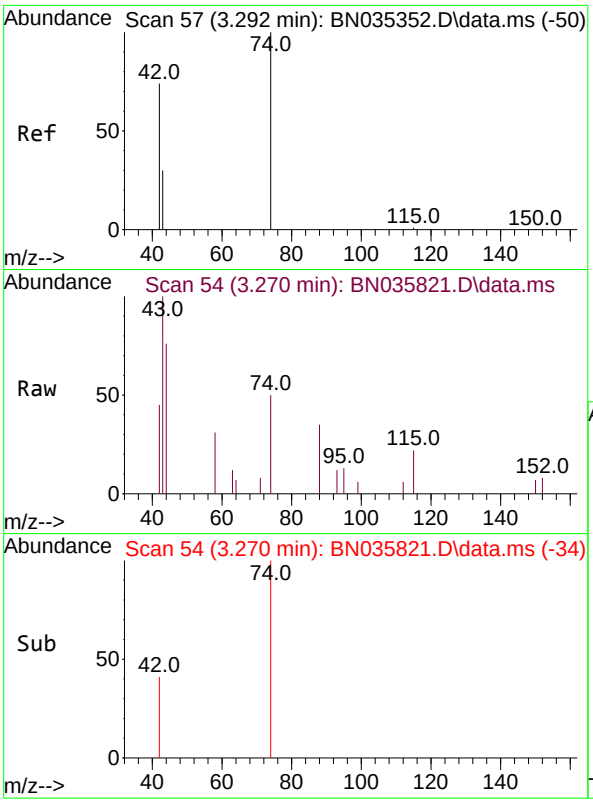


#2
1,4-Dioxane
Concen: 0.304 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 88 Resp: 909

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.2	25.8#
58	58.4	44.5	66.7

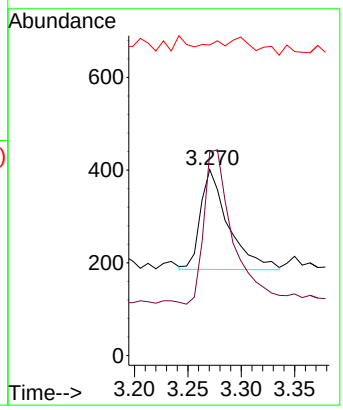




#3
n-Nitrosodimethylamine
Concen: 0.158 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

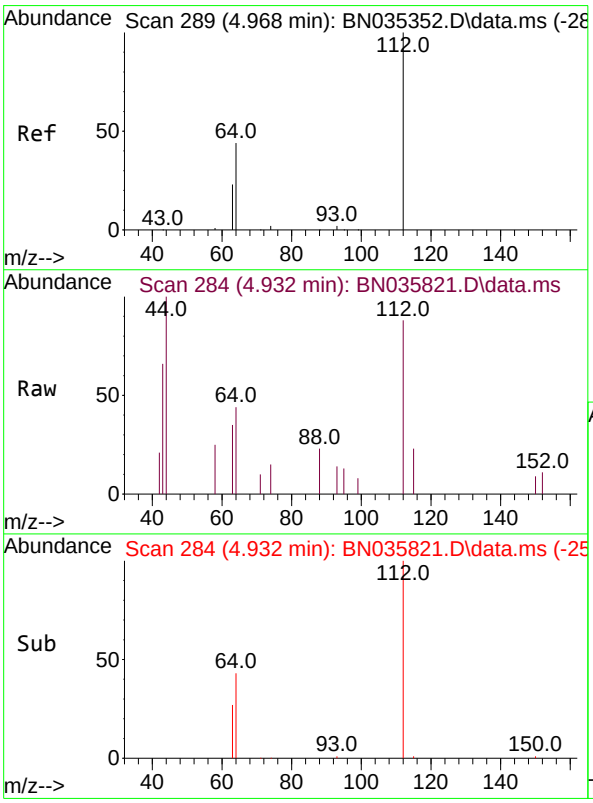
Tgt Ion: 42 Resp: 39

Ion	Ratio	Lower	Upper
42	100		
74	172.0	124.9	187.3
44	0.0	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

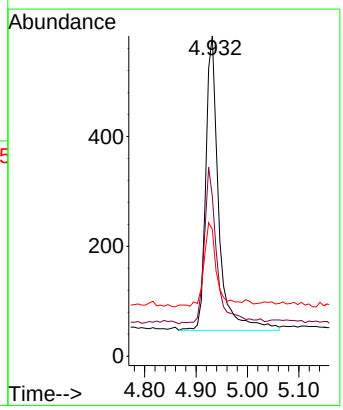
Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

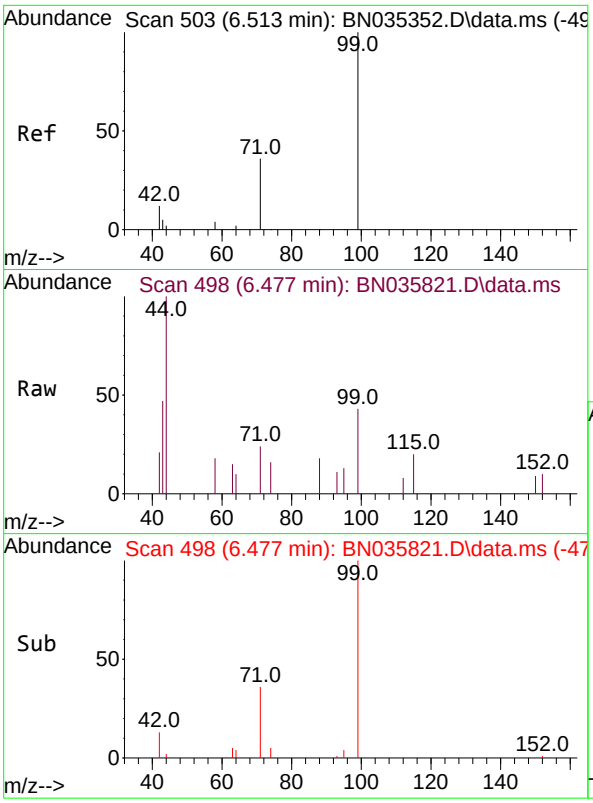


#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:112 Resp: 943

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	28.2	21.0	31.6

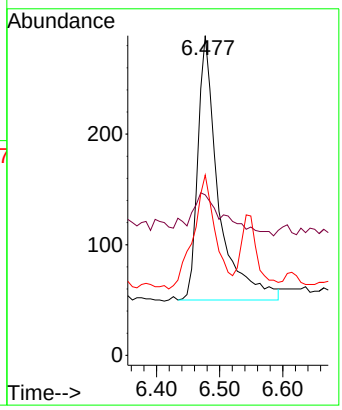




#5
Phenol-d6
Concen: 0.058 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 99 Resp: 54

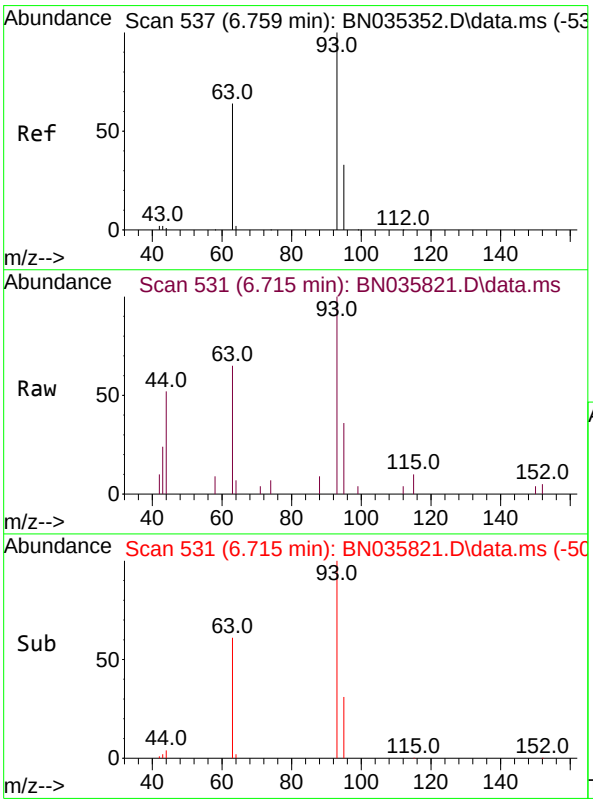
Ion	Ratio	Lower	Upper
99	100		
42	26.8	11.4	17.2#
71	45.9	29.3	43.9#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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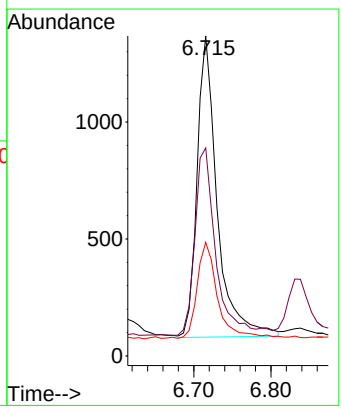
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

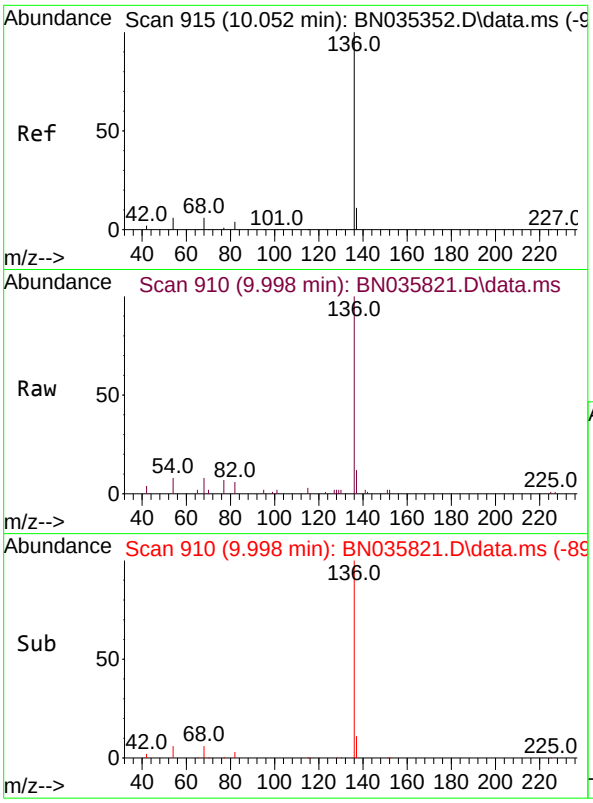


#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 93 Resp: 2329

Ion	Ratio	Lower	Upper
93	100		
63	65.2	50.4	75.6
95	32.6	25.7	38.5

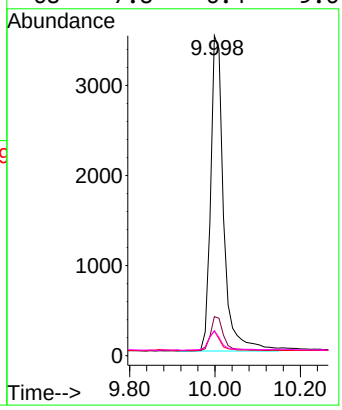




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:136 Resp: 740

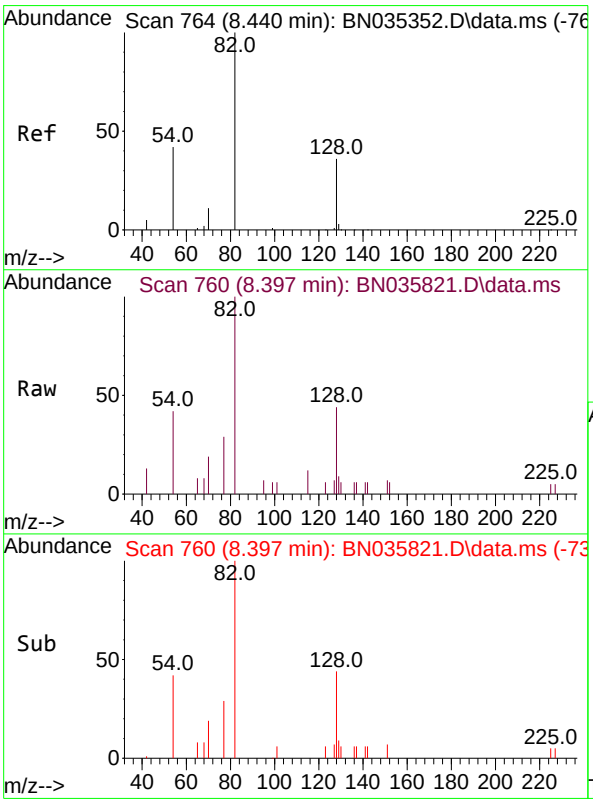
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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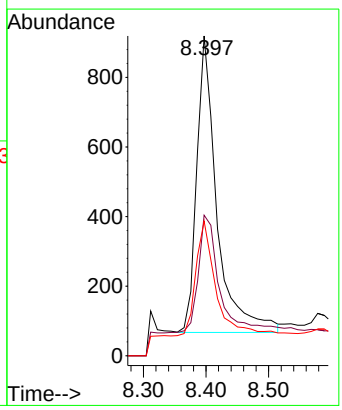
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

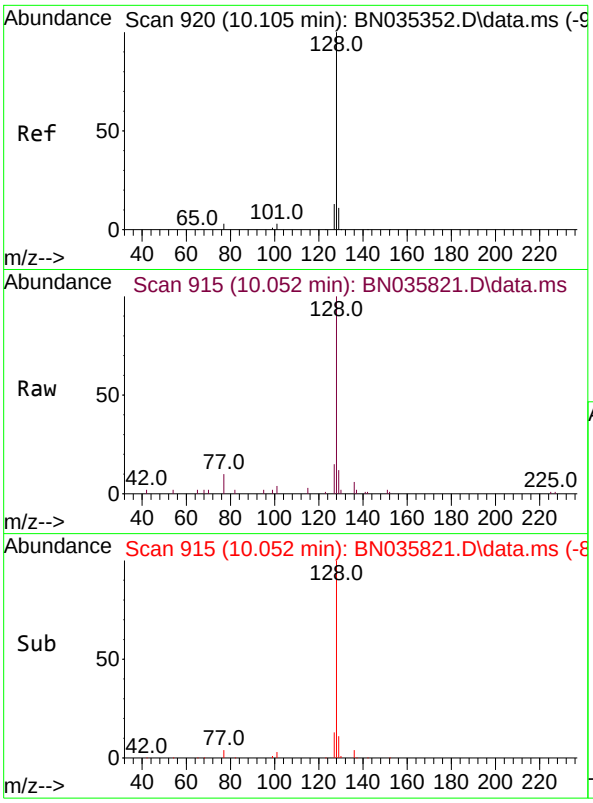


#8
Nitrobenzene-d5
Concen: 0.423 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 82 Resp: 1912

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.4	50.0
54	42.1	36.7	55.1

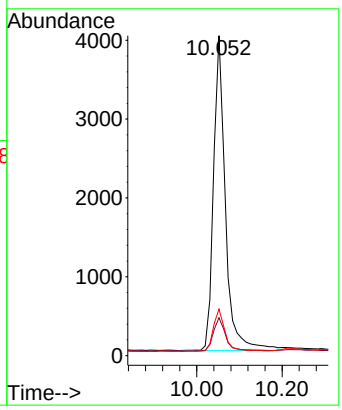




#9
Naphthalene
Concen: 0.396 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:128 Resp: 773

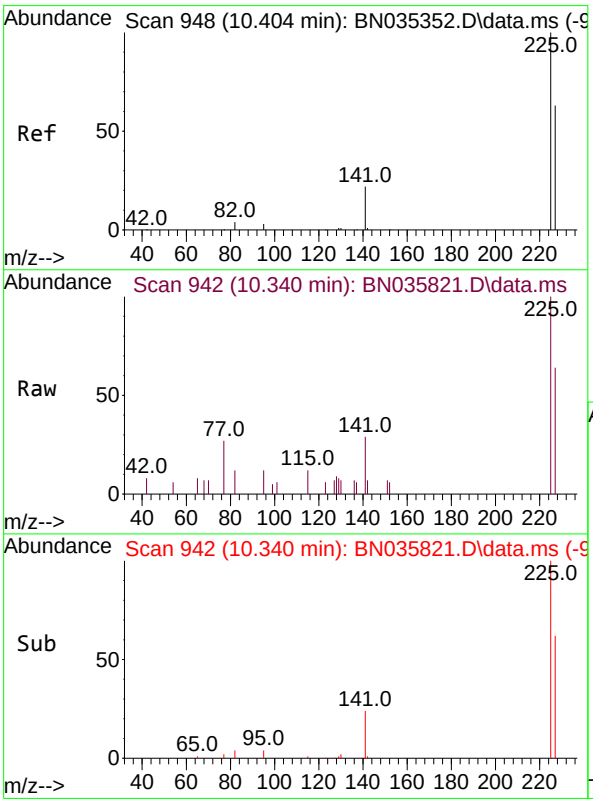
Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.8	14.6
127	14.5	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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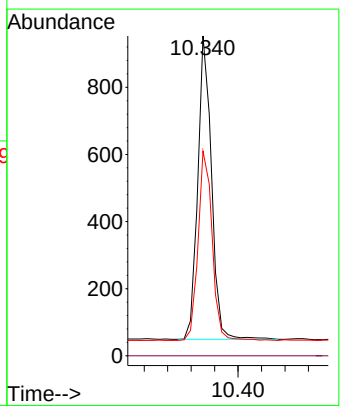
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

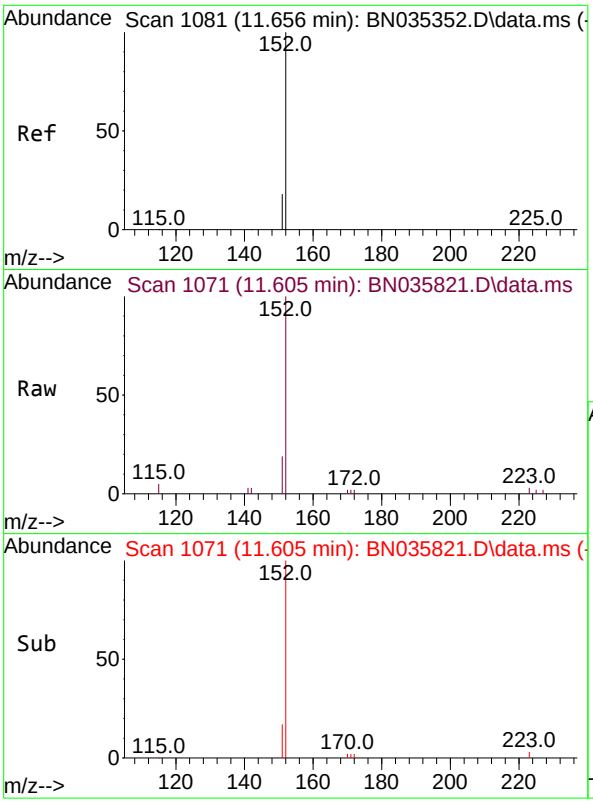


#10
Hexachlorobutadiene
Concen: 0.327 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:225 Resp: 1471

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.3	76.9

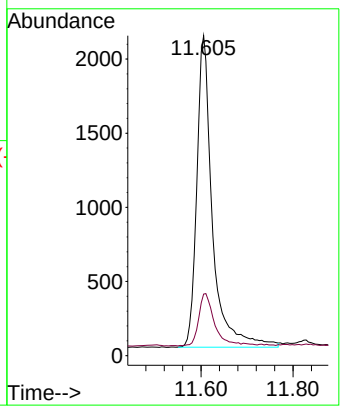




#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.605 min Scan# 1(
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 495(

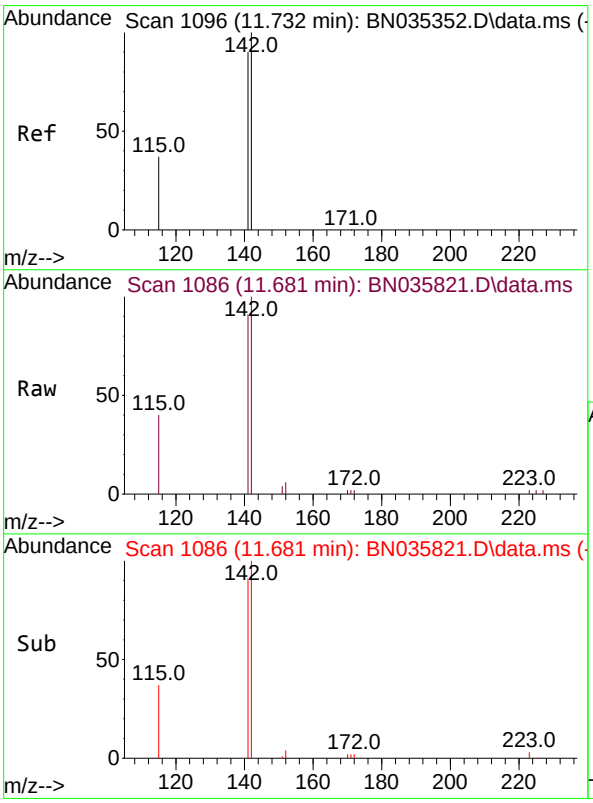
Ion	Ratio	Lower	Upper
152	100		
151	16.7	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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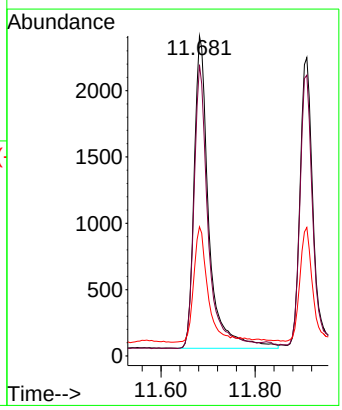
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

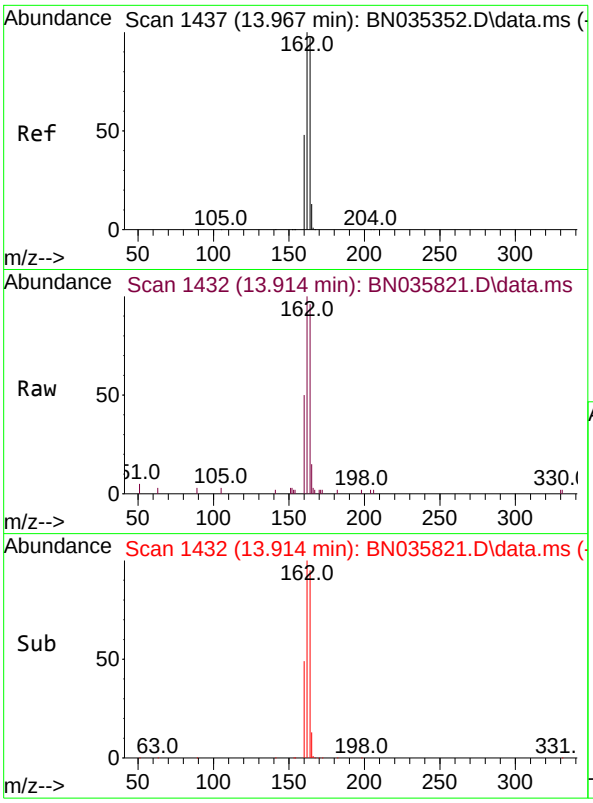


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:142 Resp: 5119

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	40.3	31.4	47.0

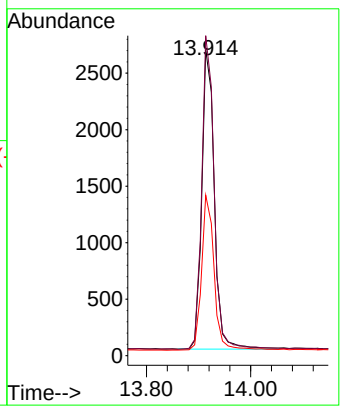




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:164 Resp: 443

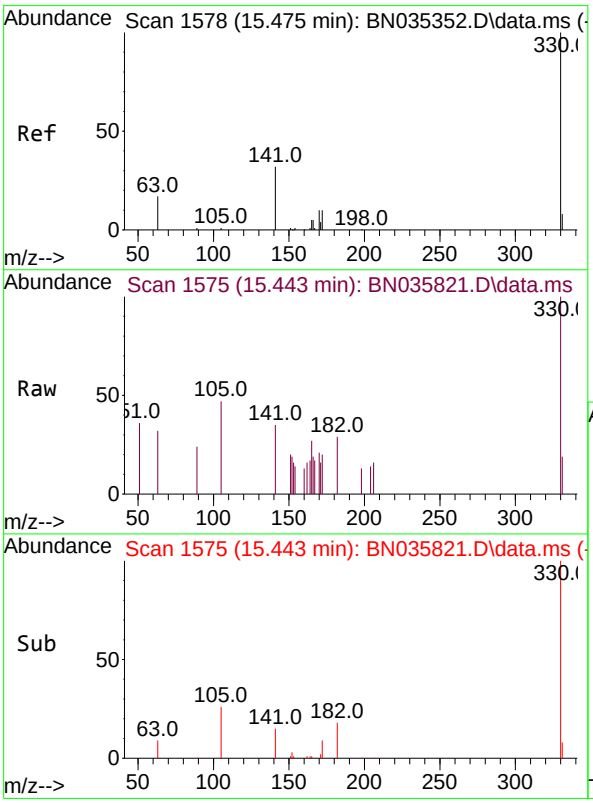
Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.2	123.2
160	52.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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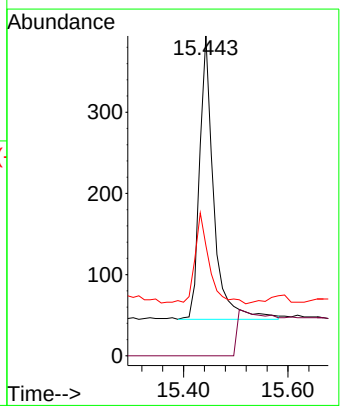
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

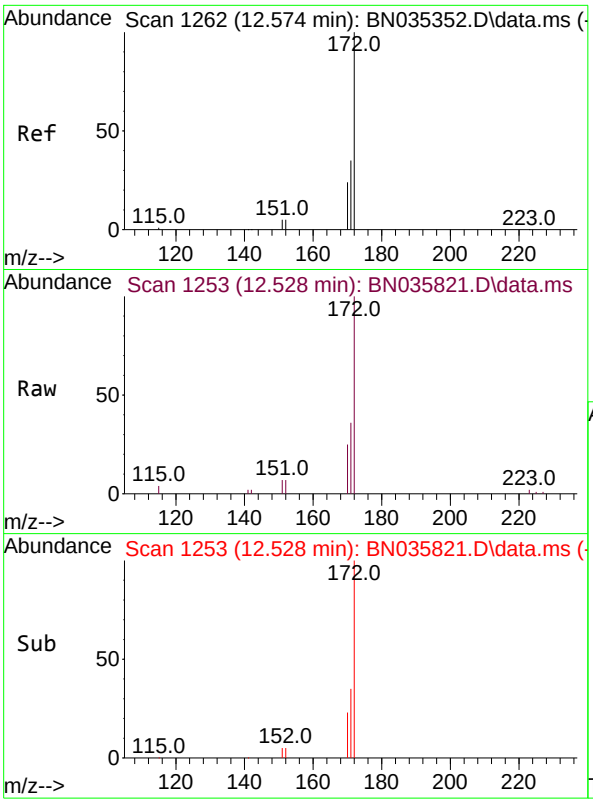


#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:330 Resp: 691

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.1	26.6	40.0

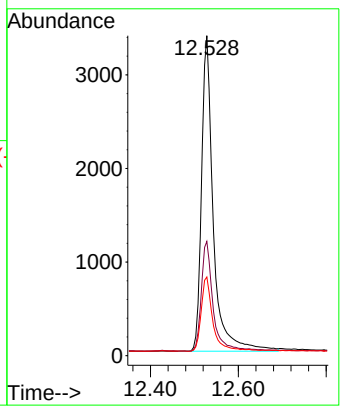




#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:172 Resp: 628

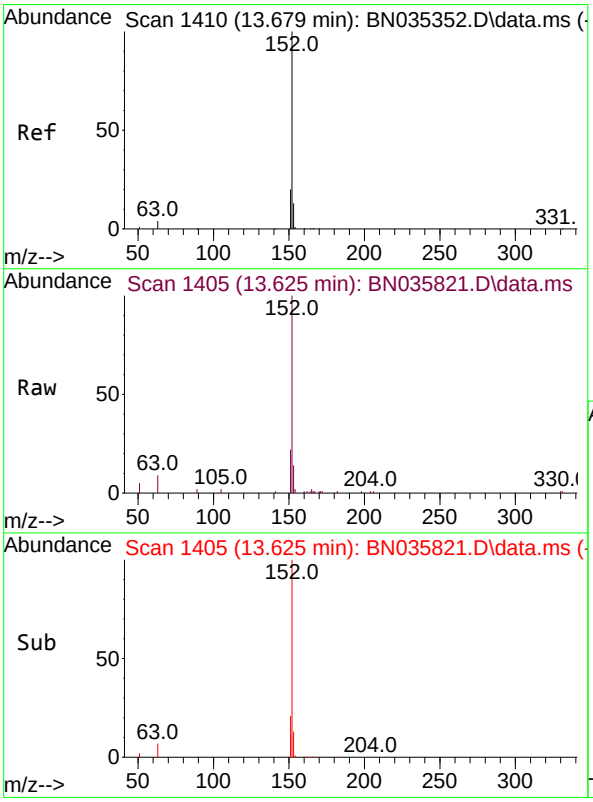
Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.6	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

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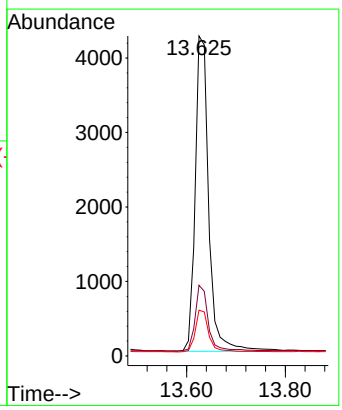
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

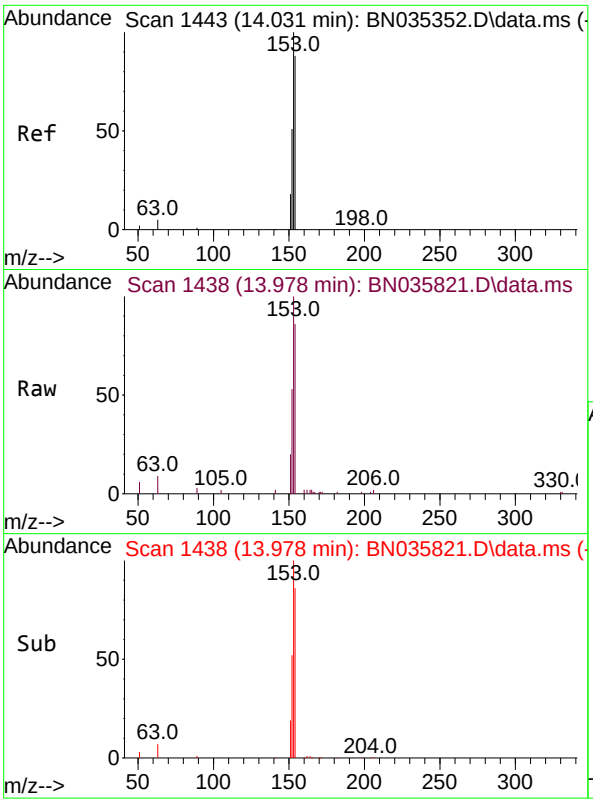


#16
Acenaphthylene
Concen: 0.433 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 8059

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	13.4	10.4	15.6

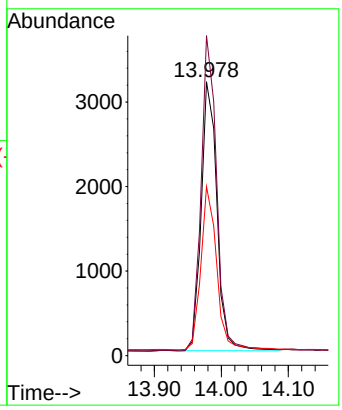




#17
Acenaphthene
Concen: 0.421 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:154 Resp: 520

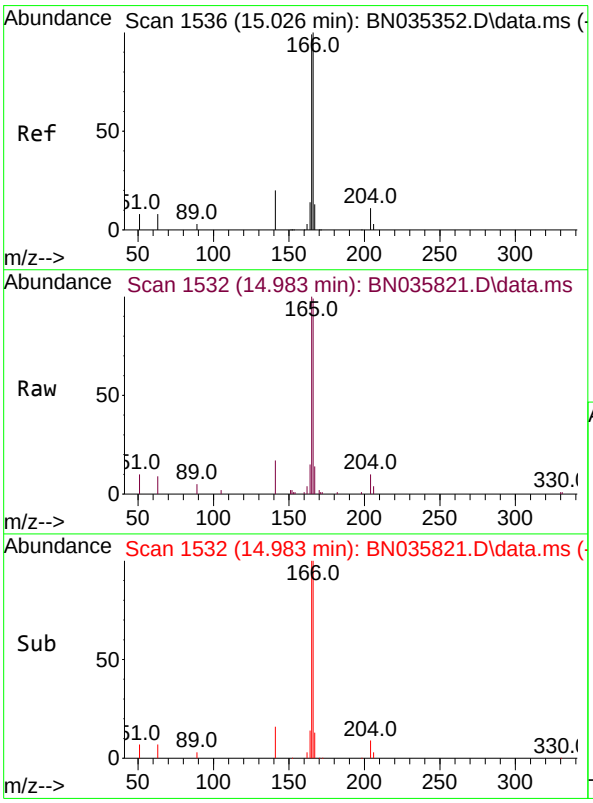
Ion	Ratio	Lower	Upper
154	100		
153	116.9	92.6	139.0
152	60.7	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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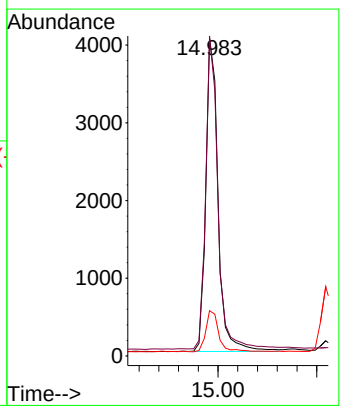
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

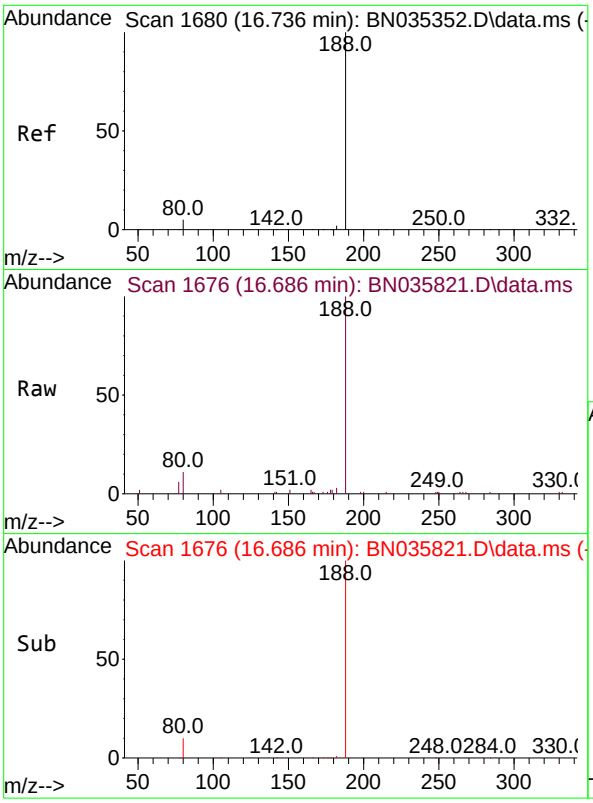


#18
Fluorene
Concen: 0.394 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:166 Resp: 6975

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	14.0	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

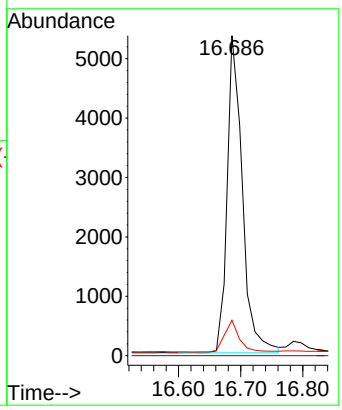
Tgt Ion:188 Resp: 904(

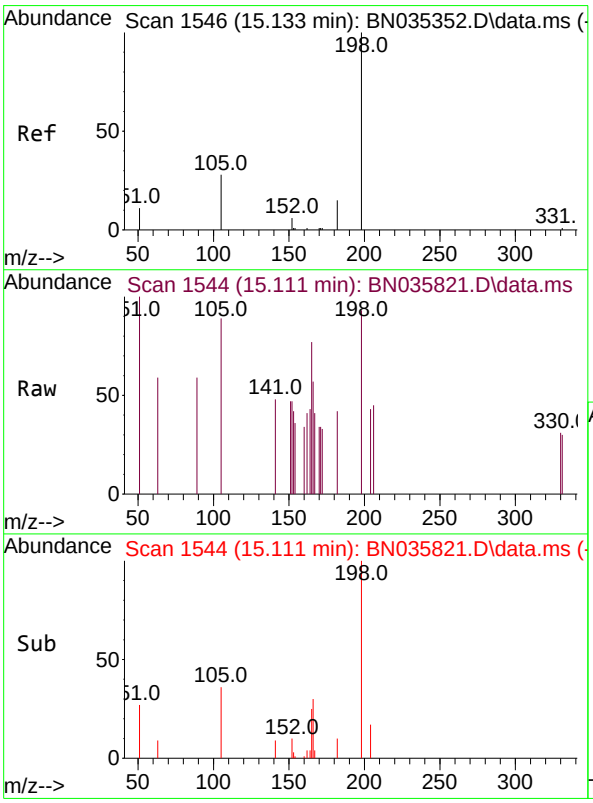
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	4.6	6.8#

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

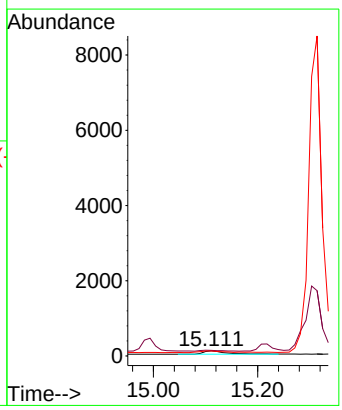


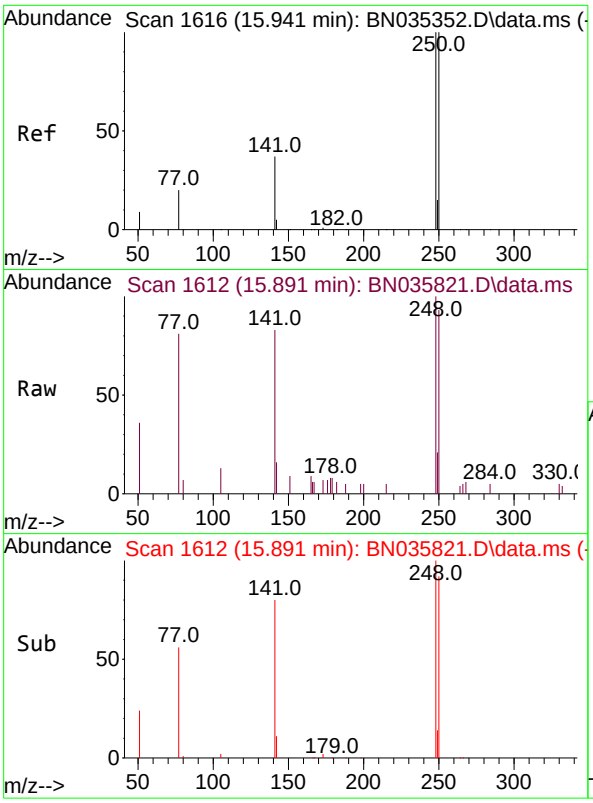


#20
4,6-Dinitro-2-methylphenol
Concen: 0.299 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:198 Resp: 266

Ion	Ratio	Lower	Upper
198	100		
51	108.0	46.5	69.7#
105	96.4	45.3	67.9#

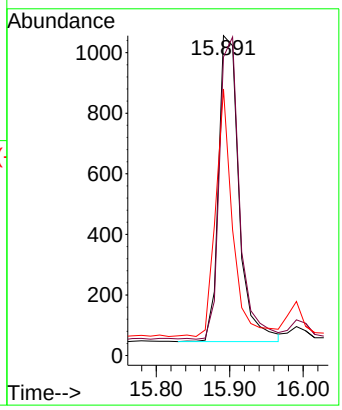




#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

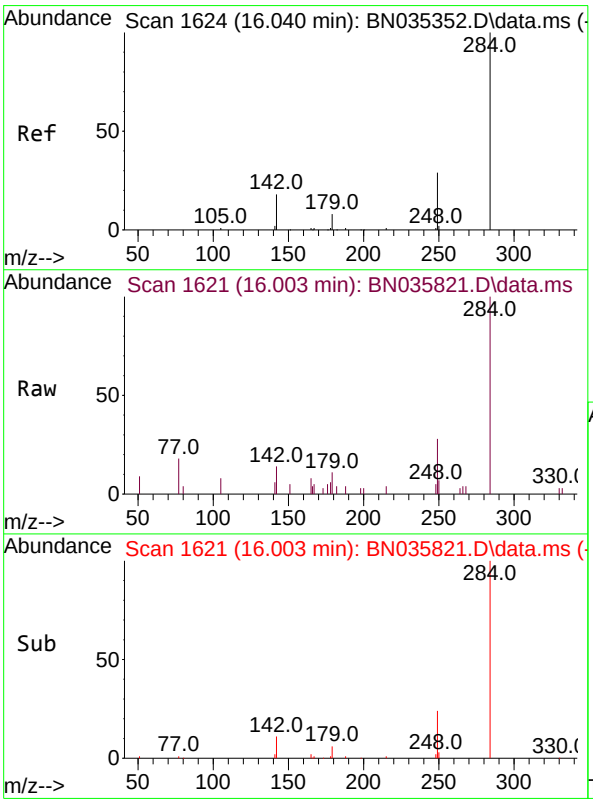
Tgt Ion:248 Resp: 195

Ion	Ratio	Lower	Upper
248	100		
250	93.4	80.6	120.8
141	83.3	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

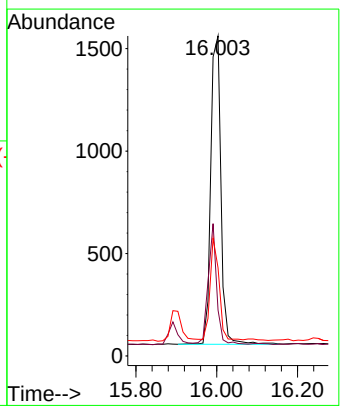
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

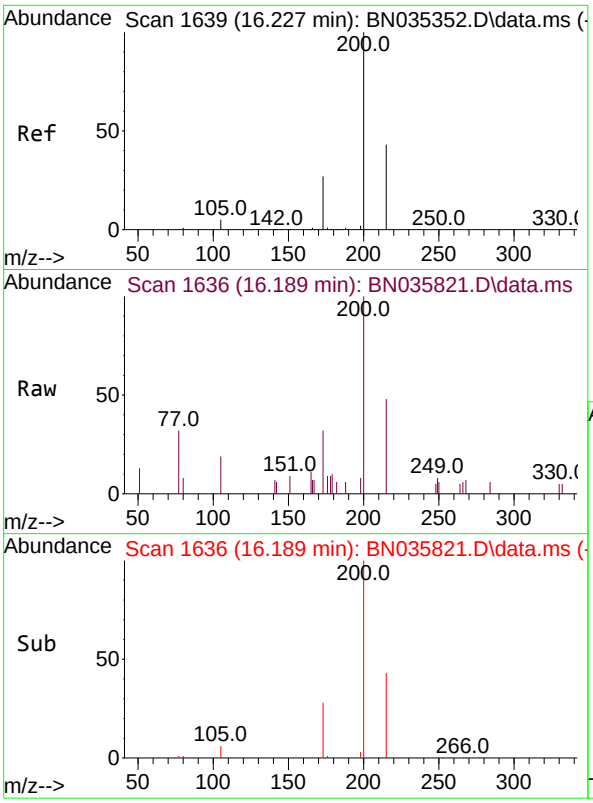


#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:284 Resp: 2633

Ion	Ratio	Lower	Upper
284	100		
142	32.3	26.7	40.1
249	29.1	24.6	36.8

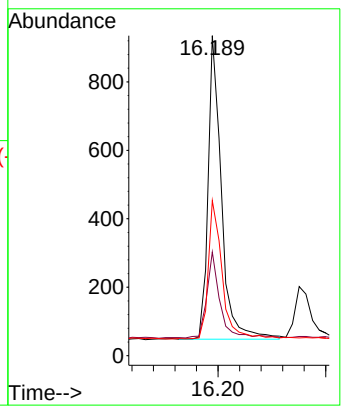




#23
Atrazine
Concen: 0.405 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:200 Resp: 152

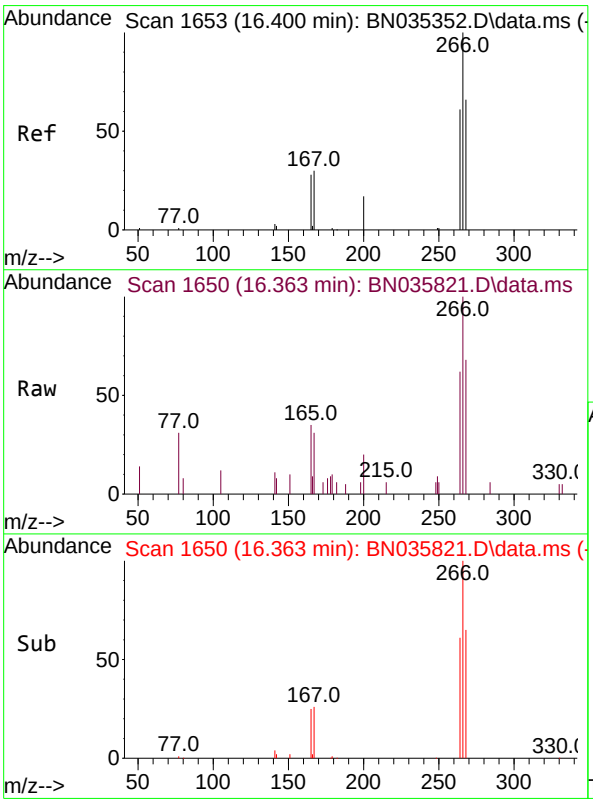
Ion	Ratio	Lower	Upper
200	100		
173	32.4	24.1	36.1
215	48.4	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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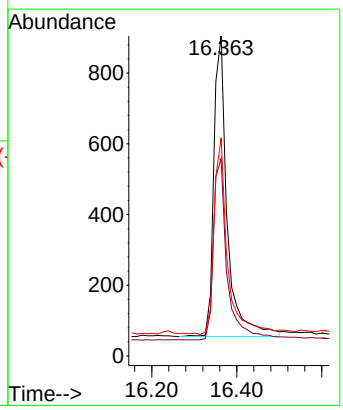
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

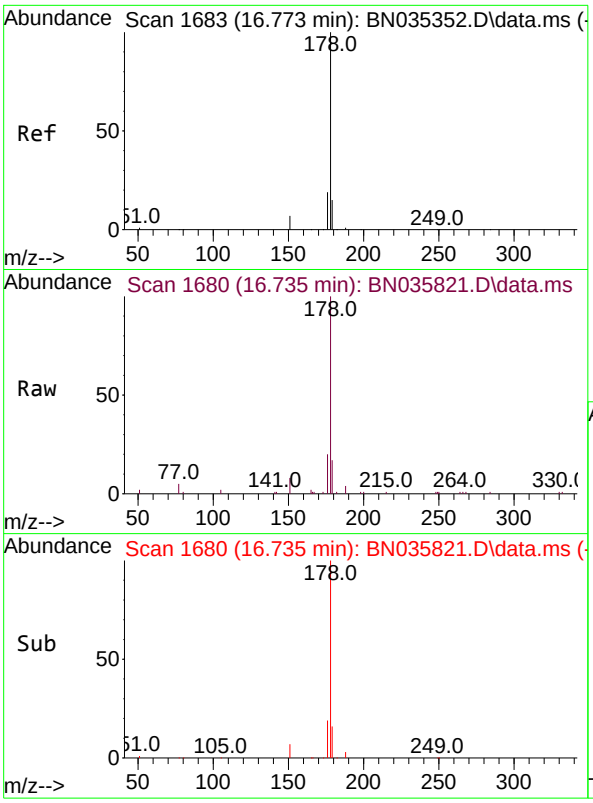


#24
Pentachlorophenol
Concen: 0.690 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:266 Resp: 1863

Ion	Ratio	Lower	Upper
266	100		
264	61.3	42.3	63.5
268	65.9	43.3	64.9#

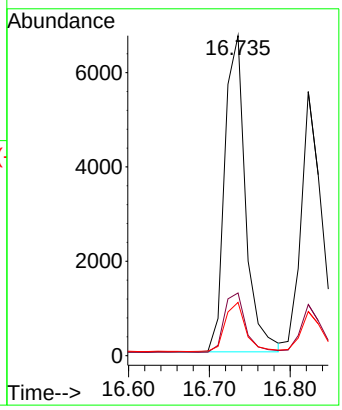




#25
Phenanthrene
Concen: 0.483 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:178 Resp: 1200

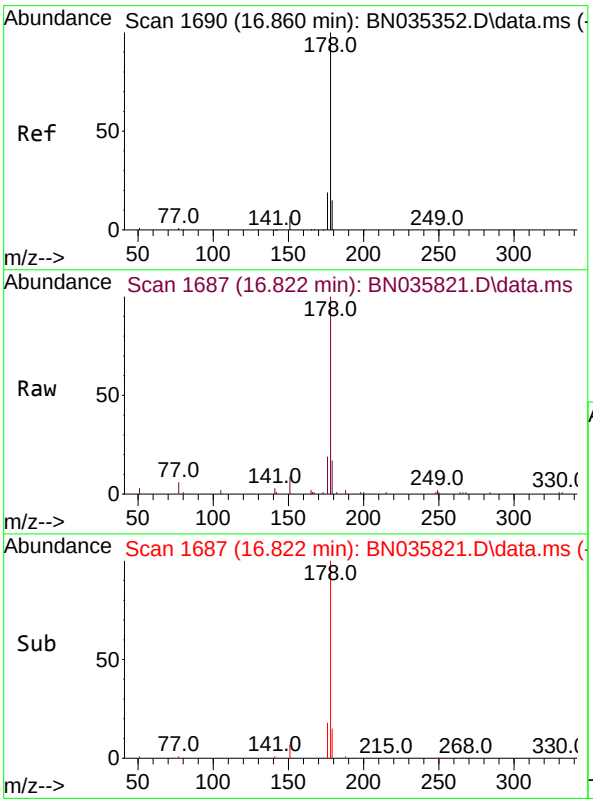
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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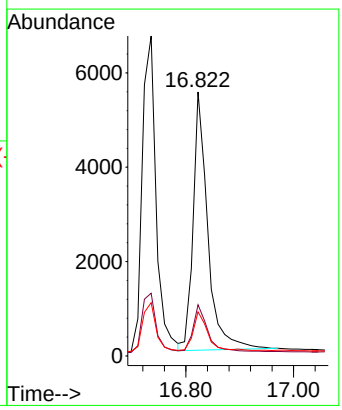
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

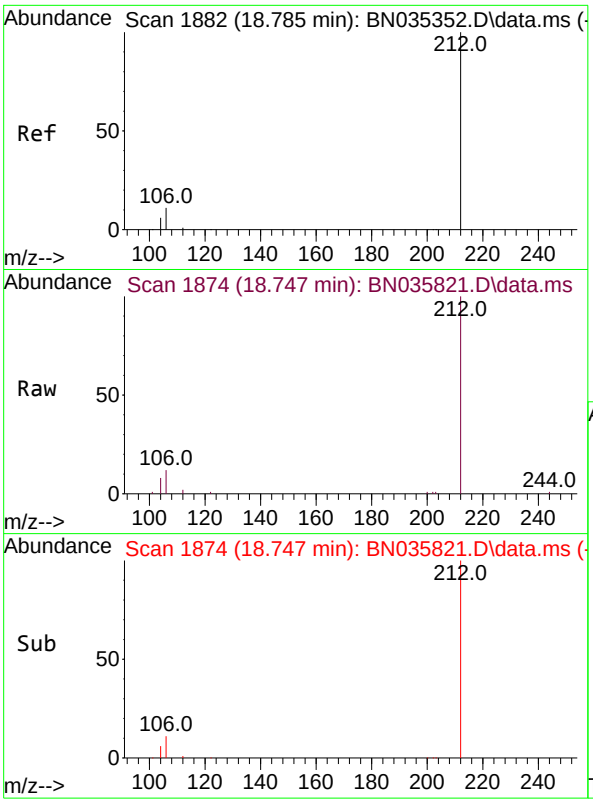


#26
Anthracene
Concen: 0.461 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:178 Resp: 10344

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.6
179	14.9	12.6	18.8

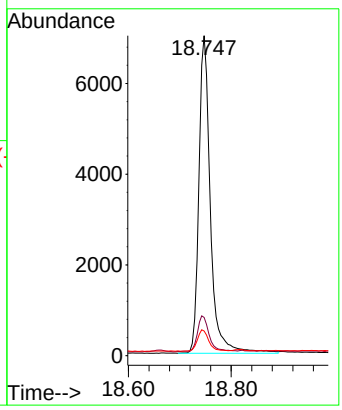




#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:212 Resp: 1089

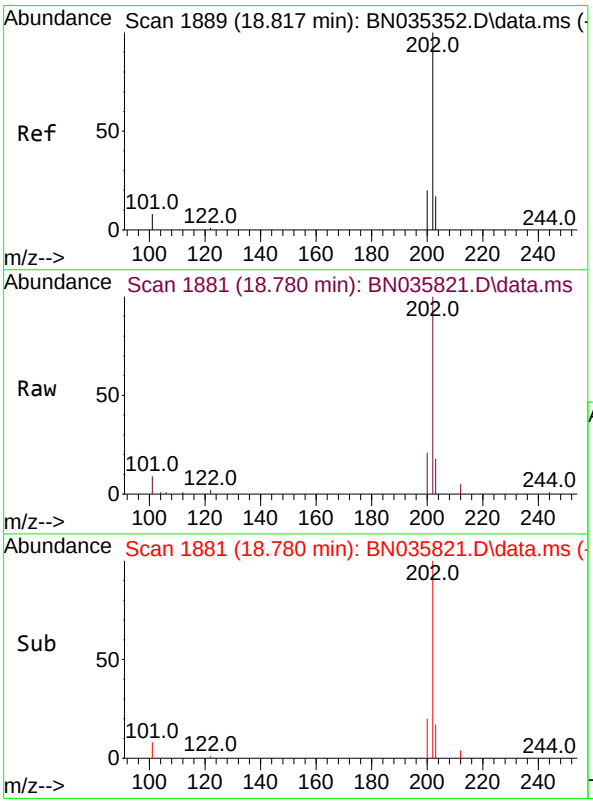
Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.7	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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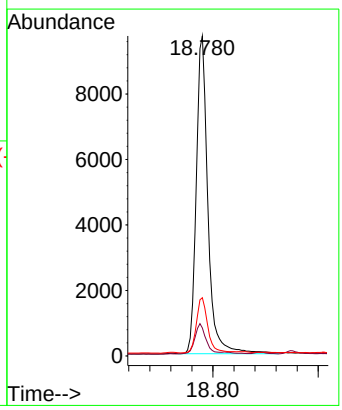
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

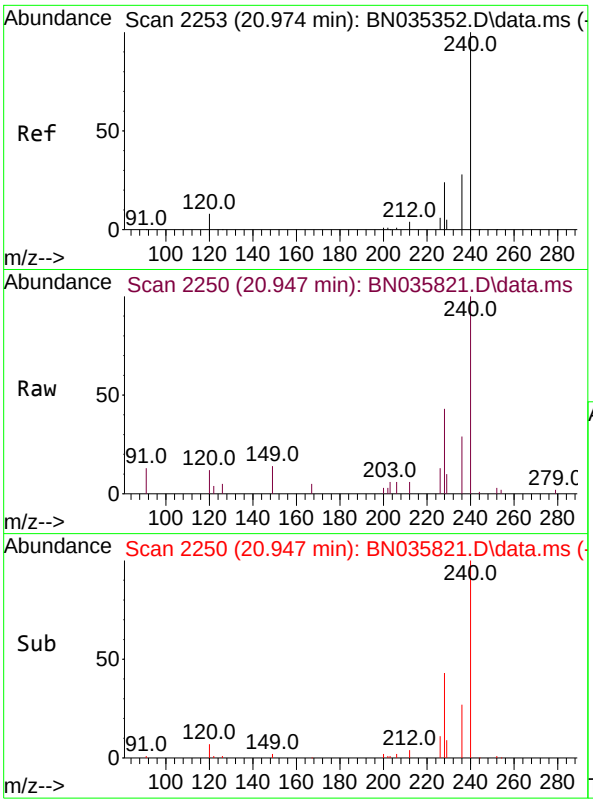


#28
Fluoranthene
Concen: 0.445 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 14906

Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.4	11.0
203	17.4	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

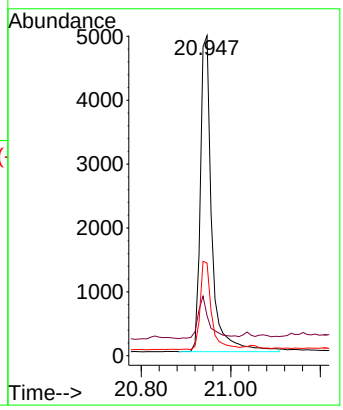
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

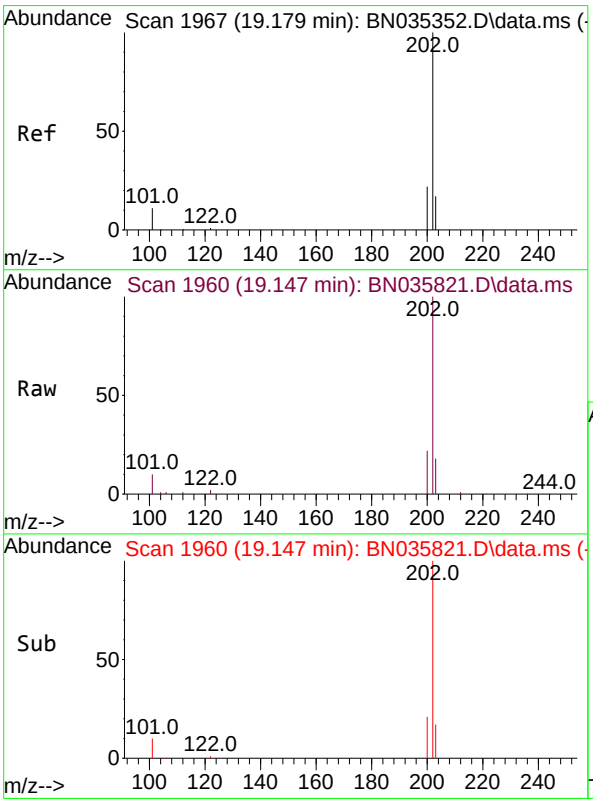
Tgt Ion:240 Resp: 879

Ion	Ratio	Lower	Upper
240	100		
120	12.5	7.9	11.9
236	29.0	22.9	34.3

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

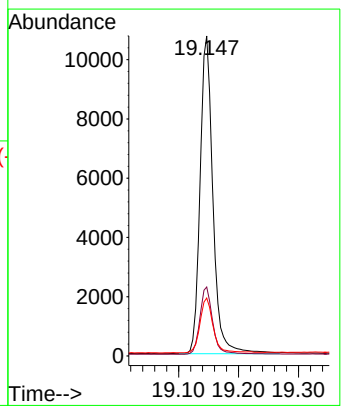


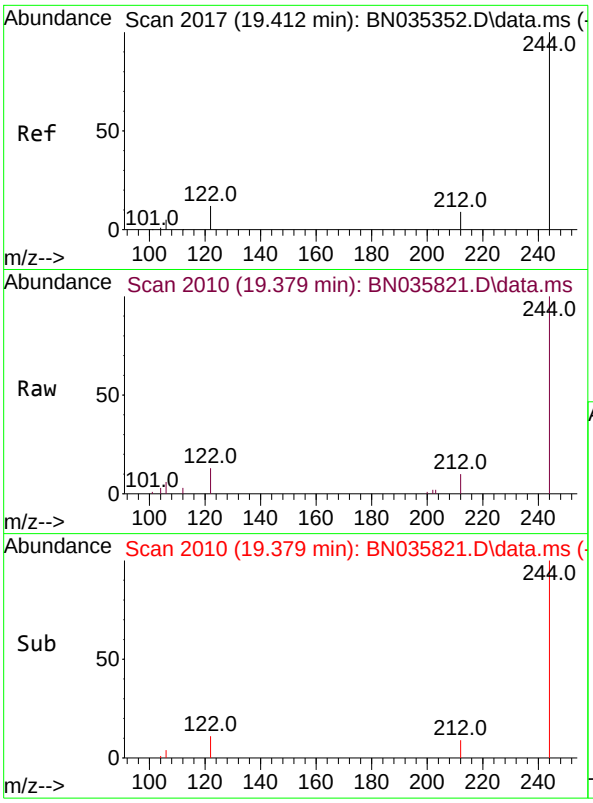


#30
Pyrene
Concen: 0.492 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 15976

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.5	14.3	21.5

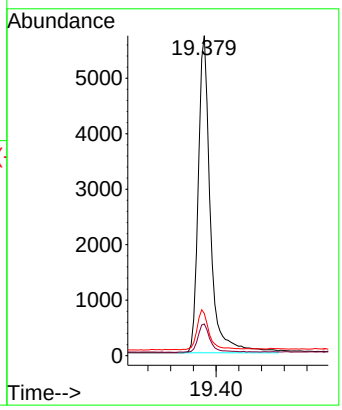




#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:244 Resp: 845

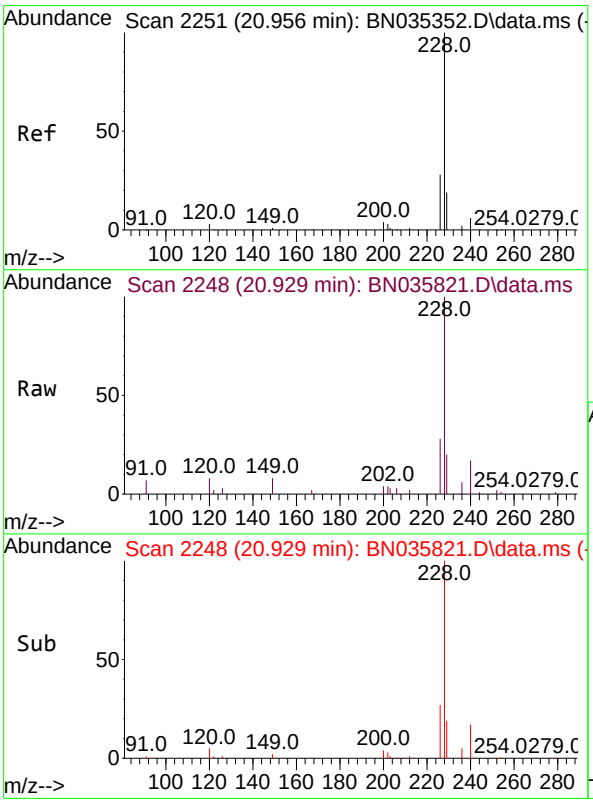
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.2	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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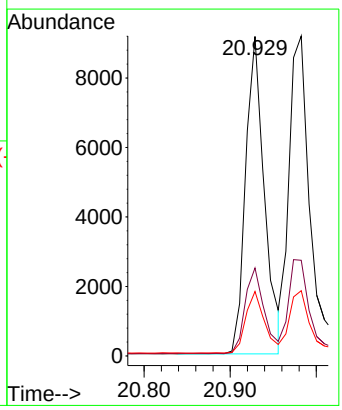
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

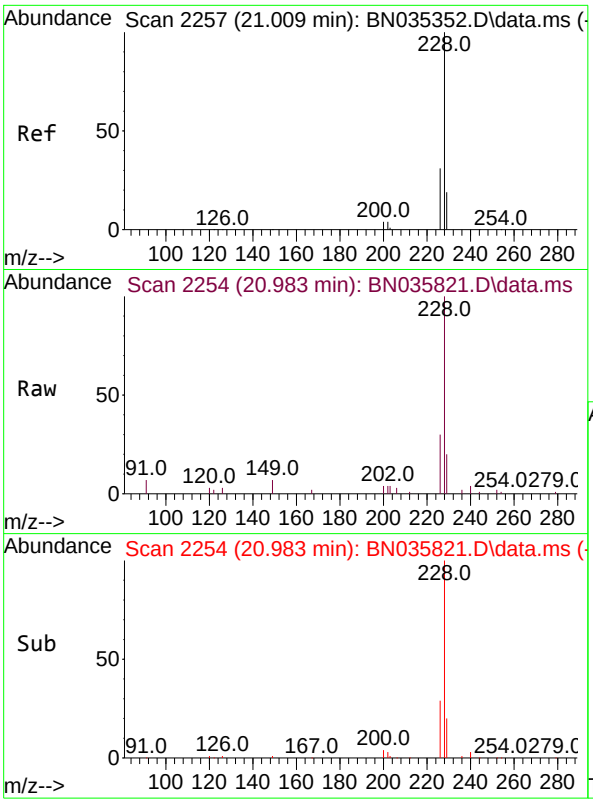


#32
Benzo(a)anthracene
Concen: 0.451 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 13869

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	20.2	15.8	23.8

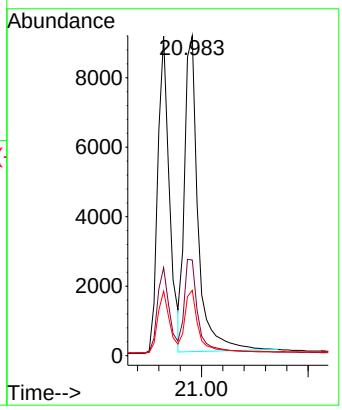




#33
Chrysene
Concen: 0.506 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 1604

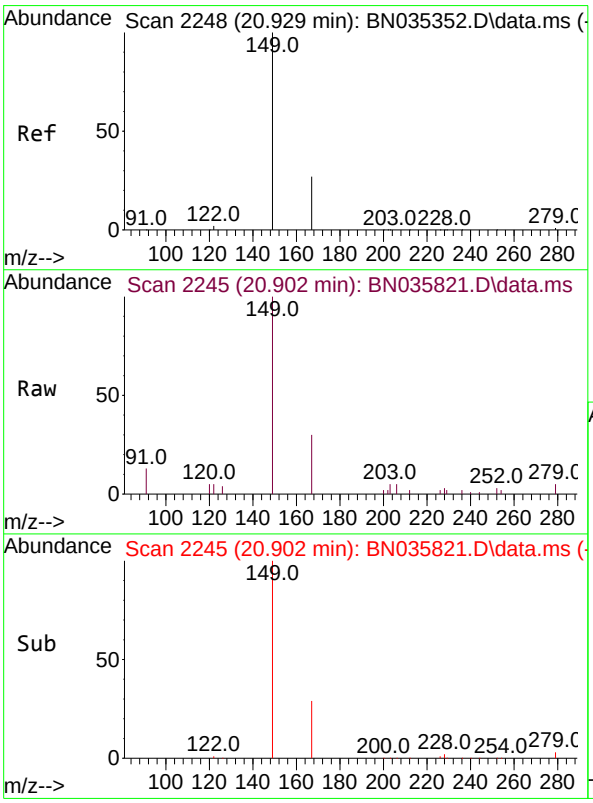
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	20.4	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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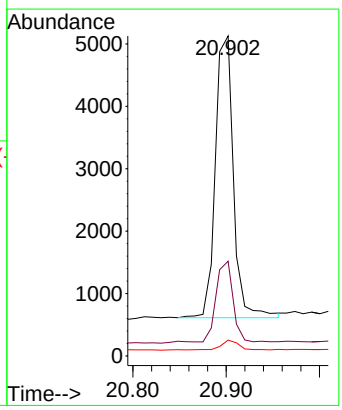
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

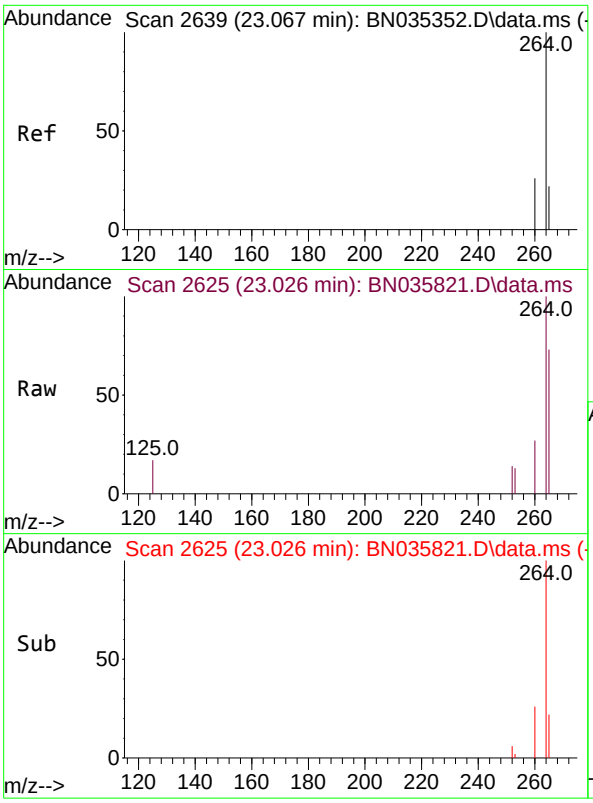


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.499 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:149 Resp: 6067

Ion	Ratio	Lower	Upper
149	100		
167	26.7	22.2	33.4
279	3.2	2.7	4.1

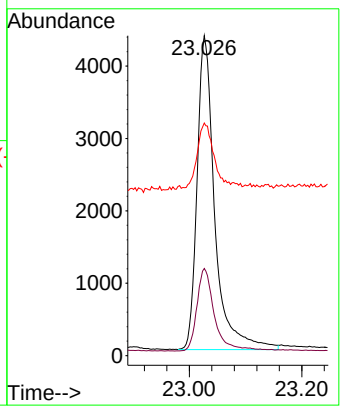




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:264 Resp: 947

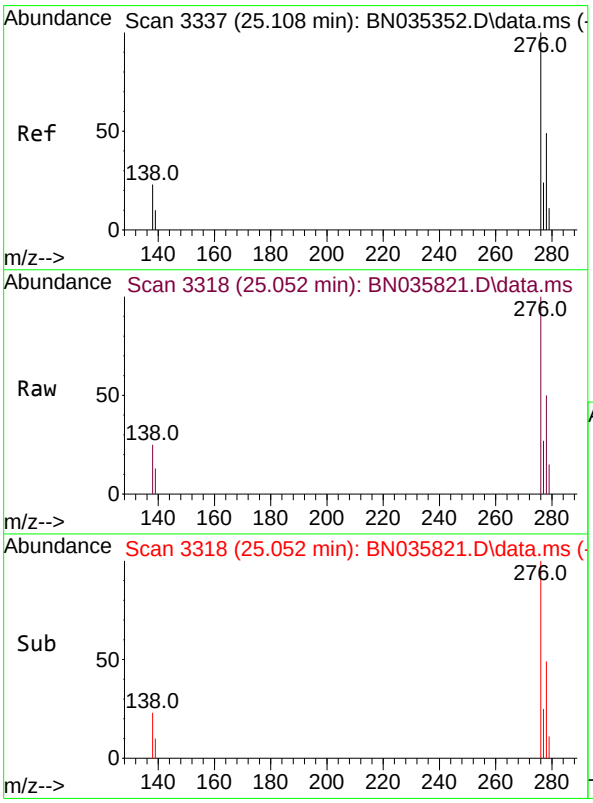
Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	72.7	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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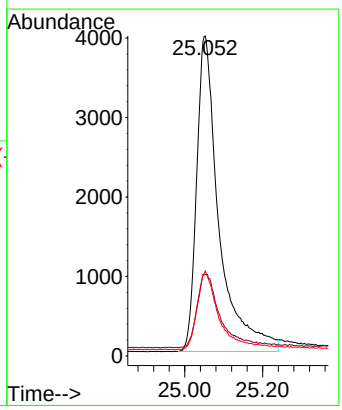
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

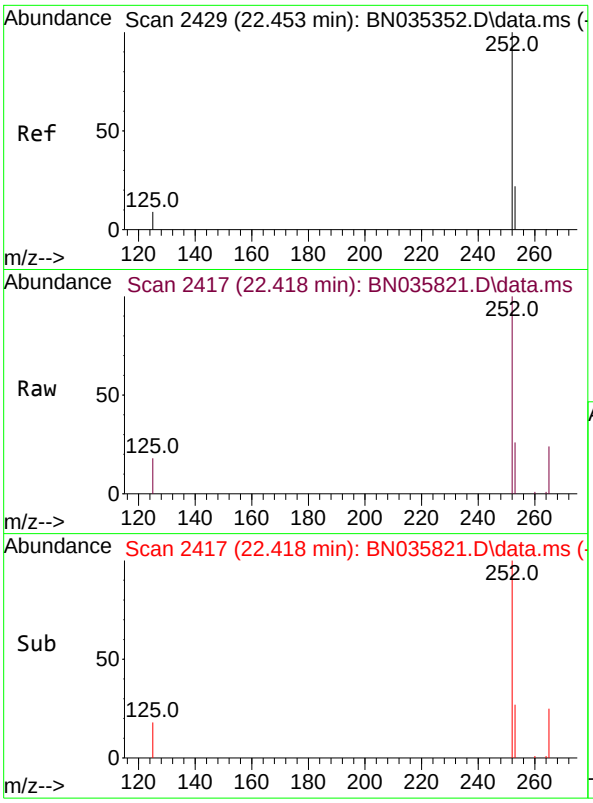


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:276 Resp: 15853

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.4	29.0
277	24.1	19.8	29.6

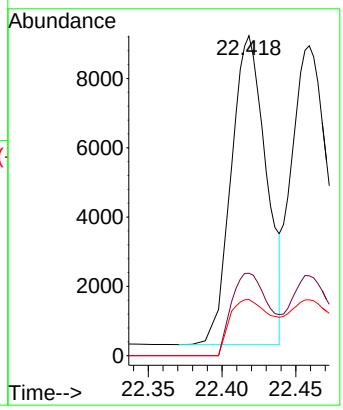




#37
Benzo(b)fluoranthene
Concen: 0.595 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 2064

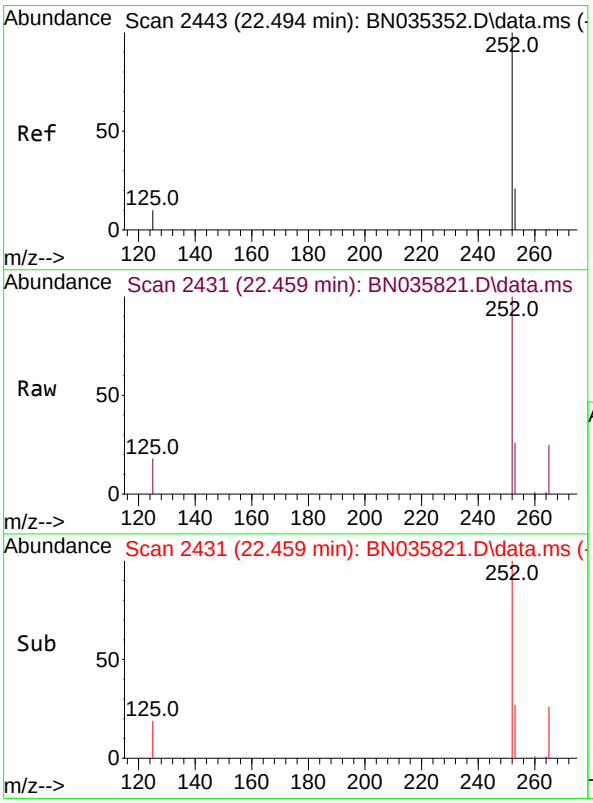
Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.6	29.4
125	17.6	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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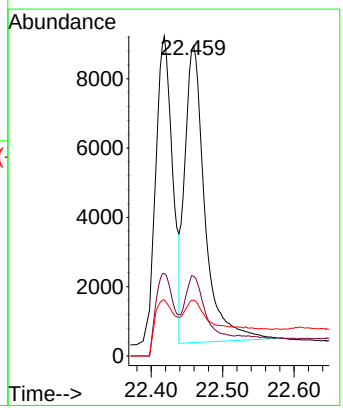
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

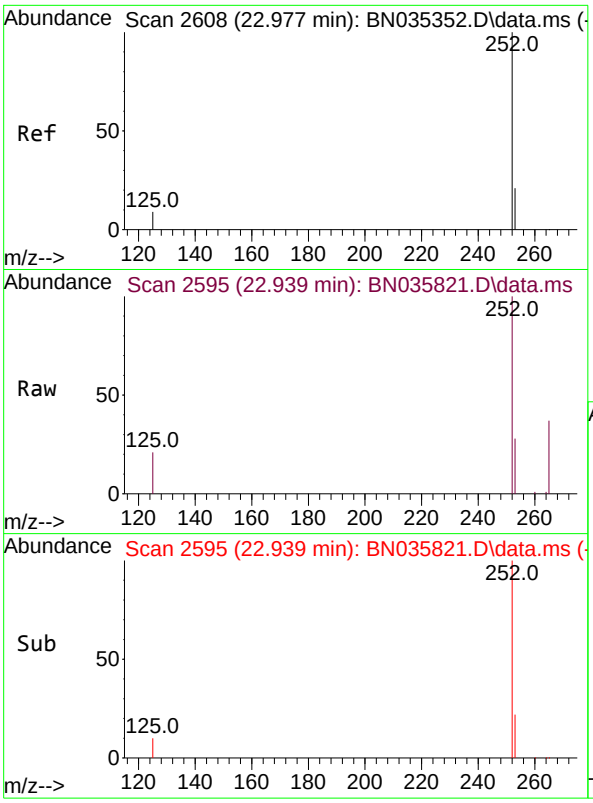


#38
Benzo(k)fluoranthene
Concen: 0.491 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 16743

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.5	29.3
125	18.0	10.2	15.4#

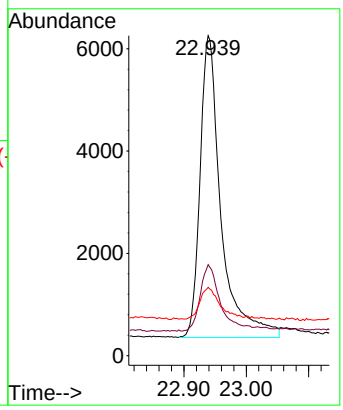




#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 1374

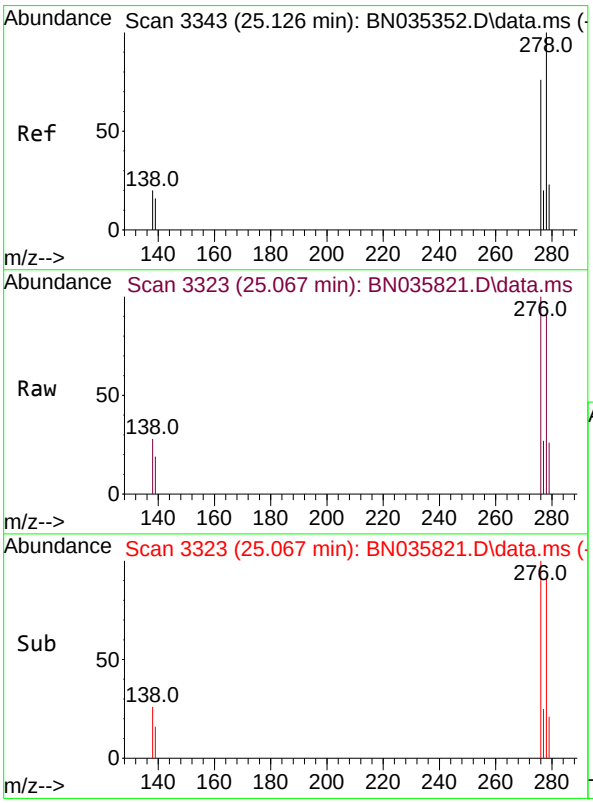
Ion	Ratio	Lower	Upper
252	100		
253	28.5	20.2	30.4
125	21.3	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
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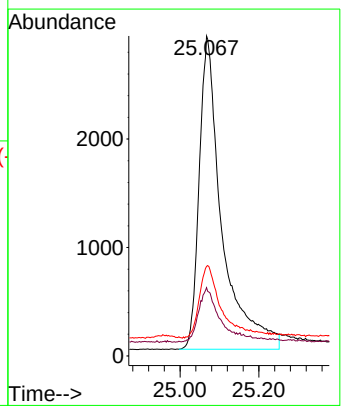
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

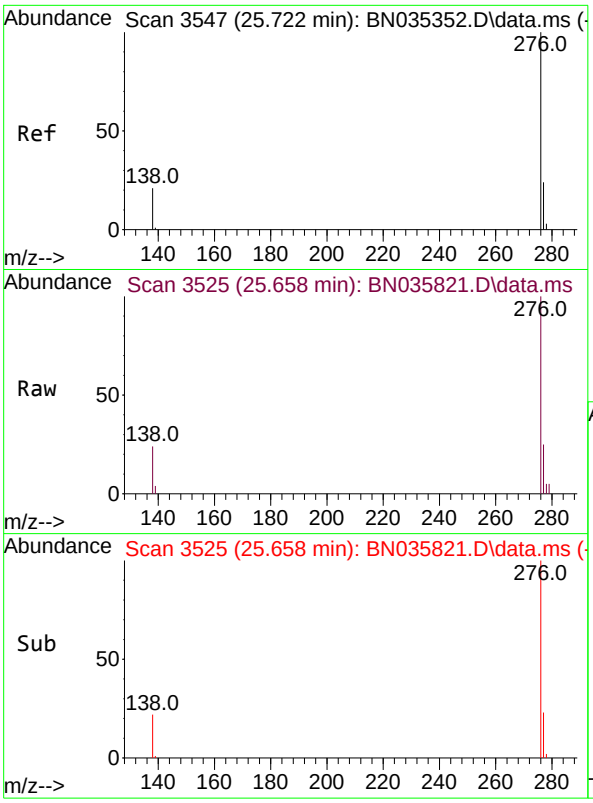


#40
Dibenzo(a,h)anthracene
Concen: 0.396 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:278 Resp: 11568

Ion	Ratio	Lower	Upper
278	100		
139	21.3	14.2	21.4
279	28.0	20.5	30.7

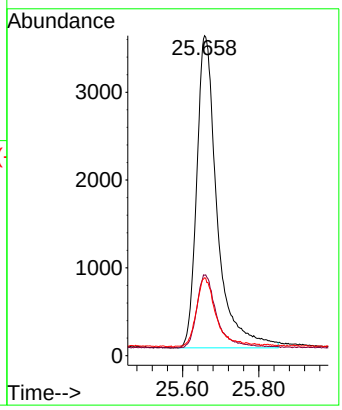




#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:276 Resp: 1323

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	24.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/18/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/20/24
Client Sample ID:	RW10-MW01S-20241218MSD	SDG No.:	P5376
Lab Sample ID:	P5376-09MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035822.D	1	12/23/24 13:29	12/24/24 15:31	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3190	7.257				
1146-65-2	Naphthalene-d8	7950	9.998				
15067-26-2	Acenaphthene-d10	4890	13.914				
1517-22-2	Phenanthrene-d10	10100	16.686				
1719-03-5	Chrysene-d12	9500	20.938				
1520-96-3	Perylene-d12	9990	23.02				

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\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3187	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	7953	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4887	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10068	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9501	0.400	ng	#-0.02
35) Perylene-d12	23.020	264	9990	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	967	0.121	ng	0.00
5) Phenol-d6	6.477	99	640	0.067	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2023m	0.416	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5387	0.433	ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	787	0.227	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6851	0.371	ng	-0.02
27) Fluoranthene-d10	18.747	212	12293	0.431	ng	-0.01
31) Terphenyl-d14	19.374	244	9610	0.513	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	932	0.306	ng	# 75
3) n-Nitrosodimethylamine	3.270	42	376	0.148	ng	# 81
6) bis(2-Chloroethyl)ether	6.715	93	2448	0.304	ng	95
9) Naphthalene	10.052	128	8332	0.397	ng	99
10) Hexachlorobutadiene	10.340	225	1549	0.320	ng	# 99
12) 2-Methylnaphthalene	11.681	142	5571	0.371	ng	99
16) Acenaphthylene	13.625	152	8940	0.436	ng	100
17) Acenaphthene	13.978	154	5758	0.423	ng	99
18) Fluorene	14.983	166	7782	0.399	ng	98
20) 4,6-Dinitro-2-methylph...	15.100	198	341	0.344	ng	# 31
21) 4-Bromophenyl-phenylether	15.891	248	2147	0.365	ng	# 78
22) Hexachlorobenzene	16.003	284	2983	0.431	ng	95
23) Atrazine	16.189	200	1738	0.415	ng	96
24) Pentachlorophenol	16.351	266	2251	0.748	ng	87
25) Phenanthrene	16.735	178	13447	0.486	ng	99
26) Anthracene	16.822	178	11668	0.466	ng	98
28) Fluoranthene	18.775	202	16762	0.450	ng	99
30) Pyrene	19.142	202	17829	0.508	ng	99
32) Benzo(a)anthracene	20.920	228	15744	0.474	ng	100
33) Chrysene	20.974	228	16946	0.494	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6876	0.524	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	16588	0.425	ng	98
37) Benzo(b)fluoranthene	22.412	252	22222	0.608	ng	# 93
38) Benzo(k)fluoranthene	22.453	252	18080	0.503	ng	# 93
39) Benzo(a)pyrene	22.933	252	14639	0.486	ng	# 90
40) Dibenzo(a,h)anthracene	25.064	278	12290	0.399	ng	94
41) Benzo(g,h,i)perylene	25.655	276	13609	0.423	ng	98

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

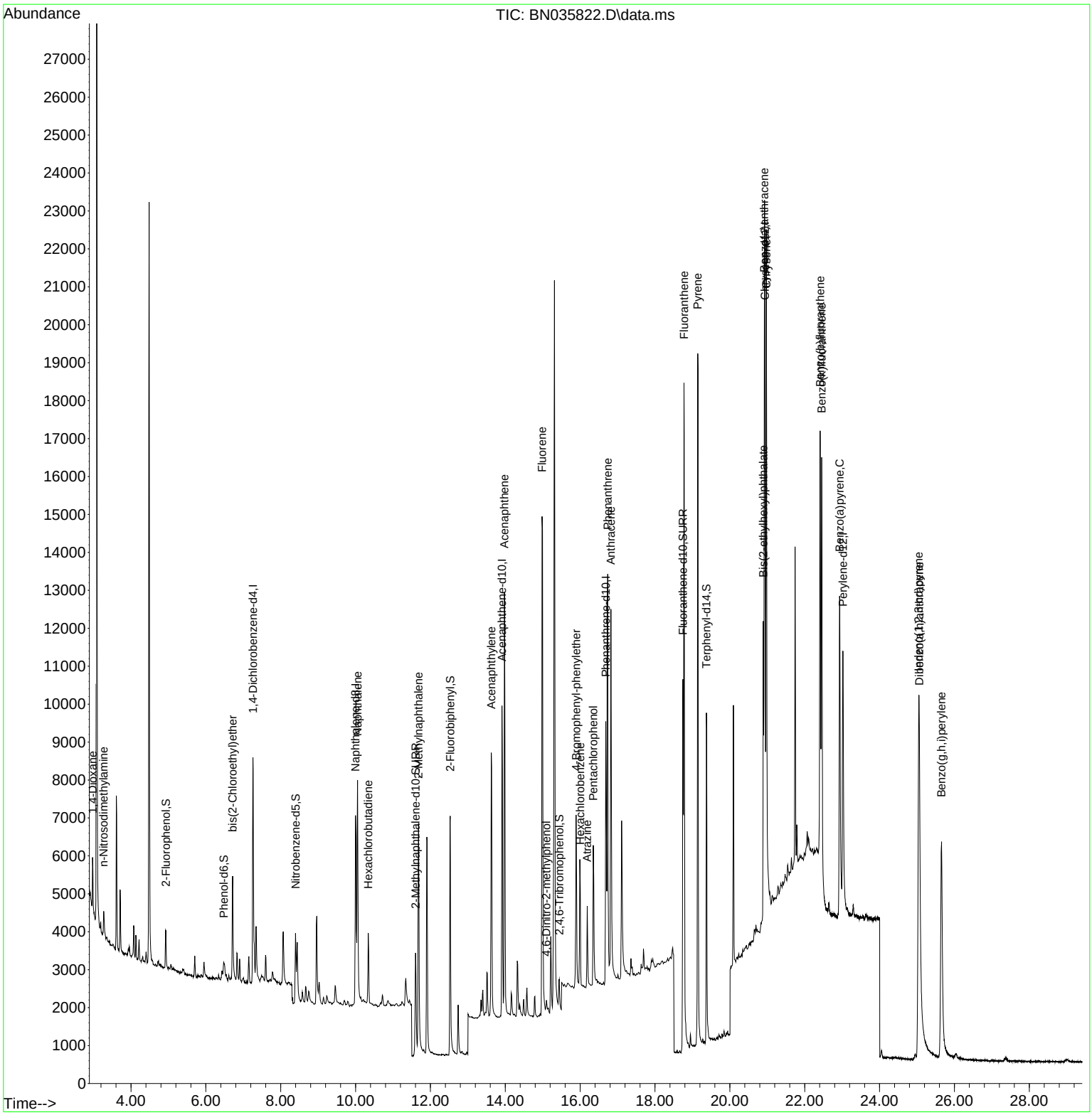
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

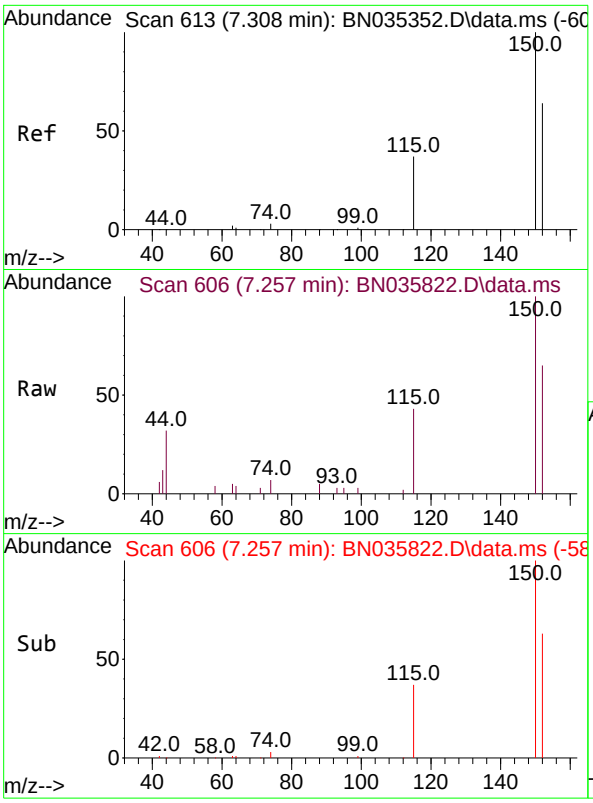
Quant Time: Dec 24 23:19:11 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

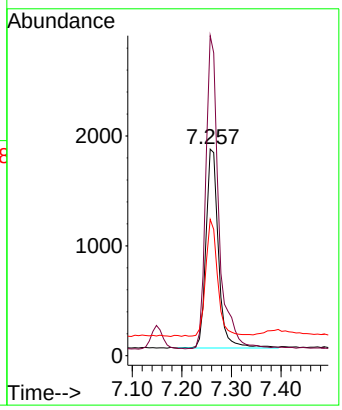




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 318

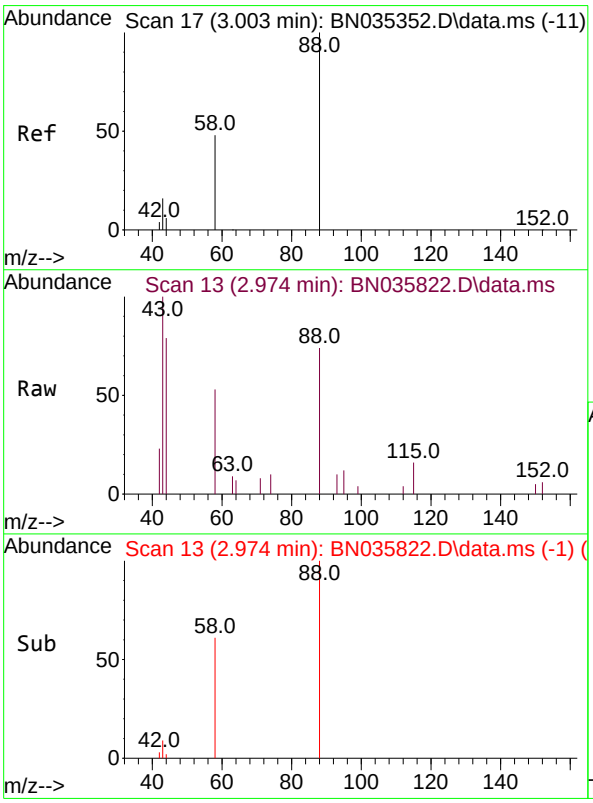
Ion	Ratio	Lower	Upper
152	100		
150	154.9	124.0	186.0
115	66.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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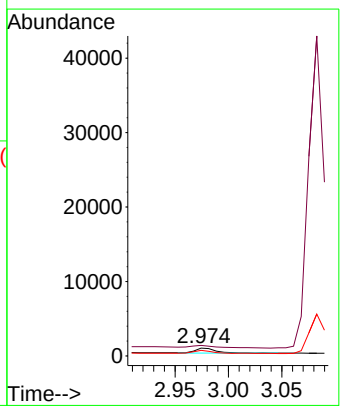
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

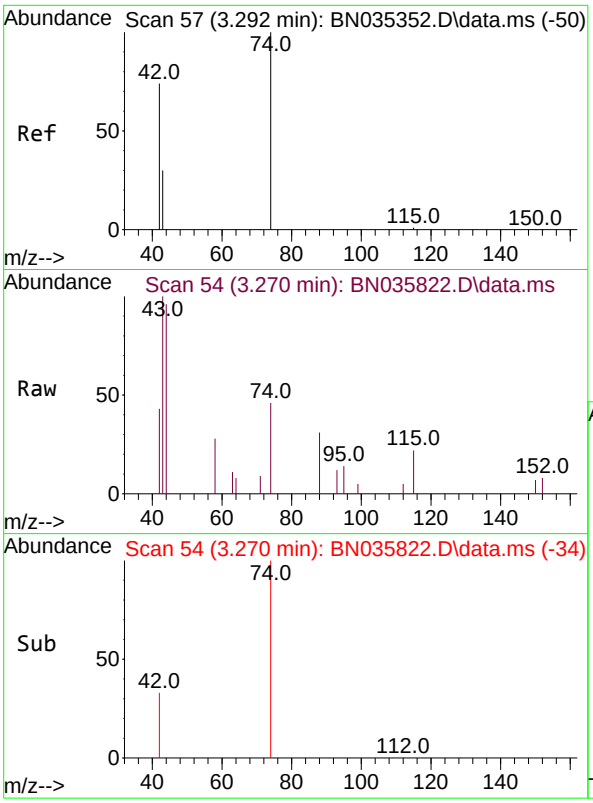


#2
1,4-Dioxane
Concen: 0.306 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 88 Resp: 932

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.2	25.8#
58	67.9	44.5	66.7#

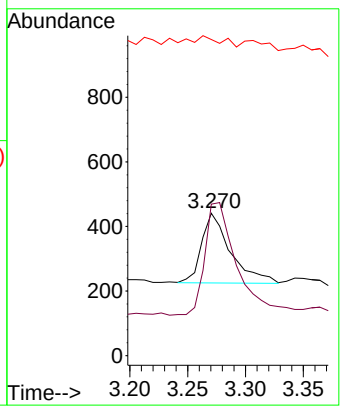




#3
n-Nitrosodimethylamine
Concen: 0.148 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 42 Resp: 37

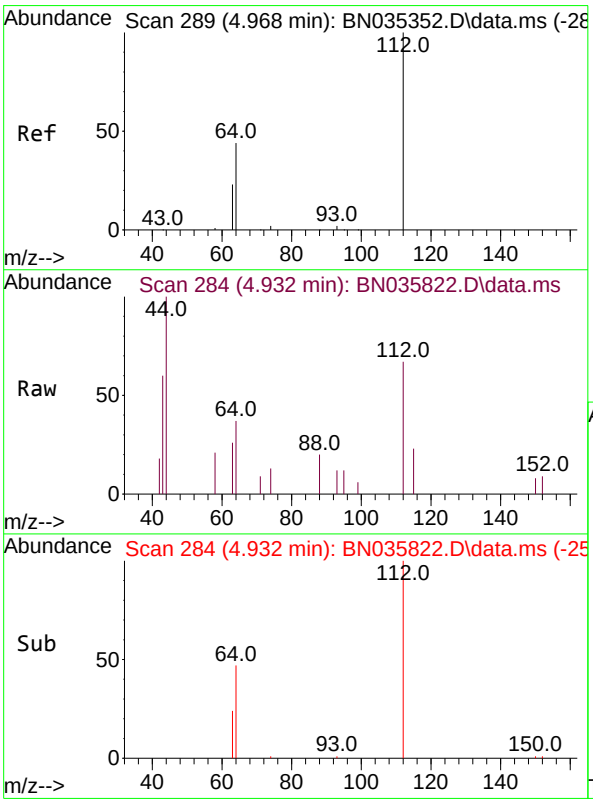
Ion	Ratio	Lower	Upper
42	100		
74	180.6	124.9	187.3
44	0.0	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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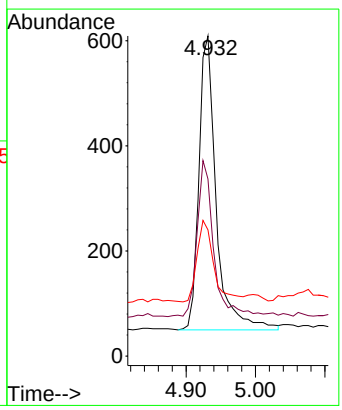
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

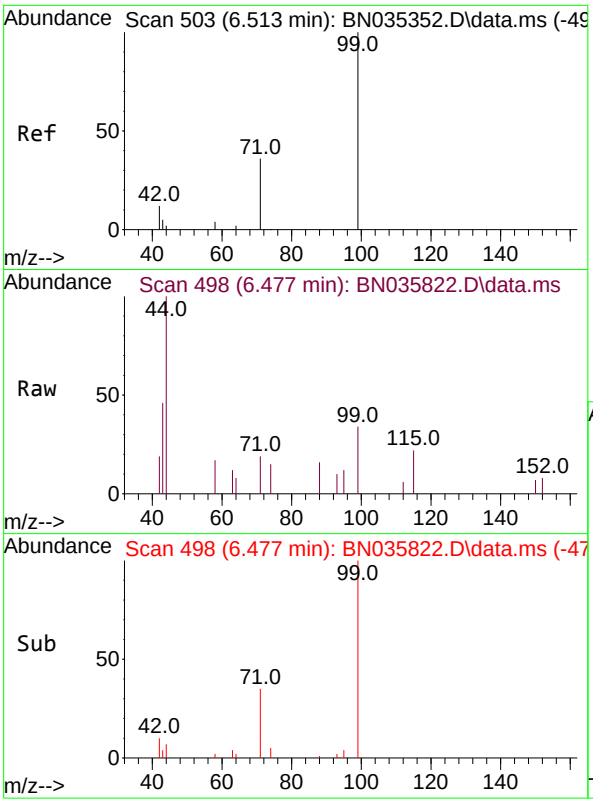


#4
2-Fluorophenol
Concen: 0.121 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:112 Resp: 967

Ion	Ratio	Lower	Upper
112	100		
64	52.6	39.8	59.8
63	27.0	21.0	31.6

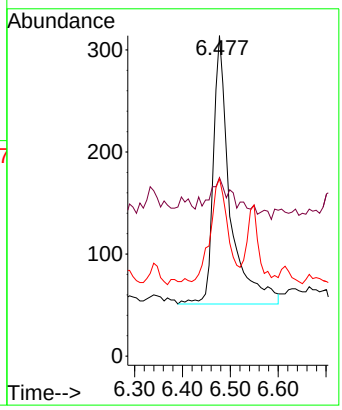




#5
Phenol-d6
Concen: 0.067 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 99 Resp: 64

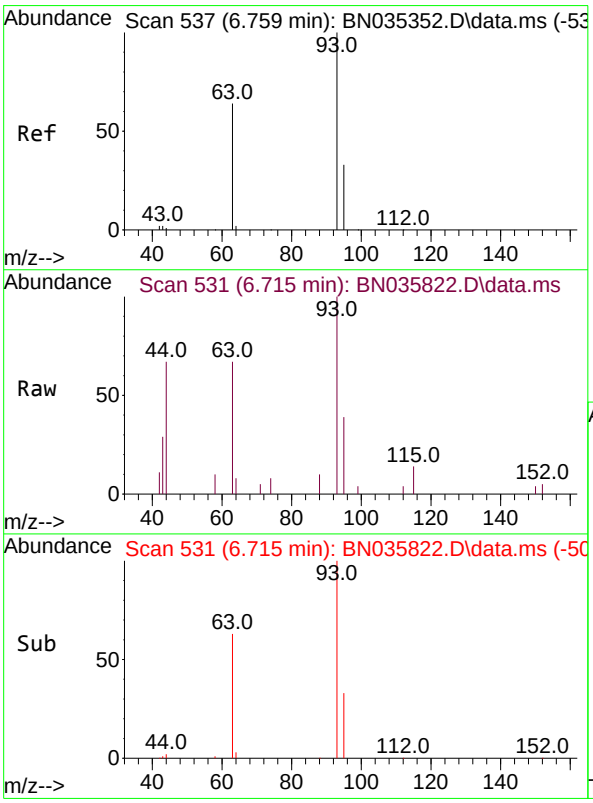
Ion	Ratio	Lower	Upper
99	100		
42	16.3	11.4	17.2
71	42.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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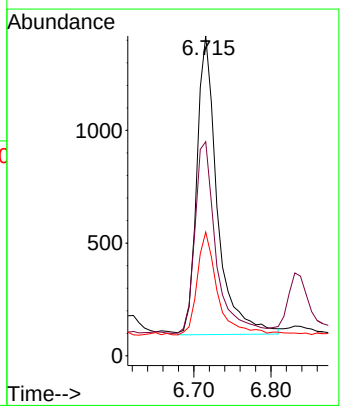
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

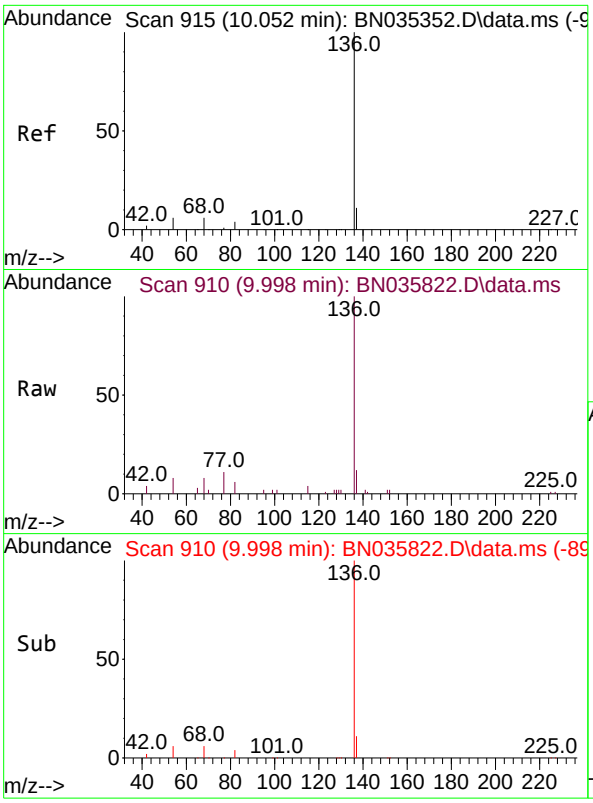


#6
bis(2-Chloroethyl)ether
Concen: 0.304 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 93 Resp: 2448

Ion	Ratio	Lower	Upper
93	100		
63	66.0	50.4	75.6
95	35.5	25.7	38.5

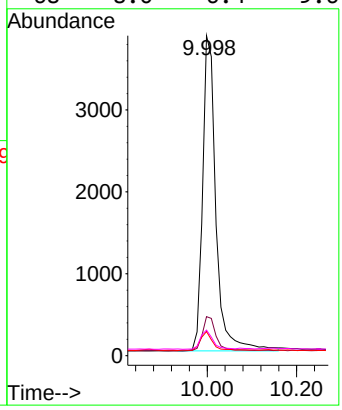




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

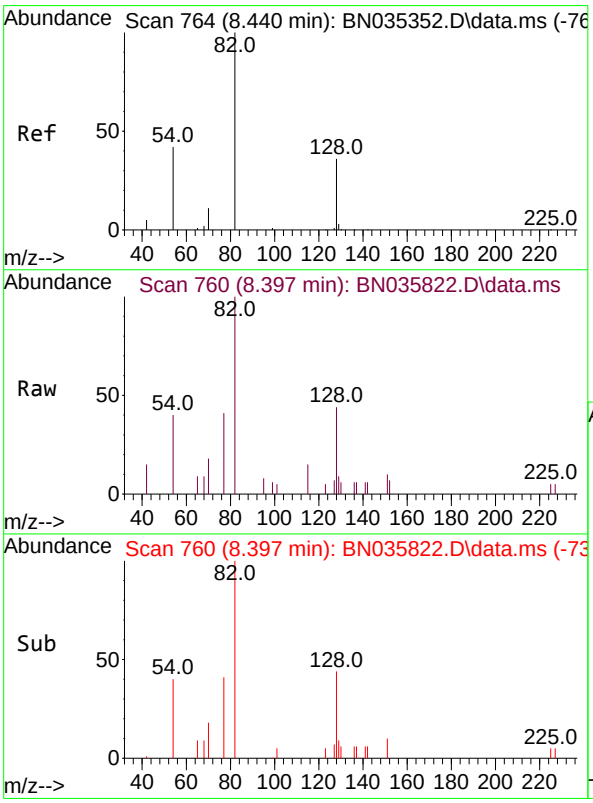
Tgt Ion:136 Resp: 795

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

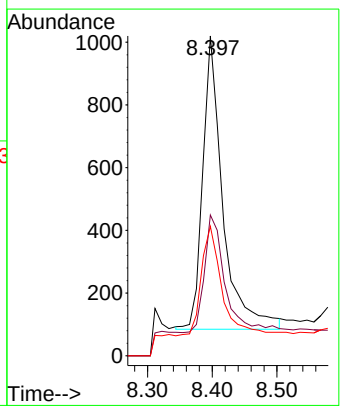
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

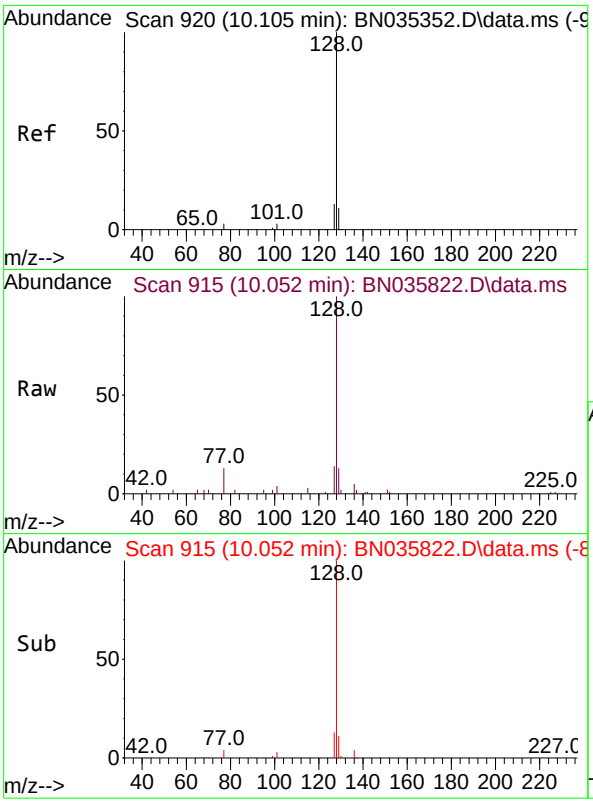


#8
Nitrobenzene-d5
Concen: 0.416 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 82 Resp: 2023

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.4	50.0
54	40.5	36.7	55.1

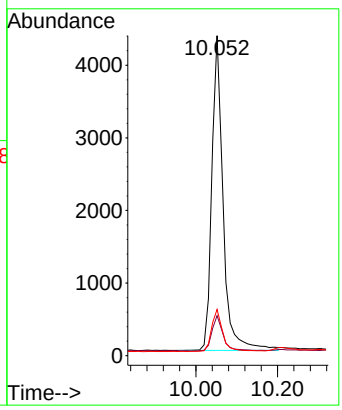




#9
Naphthalene
Concen: 0.397 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:128 Resp: 833

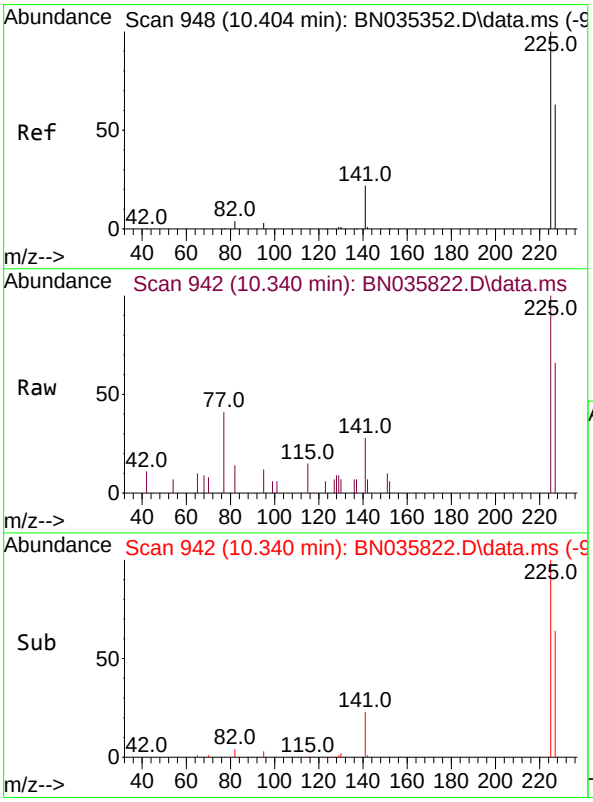
Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.4	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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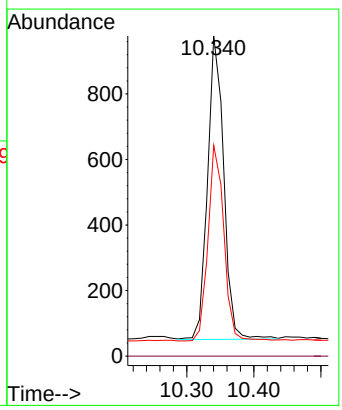
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

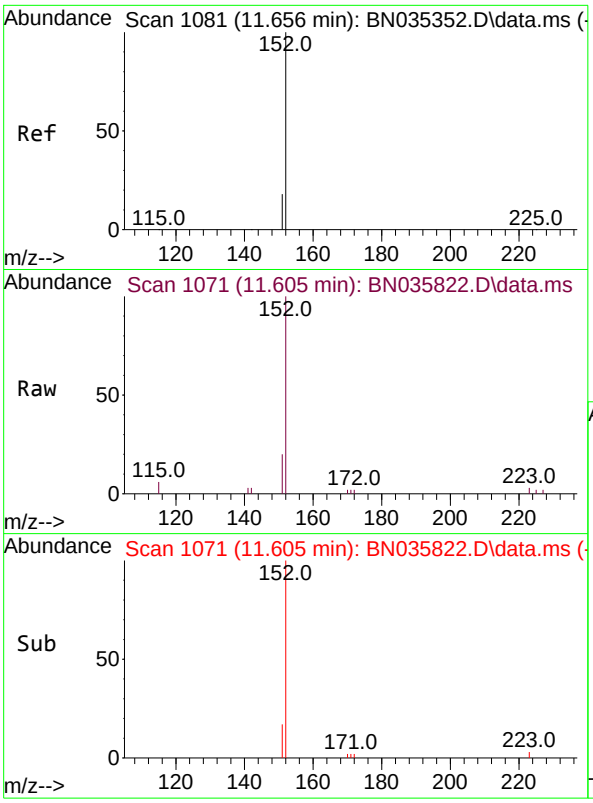


#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:225 Resp: 1549

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.3	76.9

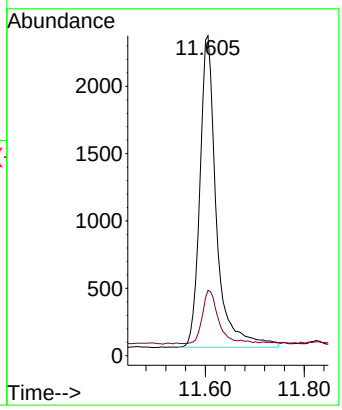




#11
2-Methylnaphthalene-d10
Concen: 0.433 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 538

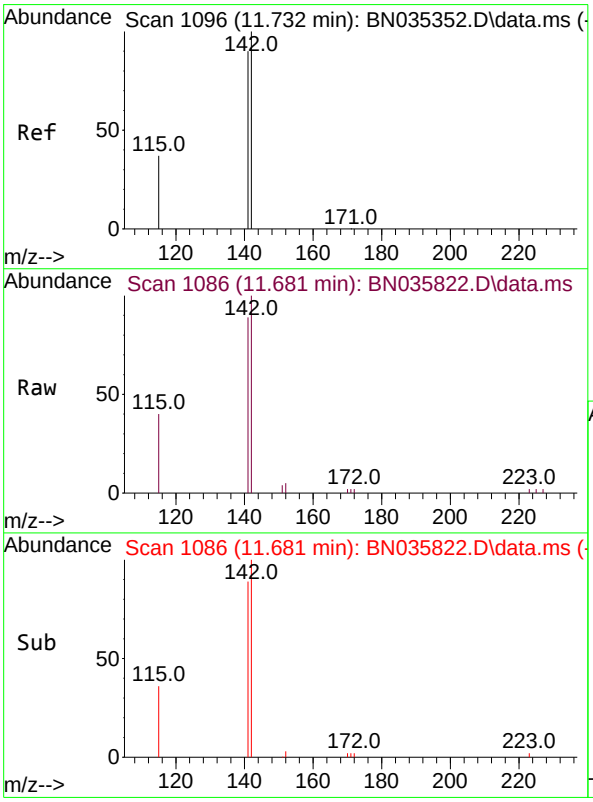
Ion	Ratio	Lower	Upper
152	100		
151	16.6	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations APPROVED

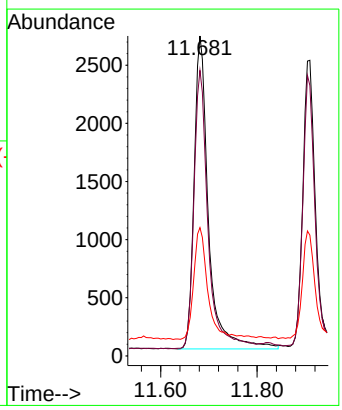
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

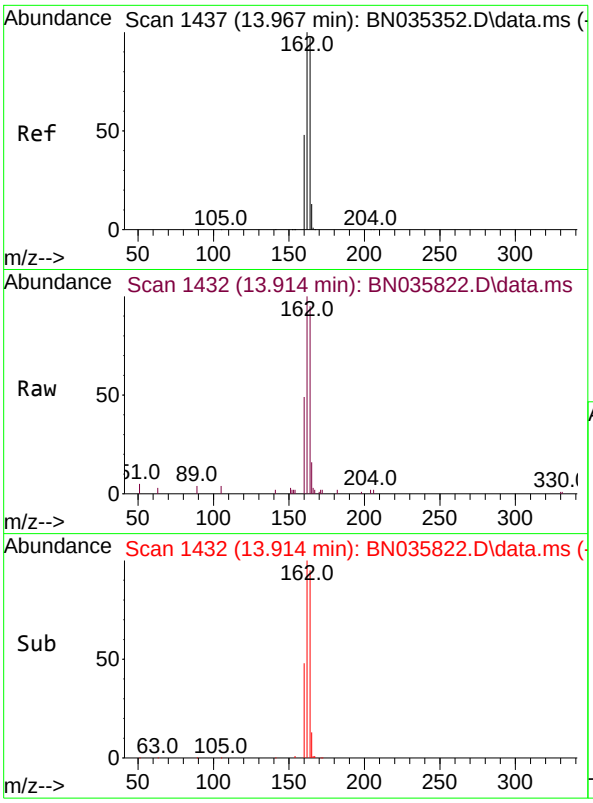


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:142 Resp: 5571

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.1	31.4	47.0

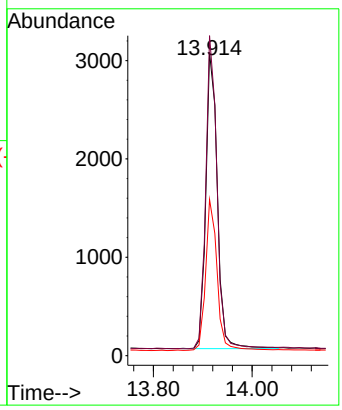




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:164 Resp: 488

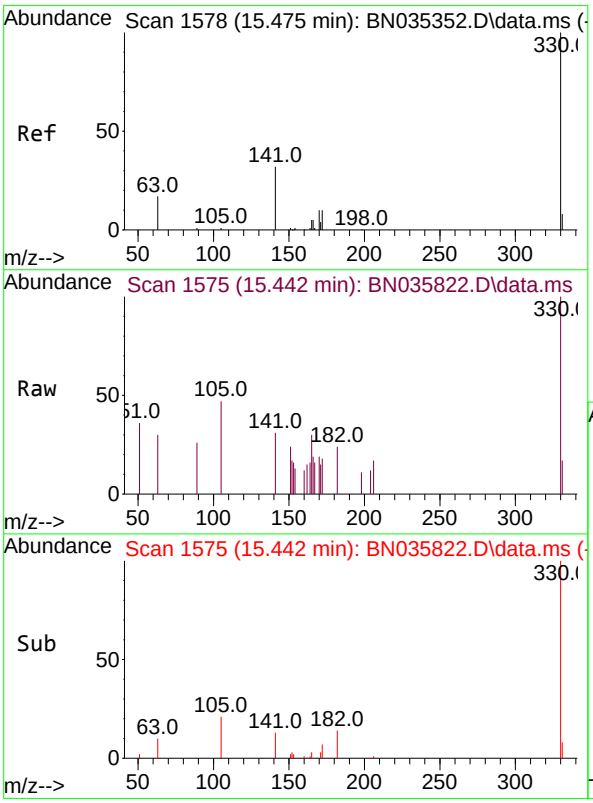
Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.2	123.2
160	51.5	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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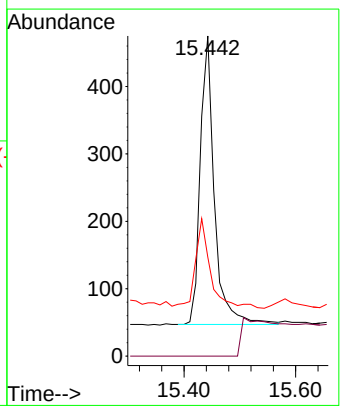
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

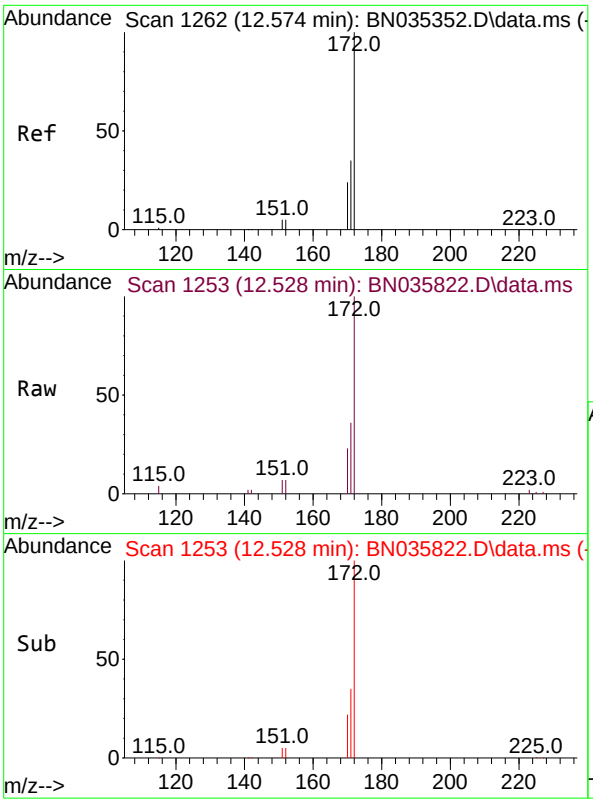


#14
2,4,6-Tribromophenol
Concen: 0.227 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:330 Resp: 787

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.5	26.6	40.0

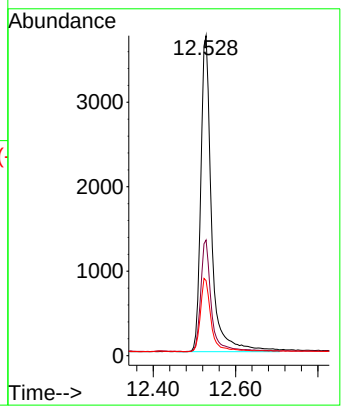




#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:172 Resp: 685

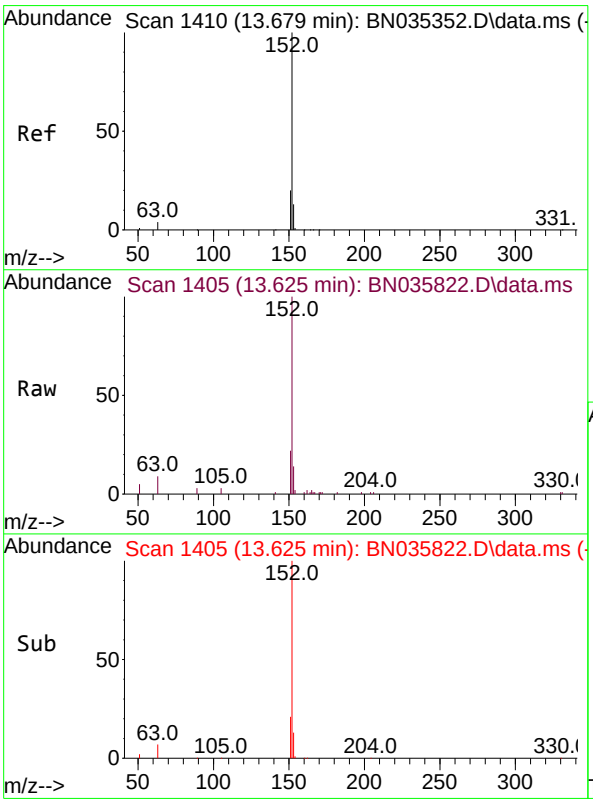
Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	23.5	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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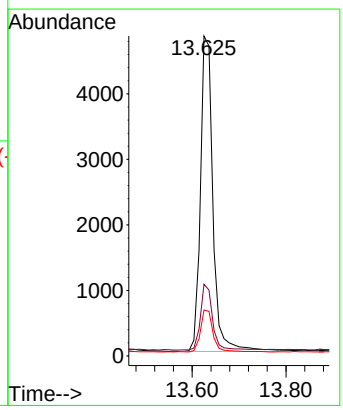
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

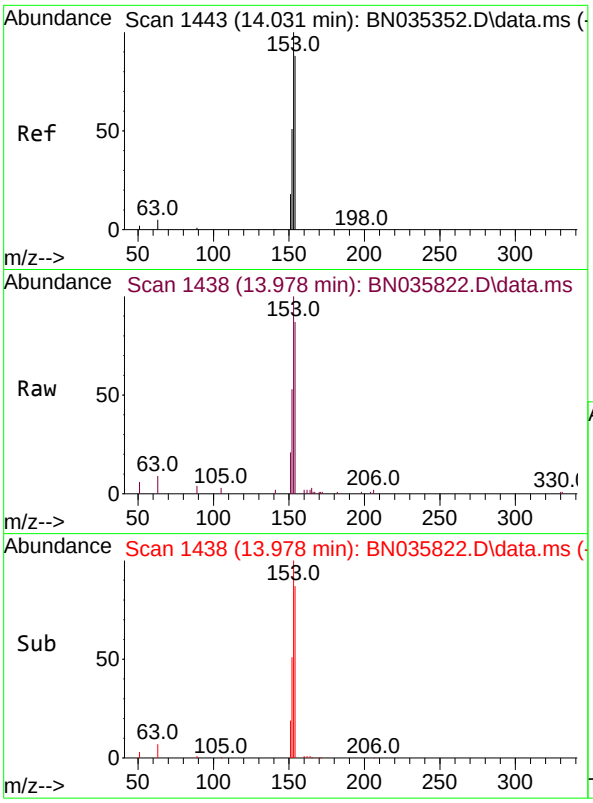


#16
Acenaphthylene
Concen: 0.436 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 8940

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.4	10.4	15.6

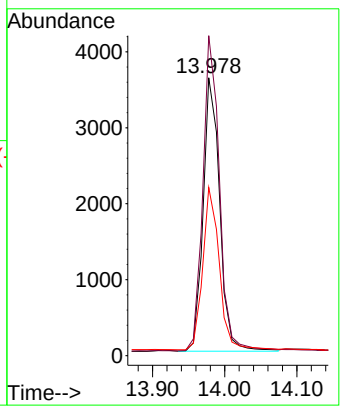




#17
Acenaphthene
Concen: 0.423 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:154 Resp: 575

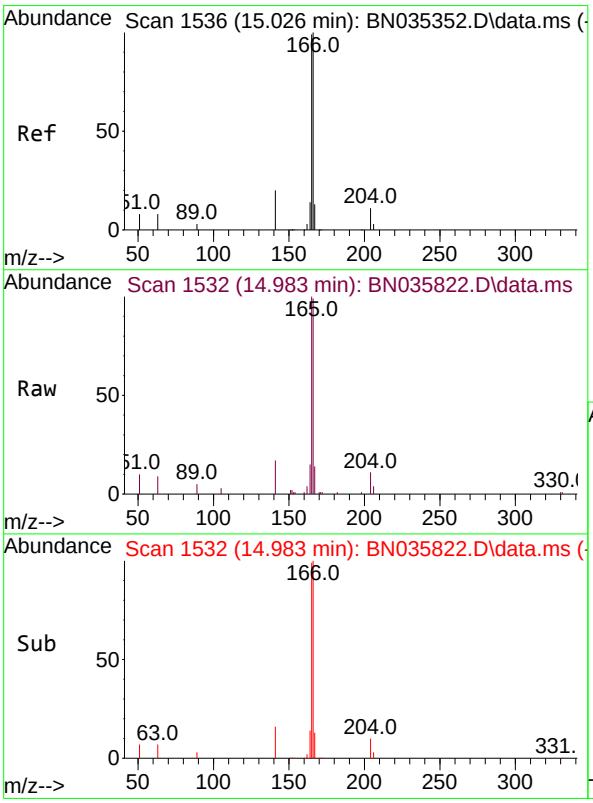
Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	58.9	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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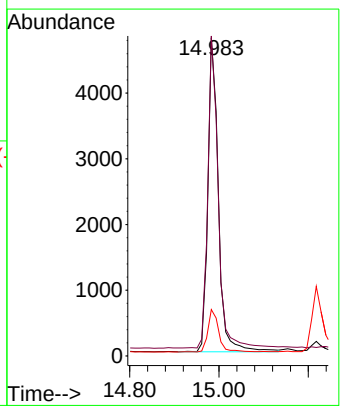
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

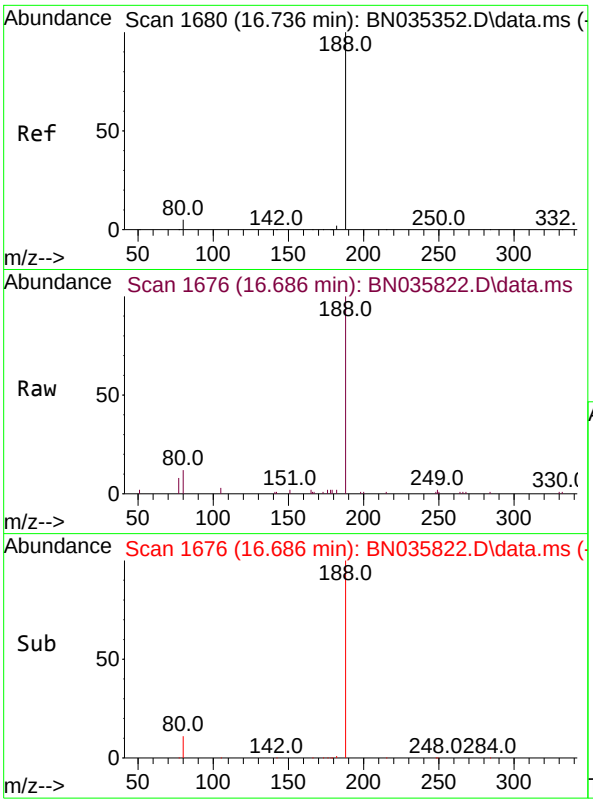


#18
Fluorene
Concen: 0.399 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:166 Resp: 7782

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.9	10.8	16.2

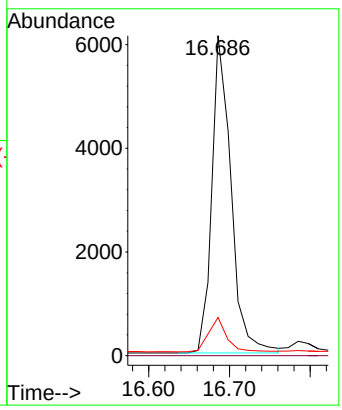




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:188 Resp: 1006

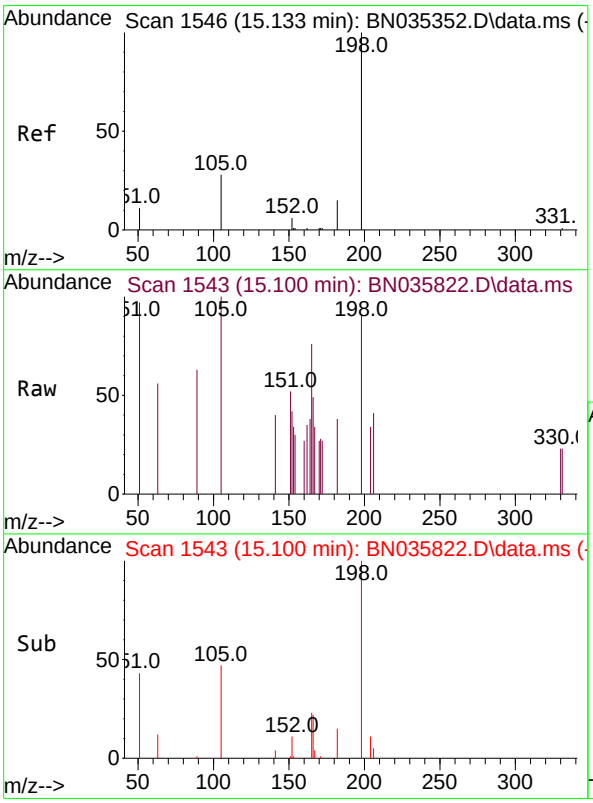
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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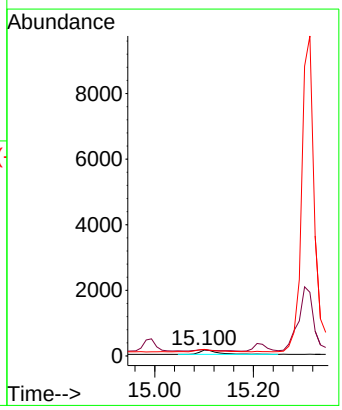
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

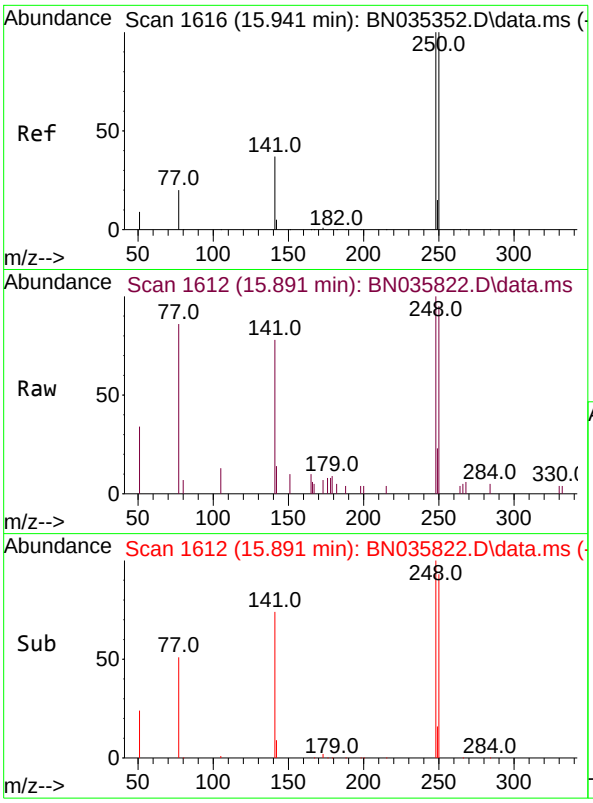


#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:198 Resp: 341

Ion	Ratio	Lower	Upper
198	100		
51	106.6	46.5	69.7#
105	109.9	45.3	67.9#

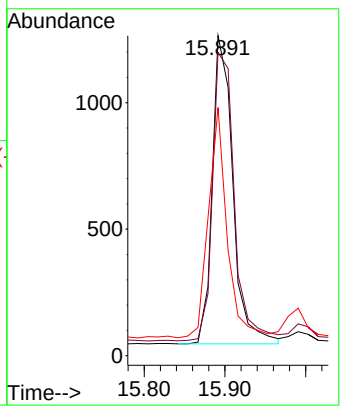




#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 15.891 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:248 Resp: 214

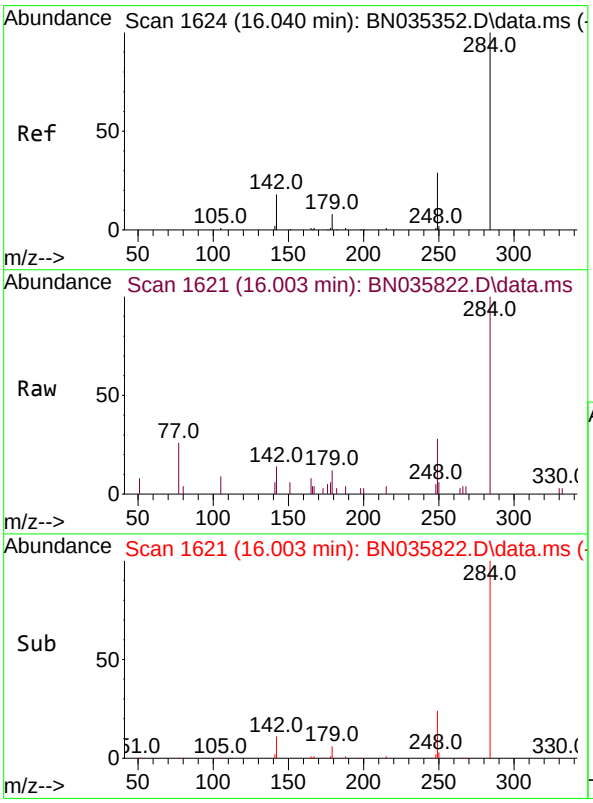
Ion	Ratio	Lower	Upper
248	100		
250	94.8	80.6	120.8
141	77.5	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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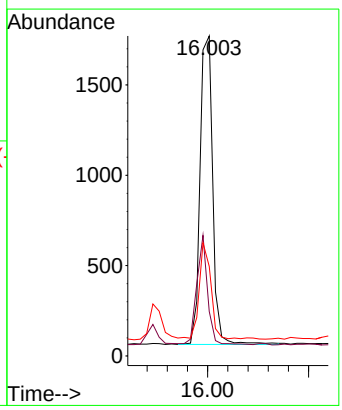
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

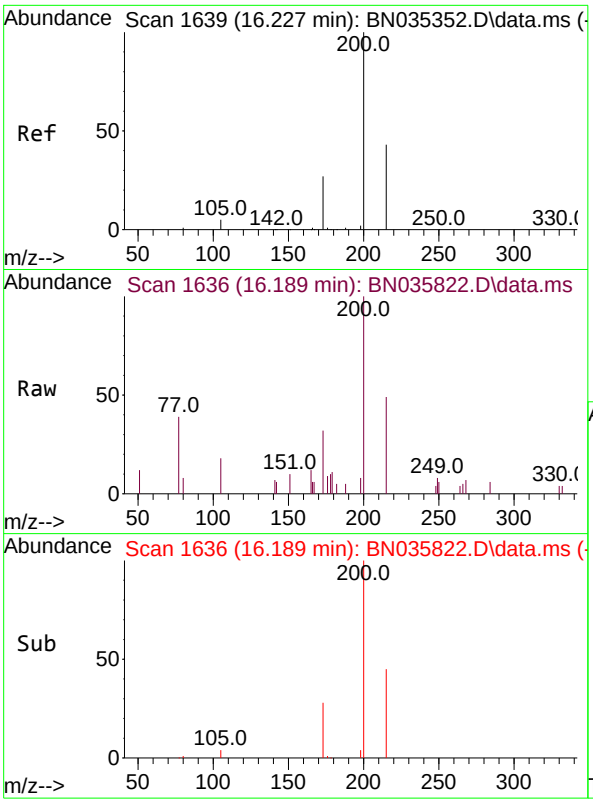


#22
Hexachlorobenzene
Concen: 0.431 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:284 Resp: 2983

Ion	Ratio	Lower	Upper
284	100		
142	30.0	26.7	40.1
249	28.6	24.6	36.8

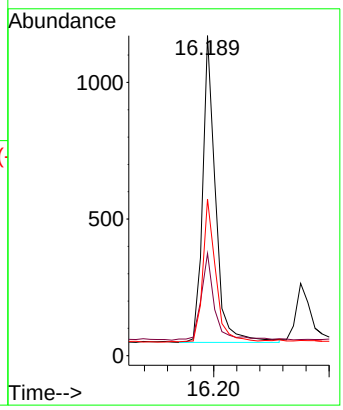




#23
Atrazine
Concen: 0.415 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:200 Resp: 173

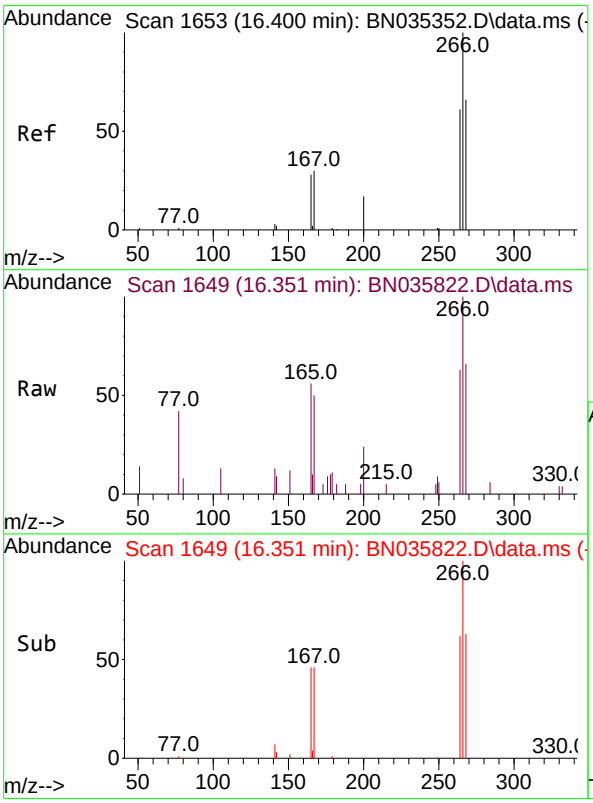
Ion	Ratio	Lower	Upper
200	100		
173	31.9	24.1	36.1
215	48.9	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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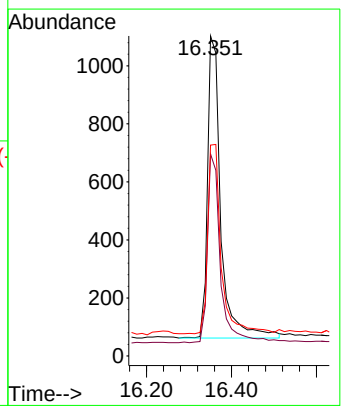
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

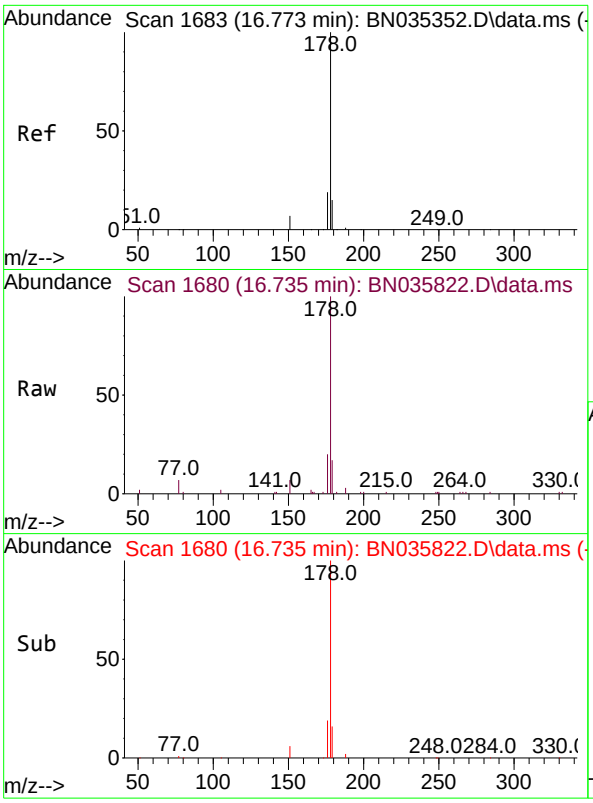


#24
Pentachlorophenol
Concen: 0.748 ng
RT: 16.351 min Scan# 1649
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:266 Resp: 2251

Ion	Ratio	Lower	Upper
266	100		
264	61.1	42.3	63.5
268	64.2	43.3	64.9

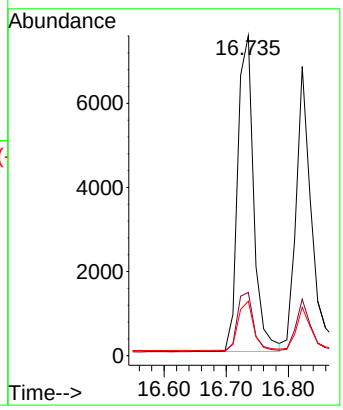




#25
Phenanthrene
Concen: 0.486 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 1344

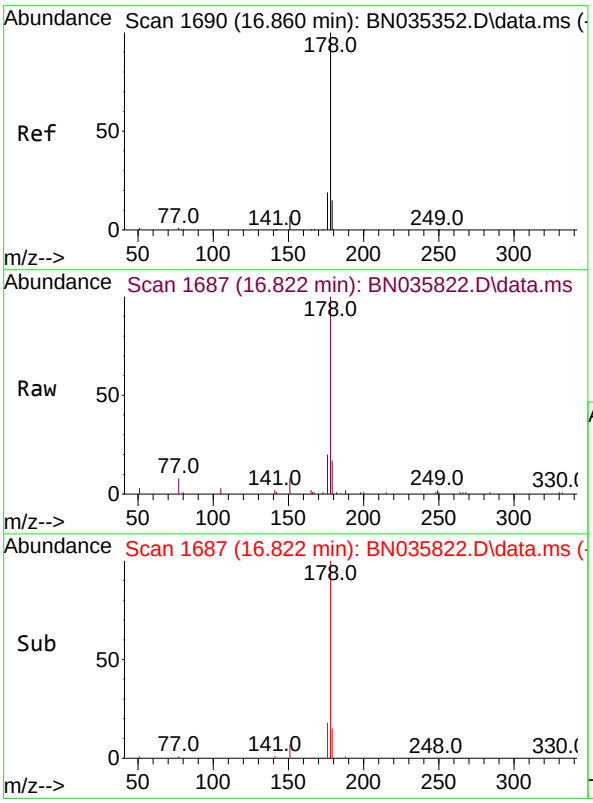
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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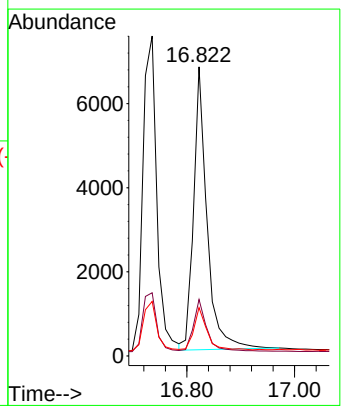
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

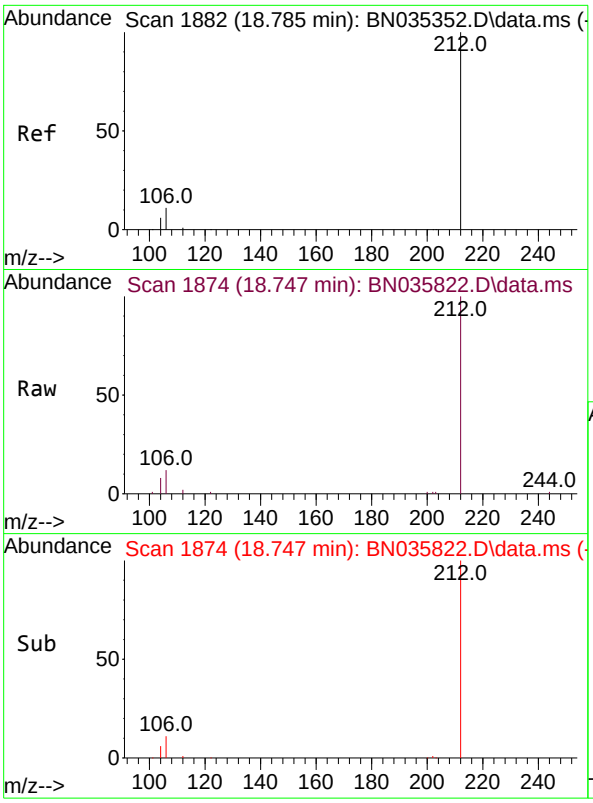


#26
Anthracene
Concen: 0.466 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 11668

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.6
179	14.9	12.6	18.8

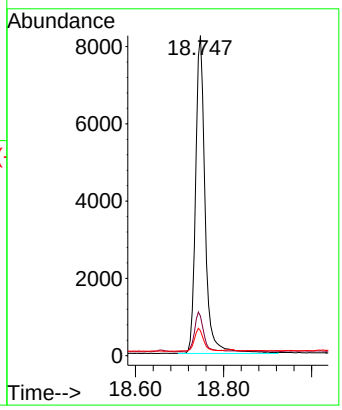




#27
Fluoranthene-d10
Concen: 0.431 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:212 Resp: 1229

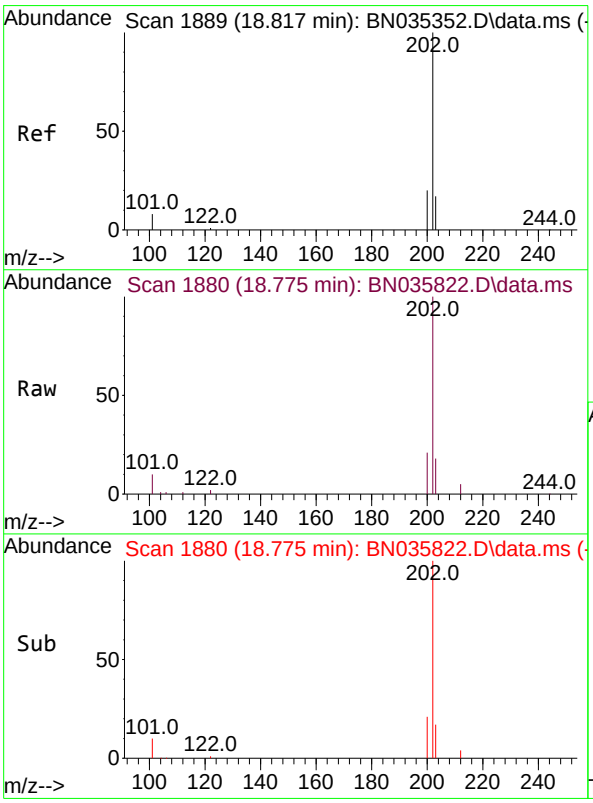
Ion	Ratio	Lower	Upper
212	100		
106	12.4	9.2	13.8
104	6.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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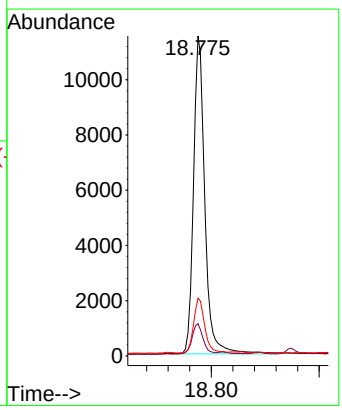
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

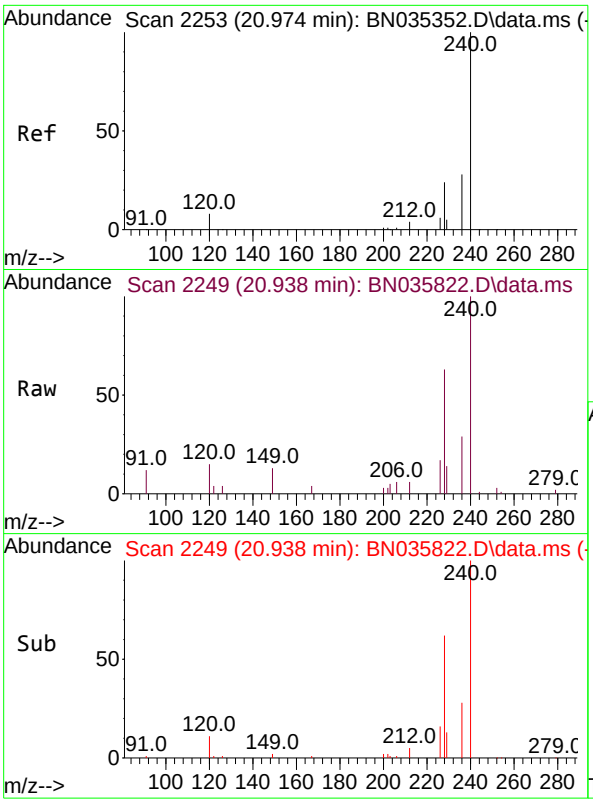


#28
Fluoranthene
Concen: 0.450 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 16762

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	16.8	13.7	20.5

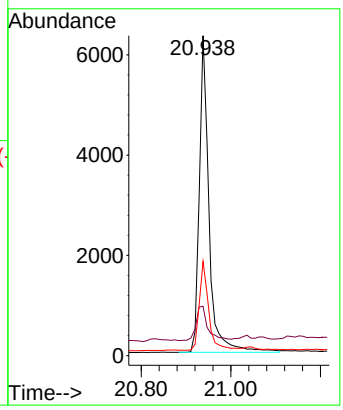




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:240 Resp: 950

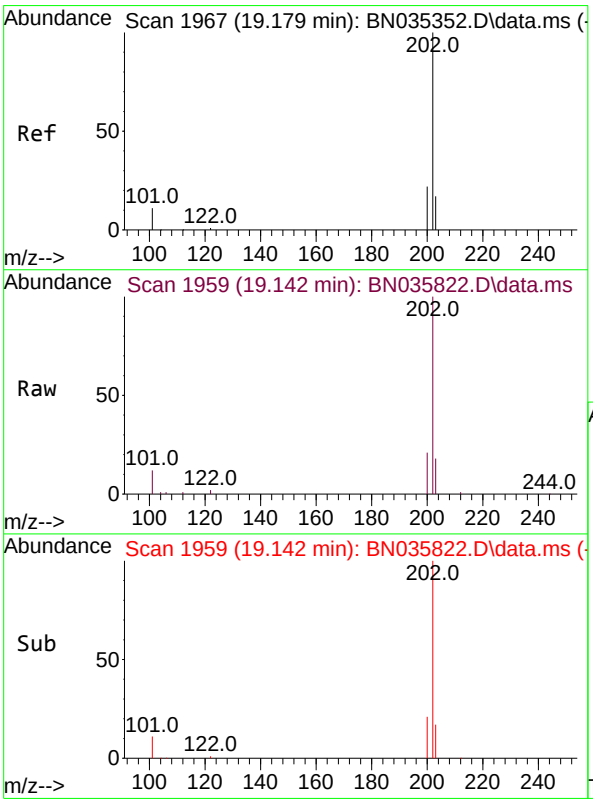
Ion	Ratio	Lower	Upper
240	100		
120	15.4	7.9	11.9
236	29.5	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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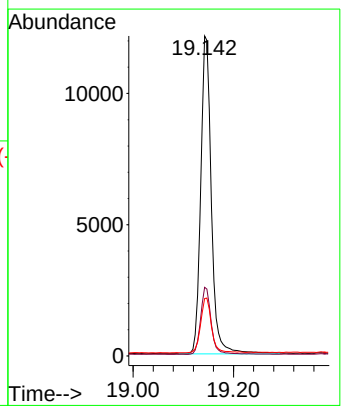
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

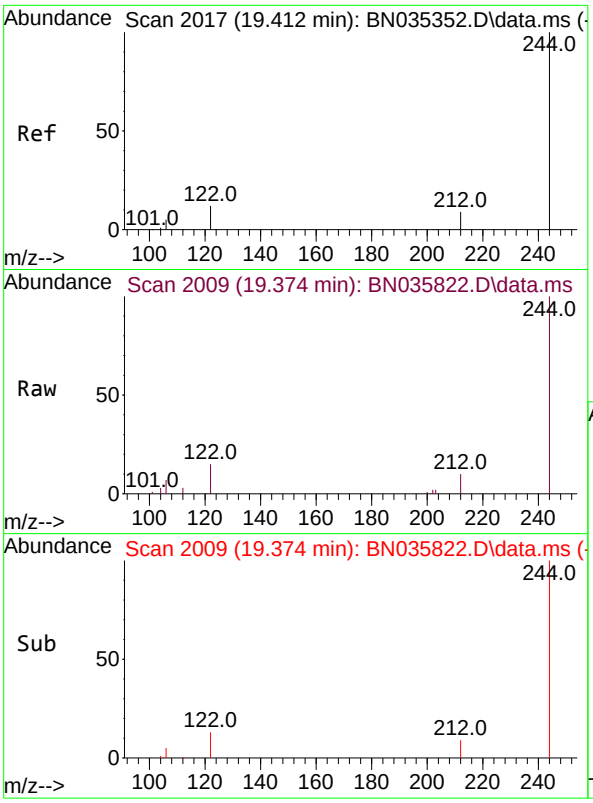


#30
Pyrene
Concen: 0.508 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 17829

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.7	14.3	21.5

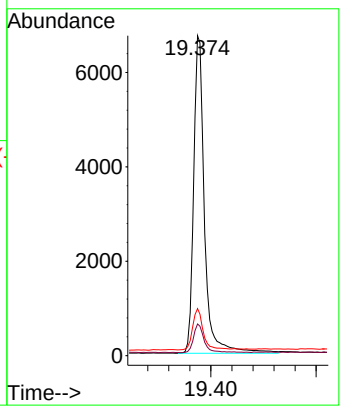




#31
Terphenyl-d14
Concen: 0.513 ng
RT: 19.374 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:244 Resp: 961

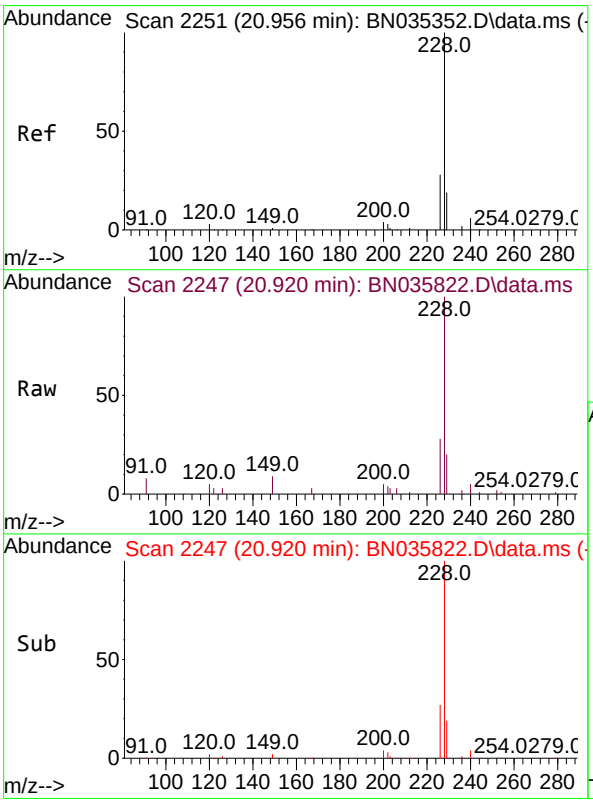
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	14.7	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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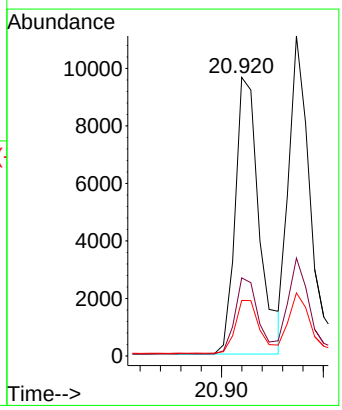
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

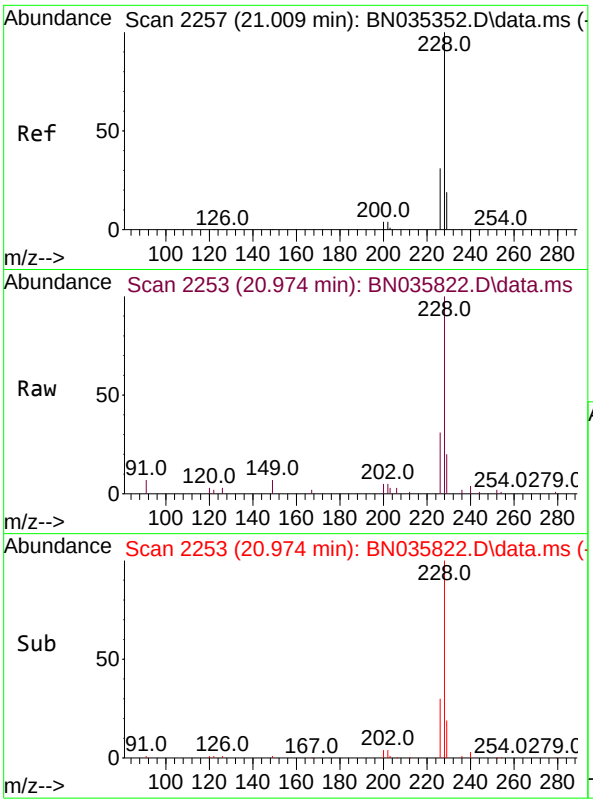


#32
Benzo(a)anthracene
Concen: 0.474 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 15744

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.0	15.8	23.8

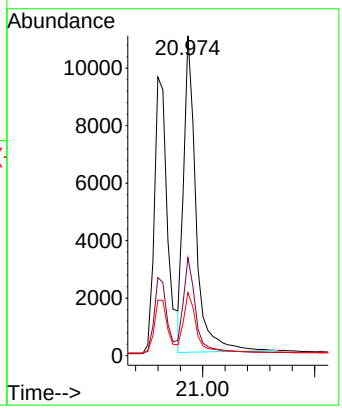




#33
Chrysene
Concen: 0.494 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 1694

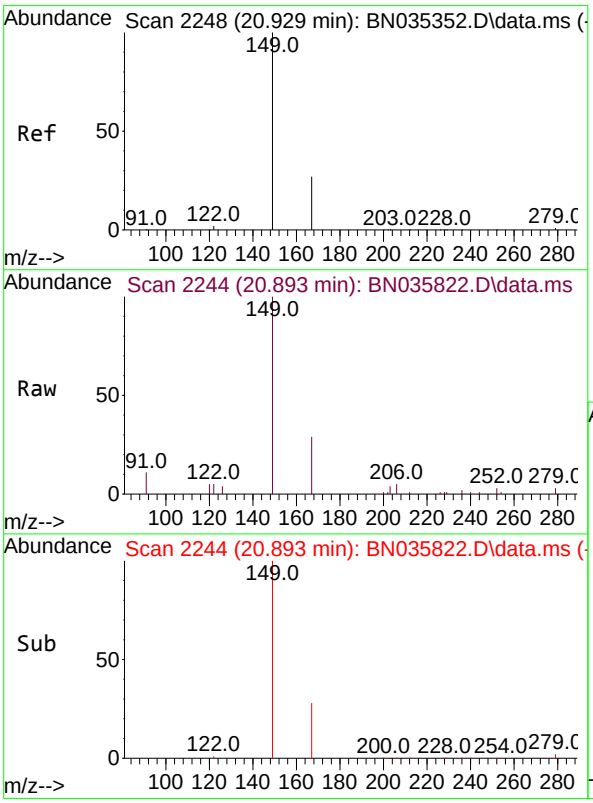
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.7	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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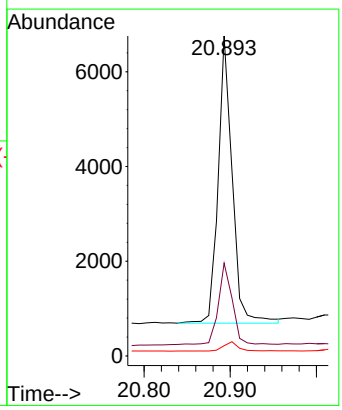
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

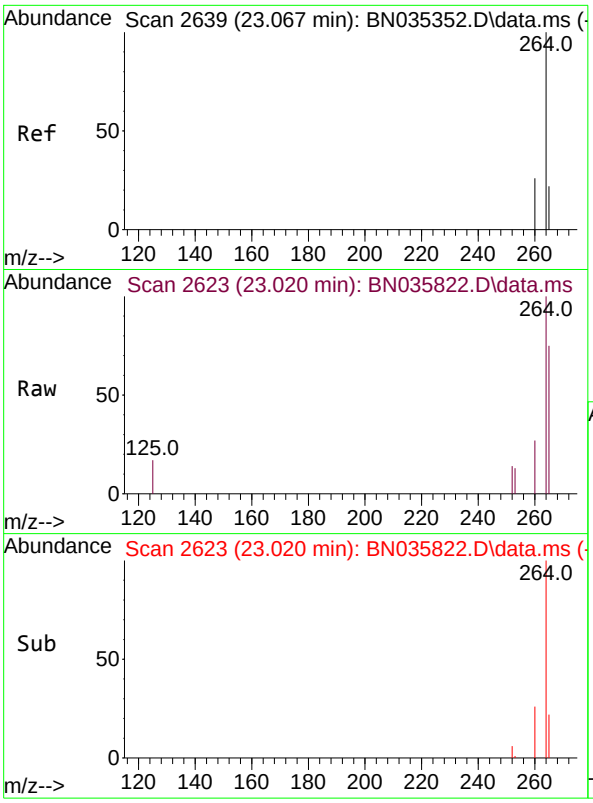


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.524 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:149 Resp: 6876

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.2	33.4
279	3.2	2.7	4.1

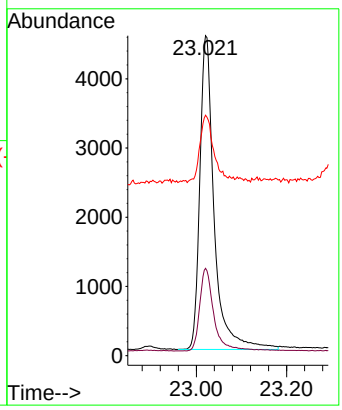




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.020 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:264 Resp: 999

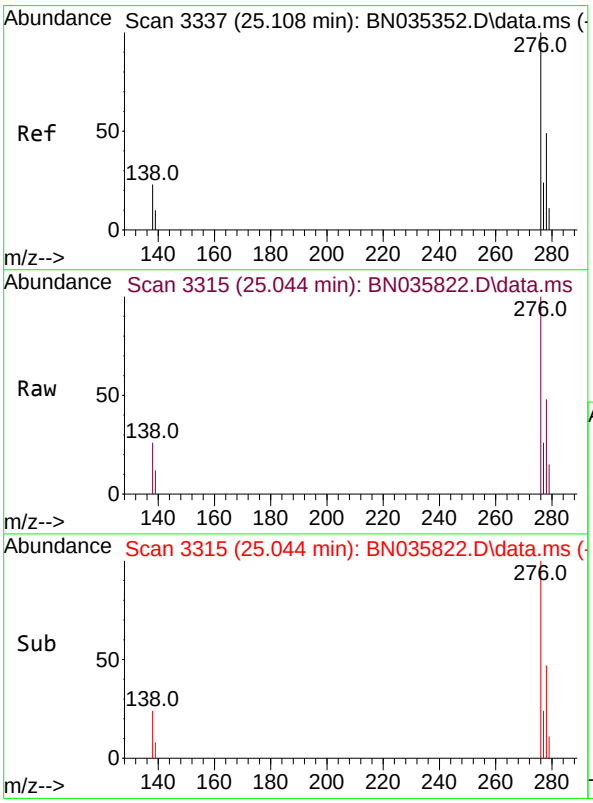
Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	75.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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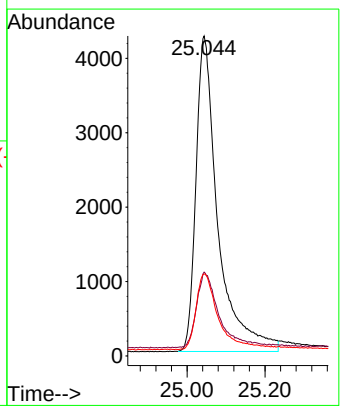
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

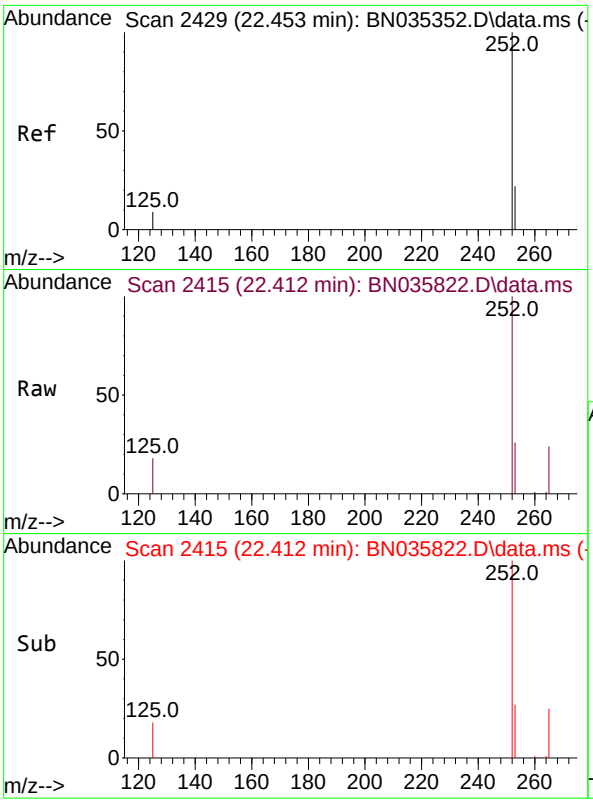


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:276 Resp: 16588

Ion	Ratio	Lower	Upper
276	100		
138	23.3	19.4	29.0
277	23.8	19.8	29.6

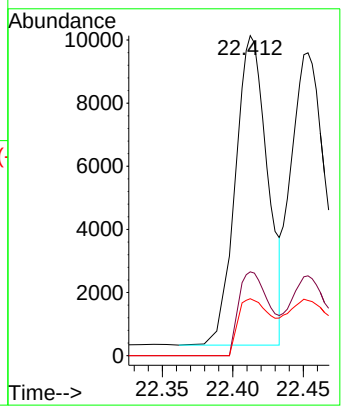




#37
Benzo(b)fluoranthene
Concen: 0.608 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 2222

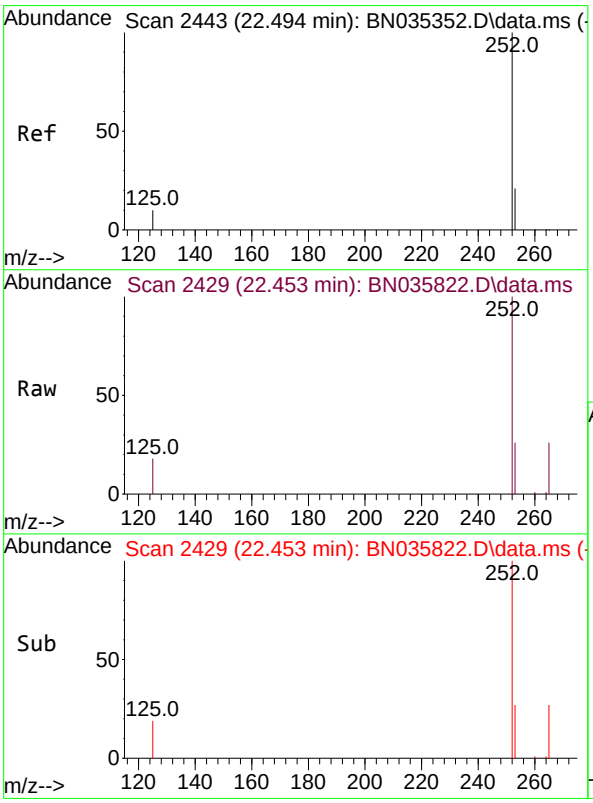
Ion	Ratio	Lower	Upper
252	100		
253	26.2	19.6	29.4
125	17.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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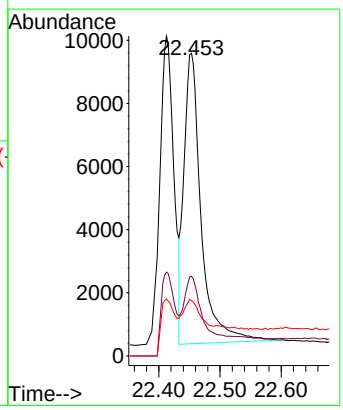
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

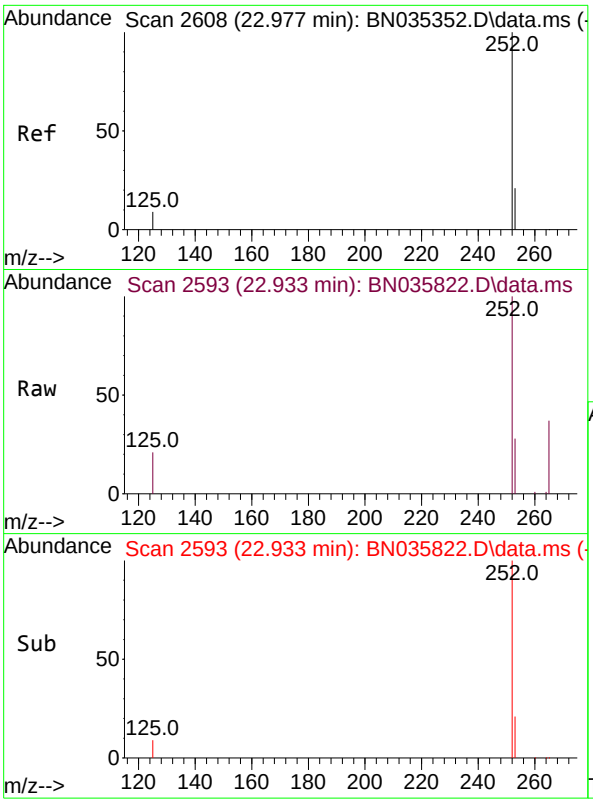


#38
Benzo(k)fluoranthene
Concen: 0.503 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 18080

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.5	29.3
125	18.2	10.2	15.4#

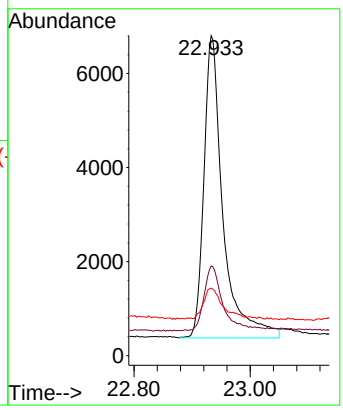




#39
Benzo(a)pyrene
Concen: 0.486 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 1463

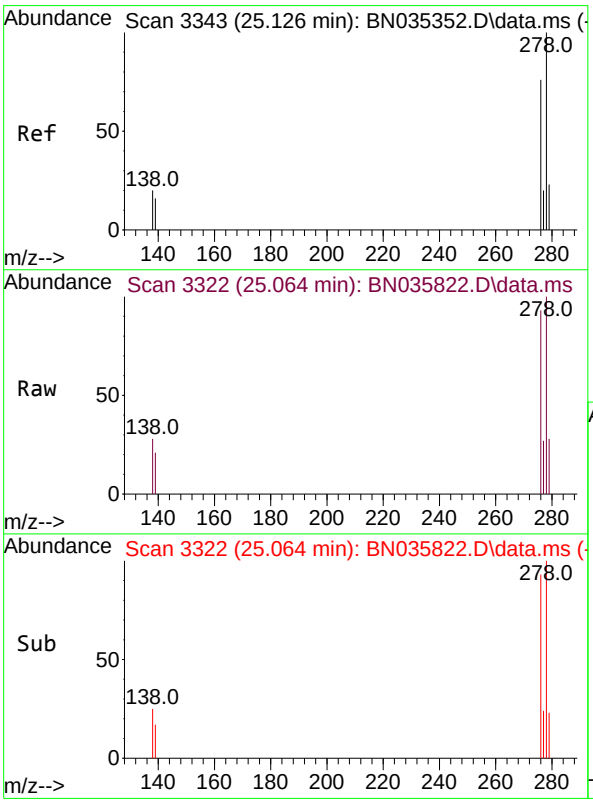
Ion	Ratio	Lower	Upper
252	100		
253	28.1	20.2	30.4
125	21.1	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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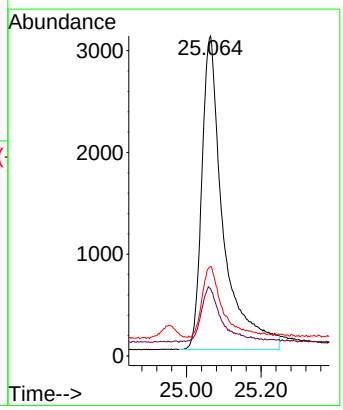
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

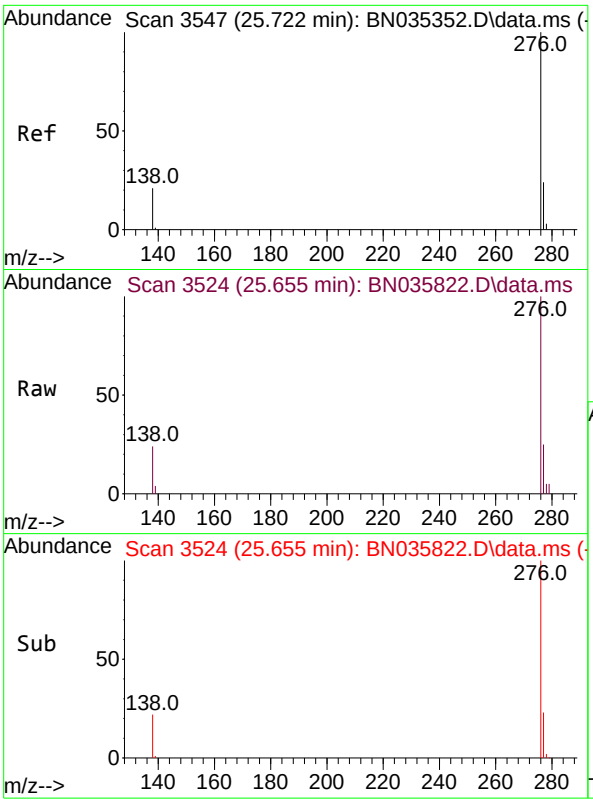


#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:278 Resp: 12290

Ion	Ratio	Lower	Upper
278	100		
139	21.1	14.2	21.4
279	28.0	20.5	30.7

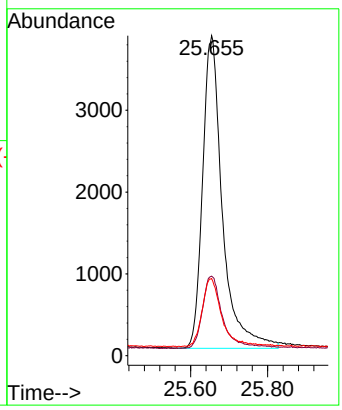




#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 25.655 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:276 Resp: 1360

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	24.1	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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

Manual Integration Report

Sequence:	BN112724	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN035350.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.1	BN035350.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICCC0.4	BN035352.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:11 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICV0.4	BN035357.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:22 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035366.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:37 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035368.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:03 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035375.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:17 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035776.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:43:17 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035776.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:17 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035809.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:45:00 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035811.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:18:56 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035811.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:56 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
PB165828BL	BN035812.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:12 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-02	BN035815.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:16 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-03	BN035816.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:18 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-04	BN035817.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:20 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5376-05	BN035818.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:18:21 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-05	BN035818.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:21 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-06	BN035819.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:22 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-07	BN035820.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:18:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-07	BN035820.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-08MS	BN035821.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:59 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-09MSD	BN035822.D	Nitrobenzene-d5	yogesh	12/25/2024 12:19:00 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-10	BN035823.D	Nitrobenzene-d5	yogesh	12/25/2024 12:19:02 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-11	BN035824.D	Indeno(1,2,3-cd)pyrene	yogesh	12/25/2024 12:19:03 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-11	BN035824.D	Nitrobenzene-d5	yogesh	12/25/2024 12:19:03 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-12	BN035825.D	Nitrobenzene-d5	yogesh	12/25/2024 12:19:05 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-13	BN035826.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:26 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-14	BN035827.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:28 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035828.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:20:29 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035828.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:29 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	1,4-Dioxane	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Fluoranthene-d10	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-16	BN035833.D	Nitrobenzene-d5	yogesh	12/26/2024 12:21:34 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-17	BN035834.D	Nitrobenzene-d5	yogesh	12/26/2024 12:21:41 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-18	BN035835.D	Nitrobenzene-d5	yogesh	12/26/2024 12:21:48 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-20	BN035837.D	Nitrobenzene-d5	yogesh	12/26/2024 12:21:59 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035843.D	Benzo(k)fluoranthene	yogesh	12/26/2024 12:22:42 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035843.D	Nitrobenzene-d5	yogesh	12/26/2024 12:22:42 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	BN122624	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035845.D	Benzo(k)fluoranthene	yogesh	12/27/2024 3:53:06 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
SSTDCCC0.4	BN035845.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:06 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-15	BN035847.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:09 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-19	BN035848.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:10 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-01	BN035849.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:12 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
PB165828BS	BN035852.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:31 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-03DL	BN035854.D	Anthracene	yogesh	12/27/2024 3:53:33 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-03DL	BN035854.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:33 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5376-03DL	BN035854.D	Phenanthrene	yogesh	12/27/2024 3:53:33 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
SSTDCCC0.4	BN035861.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:44 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM		
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM		
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035349.D	27 Nov 2024 14:55	RC/JU	Ok
2	SSTDICC0.1	BN035350.D	27 Nov 2024 15:34	RC/JU	Ok,M
3	SSTDICC0.2	BN035351.D	27 Nov 2024 16:10	RC/JU	Ok,M
4	SSTDICCC0.4	BN035352.D	27 Nov 2024 16:46	RC/JU	Ok,M
5	SSTDICC0.8	BN035353.D	27 Nov 2024 17:21	RC/JU	Ok
6	SSTDICC1.6	BN035354.D	27 Nov 2024 17:57	RC/JU	Ok
7	SSTDICC3.2	BN035355.D	27 Nov 2024 18:33	RC/JU	Ok
8	SSTDICC5.0	BN035356.D	27 Nov 2024 19:09	RC/JU	Ok
9	SSTDICV0.4	BN035357.D	27 Nov 2024 20:21	RC/JU	Ok,M
10	PB165224BL	BN035358.D	27 Nov 2024 20:57	RC/JU	Ok,M
11	PB165266BL	BN035359.D	27 Nov 2024 21:32	RC/JU	Ok,M
12	PB165224BS	BN035360.D	27 Nov 2024 22:08	RC/JU	Ok,M
13	PB165224BSD	BN035361.D	27 Nov 2024 22:44	RC/JU	Ok,M
14	P4969-02	BN035362.D	27 Nov 2024 23:20	RC/JU	Ok,M
15	P4969-04	BN035363.D	27 Nov 2024 23:56	RC/JU	Ok,M
16	P5003-02	BN035364.D	28 Nov 2024 00:32	RC/JU	Ok,M
17	P5003-03	BN035365.D	28 Nov 2024 01:08	RC/JU	Ok,M
18	SSTDCCC0.4	BN035366.D	28 Nov 2024 02:20	RC/JU	Ok,M
19	DFTPP	BN035367.D	28 Nov 2024 03:35	RC/JU	Ok
20	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51	RC/JU	Ok,M
21	PB165198BL	BN035369.D	28 Nov 2024 05:27	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM		
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM		
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB165198BS	BN035370.D	28 Nov 2024 06:03	RC/JU	Ok,M
23	PB165198BSD	BN035371.D	28 Nov 2024 06:39	RC/JU	Ok,M
24	PB165266BS	BN035372.D	28 Nov 2024 07:15	RC/JU	Ok,M
25	PB165266BSD	BN035373.D	28 Nov 2024 07:50	RC/JU	Ok,M
26	P4959-01	BN035374.D	28 Nov 2024 08:26	RC/JU	Ok,M
27	SSTDCCC0.4	BN035375.D	28 Nov 2024 09:02	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035775.D	23 Dec 2024 09:43	RC/JU	Ok
2	SSTDCCC0.4	BN035776.D	23 Dec 2024 10:22	RC/JU	Ok,M
3	PB165596BL	BN035777.D	23 Dec 2024 10:57	RC/JU	Not Ok
4	P5281-04	BN035778.D	23 Dec 2024 11:32	RC/JU	Dilution
5	P5317-15	BN035779.D	23 Dec 2024 12:08	RC/JU	Ok,M
6	P5317-16	BN035780.D	23 Dec 2024 12:43	RC/JU	Ok,M
7	P5317-17	BN035781.D	23 Dec 2024 13:19	RC/JU	Ok,M
8	P5317-18	BN035782.D	23 Dec 2024 13:54	RC/JU	Ok,M
9	P5317-19MS	BN035783.D	23 Dec 2024 14:30	RC/JU	Ok,M
10	P5317-20MSD	BN035784.D	23 Dec 2024 15:05	RC/JU	Ok,M
11	P5314-02	BN035785.D	23 Dec 2024 15:41	RC/JU	Ok,M
12	P5314-04	BN035786.D	23 Dec 2024 16:17	RC/JU	Ok,M
13	P5317-21	BN035787.D	23 Dec 2024 16:52	RC/JU	Dilution
14	P5317-22	BN035788.D	23 Dec 2024 17:28	RC/JU	Ok,M
15	P5317-24	BN035789.D	23 Dec 2024 18:04	RC/JU	Ok,M
16	P5317-25	BN035790.D	23 Dec 2024 18:39	RC/JU	Ok,M
17	P5281-02	BN035791.D	23 Dec 2024 19:15	RC/JU	Ok,M
18	SSTDCCC0.4	BN035792.D	23 Dec 2024 19:51	RC/JU	Ok,M
19	DFTPP	BN035793.D	23 Dec 2024 20:26	RC/JU	Ok
20	SSTDCCC0.4	BN035794.D	23 Dec 2024 22:16	RC/JU	Ok,M
21	PB165667BL	BN035795.D	23 Dec 2024 22:52	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5281-03	BN035796.D	23 Dec 2024 23:27	RC/JU	Ok,M
23	P5281-05	BN035797.D	24 Dec 2024 00:03	RC/JU	Ok,M
24	P5281-06	BN035798.D	24 Dec 2024 00:38	RC/JU	Dilution
25	P5281-07	BN035799.D	24 Dec 2024 01:14	RC/JU	Dilution
26	P5281-08	BN035800.D	24 Dec 2024 01:49	RC/JU	Ok,M
27	P5282-01	BN035801.D	24 Dec 2024 02:25	RC/JU	Dilution
28	P5282-02	BN035802.D	24 Dec 2024 03:00	RC/JU	Ok,M
29	P5282-03	BN035803.D	24 Dec 2024 03:36	RC/JU	Ok,M
30	P5282-04	BN035804.D	24 Dec 2024 04:12	RC/JU	Ok,M
31	P5284-01	BN035805.D	24 Dec 2024 04:47	RC/JU	Dilution
32	P5317-07	BN035806.D	24 Dec 2024 05:23	RC/JU	Ok,M
33	P5317-06	BN035807.D	24 Dec 2024 05:58	RC/JU	Ok,M
34	PB165667BS	BN035808.D	24 Dec 2024 06:34	RC/JU	Ok,M
35	SSTDCCC0.4	BN035809.D	24 Dec 2024 07:09	RC/JU	Ok,M
36	DFTPP	BN035810.D	24 Dec 2024 07:45	RC/JU	Ok
37	SSTDCCC0.4	BN035811.D	24 Dec 2024 08:59	RC/JU	Ok,M
38	PB165828BL	BN035812.D	24 Dec 2024 09:35	RC/JU	Ok,M
39	P5281-04DL	BN035813.D	24 Dec 2024 10:10	RC/JU	Ok,M
40	P5261-19DL	BN035814.D	24 Dec 2024 10:46	RC/JU	Not Ok
41	P5376-02	BN035815.D	24 Dec 2024 11:21	RC/JU	Ok,M
42	P5376-03	BN035816.D	24 Dec 2024 11:57	RC/JU	Dilution
43	P5376-04	BN035817.D	24 Dec 2024 12:33	RC/JU	Ok,M
44	P5376-05	BN035818.D	24 Dec 2024 13:08	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P5376-06	BN035819.D	24 Dec 2024 13:44	RC/JU	Ok,M
46	P5376-07	BN035820.D	24 Dec 2024 14:19	RC/JU	Ok,M
47	P5376-08MS	BN035821.D	24 Dec 2024 14:55	RC/JU	Ok,M
48	P5376-09MSD	BN035822.D	24 Dec 2024 15:31	RC/JU	Ok,M
49	P5376-10	BN035823.D	24 Dec 2024 16:06	RC/JU	Ok,M
50	P5376-11	BN035824.D	24 Dec 2024 16:42	RC/JU	Ok,M
51	P5376-12	BN035825.D	24 Dec 2024 17:18	RC/JU	Ok,M
52	P5376-13	BN035826.D	24 Dec 2024 17:53	RC/JU	Ok,M
53	P5376-14	BN035827.D	24 Dec 2024 18:29	RC/JU	Ok,M
54	SSTDCCC0.4	BN035828.D	24 Dec 2024 19:05	RC/JU	Ok,M
55	DFTPP	BN035829.D	24 Dec 2024 19:41	RC/JU	Ok
56	SSTDCCC0.4	BN035830.D	24 Dec 2024 20:55	RC/JU	Ok,M
57	PB165596BL	BN035831.D	24 Dec 2024 22:07	RC/JU	Not Ok
58	P5376-15	BN035832.D	24 Dec 2024 22:42	RC/JU	ReRun
59	P5376-16	BN035833.D	24 Dec 2024 23:18	RC/JU	Ok,M
60	P5376-17	BN035834.D	24 Dec 2024 23:53	RC/JU	Ok,M
61	P5376-18	BN035835.D	25 Dec 2024 00:29	RC/JU	Ok,M
62	P5376-19	BN035836.D	25 Dec 2024 01:05	RC/JU	ReRun
63	P5376-20	BN035837.D	25 Dec 2024 01:40	RC/JU	Ok,M
64	P5376-01	BN035838.D	25 Dec 2024 02:16	RC/JU	ReRun
65	PB165723BS	BN035839.D	25 Dec 2024 02:51	RC/JU	Not Ok
66	PB165724BSD	BN035840.D	25 Dec 2024 03:27	RC/JU	Not Ok
67	PB165828BS	BN035841.D	25 Dec 2024 04:03	RC/JU	Not Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM				
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM				
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724		

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

68	P5374-03	BN035842.D	25 Dec 2024 04:38	RC/JU	ReRun
69	SSTDCCC0.4	BN035843.D	25 Dec 2024 05:14	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM		
Supervise By	mohammad	Supervise On	12/27/2024 4:13:15 AM		
SubDirectory	BN122624	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035844.D	26 Dec 2024 09:19	RC/JU	Ok
2	SSTDCCC0.4	BN035845.D	26 Dec 2024 09:58	RC/JU	Ok,M
3	PB165724BL	BN035846.D	26 Dec 2024 10:35	RC/JU	Ok,NR
4	P5376-15	BN035847.D	26 Dec 2024 11:20	RC/JU	Ok,M
5	P5376-19	BN035848.D	26 Dec 2024 11:56	RC/JU	Ok,M
6	P5376-01	BN035849.D	26 Dec 2024 12:31	RC/JU	Ok,M
7	P5374-03	BN035850.D	26 Dec 2024 13:07	RC/JU	Ok,M
8	PB165723BS	BN035851.D	26 Dec 2024 13:43	RC/JU	Ok,M
9	PB165828BS	BN035852.D	26 Dec 2024 14:19	RC/JU	Ok,M
10	PB165724BSD	BN035853.D	26 Dec 2024 14:54	RC/JU	Ok,M
11	P5376-03DL	BN035854.D	26 Dec 2024 15:30	RC/JU	Ok,M
12	P5317-21DL	BN035855.D	26 Dec 2024 16:06	RC/JU	Ok,M
13	P5281-07DL	BN035856.D	26 Dec 2024 16:42	RC/JU	Ok,M
14	P5282-01DL	BN035857.D	26 Dec 2024 17:18	RC/JU	Ok,M
15	P5281-06DL	BN035858.D	26 Dec 2024 17:53	RC/JU	Ok,M
16	P5284-01DL	BN035859.D	26 Dec 2024 18:29	RC/JU	Ok,M
17	P5261-19DL	BN035860.D	26 Dec 2024 19:05	RC/JU	Ok,M
18	SSTDCCC0.4	BN035861.D	26 Dec 2024 19:41	RC/JU	Ok,M

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 # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM	
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM	
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035349.D	27 Nov 2024 14:55		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035350.D	27 Nov 2024 15:34		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN035351.D	27 Nov 2024 16:10		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN035352.D	27 Nov 2024 16:46	This Calibration is Good For DOD	RC/JU	Ok,M
5	SSTDICC0.8	SSTDICC0.8	BN035353.D	27 Nov 2024 17:21		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035354.D	27 Nov 2024 17:57		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN035355.D	27 Nov 2024 18:33	Compound #20 removed from 3.2ppm	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN035356.D	27 Nov 2024 19:09	Compound #20 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN112724	BN035357.D	27 Nov 2024 20:21		RC/JU	Ok,M
10	PB165224BL	PB165224BL	BN035358.D	27 Nov 2024 20:57		RC/JU	Ok,M
11	PB165266BL	PB165266BL	BN035359.D	27 Nov 2024 21:32		RC/JU	Ok,M
12	PB165224BS	PB165224BS	BN035360.D	27 Nov 2024 22:08		RC/JU	Ok,M
13	PB165224BSD	PB165224BSD	BN035361.D	27 Nov 2024 22:44		RC/JU	Ok,M
14	P4969-02	TOWER-1	BN035362.D	27 Nov 2024 23:20		RC/JU	Ok,M
15	P4969-04	TOWER-2	BN035363.D	27 Nov 2024 23:56		RC/JU	Ok,M
16	P5003-02	RW-10A-HYD-2024112	BN035364.D	28 Nov 2024 00:32		RC/JU	Ok,M
17	P5003-03	RW-10A-HYD-2024112	BN035365.D	28 Nov 2024 01:08		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM	
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM	
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035366.D	28 Nov 2024 02:20		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035367.D	28 Nov 2024 03:35		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51		RC/JU	Ok,M
21	PB165198BL	PB165198BL	BN035369.D	28 Nov 2024 05:27		RC/JU	Ok,M
22	PB165198BS	PB165198BS	BN035370.D	28 Nov 2024 06:03		RC/JU	Ok,M
23	PB165198BSD	PB165198BSD	BN035371.D	28 Nov 2024 06:39		RC/JU	Ok,M
24	PB165266BS	PB165266BS	BN035372.D	28 Nov 2024 07:15		RC/JU	Ok,M
25	PB165266BSD	PB165266BSD	BN035373.D	28 Nov 2024 07:50		RC/JU	Ok,M
26	P4959-01	RW5-SP100-20241121	BN035374.D	28 Nov 2024 08:26		RC/JU	Ok,M
27	SSTDCCC0.4	SSTDCCC0.4EC	BN035375.D	28 Nov 2024 09:02		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM	
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM	
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035775.D	23 Dec 2024 09:43		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035776.D	23 Dec 2024 10:22		RC/JU	Ok,M
3	PB165596BL	PB165596BL	BN035777.D	23 Dec 2024 10:57	Analyzed for contamination check	RC/JU	Not Ok
4	P5281-04	TT101D2-20241212	BN035778.D	23 Dec 2024 11:32	Need 2X Dilution	RC/JU	Dilution
5	P5317-15	RW9-MW01D2-202412	BN035779.D	23 Dec 2024 12:08		RC/JU	Ok,M
6	P5317-16	RW9-MW01D3-202412	BN035780.D	23 Dec 2024 12:43		RC/JU	Ok,M
7	P5317-17	DUP-06-20241217	BN035781.D	23 Dec 2024 13:19		RC/JU	Ok,M
8	P5317-18	RE132D5-20241217	BN035782.D	23 Dec 2024 13:54		RC/JU	Ok,M
9	P5317-19MS	RE132D5-20241217MS	BN035783.D	23 Dec 2024 14:30		RC/JU	Ok,M
10	P5317-20MSD	RE132D5-20241217MS	BN035784.D	23 Dec 2024 15:05		RC/JU	Ok,M
11	P5314-02	BP-VPB-190A-GW-678	BN035785.D	23 Dec 2024 15:41		RC/JU	Ok,M
12	P5314-04	VPB190A-HYD-202412	BN035786.D	23 Dec 2024 16:17		RC/JU	Ok,M
13	P5317-21	RE132D6-20241217	BN035787.D	23 Dec 2024 16:52	Need 5X Dilution	RC/JU	Dilution
14	P5317-22	RE132D7-20241217	BN035788.D	23 Dec 2024 17:28		RC/JU	Ok,M
15	P5317-24	RW8-MW01D2-202412	BN035789.D	23 Dec 2024 18:04		RC/JU	Ok,M
16	P5317-25	RW8-MW01D3-202412	BN035790.D	23 Dec 2024 18:39		RC/JU	Ok,M
17	P5281-02	BPOW1-7-20241212	BN035791.D	23 Dec 2024 19:15		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM	
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM	
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035792.D	23 Dec 2024 19:51		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035793.D	23 Dec 2024 20:26		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035794.D	23 Dec 2024 22:16		RC/JU	Ok,M
21	PB165667BL	PB165667BL	BN035795.D	23 Dec 2024 22:52		RC/JU	Ok,M
22	P5281-03	BPOW1-8-20241212	BN035796.D	23 Dec 2024 23:27		RC/JU	Ok,M
23	P5281-05	RE117D1-20241213	BN035797.D	24 Dec 2024 00:03		RC/JU	Ok,M
24	P5281-06	RE115D1-20241213	BN035798.D	24 Dec 2024 00:38	Need 2X Dilution	RC/JU	Dilution
25	P5281-07	TT189D2-20241213	BN035799.D	24 Dec 2024 01:14	Need 2X Dilution	RC/JU	Dilution
26	P5281-08	FB02-20241213	BN035800.D	24 Dec 2024 01:49		RC/JU	Ok,M
27	P5282-01	RW7-SP100-20241212	BN035801.D	24 Dec 2024 02:25	Need 2X Dilution	RC/JU	Dilution
28	P5282-02	RW7-SP201-20241212	BN035802.D	24 Dec 2024 03:00		RC/JU	Ok,M
29	P5282-03	RW7-SP302-20241212	BN035803.D	24 Dec 2024 03:36		RC/JU	Ok,M
30	P5282-04	RW7-SP303-20241212	BN035804.D	24 Dec 2024 04:12		RC/JU	Ok,M
31	P5284-01	RW5-SP100-20241212	BN035805.D	24 Dec 2024 04:47	Need 5X Dilution	RC/JU	Dilution
32	P5317-07	RW8-MW01S-2024121	BN035806.D	24 Dec 2024 05:23		RC/JU	Ok,M
33	P5317-06	DUP-04-20241216	BN035807.D	24 Dec 2024 05:58		RC/JU	Ok,M
34	PB165667BS	PB165667BS	BN035808.D	24 Dec 2024 06:34		RC/JU	Ok,M
35	SSTDCCC0.4	SSTDCCC0.4EC	BN035809.D	24 Dec 2024 07:09		RC/JU	Ok,M
36	DFTPP	DFTPP	BN035810.D	24 Dec 2024 07:45		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM	
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM	
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	SSTDCCC0.4	SSTDCCC0.4	BN035811.D	24 Dec 2024 08:59		RC/JU	Ok,M
38	PB165828BL	PB165828BL	BN035812.D	24 Dec 2024 09:35		RC/JU	Ok,M
39	P5281-04DL	TT101D2-20241212DL	BN035813.D	24 Dec 2024 10:10		RC/JU	Ok,M
40	P5261-19DL	RE120D3-20241210DL	BN035814.D	24 Dec 2024 10:46	Not Match Dilution	RC/JU	Not Ok
41	P5376-02	TT150S1-20241218	BN035815.D	24 Dec 2024 11:21		RC/JU	Ok,M
42	P5376-03	RE115D2-20241218	BN035816.D	24 Dec 2024 11:57	Need 5X Dilution	RC/JU	Dilution
43	P5376-04	TT149S1-20241218	BN035817.D	24 Dec 2024 12:33		RC/JU	Ok,M
44	P5376-05	DUP-07-20241218	BN035818.D	24 Dec 2024 13:08		RC/JU	Ok,M
45	P5376-06	TT174I1-20241218	BN035819.D	24 Dec 2024 13:44		RC/JU	Ok,M
46	P5376-07	RW10-MW01S-202412	BN035820.D	24 Dec 2024 14:19		RC/JU	Ok,M
47	P5376-08MS	RW10-MW01S-202412	BN035821.D	24 Dec 2024 14:55		RC/JU	Ok,M
48	P5376-09MSD	RW10-MW01S-202412	BN035822.D	24 Dec 2024 15:31		RC/JU	Ok,M
49	P5376-10	RW10-MW01D-202412	BN035823.D	24 Dec 2024 16:06		RC/JU	Ok,M
50	P5376-11	RW10A-MW01S-20241	BN035824.D	24 Dec 2024 16:42		RC/JU	Ok,M
51	P5376-12	RW10A-MW01I-202412	BN035825.D	24 Dec 2024 17:18		RC/JU	Ok,M
52	P5376-13	RE117D2-20241218	BN035826.D	24 Dec 2024 17:53		RC/JU	Ok,M
53	P5376-14	TT161S1-20241219	BN035827.D	24 Dec 2024 18:29		RC/JU	Ok,M
54	SSTDCCC0.4	SSTDCCC0.4EC	BN035828.D	24 Dec 2024 19:05		RC/JU	Ok,M
55	DFTPP	DFTPP	BN035829.D	24 Dec 2024 19:41		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM	
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM	
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

56	SSTDCCC0.4	SSTDCCC0.4	BN035830.D	24 Dec 2024 20:55		RC/JU	Ok,M
57	PB165596BL	PB165596BL	BN035831.D	24 Dec 2024 22:07		RC/JU	Not Ok
58	P5376-15	TT162S1-20241219	BN035832.D	24 Dec 2024 22:42	CCC Fail high for Com#2	RC/JU	ReRun
59	P5376-16	RW11-MW01S-202412	BN035833.D	24 Dec 2024 23:18		RC/JU	Ok,M
60	P5376-17	RW11-MW01I-2024121	BN035834.D	24 Dec 2024 23:53		RC/JU	Ok,M
61	P5376-18	TT119S1-20241219	BN035835.D	25 Dec 2024 00:29		RC/JU	Ok,M
62	P5376-19	TT188S1-20241219	BN035836.D	25 Dec 2024 01:05	CCC Fail high for Com#2	RC/JU	ReRun
63	P5376-20	FB03-20241219	BN035837.D	25 Dec 2024 01:40		RC/JU	Ok,M
64	P5376-01	TT205S1-20241218	BN035838.D	25 Dec 2024 02:16	CCC Fail high for Com#2	RC/JU	ReRun
65	PB165723BS	PB165723BS	BN035839.D	25 Dec 2024 02:51	CCC Fail high for Com#2	RC/JU	Not Ok
66	PB165724BSD	PB165724BSD	BN035840.D	25 Dec 2024 03:27	CCC Fail high for Com#2	RC/JU	Not Ok
67	PB165828BS	PB165828BS	BN035841.D	25 Dec 2024 04:03	CCC Fail high for Com#2	RC/JU	Not Ok
68	P5374-03	BP-VPB-190A-GW-718	BN035842.D	25 Dec 2024 04:38	CCC Fail high for Com#2	RC/JU	ReRun
69	SSTDCCC0.4	SSTDCCC0.4EC	BN035843.D	25 Dec 2024 05:14		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM	
Supervise By	mohammad	Supervise On	12/27/2024 4:13:15 AM	
SubDirectory	BN122624	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035844.D	26 Dec 2024 09:19		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035845.D	26 Dec 2024 09:58		RC/JU	Ok,M
3	PB165724BL	PB165724BL	BN035846.D	26 Dec 2024 10:35		RC/JU	Ok,NR
4	P5376-15	TT162S1-20241219	BN035847.D	26 Dec 2024 11:20		RC/JU	Ok,M
5	P5376-19	TT188S1-20241219	BN035848.D	26 Dec 2024 11:56		RC/JU	Ok,M
6	P5376-01	TT205S1-20241218	BN035849.D	26 Dec 2024 12:31		RC/JU	Ok,M
7	P5374-03	BP-VPB-190A-GW-718	BN035850.D	26 Dec 2024 13:07		RC/JU	Ok,M
8	PB165723BS	PB165723BS	BN035851.D	26 Dec 2024 13:43		RC/JU	Ok,M
9	PB165828BS	PB165828BS	BN035852.D	26 Dec 2024 14:19		RC/JU	Ok,M
10	PB165724BSD	PB165724BSD	BN035853.D	26 Dec 2024 14:54		RC/JU	Ok,M
11	P5376-03DL	RE115D2-20241218DL	BN035854.D	26 Dec 2024 15:30		RC/JU	Ok,M
12	P5317-21DL	RE132D6-20241217DL	BN035855.D	26 Dec 2024 16:06		RC/JU	Ok,M
13	P5281-07DL	TT189D2-20241213DL	BN035856.D	26 Dec 2024 16:42		RC/JU	Ok,M
14	P5282-01DL	RW7-SP100-20241212	BN035857.D	26 Dec 2024 17:18		RC/JU	Ok,M
15	P5281-06DL	RE115D1-20241213DL	BN035858.D	26 Dec 2024 17:53		RC/JU	Ok,M
16	P5284-01DL	RW5-SP100-20241212	BN035859.D	26 Dec 2024 18:29		RC/JU	Ok,M
17	P5261-19DL	RE120D3-20241210DL	BN035860.D	26 Dec 2024 19:05		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN035861.D	26 Dec 2024 19:41		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM	
Supervise By	mohammad	Supervise On	12/27/2024 4:13:15 AM	
SubDirectory	BN122624	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165828

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 12/23/2024

Extraction Start Time : 13:29

Extraction End Date : 12/23/2024

Extraction End Time : 18:25

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6616
Surrogate	1.0ML	0.4 PPM	SP6666
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3845
Baked Na2SO4	N/A	EP2571
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/23/24	RP (Ept 2 cab)	RL/SVOC
18:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165828

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 12/23/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165828BL	SBLK828	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-1
PB165828BS	SLCS828	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			2
P5374-03	BP-VPB-190A-GW-718-720	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		3
P5376-01	TT205S1-20241218	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		4
P5376-02	TT150S1-20241218	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		5
P5376-03	RE115D2-20241218	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		6
P5376-04	TT149S1-20241218	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		7
P5376-05	DUP-07-20241218	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		8
P5376-06	TT174I1-20241218	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		9
P5376-07	RW10-MW01S-20241218	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		10
P5376-08	P5376-07MS	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		11
P5376-09	P5376-07MSD	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		12
P5376-10	RW10-MW01D-20241218	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		13
P5376-11	RW10A-MW01S-20241218	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		14
P5376-12	RW10A-MW01I-20241218	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		15
P5376-13	RE117D2-20241218	SVOC-SIMGrou p1	960	6	RUPESH	rajesh	1	C		16
P5376-14	TT161S1-20241219	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		17
P5376-15	TT162S1-20241219	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		18
P5376-16	RW11-MW01S-20241219	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		SEP-1
P5376-17	RW11-MW01I-20241219	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		2
P5376-18	TT119S1-20241219	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		3
P5376-19	TT188S1-20241219	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		4
P5376-20	FB03-20241219	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		5

* **Extracts relinquished on the same date as received.**

12/23/24

P5376-SVOC-SIMGroup1

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p5376 **WorkList ID :** 186576 **Department :** Extraction **Date :** 12-23-2024 13:27:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5374-03	BP-VPB-190A-GW-718-720	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N31	12/18/2024	8270-Modified
P5376-01	TT205S1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-02	TT150S1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-03	RE115D2-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-04	TT149S1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-05	DUP-07-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-06	TT174I1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-07	RW10-MW01S-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-08	P5376-07MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-09	P5376-07MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-10	RW10-MW01D-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-11	RW10A-MW01S-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-12	RW10A-MW01I-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-13	RE117D2-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-14	TT161S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-15	TT162S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-16	RW11-MW01S-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-17	RW11-MW01I-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-18	TT119S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-19	TT188S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-20	FB03-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified

Date/Time 12/23/24 13:26

Raw Sample Received by: RJ (Set 2nd) JD CSM

Raw Sample Relinquished by: JD CSM

Date/Time 12/23/24 16:00

Raw Sample Received by: JD CSM

Raw Sample Relinquished by: RJ (Set 2nd)

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Prep Standard - Chemical Standard Summary

Order ID : P5376

Test : SVOC-SIMGroup1

Prepbatch ID : PB165828,

Sequence ID/Qc Batch ID: BN122324,bn122624,

Standard ID :
EP2559,EP2565,EP2571,SP6573,SP6616,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3768,E3788,E3791,E3817,E3818,E3828,E3845,M5173,S10103,S10247,S 11011,S11074,S11097,S11494,S11792,S11831,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2571	12/11/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	Yogesh Patel 12/16/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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

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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	SP6616	09/06/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 09/11/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11792 + 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
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel 10/14/2024

FROM 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6656	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = 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	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6658	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = 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	SP6659	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6660	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = 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	SP6661	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6662	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = 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	SP6663	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = 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
3491	8270-SIM-Surrogate 0.4 PPM	SP6666	10/29/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	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-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	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

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)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

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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)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	06/06/2025	12/06/2024 / Rajesh	11/11/2024 / Rajesh	E3845

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	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	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 #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-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

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	02/21/2025	08/21/2024 / Jagrut	11/21/2023 / Rahul	S11792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-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 #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

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	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	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	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Received on 02/07/23 by CG

~~S11097~~ ~~S11098~~ 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.

RESTEK®
110 Benner Circle
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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 03/08/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachlorophenol		1,003.6	µg/mL	+/- 5.8897	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 211229RSR)			+/- 45.7132	µg/mL	Unstressed
	Purity 99%				+/- 66.0037	µg/mL	Stressed
2	DFTPP (Decafluorotriphenylphosphine)		1,006.6	µg/mL	+/- 5.9074	µg/mL	Gravimetric
	CAS # 5074-71-5	(Lot Q117-147)			+/- 45.8508	µg/mL	Unstressed
	Purity 95%				+/- 66.2023	µg/mL	Stressed
3	Benzidine		1,008.4	µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 92-87-5	(Lot 211228JLM)			+/- 45.9318	µg/mL	Unstressed
	Purity 99%				+/- 66.3193	µg/mL	Stressed
4	4,4'-DDT		1,007.6	µg/mL	+/- 5.9132	µg/mL	Gravimetric
	CAS # 50-29-3	(Lot 210916JLM)			+/- 45.8954	µg/mL	Unstressed
	Purity 99%				+/- 66.2667	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

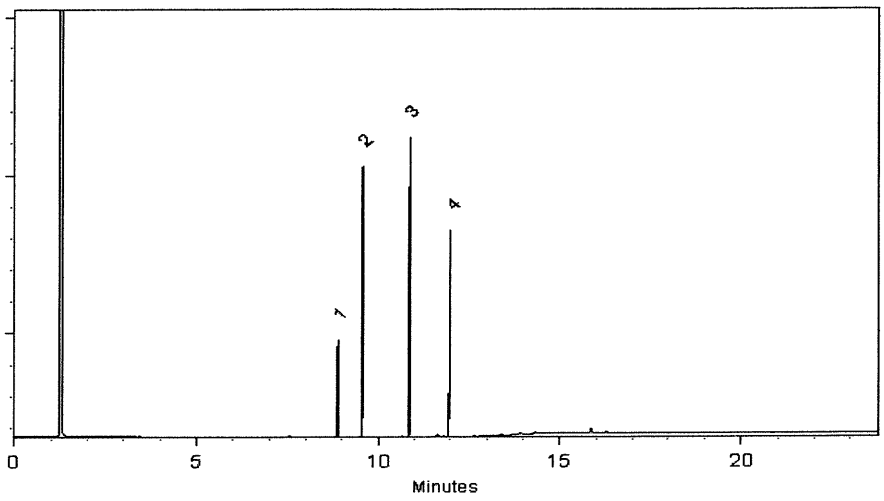
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

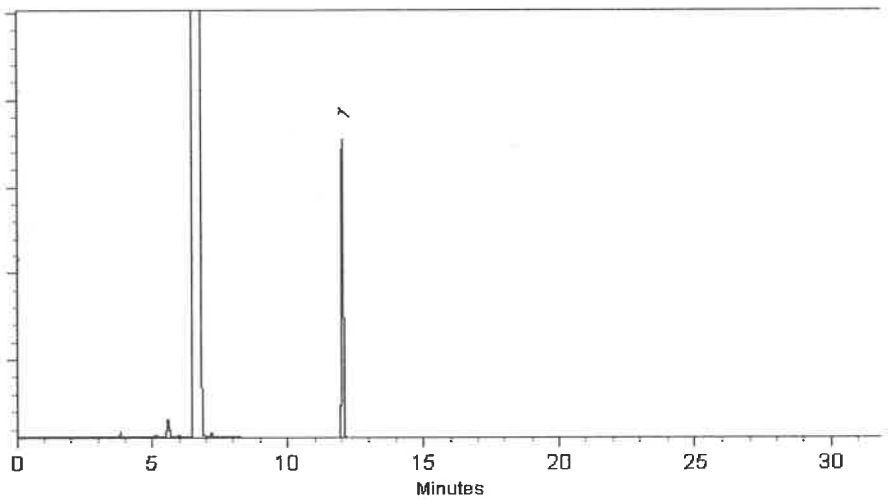
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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.

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

PO: 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

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

PO: PO2-76 PRODUCT CODE: SHIP DATE: 9/3/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
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	5
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	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/9/24

E 3818

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
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	5
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	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3845

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

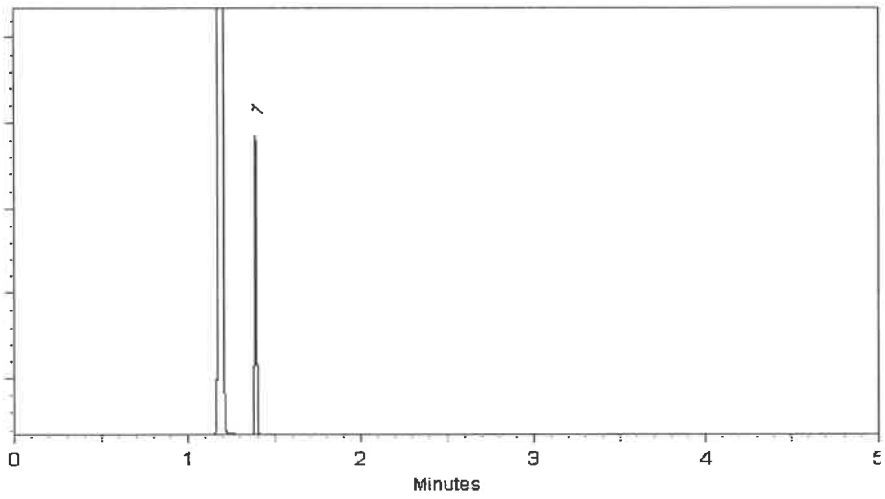
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

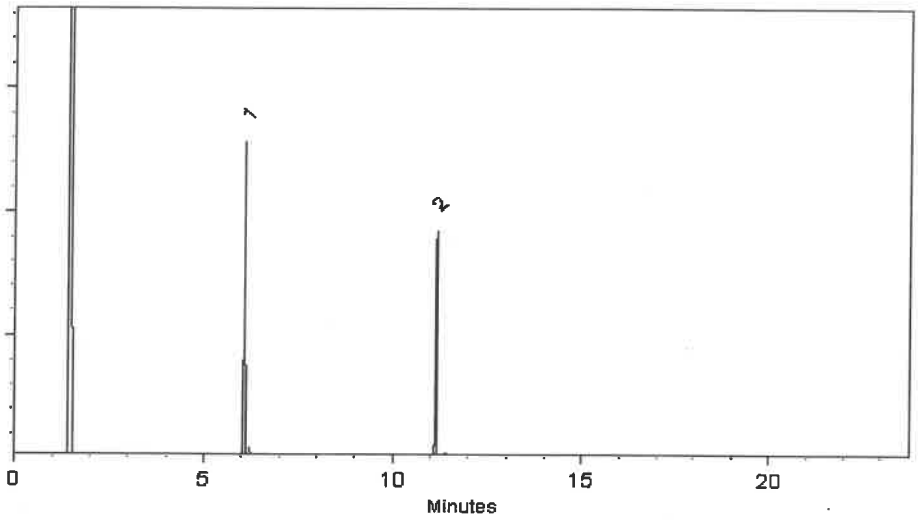
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I **Date Mixed:** 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 28-Sep-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

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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-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.

CPI INTERNATIONAL

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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: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** 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

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

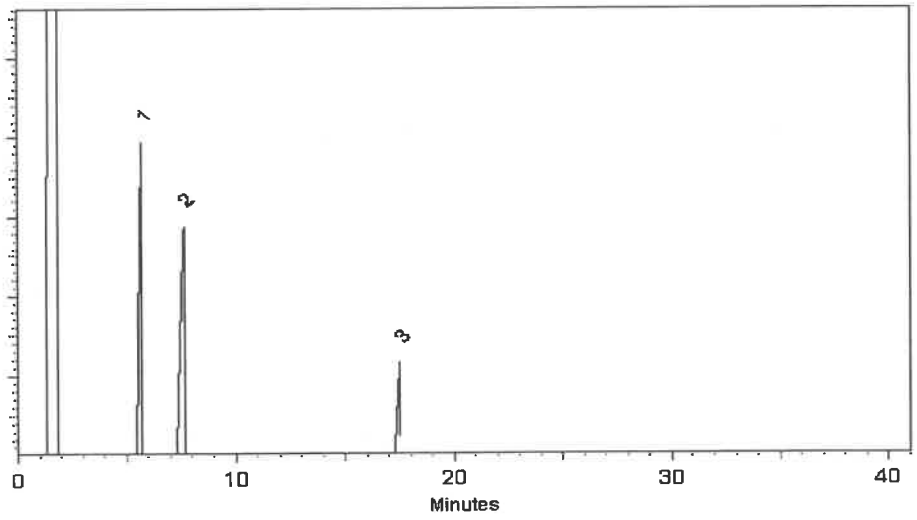
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

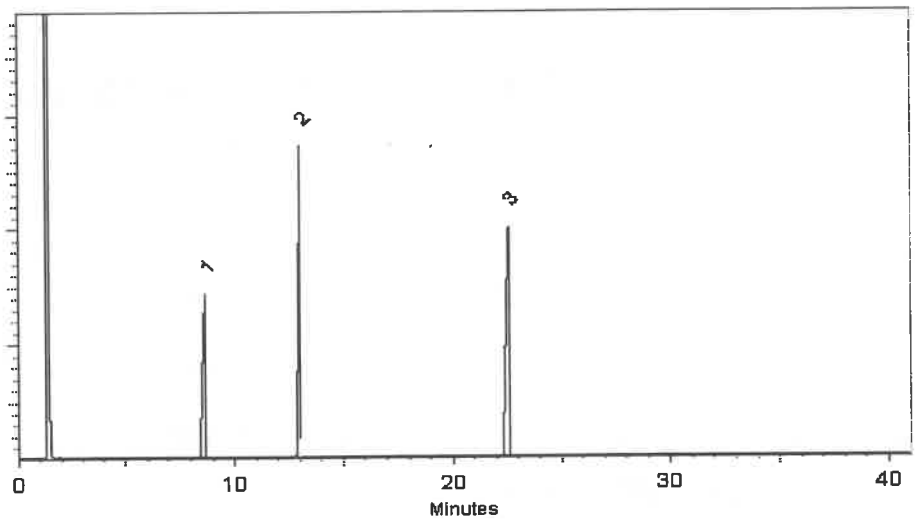
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

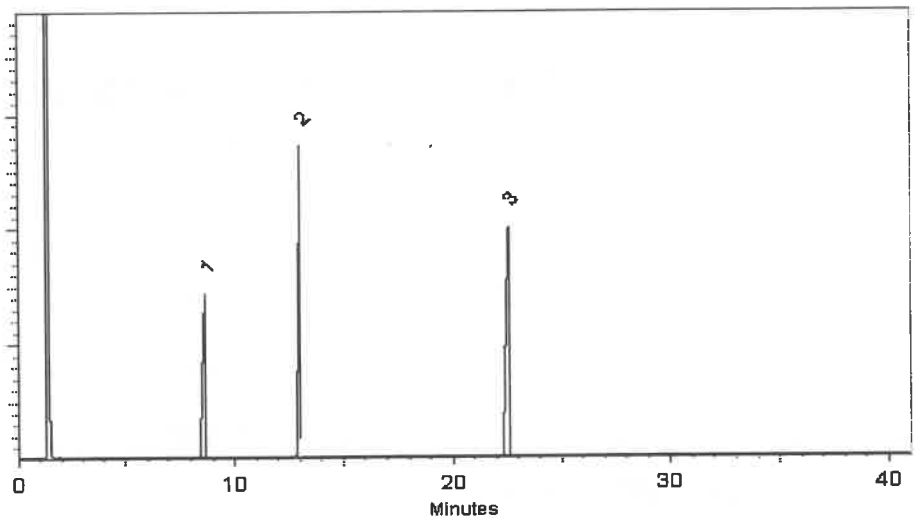
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

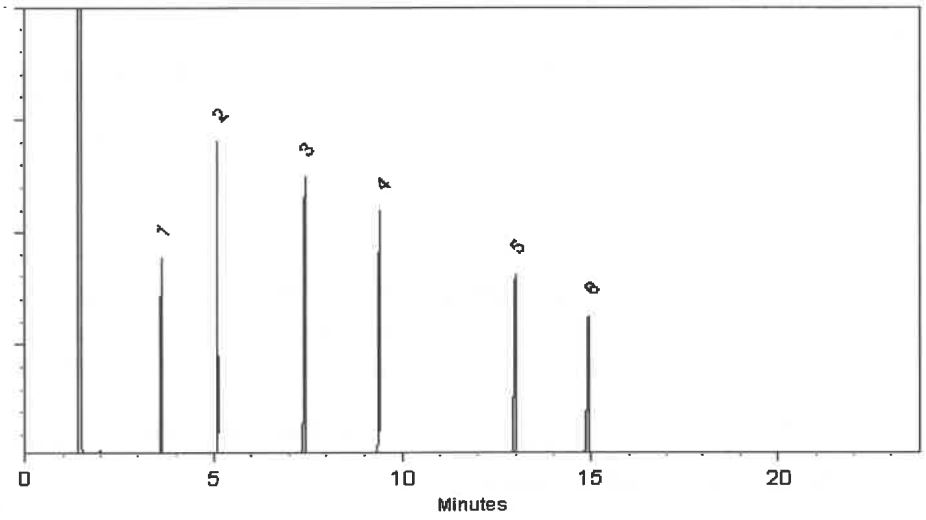
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

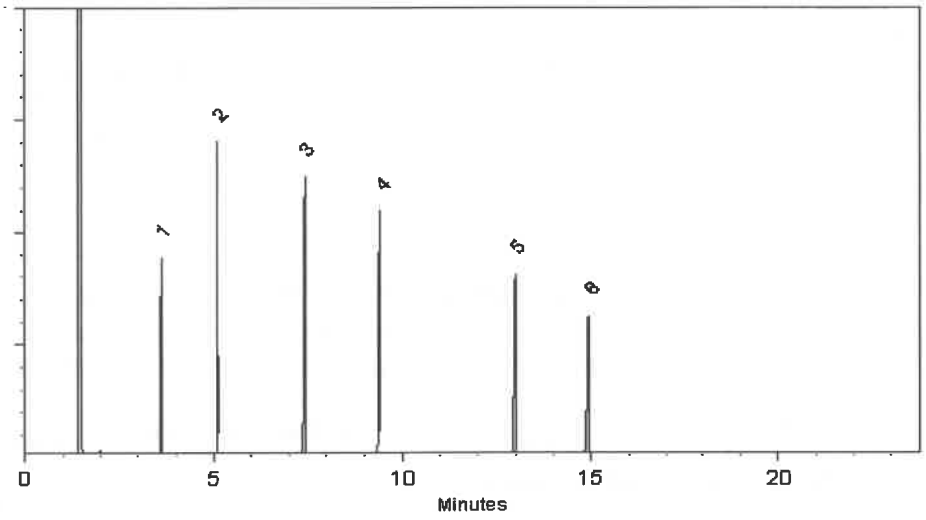
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC/ 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

SHIPPING DOCUMENTS

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CHEMTECH PROJECT NO. P5376
QUOTE NO.
COC Number 2041990

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: RESOLUTION NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSSINING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ US EPA CLP
- ☐ Other
- ☒ EDD FORMAT: NYSDEC EDD CAT B

ANALYSIS

VOCs 8260
1,4 DIOXANE SIM 8270

PRESERVATIVES

A/E
E

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

	CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	A/E 1	E 2	3	4	5	6	7	8	9	COMMENTS
1.		TT205SI-20241218	GW		X	12/18/24	0900	3	2	1								
2.		TT150SI-20241218	GW		X		1000	3	2	1								
3.		RE115D2-20241218	GW		X		1010	3	2	1								
4.		TT149SI-20241218	GW		X		0955	3	2	1								
5.		DUP-07-20241218	GW		X		—	3	2	1								
6.		TT174II-20241218	GW		X		1215	3	2	1								
7.		RW10-MW01S-20241218	GW		X		0920	9	6	3								MS/MSD
8.		RW10-MW01D-20241218	GW		X		0925	3	2	1								
9.		RW10A-MW01S-20241218	GW		X		1105	3	2	1								
10.		RW10A-MW01I-20241218	GW		X		1045	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER: 1.	12/20/24	RECEIVED BY: 1. 12-20-2024 1450
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1810 12-20-2024	RECEIVED BY:

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.0 °C
Comments:

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. QUOTE NO. P5376
COC Number 2041991

CLIENT INFORMATION
REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION
PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION:
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION
BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION
FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other
✓ EDD FORMAT NYSDEC EDD CAT B

ANALYSIS
1 VOCs 8260
2 1,4-DIOXANE SIM 8270
3 4 5 6 7 8 9

PRESERVATIVES
A/E E

COMMENTS
← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

	CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9
1.		RE117D2-20241218	GW		X	12/18/24	1220	3	2	1							
2.		TT161SI-20241219	GW		X	12/19/24	0850	3	2	1							
3.		TT162SI-20241219	GW		X		1015	3	2	1							
4.		RW11-MW01S-20241219	GW		X		0850	3	2	1							
5.		RW11-MW01I-20241219	GW		X		0847	3	2	1							
6.		TT119SI-20241219	GW		X		0835	3	2	1							
7.		TT188SI-20241219	GW		X		0950	3	2	1							
8.		FB03-20241219	DW		X		1100	3	2	1							
9.		TB	DW		X	10/5/24	—	2	2								
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	RECEIVED BY
1. RELINQUISHED BY SAMPLER:	12-2024	1. 12.20.20 1450
2. RELINQUISHED BY SAMPLER:	DATE/TIME:	2. RECEIVED BY:
3. RELINQUISHED BY SAMPLER:	DATE/TIME: 1810 12-20-2024	RECEIVED BY:

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ✓ COOLER TEMP 5.8 °C
Comments:

Page 1 of 2

CLIENT: ❑ Hand Delivered ❑ Other
CHEMTECH: ❑ Picked Up ❑ Field Sampling

Shipment Complete ❑ YES ❑ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

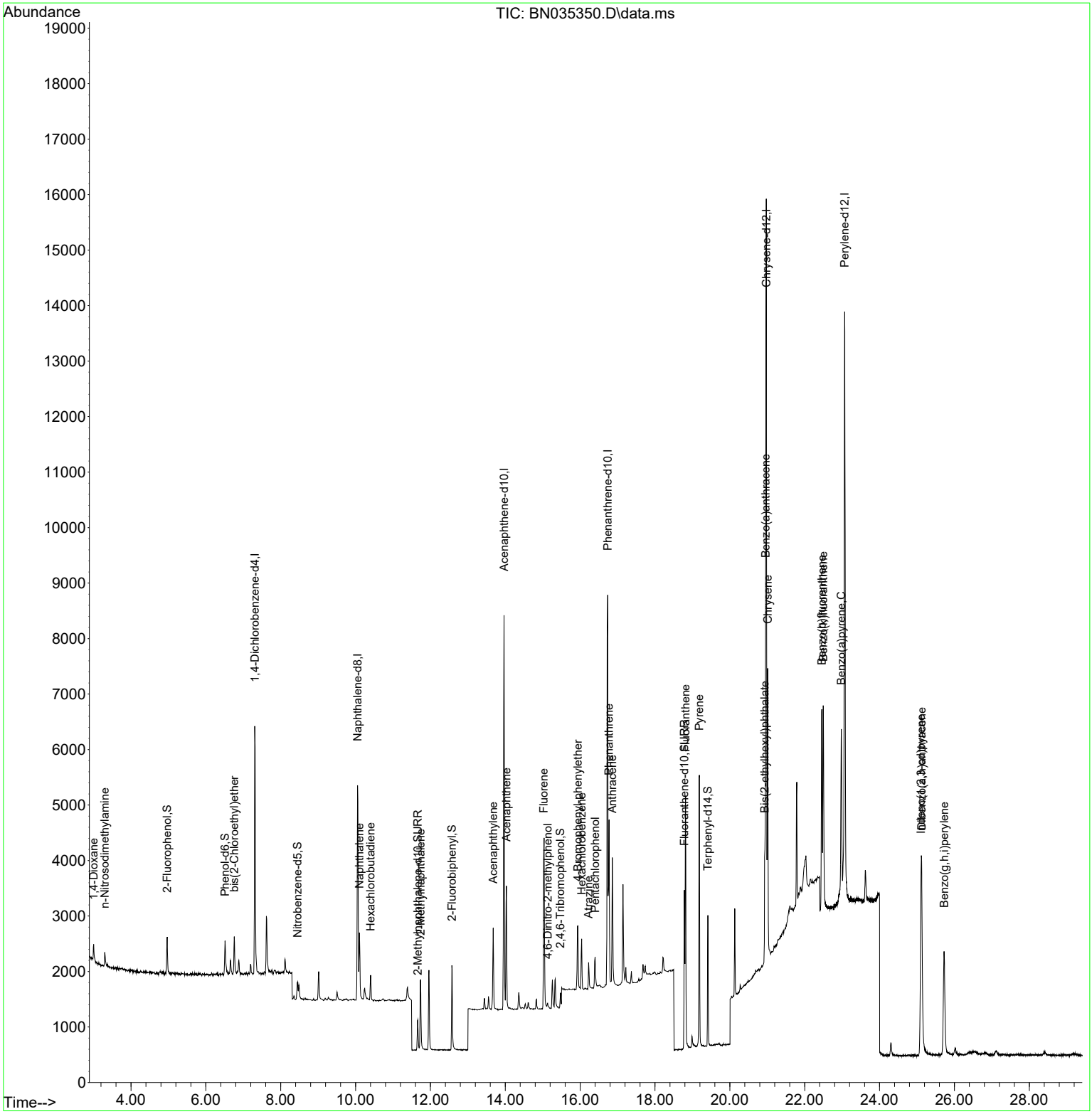
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng		0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng		0.00
35) Perylene-d12	23.067	264	13004	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	573	0.101	ng		0.00
5) Phenol-d6	6.513	99	686	0.096	ng		0.00
8) Nitrobenzene-d5	8.450	82	492	0.098	ng		0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng		0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng		0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	#	87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	#	90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng		98
9) Naphthalene	10.105	128	1527	0.102	ng	#	91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	#	97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng		96
16) Acenaphthylene	13.679	152	1675	0.096	ng		100
17) Acenaphthene	14.031	154	1143	0.100	ng		99
18) Fluorene	15.026	166	1620	0.096	ng		98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	#	29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	#	94
22) Hexachlorobenzene	16.041	284	720	0.100	ng		97
23) Atrazine	16.227	200	421	0.068	ng	#	86
24) Pentachlorophenol	16.401	266	381	0.114	ng		90
25) Phenanthrene	16.773	178	2963	0.104	ng		99
26) Anthracene	16.860	178	2617	0.100	ng		98
28) Fluoranthene	18.817	202	4173	0.106	ng		99
30) Pyrene	19.184	202	4461	0.119	ng		100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng		99
33) Chrysene	21.010	228	4123	0.106	ng		97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng		99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng		97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	#	82
38) Benzo(k)fluoranthene	22.494	252	4378	0.100	ng	#	80
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	#	69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	#	86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	#	93

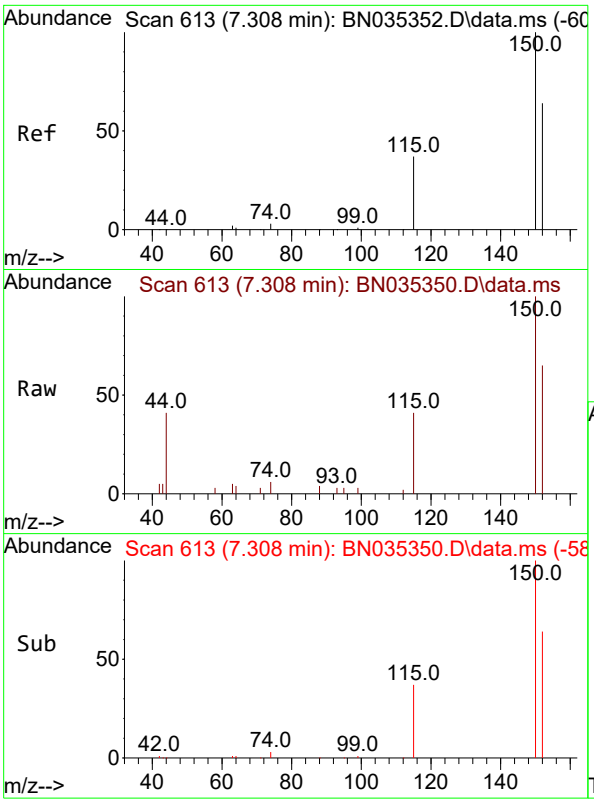
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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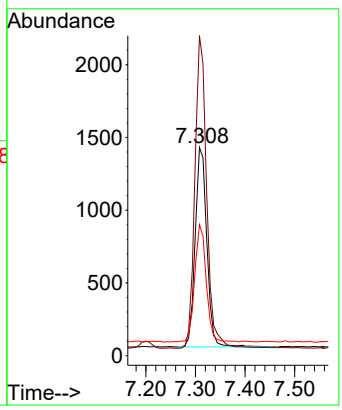


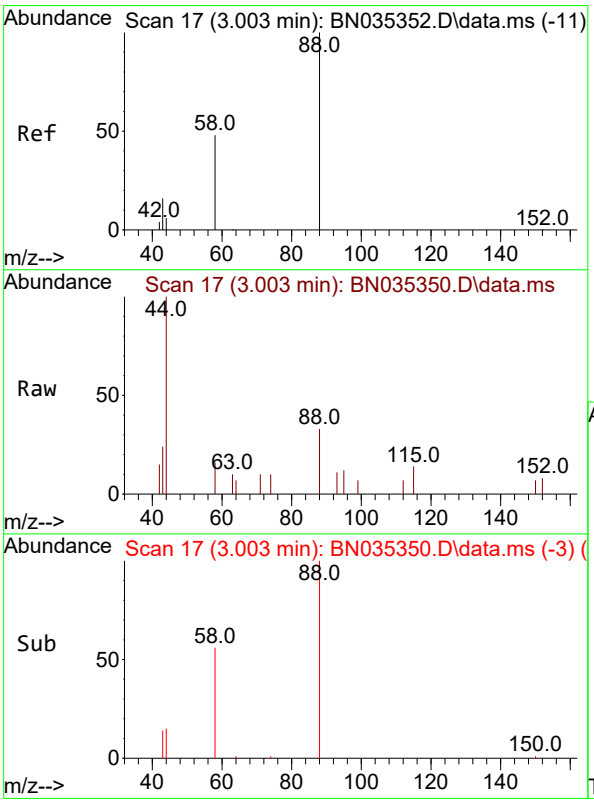
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2237

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.8	49.6	74.4

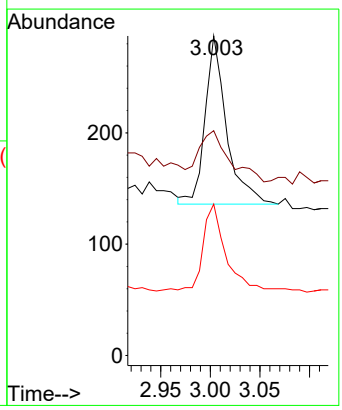


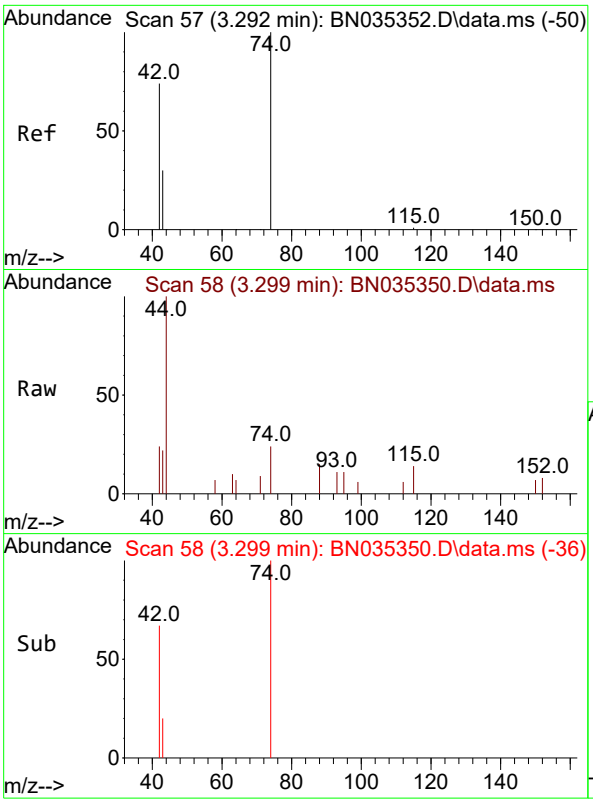


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

Ion	Ratio	Lower	Upper
88	100		
43	41.4	17.2	25.8#
58	54.6	44.5	66.7



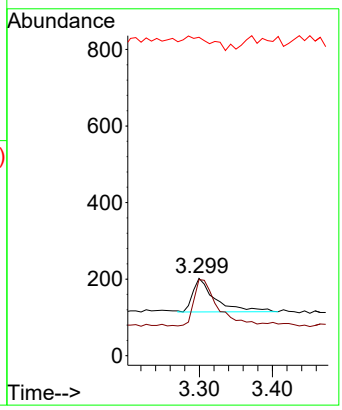


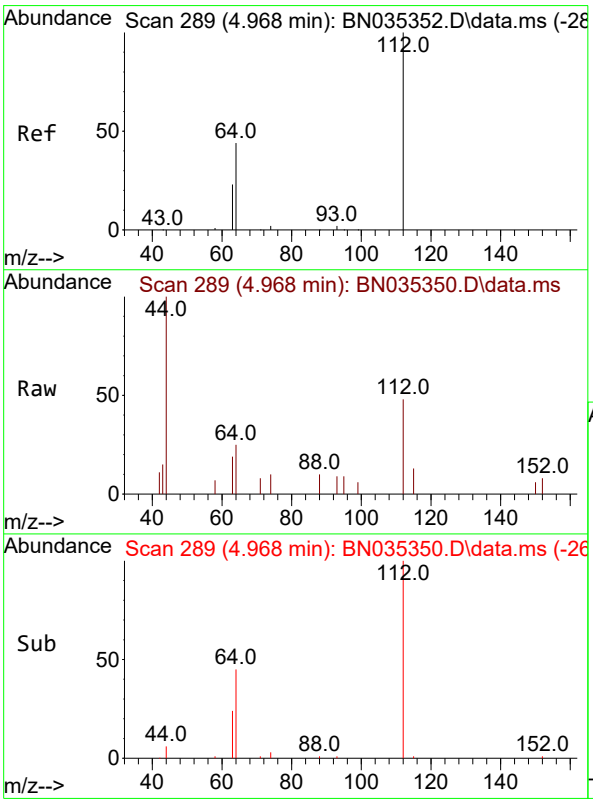
#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 187

Ion	Ratio	Lower	Upper
42	100		
74	146.5	124.9	187.3
44	51.9	2.2	3.4#

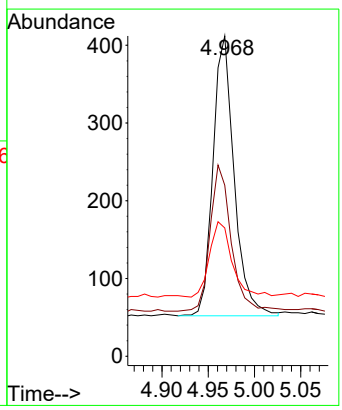


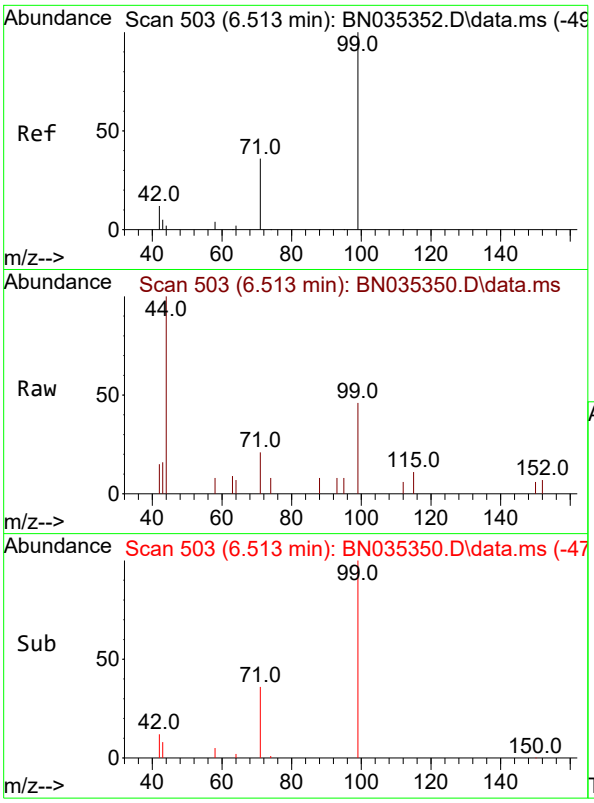


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.8	21.0	31.6



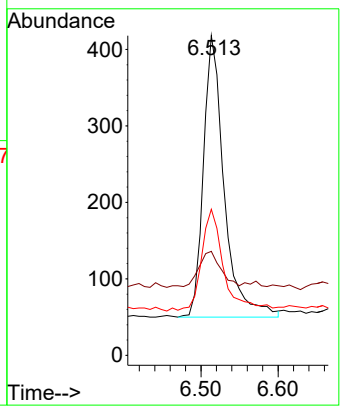


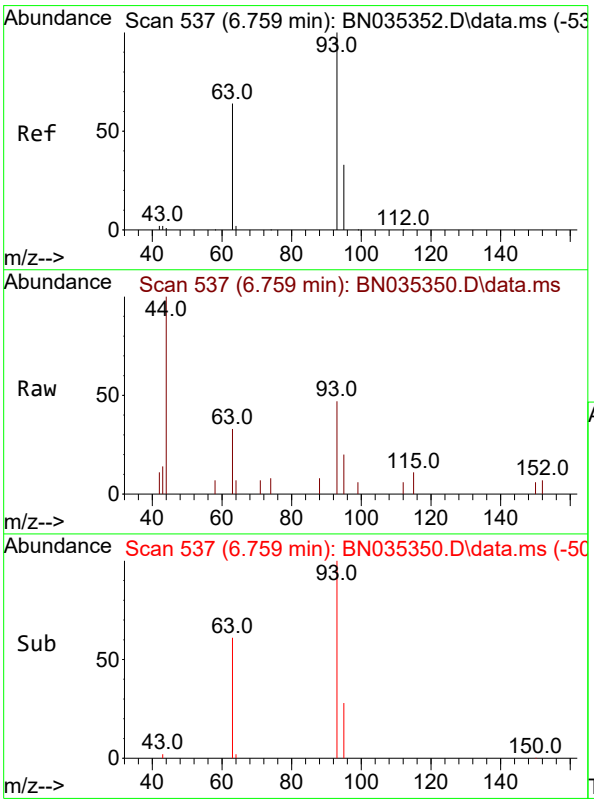
#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 686

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9

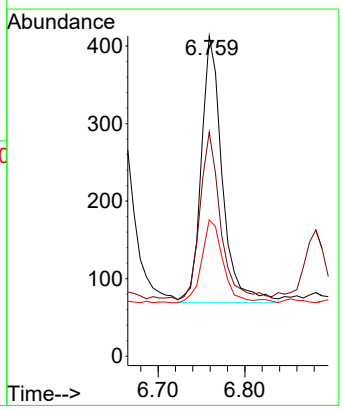


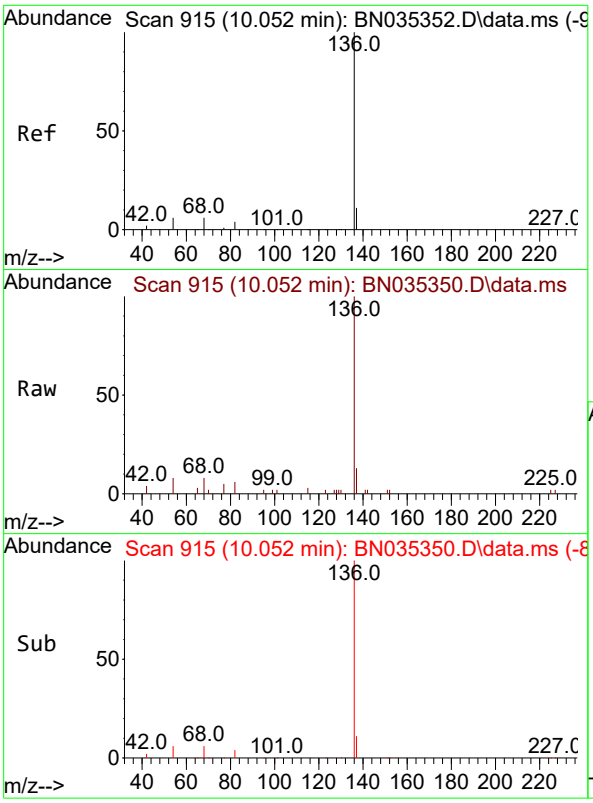


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.3	25.7	38.5



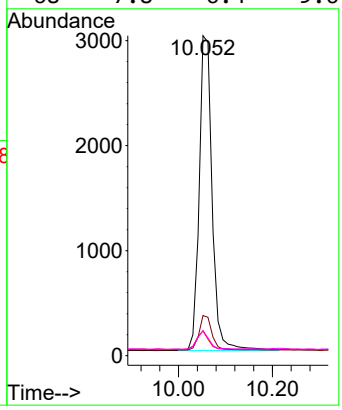


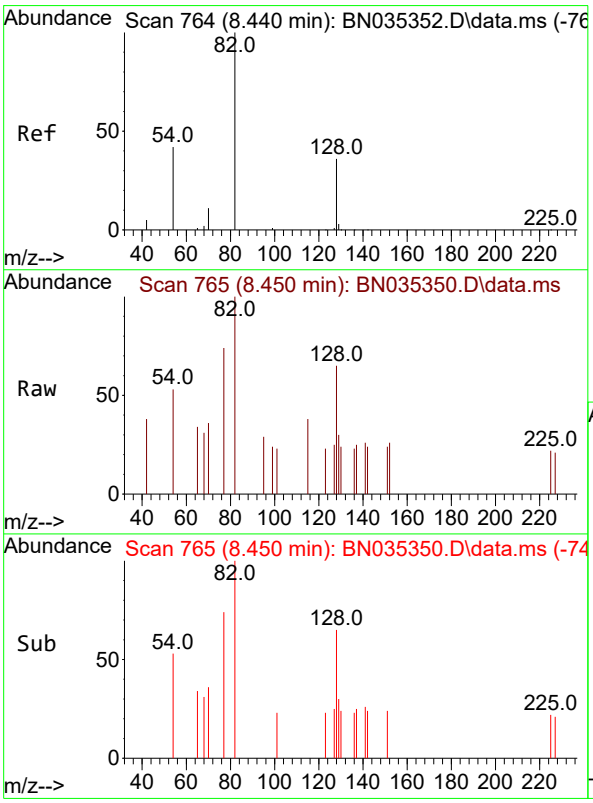
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 5753

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6

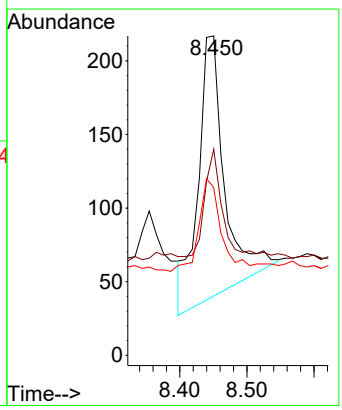


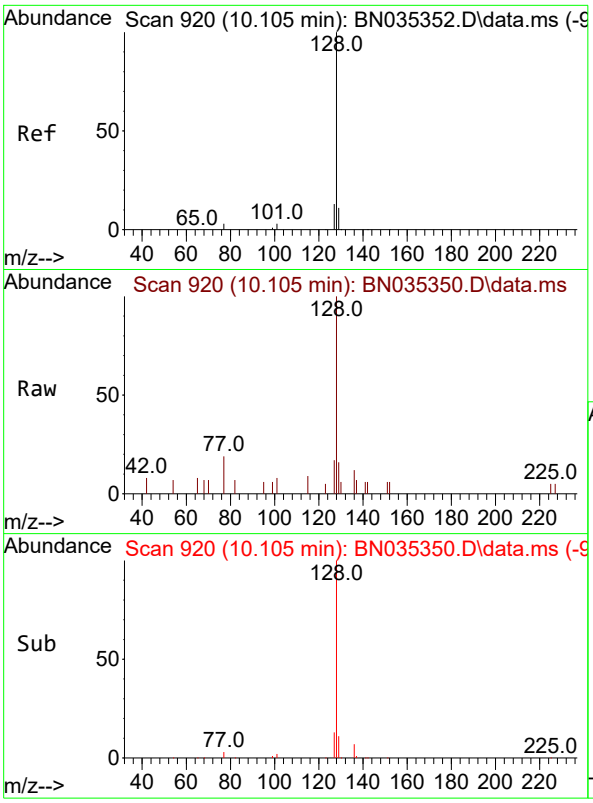


#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 492

Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1



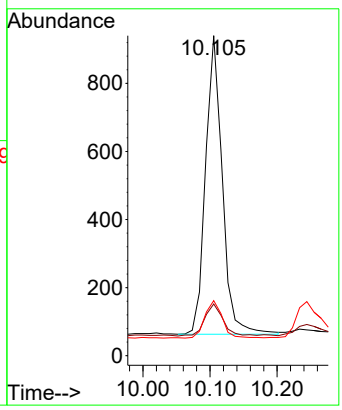


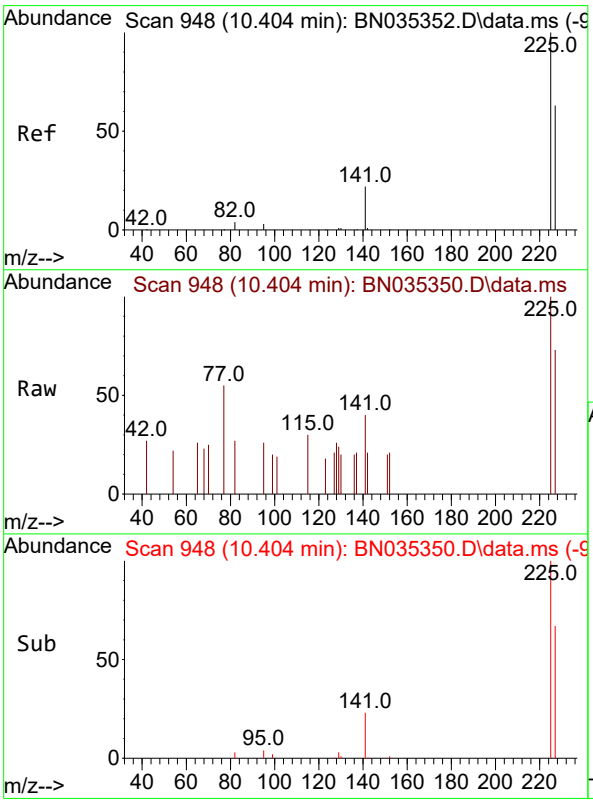
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1527

Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.8	14.6#
127	17.2	11.4	17.2#

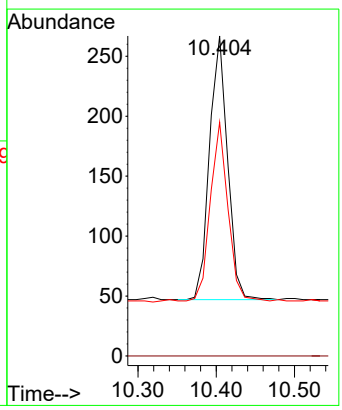


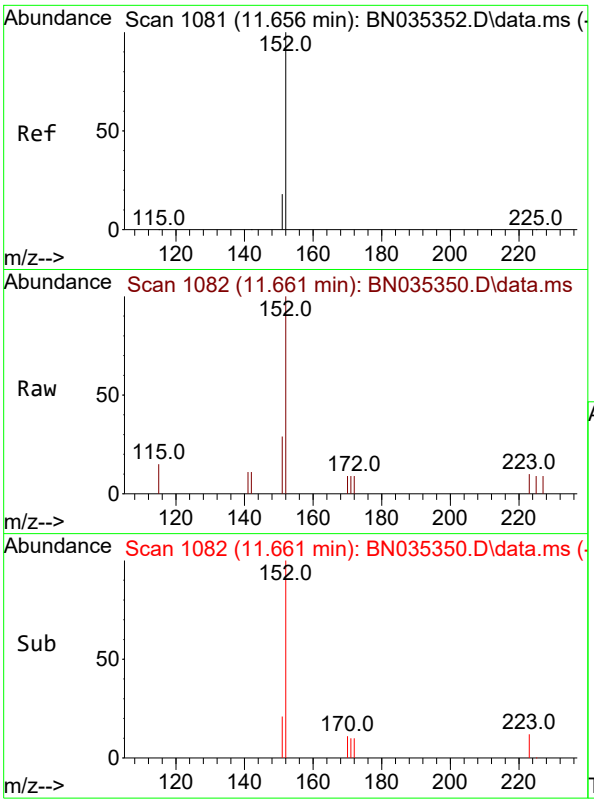


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.2	51.3	76.9



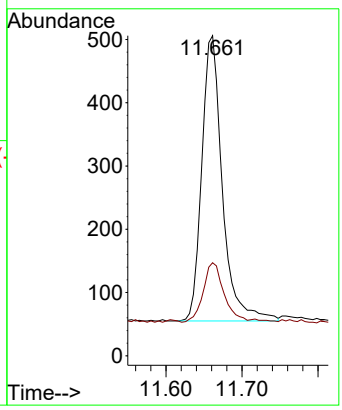


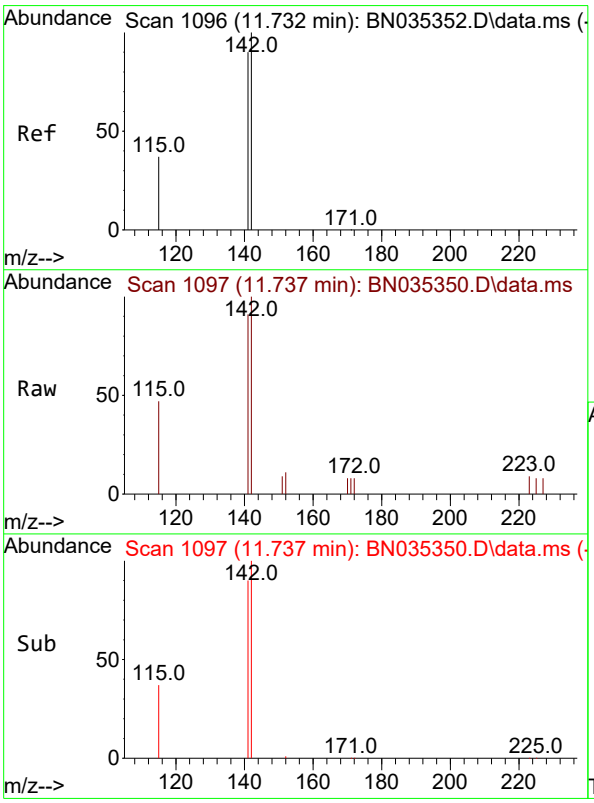
#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 850

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

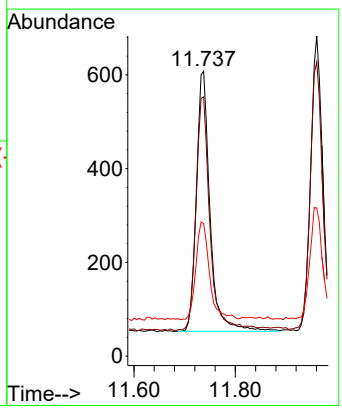


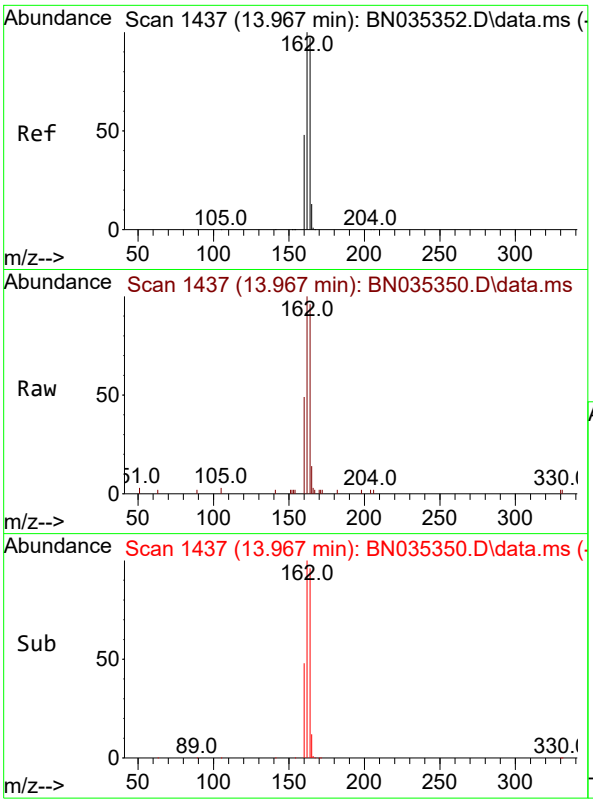


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	46.5	31.4	47.0



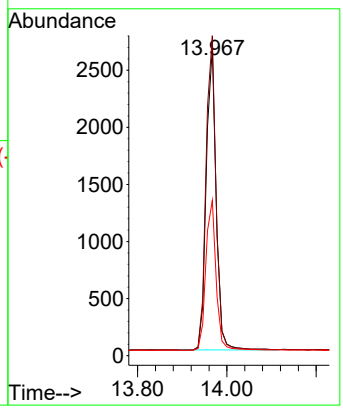


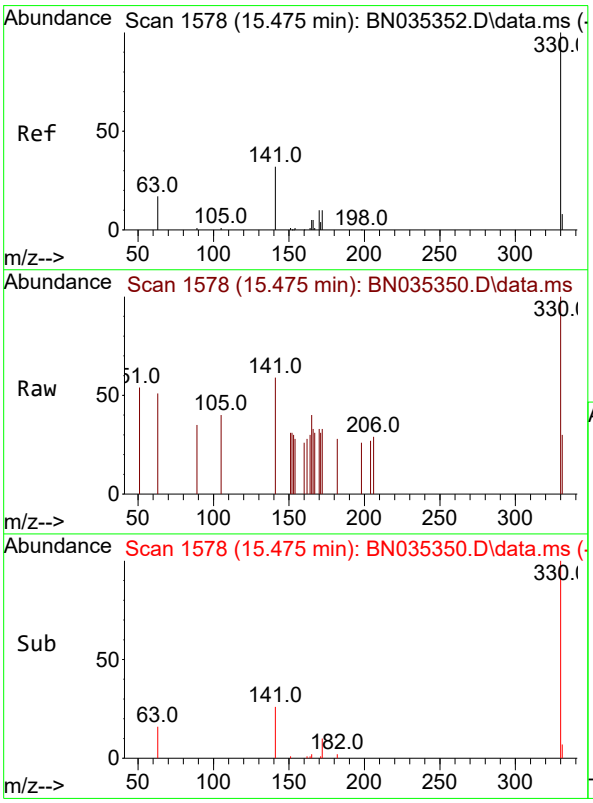
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 4077

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.4	40.1	60.1

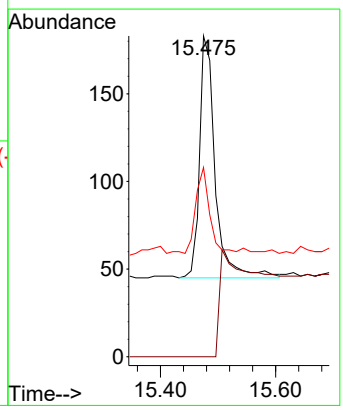


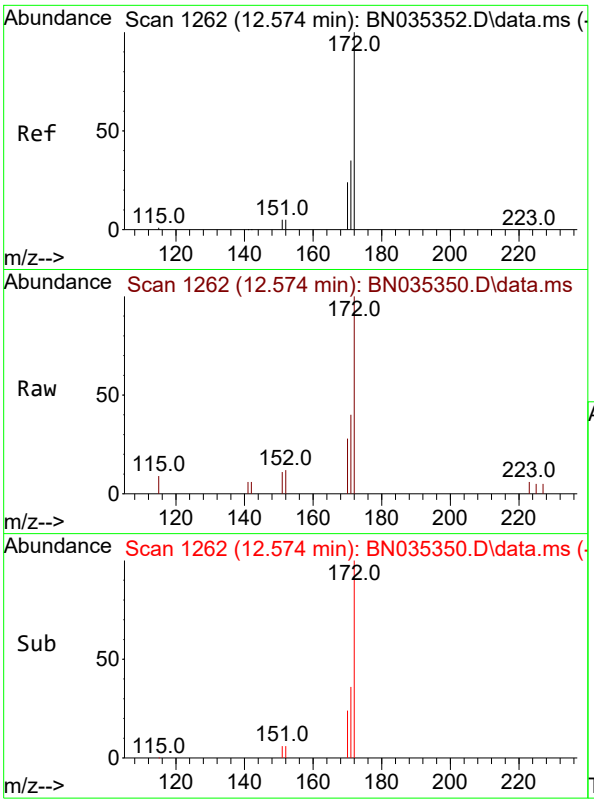


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0



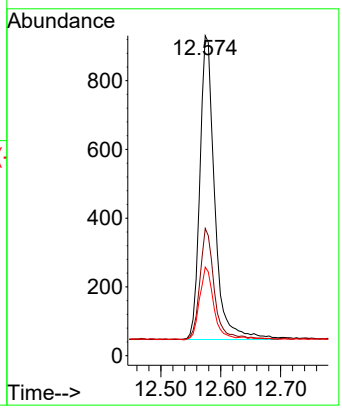


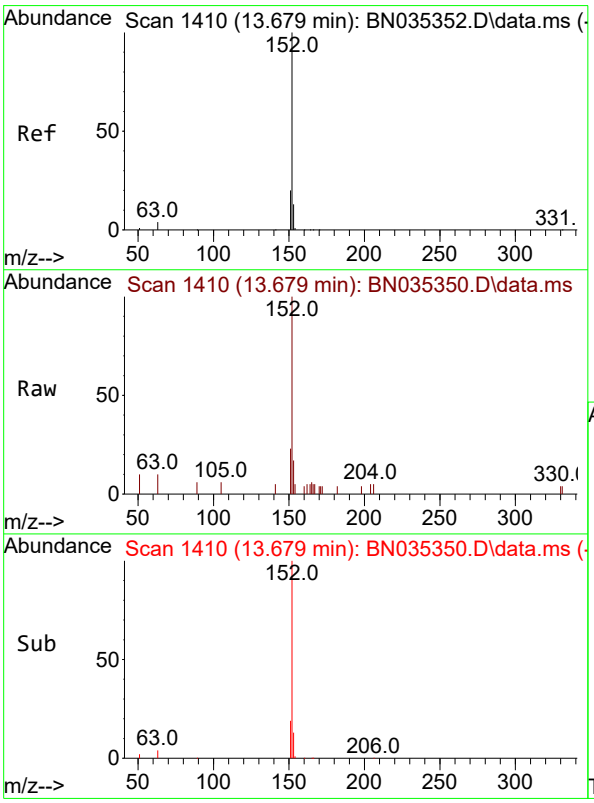
#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1518

Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8

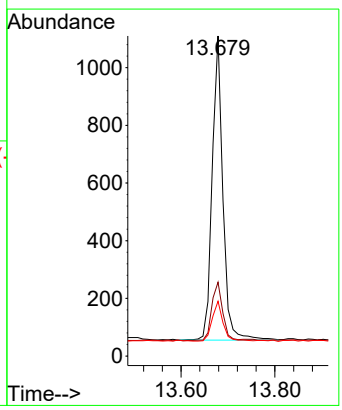


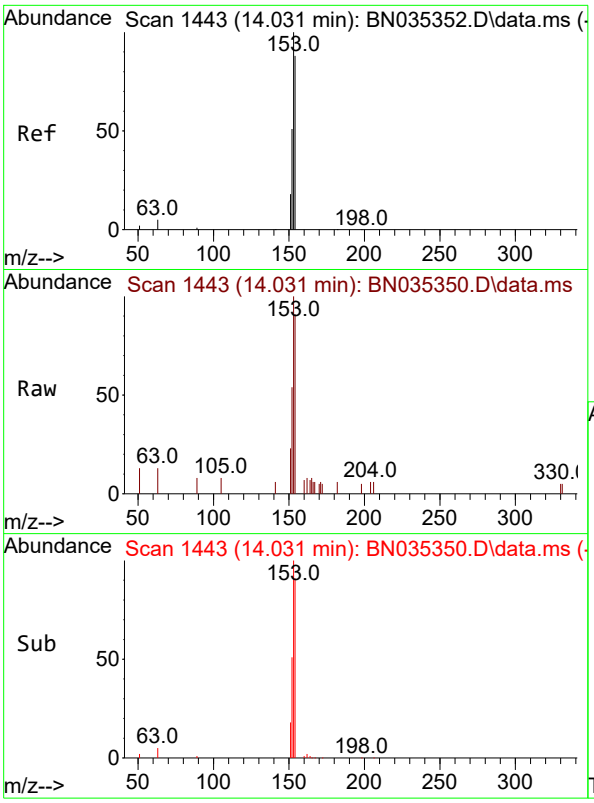


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6



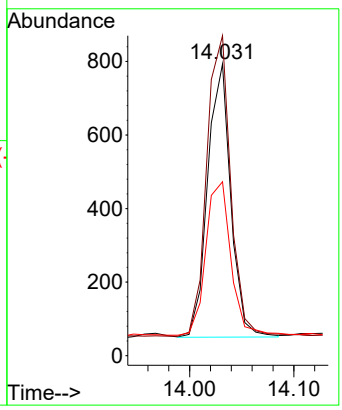


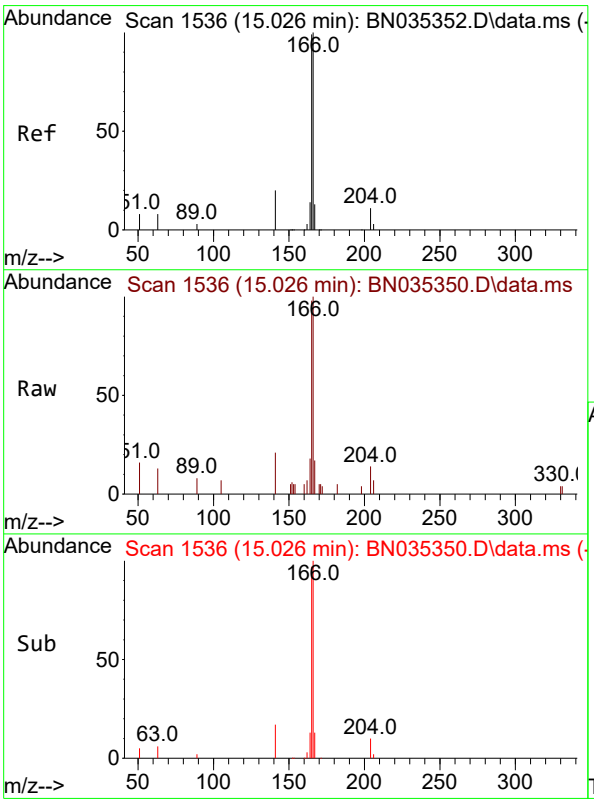
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1143

Ion	Ratio	Lower	Upper
154	100		
153	115.0	92.6	139.0
152	60.9	49.0	73.6

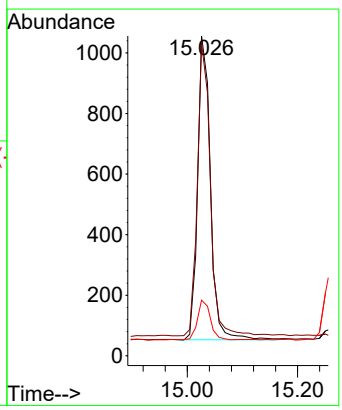


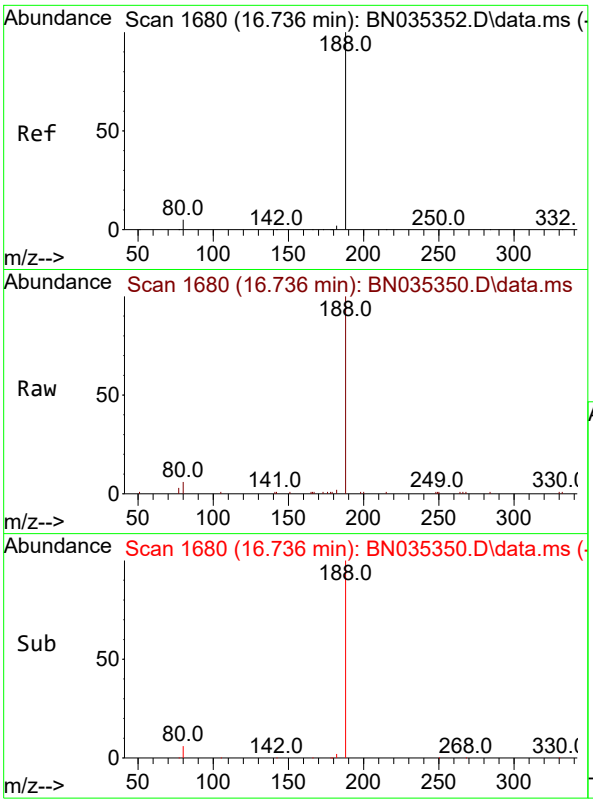


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.7	119.5
167	13.1	10.8	16.2



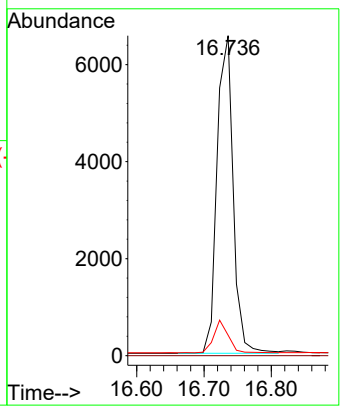


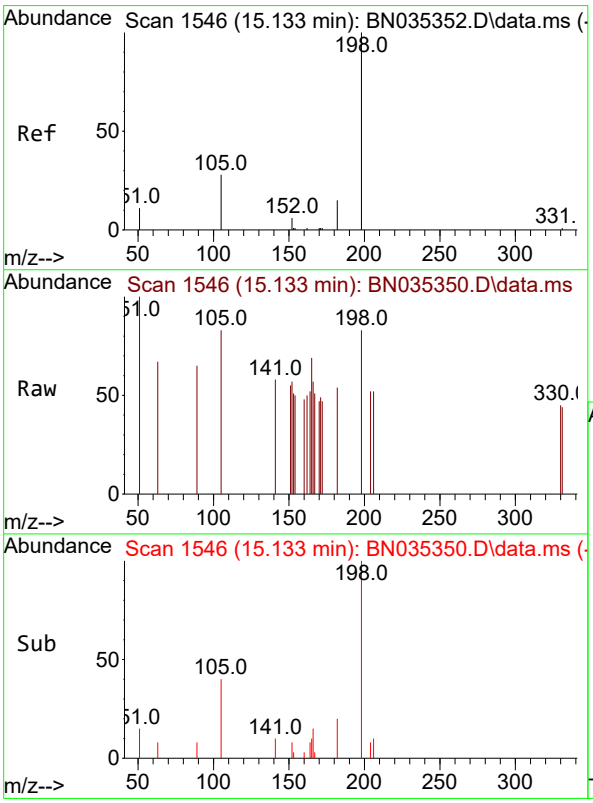
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 10855

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.4	4.6	6.8

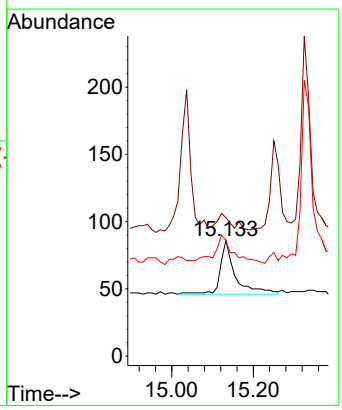


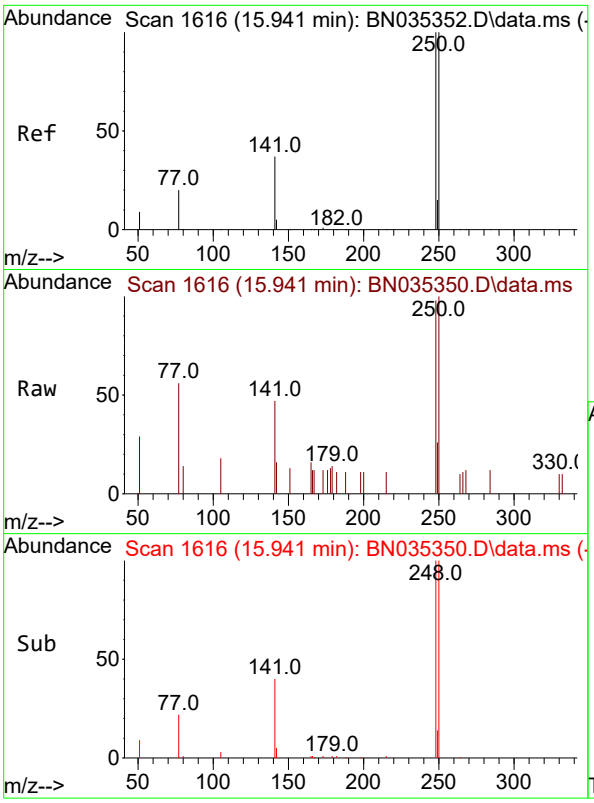


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	119.8	46.5	69.7#
105	100.0	45.3	67.9#



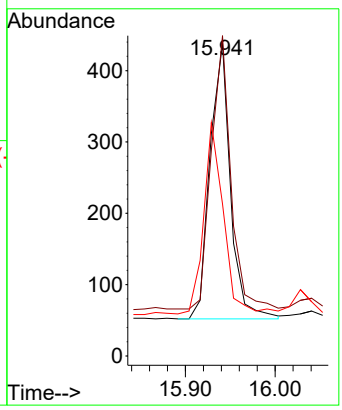


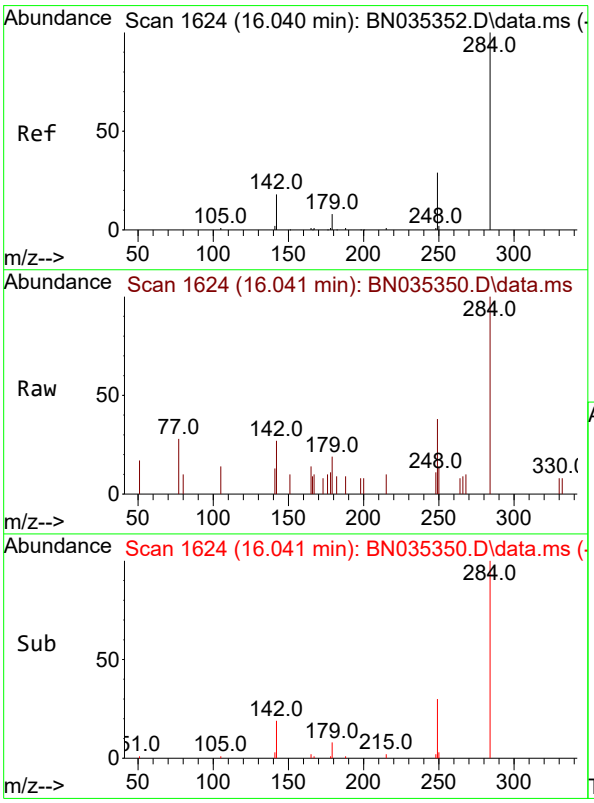
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 612

Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.6	120.8
141	48.6	31.5	47.3#

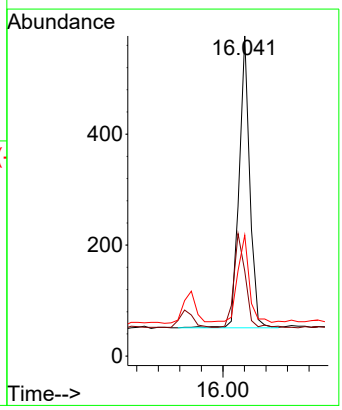


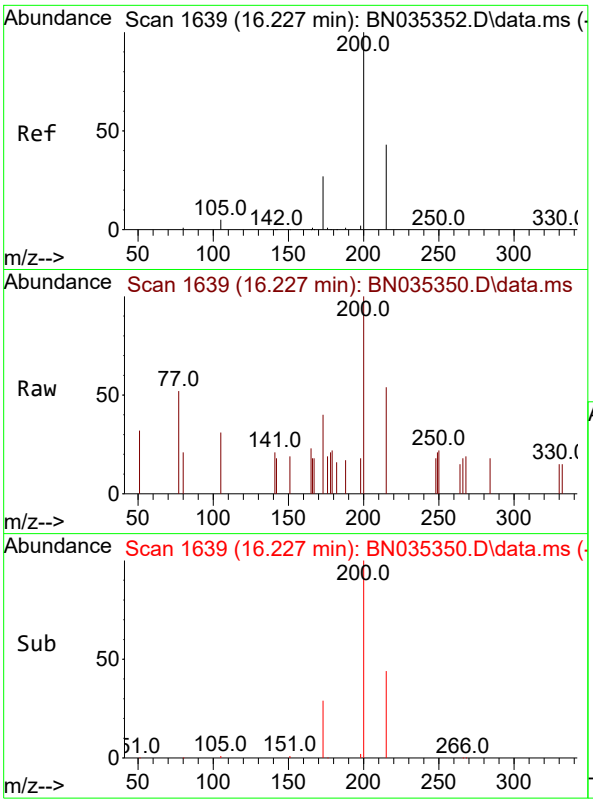


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	32.2	24.6	36.8



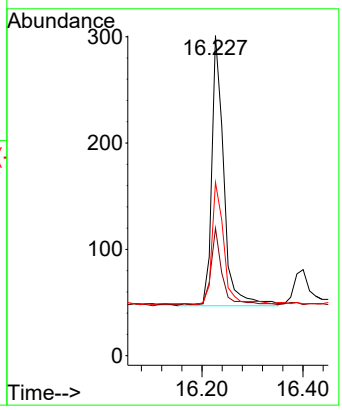


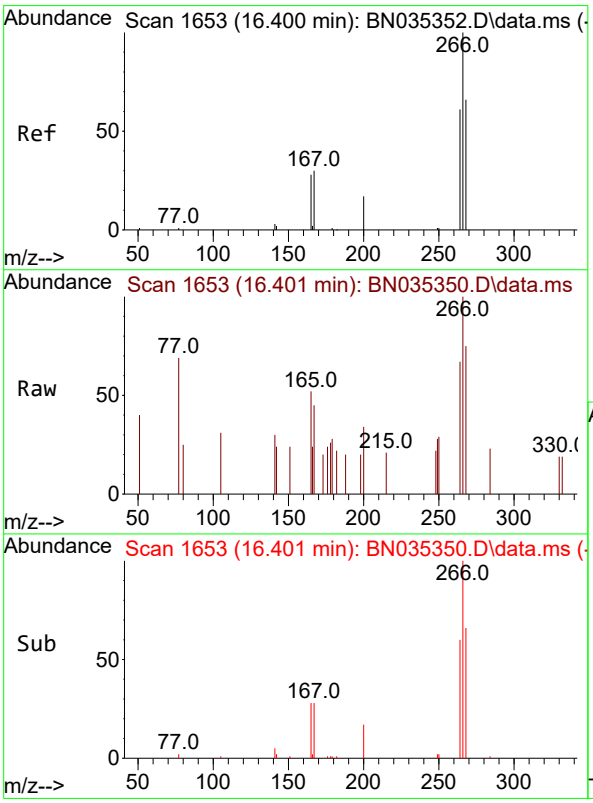
#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 421

Ion	Ratio	Lower	Upper
200	100		
173	39.9	24.1	36.1#
215	54.2	36.9	55.3

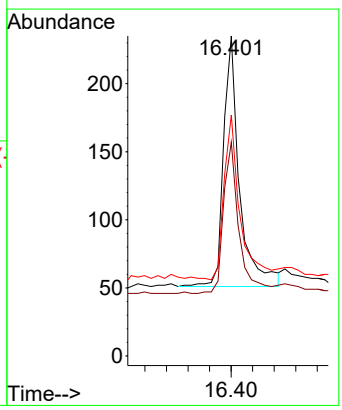


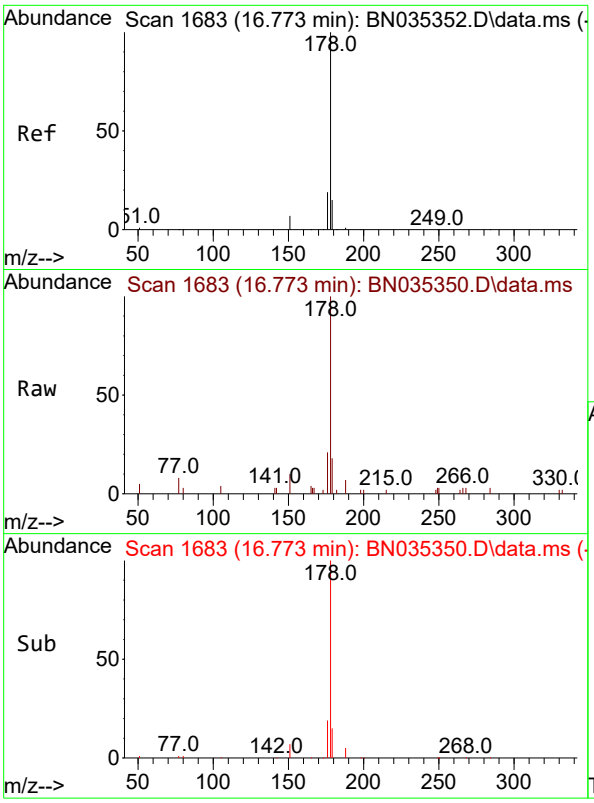


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

Ion	Ratio	Lower	Upper
266	100		
264	58.3	42.3	63.5
268	63.3	43.3	64.9



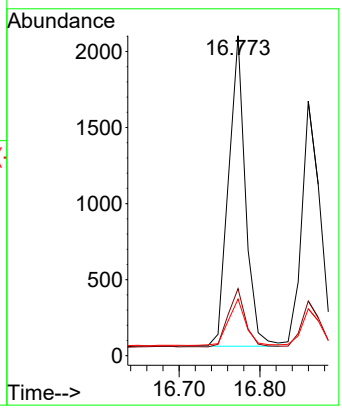


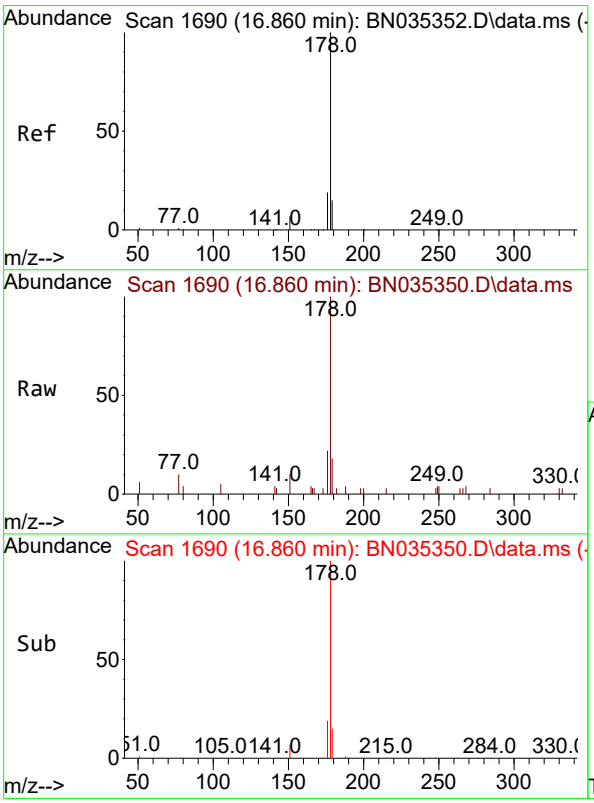
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2963

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.3	18.5

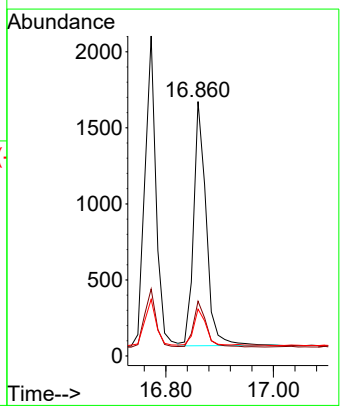


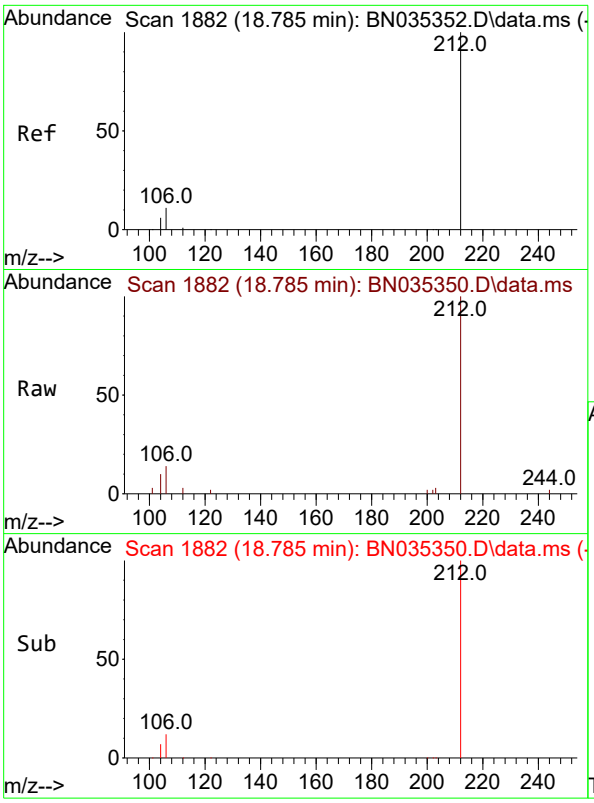


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	14.3	12.6	18.8



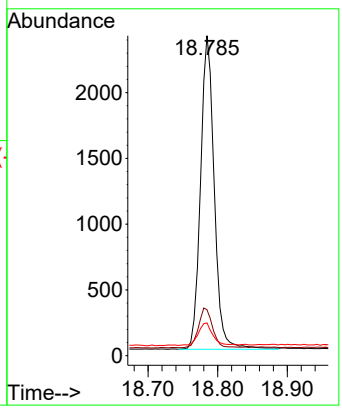


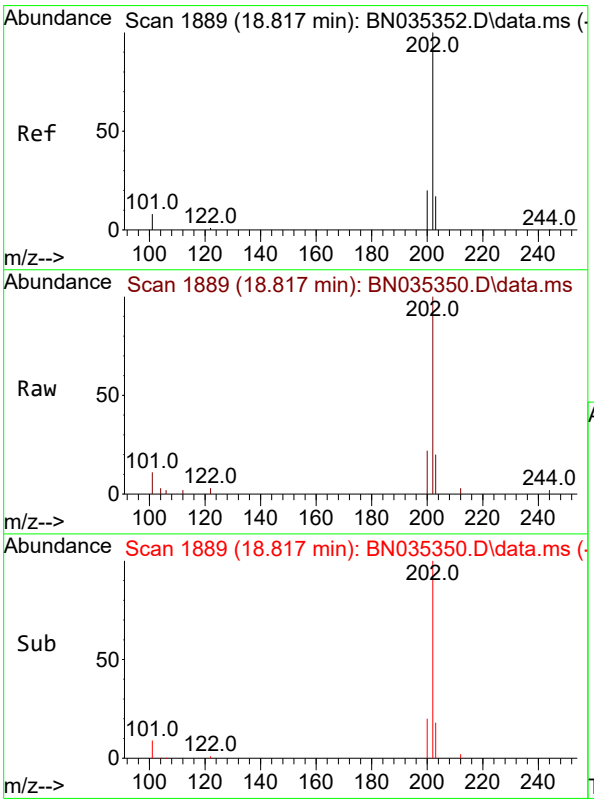
#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 3265

Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9

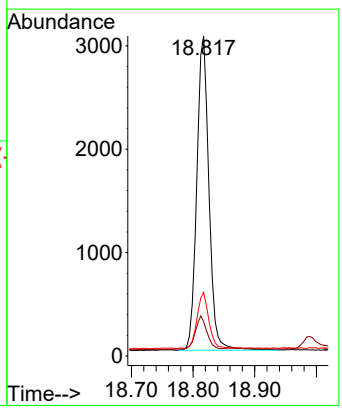


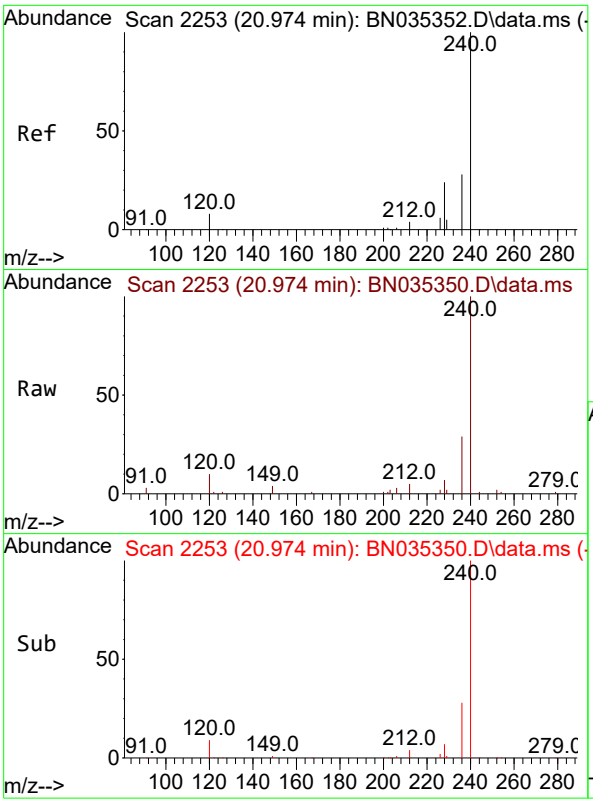


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

Ion	Ratio	Lower	Upper
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5



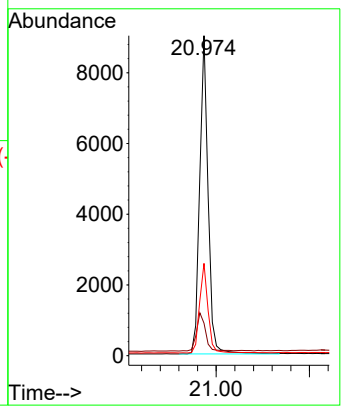


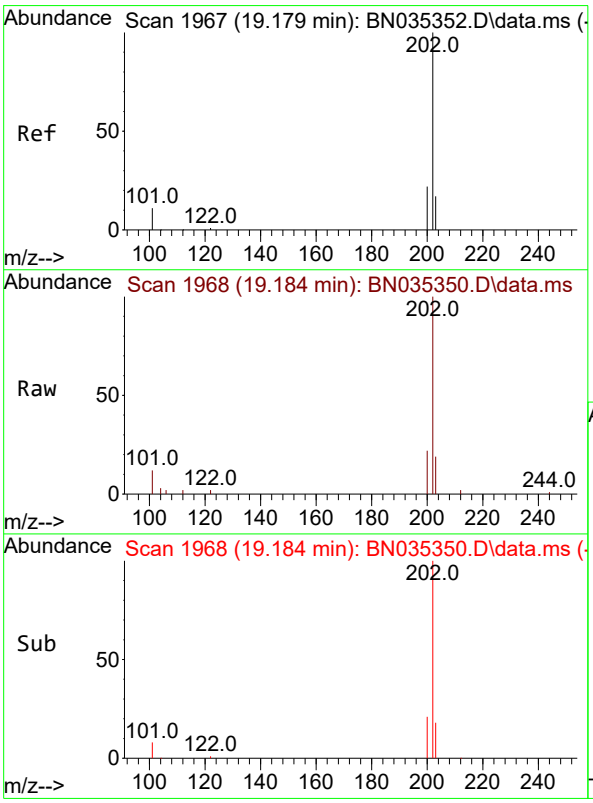
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 11269

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3

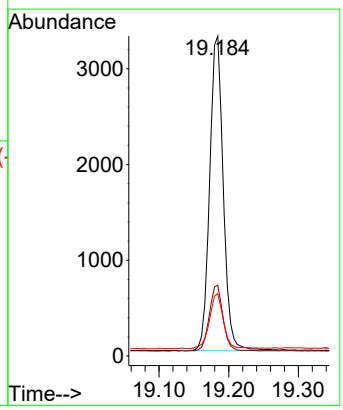


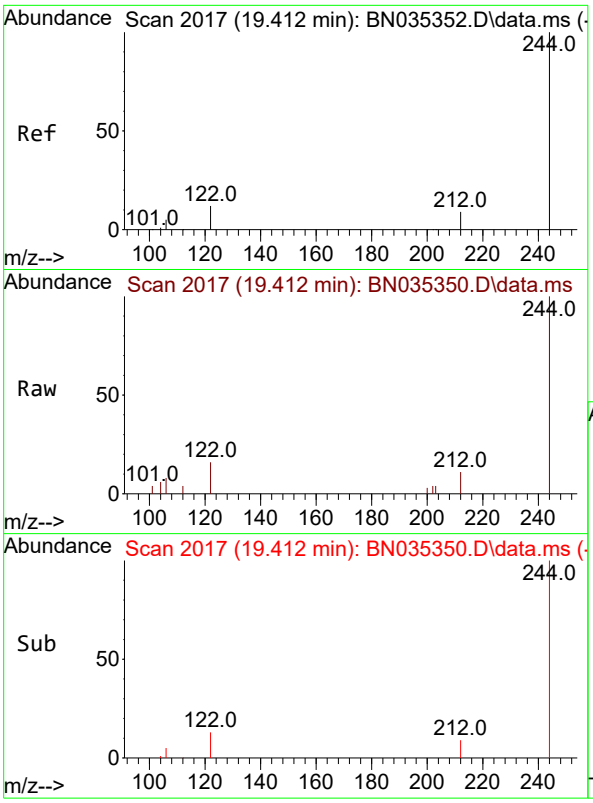


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5



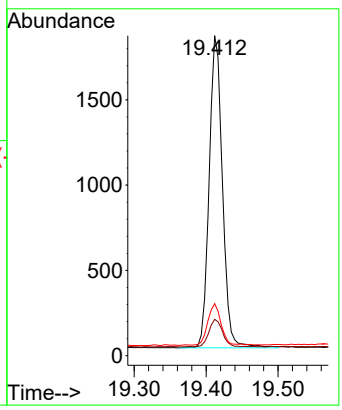


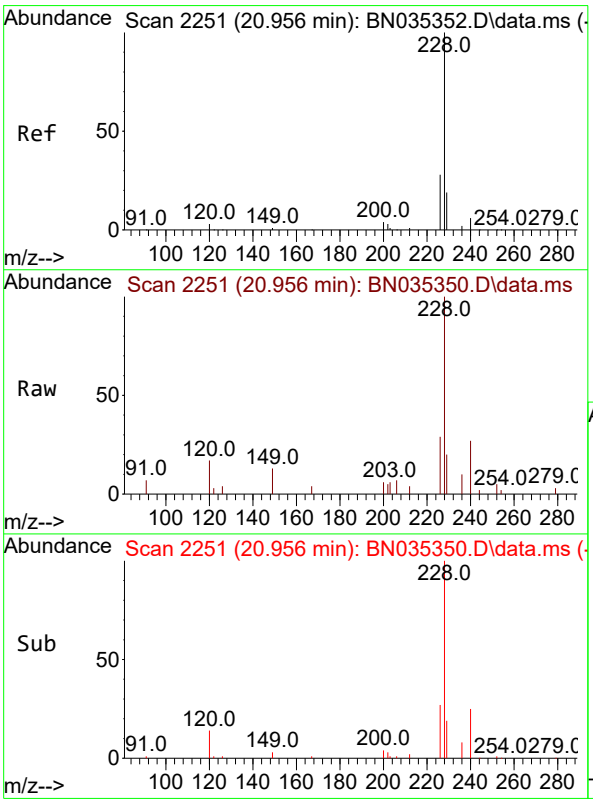
#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 2344

Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5#

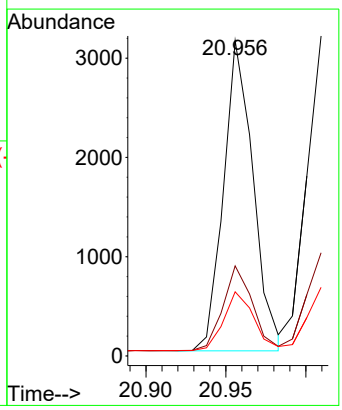


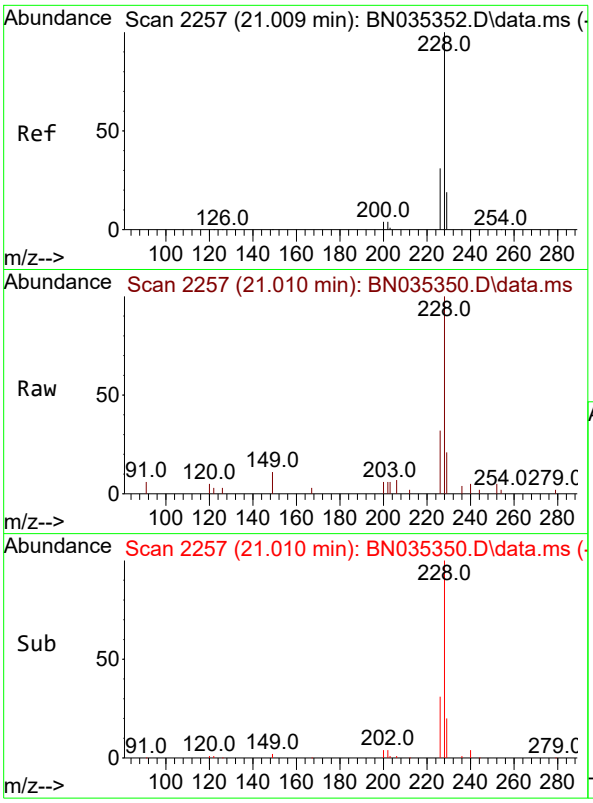


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8



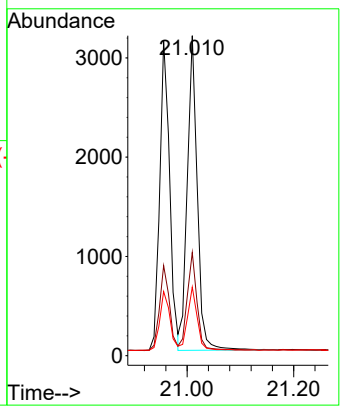


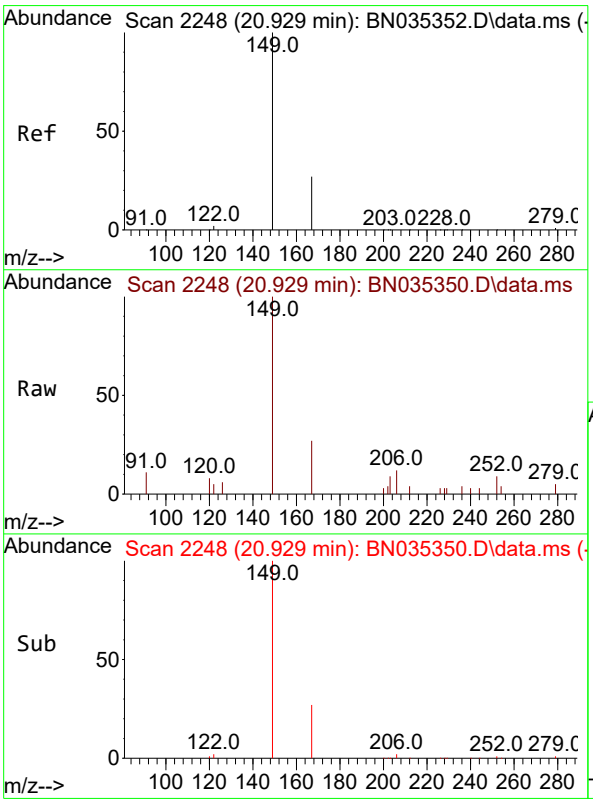
#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 4123

Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	21.5	15.9	23.9

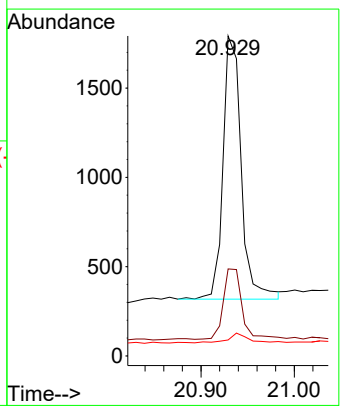


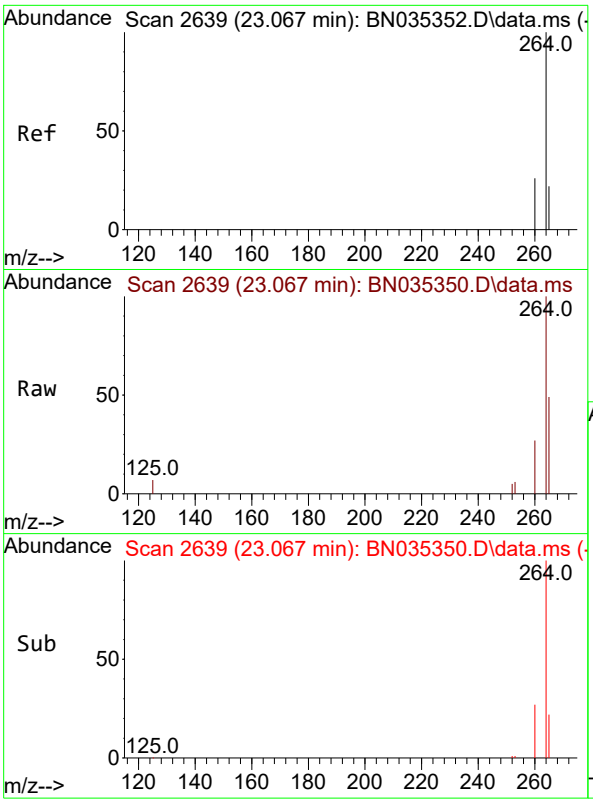


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.6	2.7	4.1



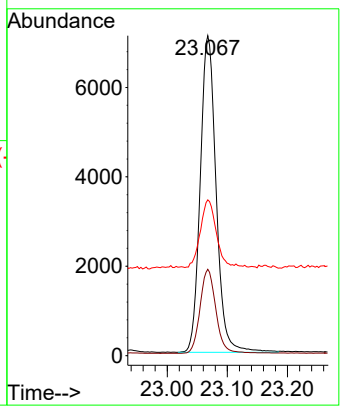


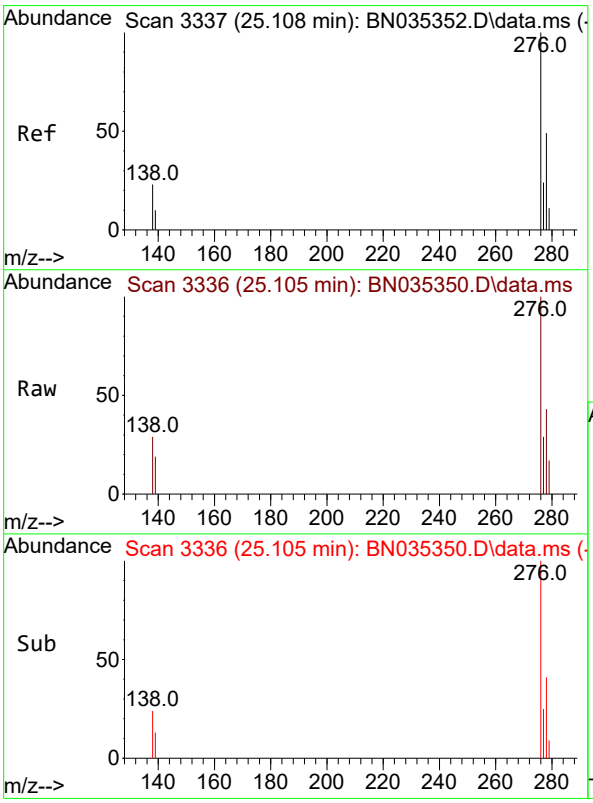
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 13004

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.7	40.2	60.4

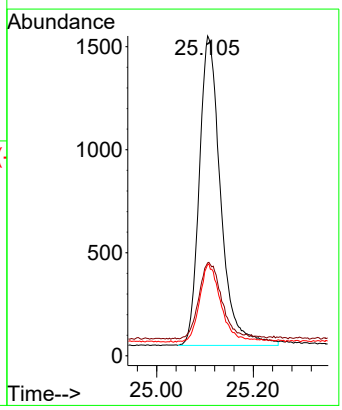


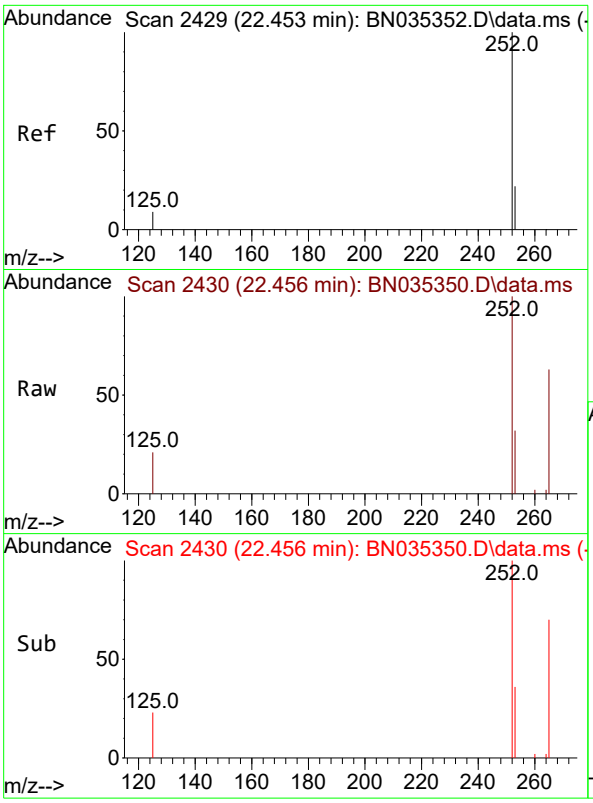


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.4	29.0
277	25.6	19.8	29.6



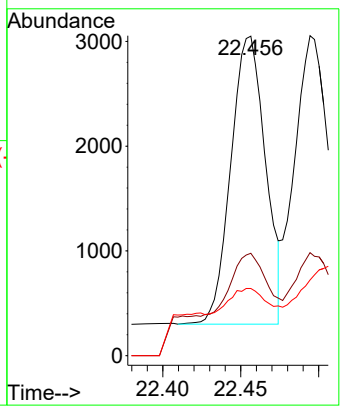


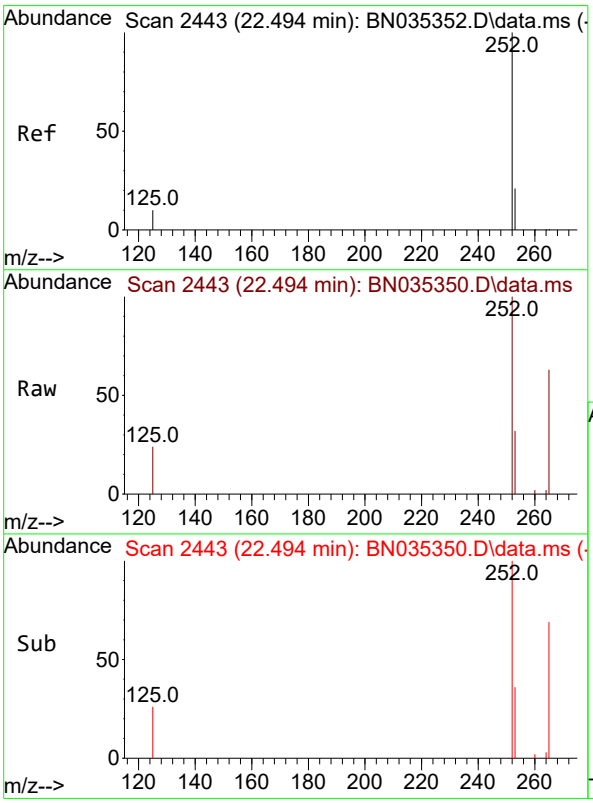
#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 4243

Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4#
125	21.0	9.6	14.4#

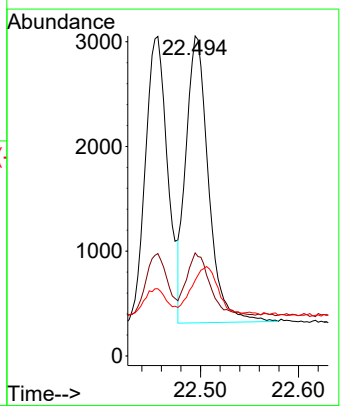


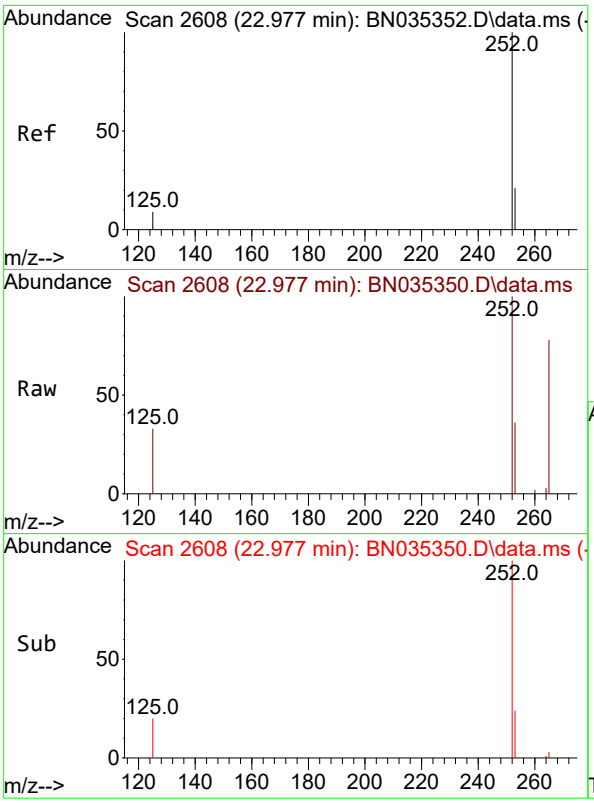


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4378

Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3#
125	23.7	10.2	15.4#



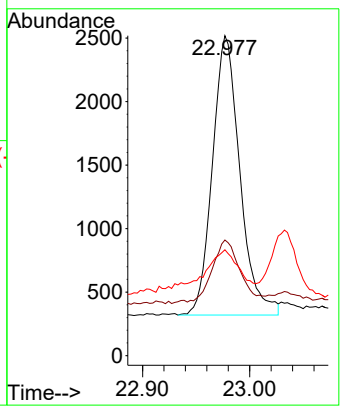


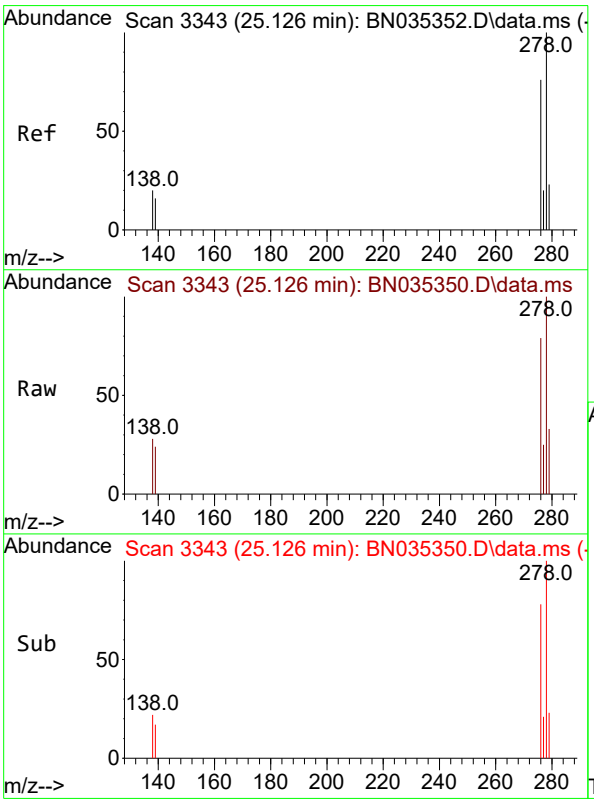
#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 3913

Ion	Ratio	Lower	Upper
252	100		
253	36.1	20.2	30.4#
125	33.1	10.9	16.3#

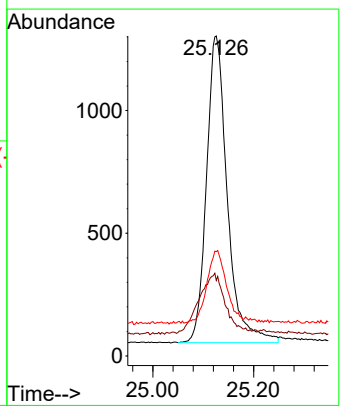


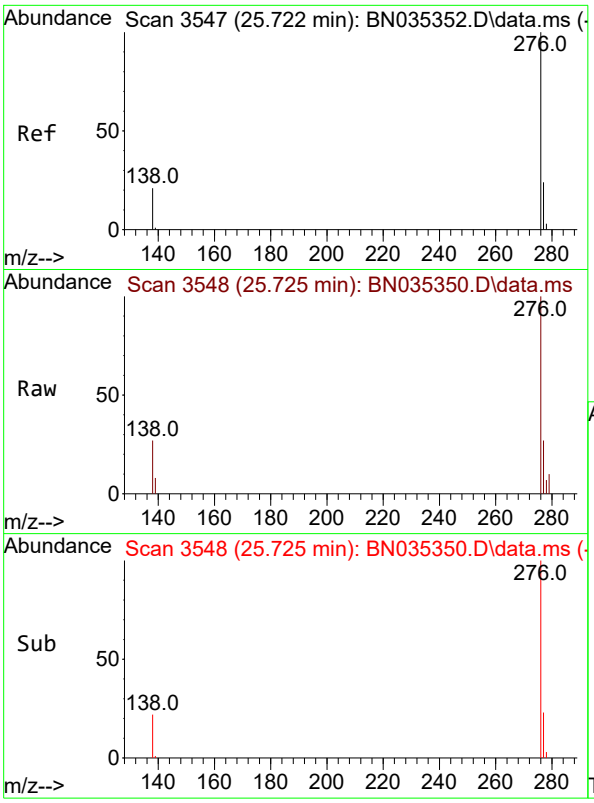


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

Ion	Ratio	Lower	Upper
278	100		
139	23.6	14.2	21.4#
279	32.6	20.5	30.7#



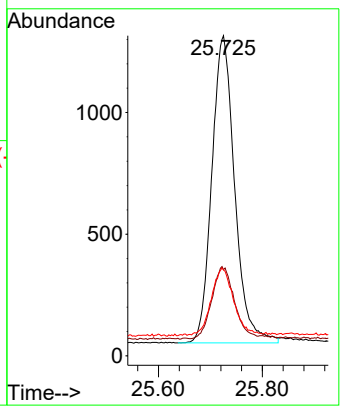


#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 3863

Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.9	29.9
138	26.8	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	806	0.174	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.456	252	7522	0.200	ng	94
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

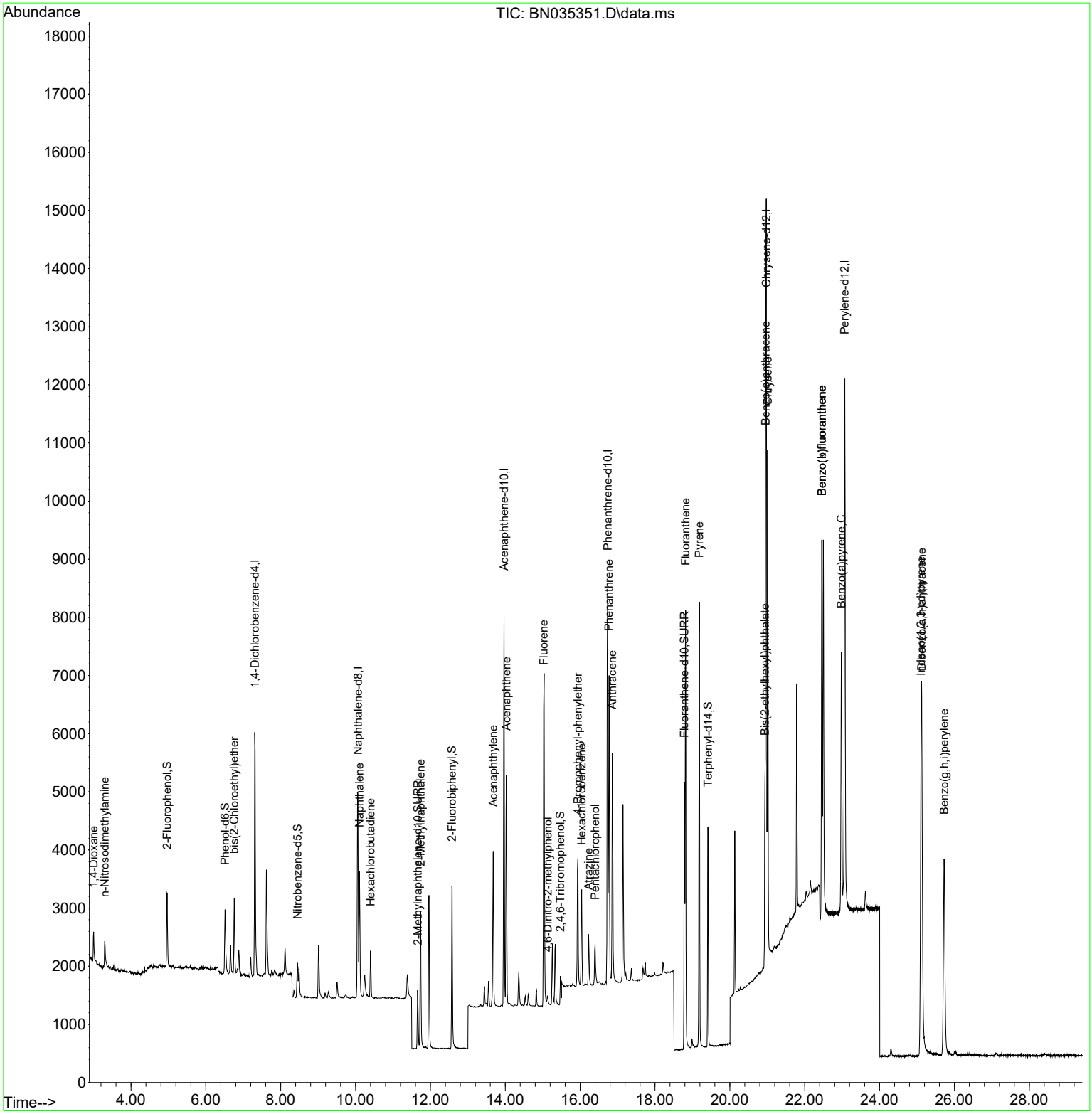
(#) = qualifier out of range (m) = manual integration (+) = signals summed

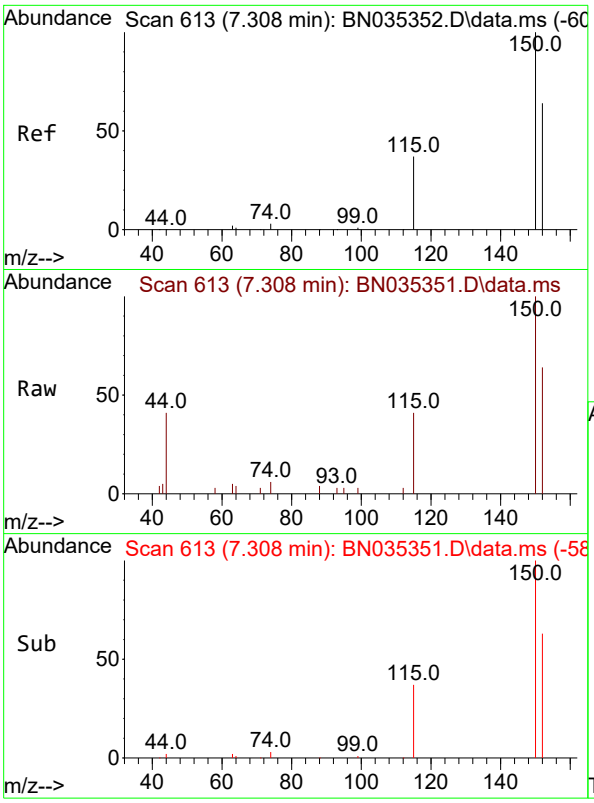
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



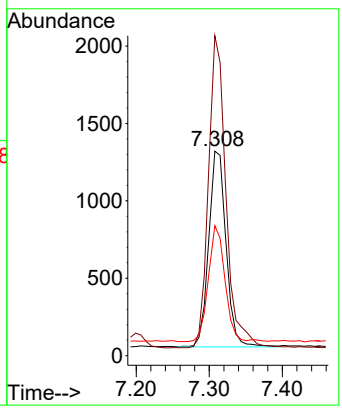


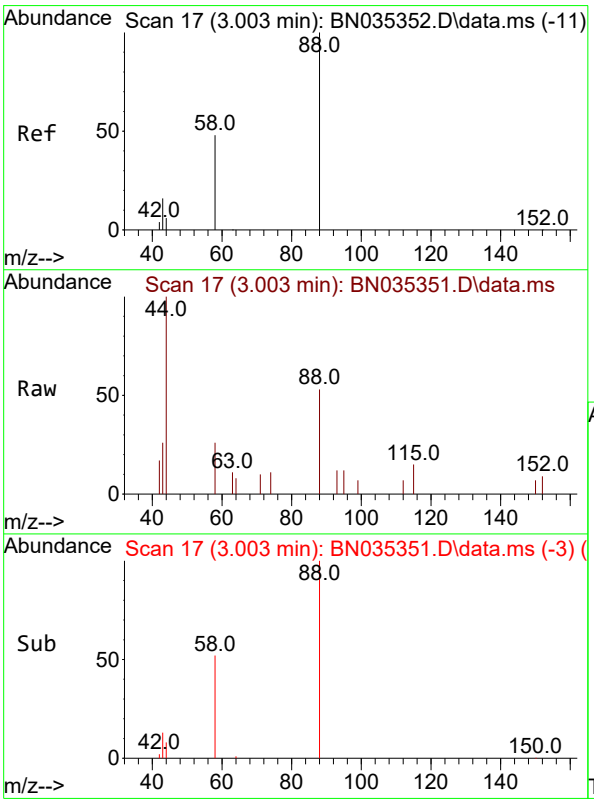
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2084

Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4

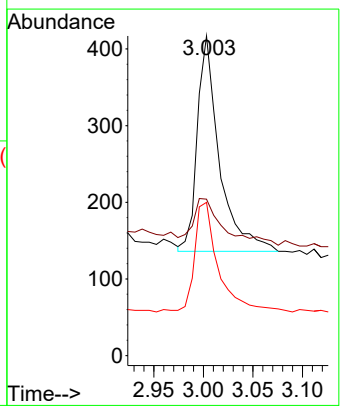


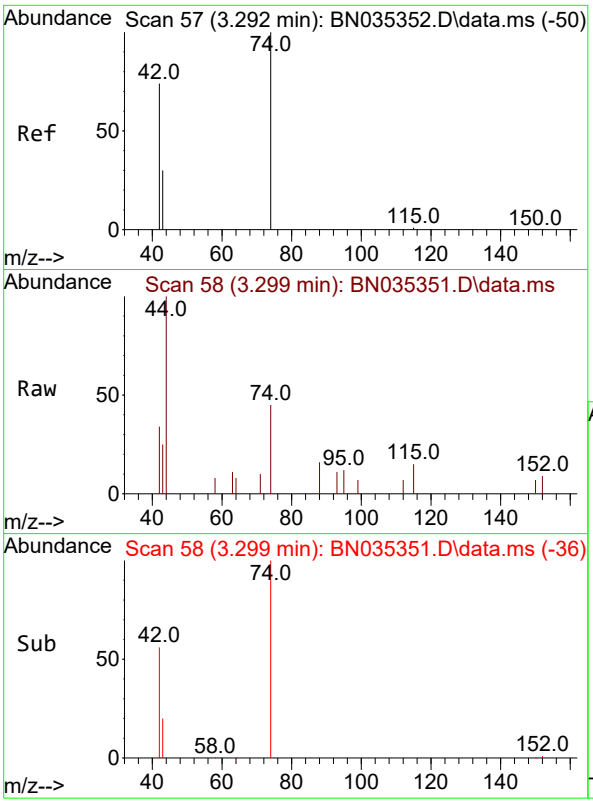


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8#
58	55.2	44.5	66.7



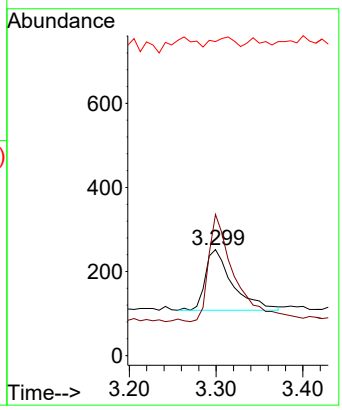


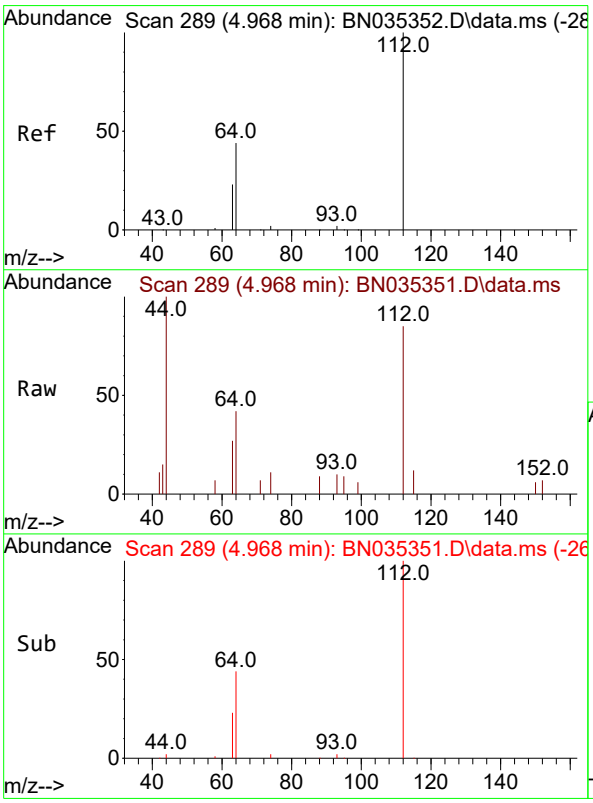
#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 315

Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4#

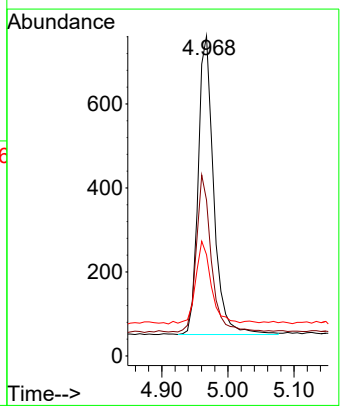


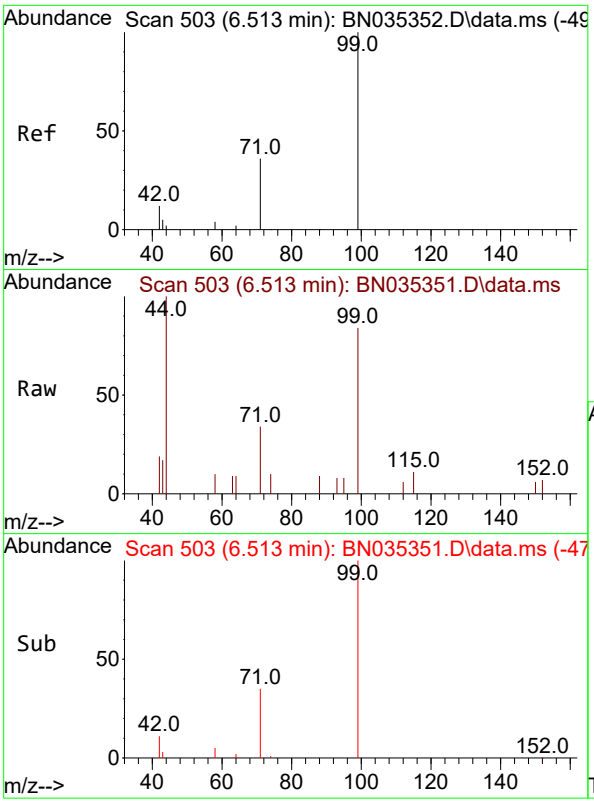


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6



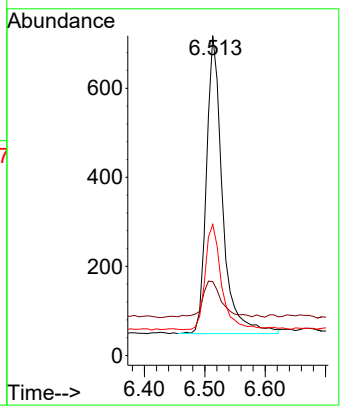


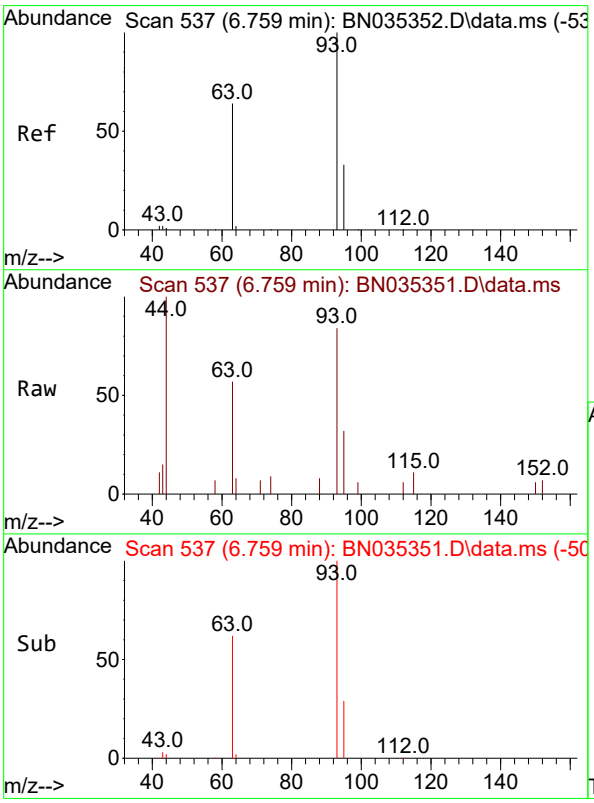
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1236

Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9

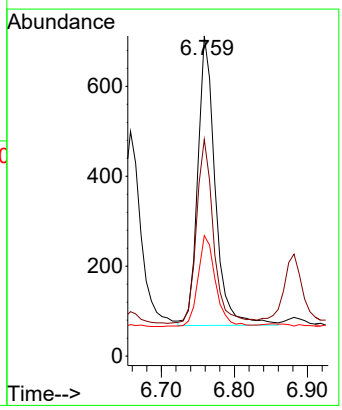


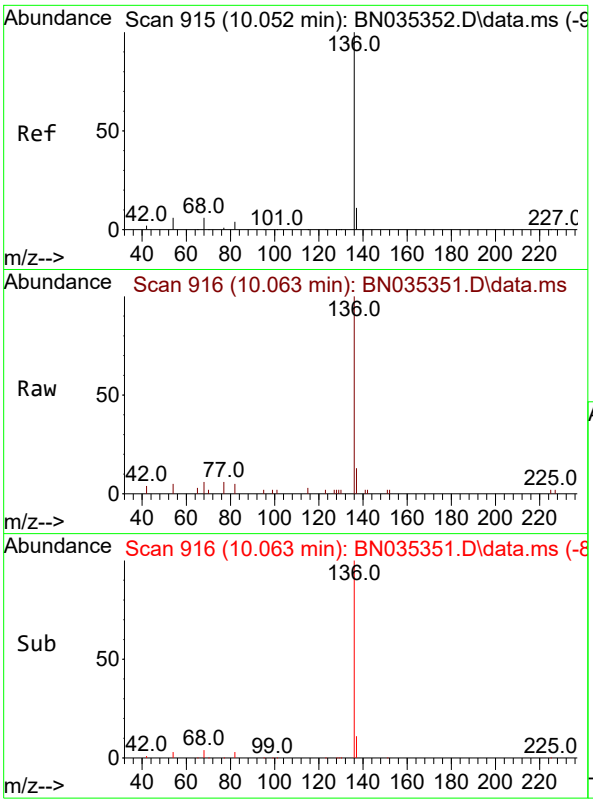


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5



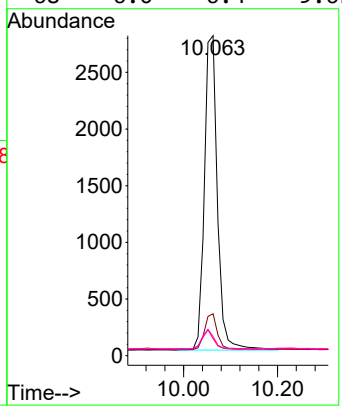


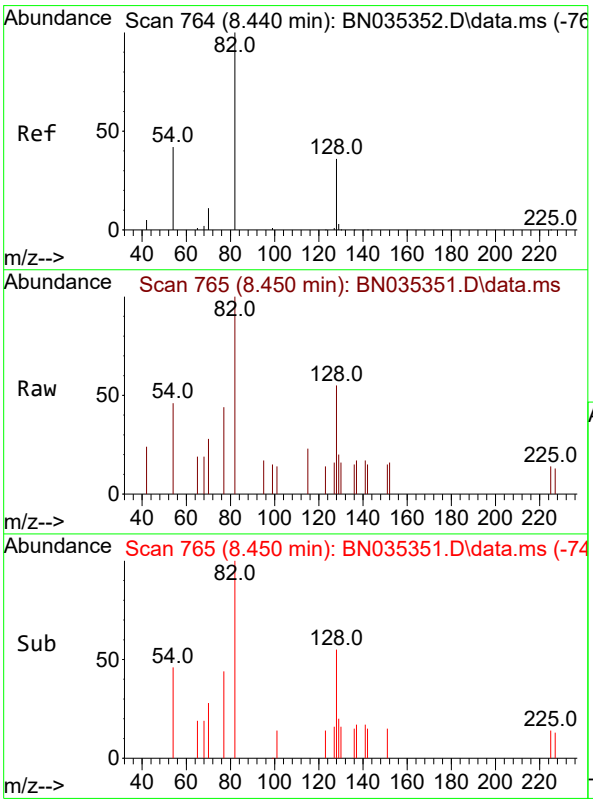
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5334

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#

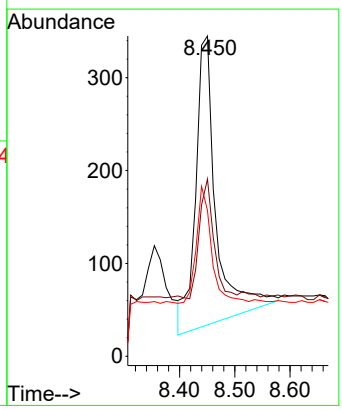


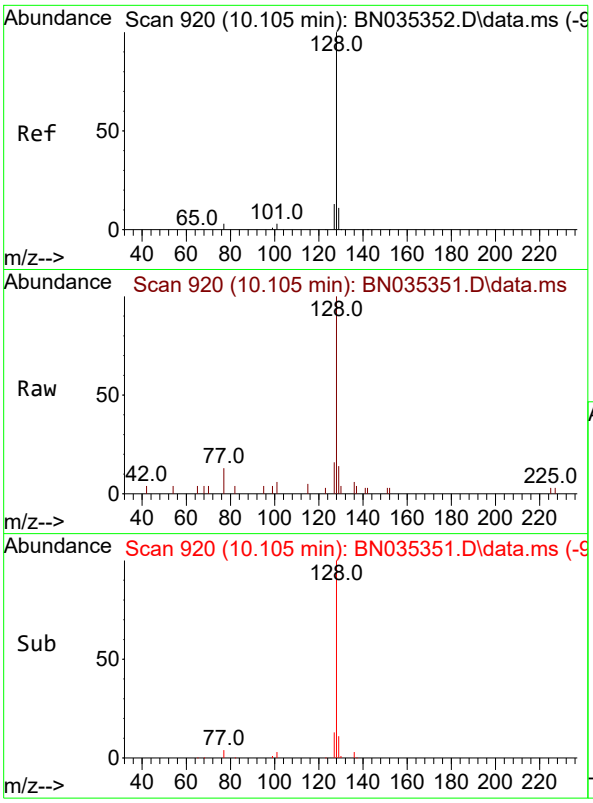


#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 806

Ion	Ratio	Lower	Upper
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1



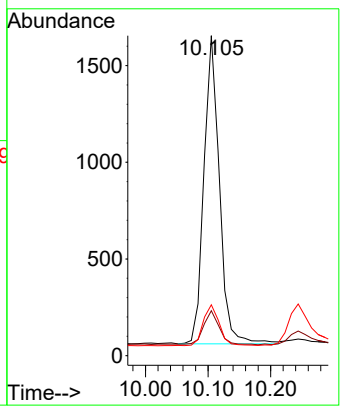


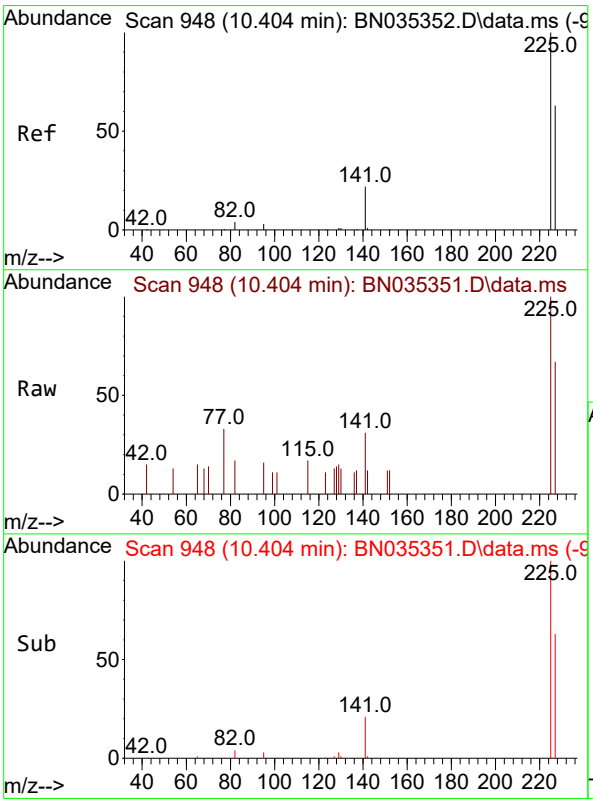
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2744

Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2

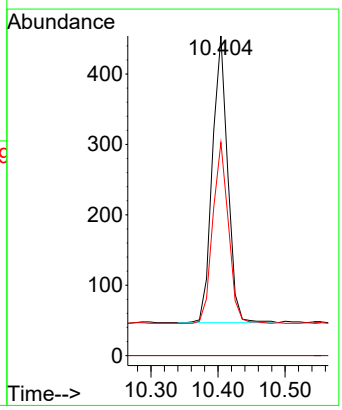


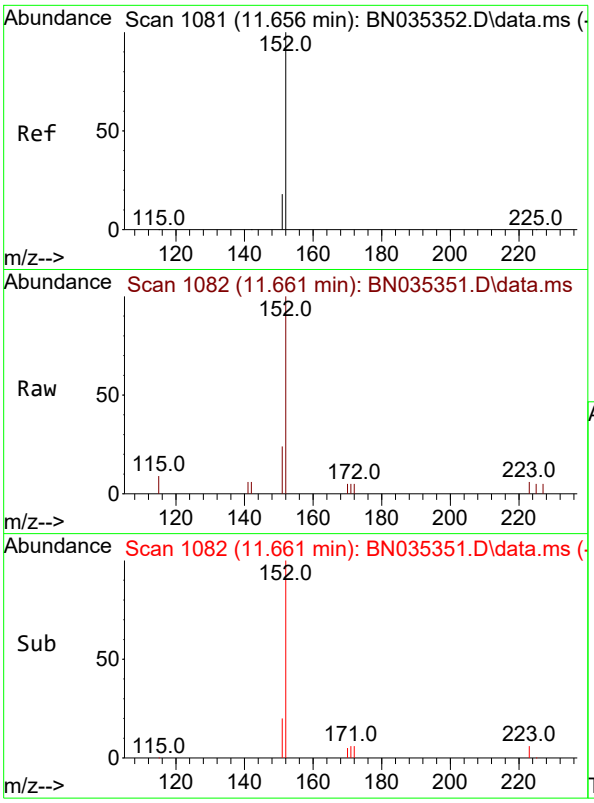


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9



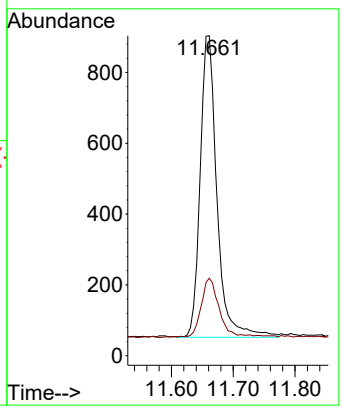


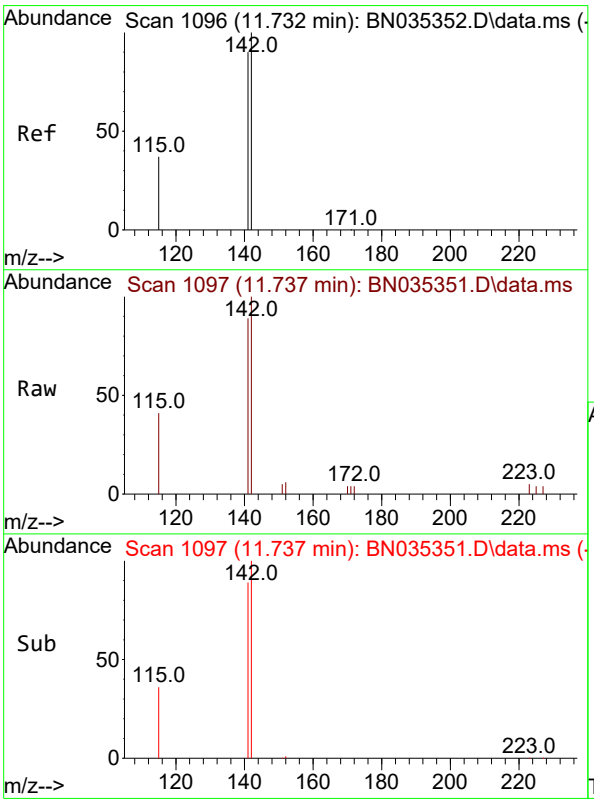
#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1608

Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0

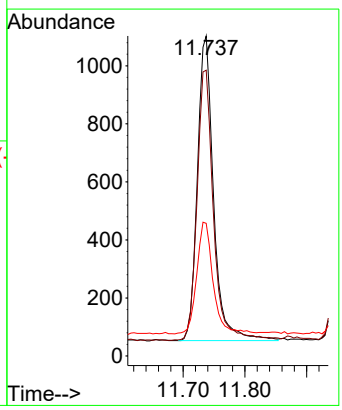


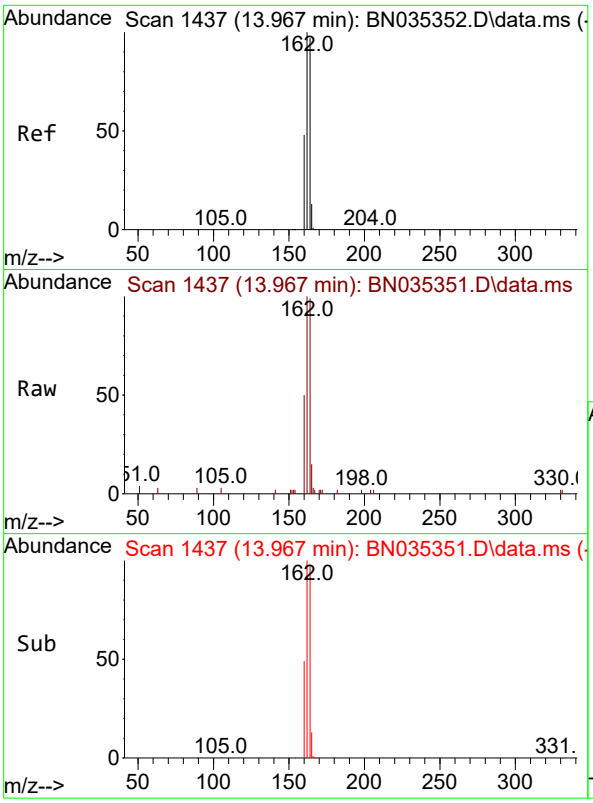


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	41.4	31.4	47.0



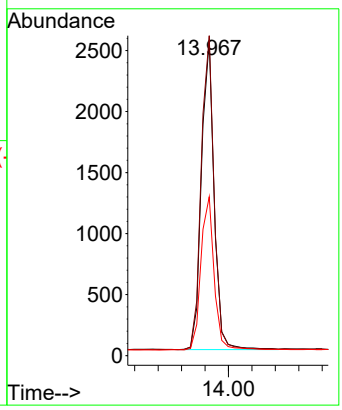


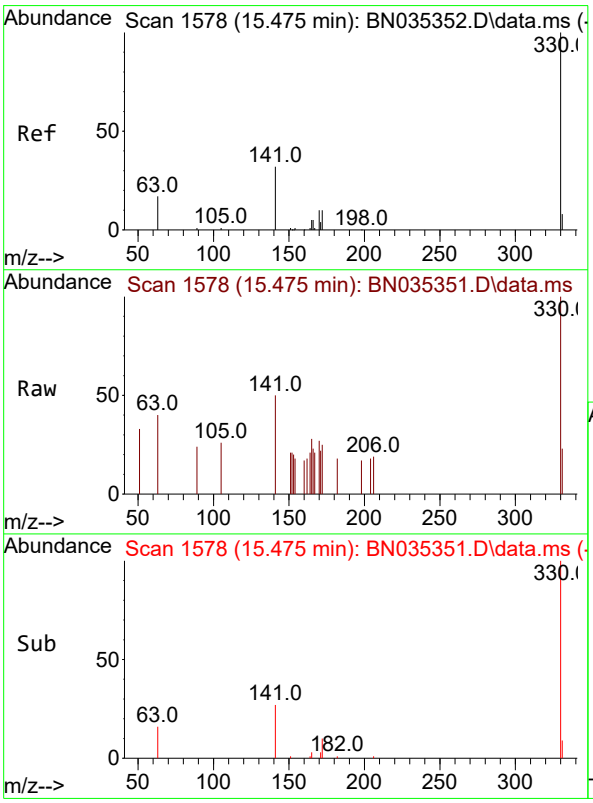
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3808

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1

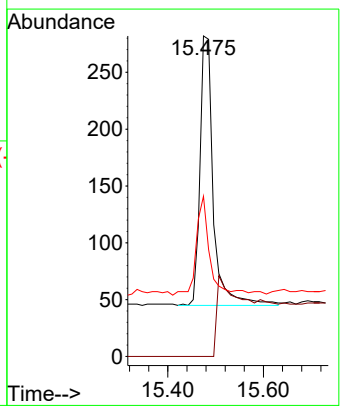


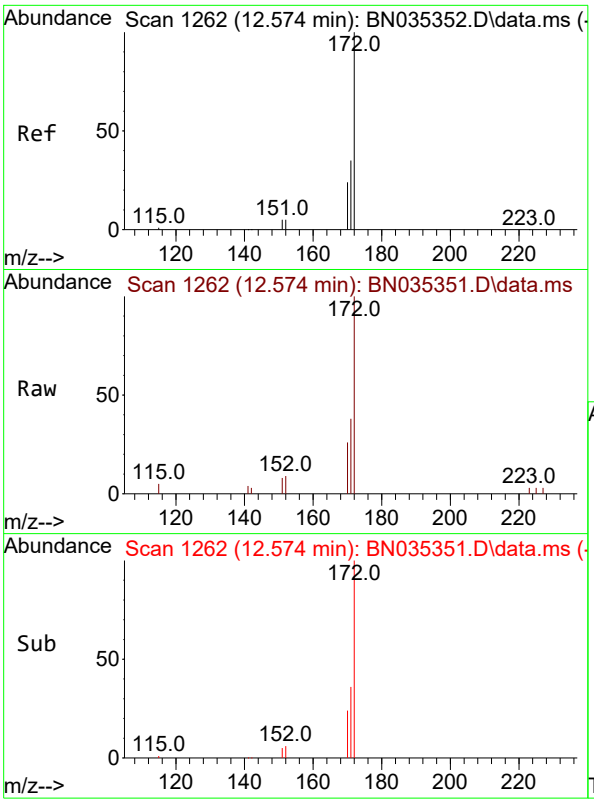


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0



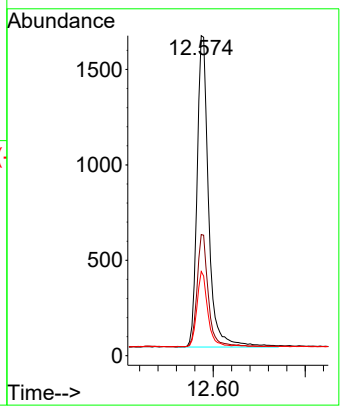


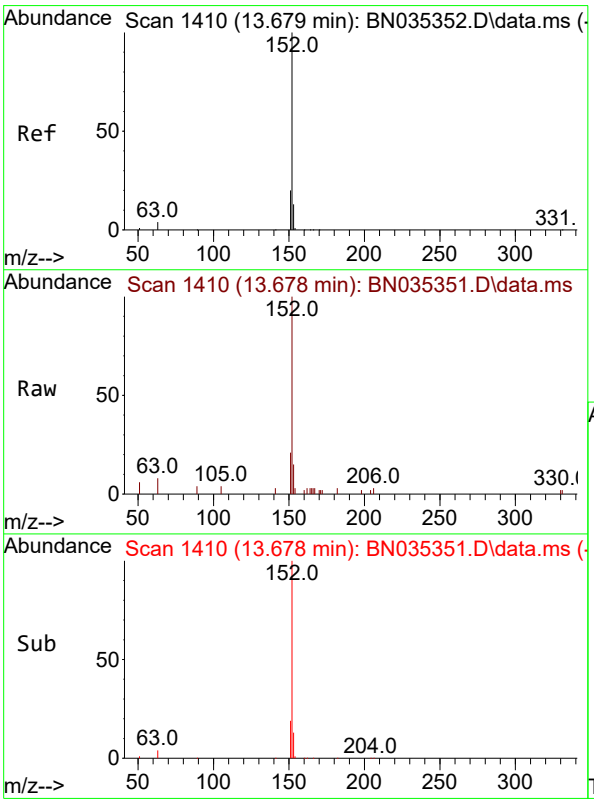
#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2838

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8

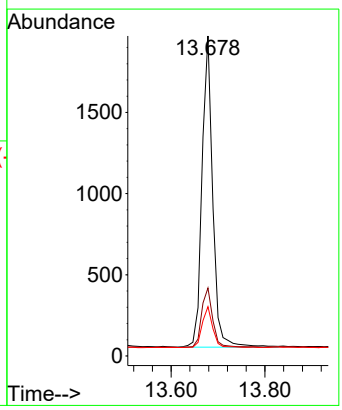


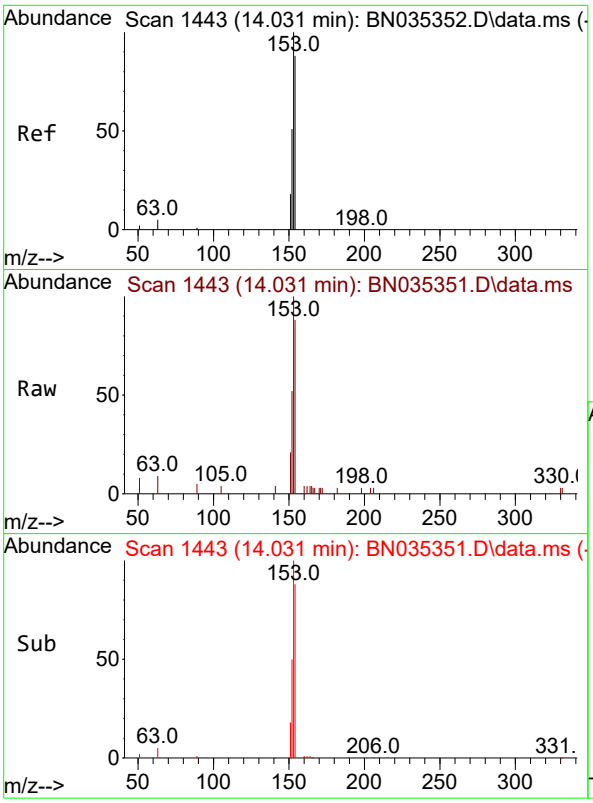


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6



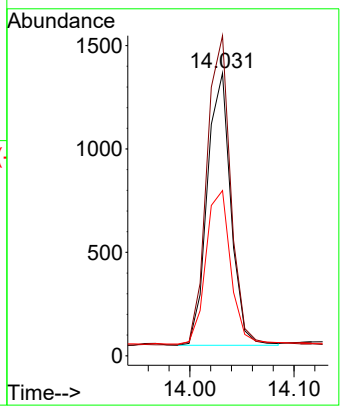


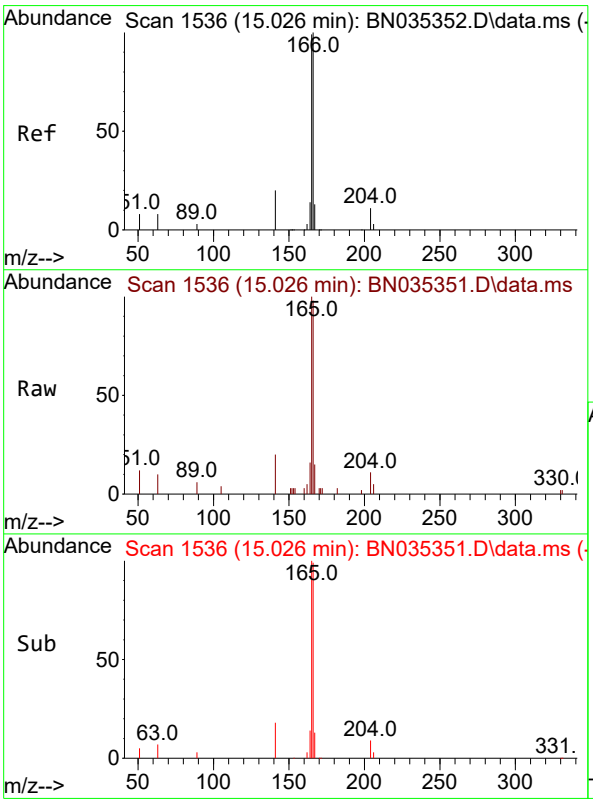
#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2064

Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6

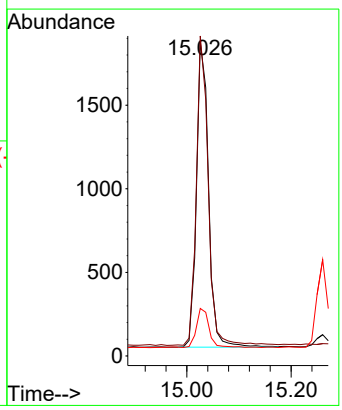


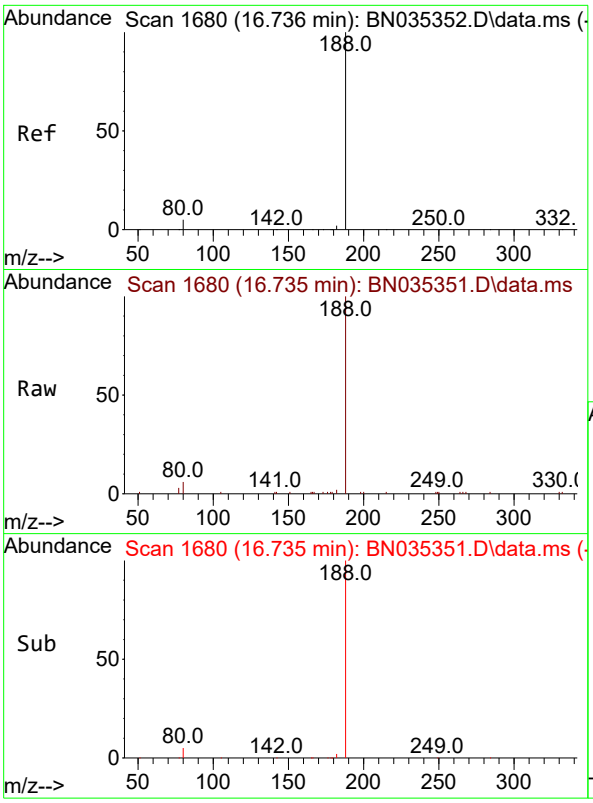


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2



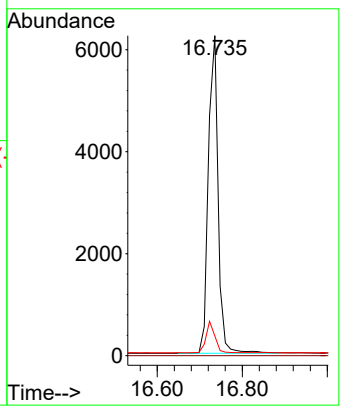


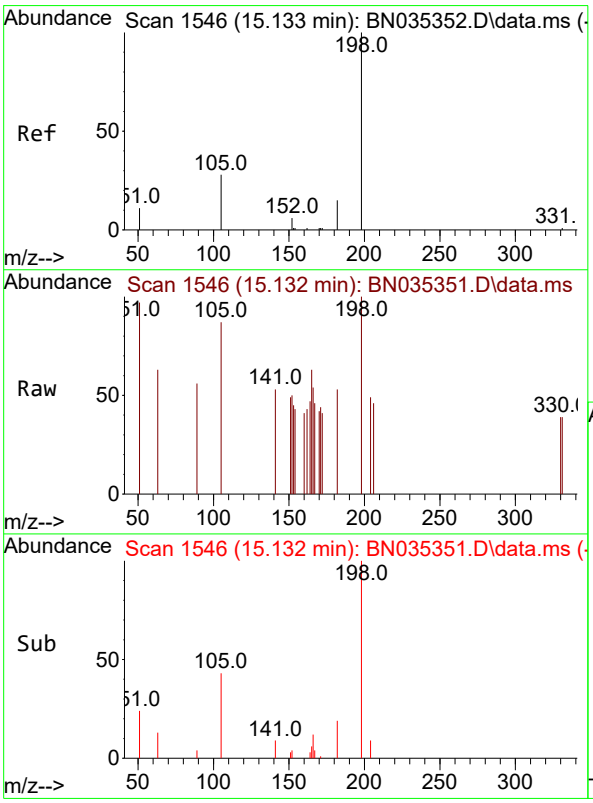
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 9904

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8

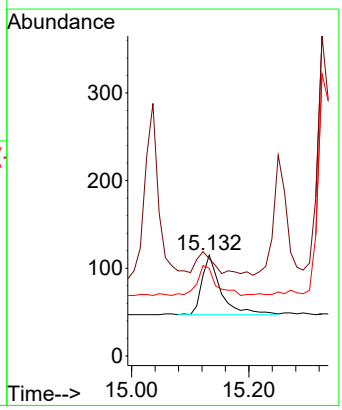


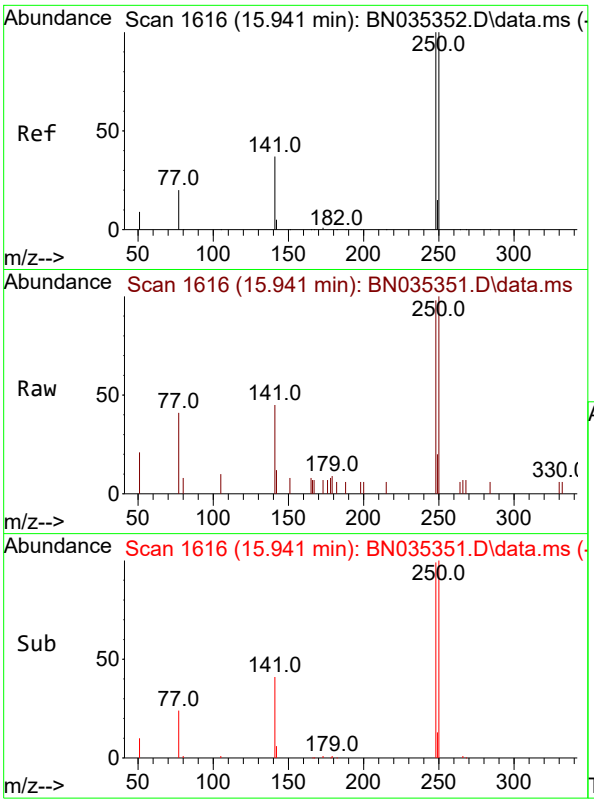


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#



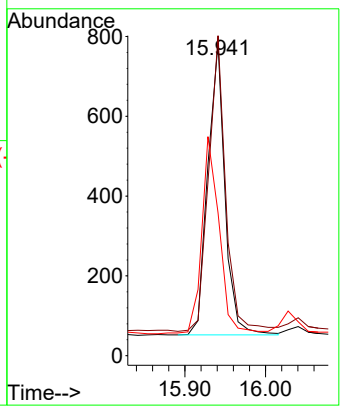


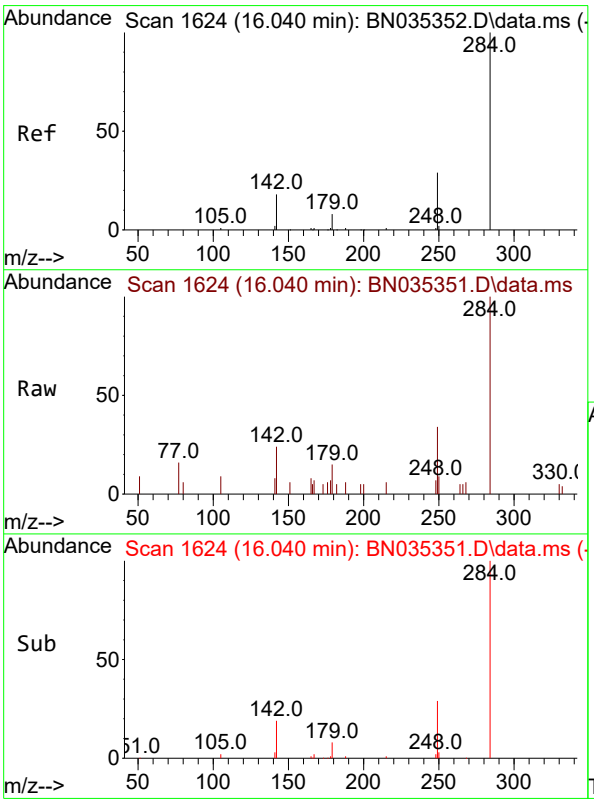
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1081

Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3

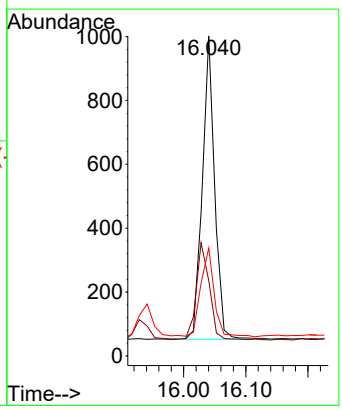


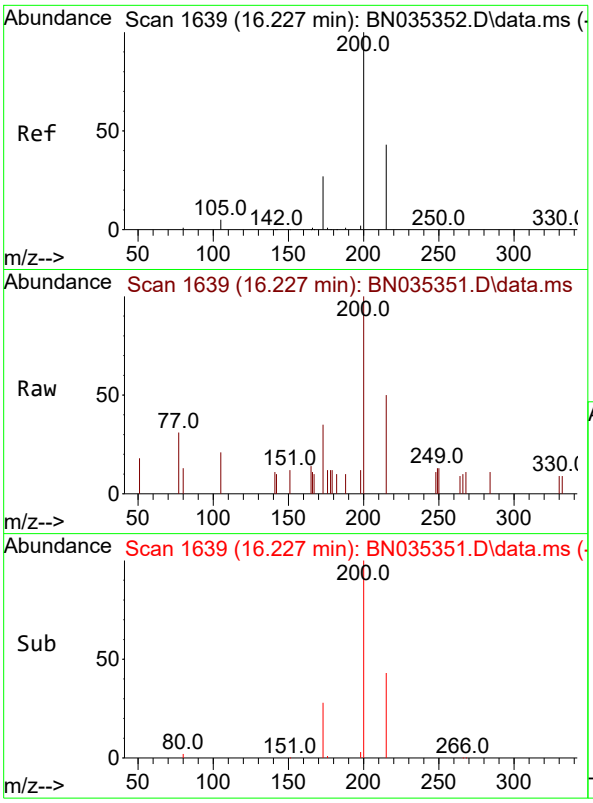


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.7	40.1
249	32.0	24.6	36.8



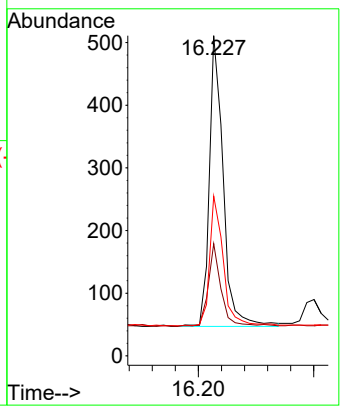


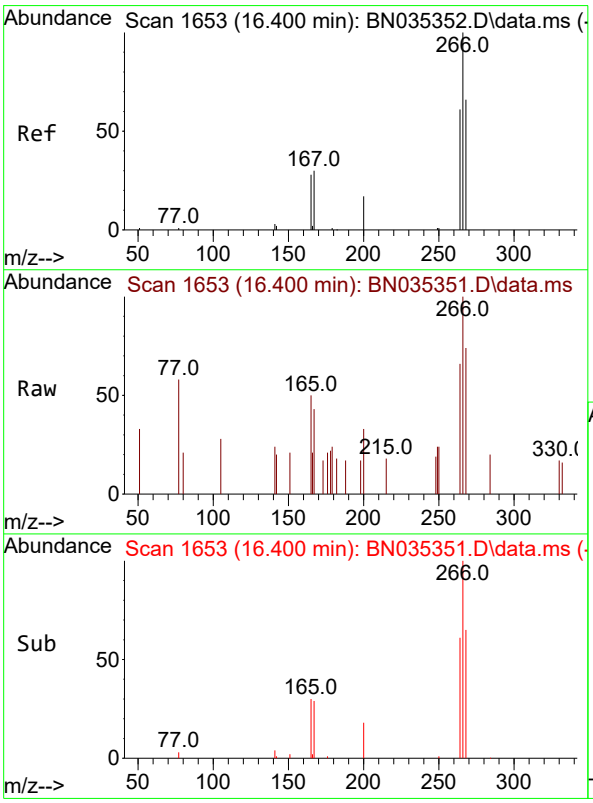
#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 770

Ion	Ratio	Lower	Upper
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3

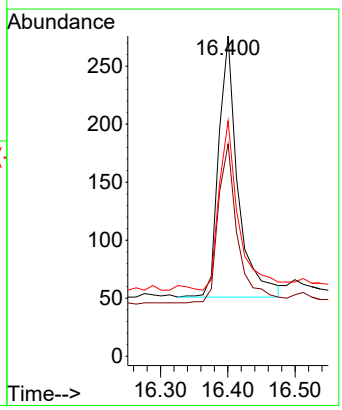


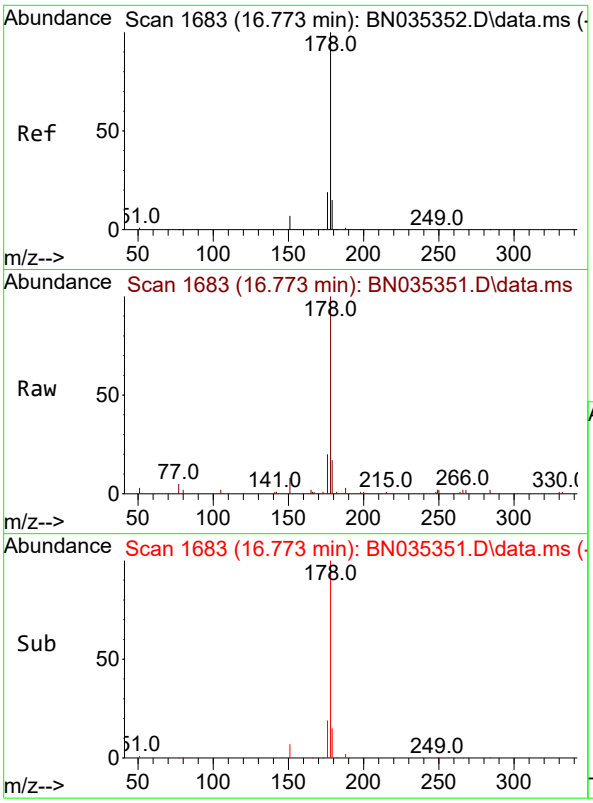


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.2	43.3	64.9#



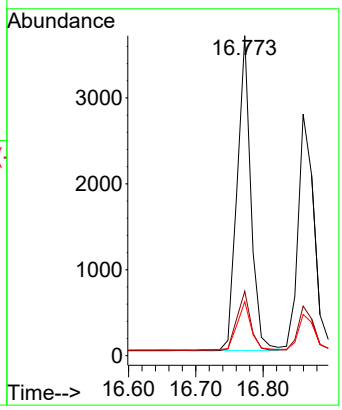


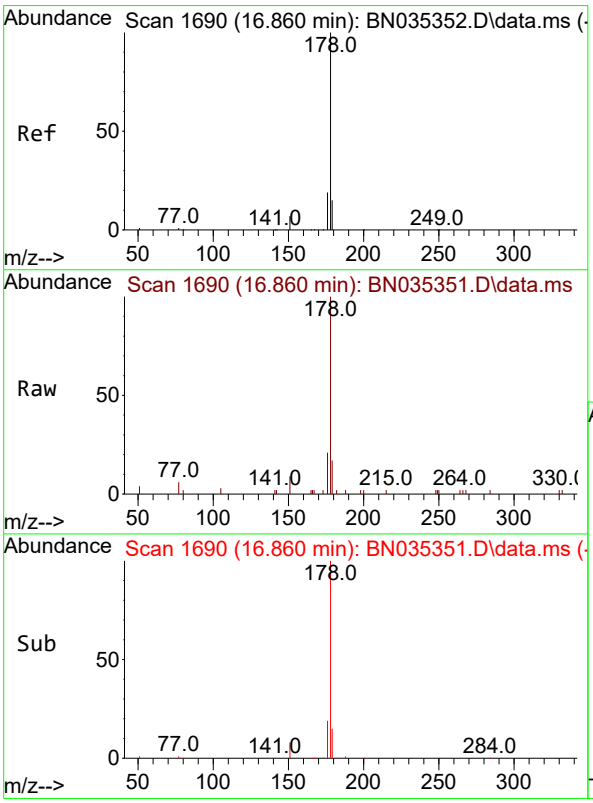
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 5182

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.9	12.3	18.5

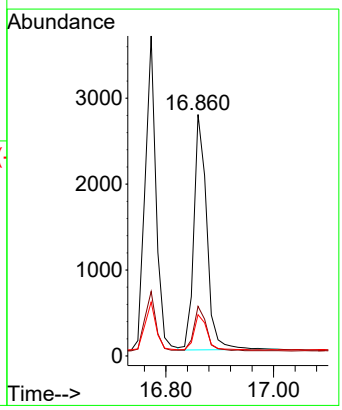


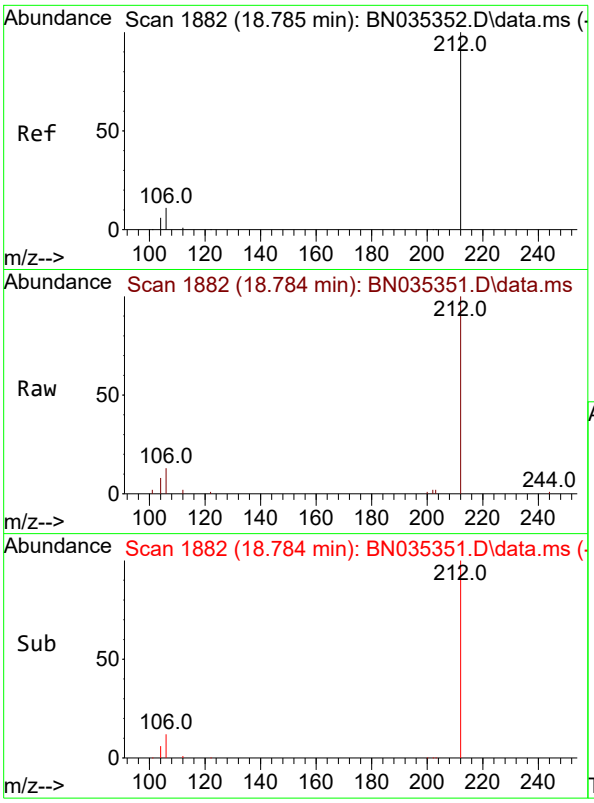


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8



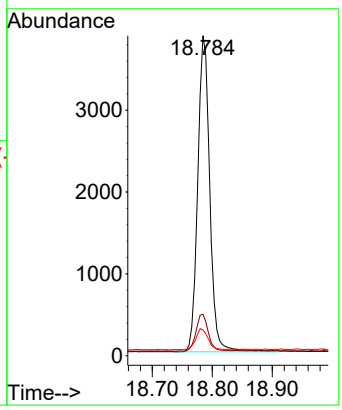


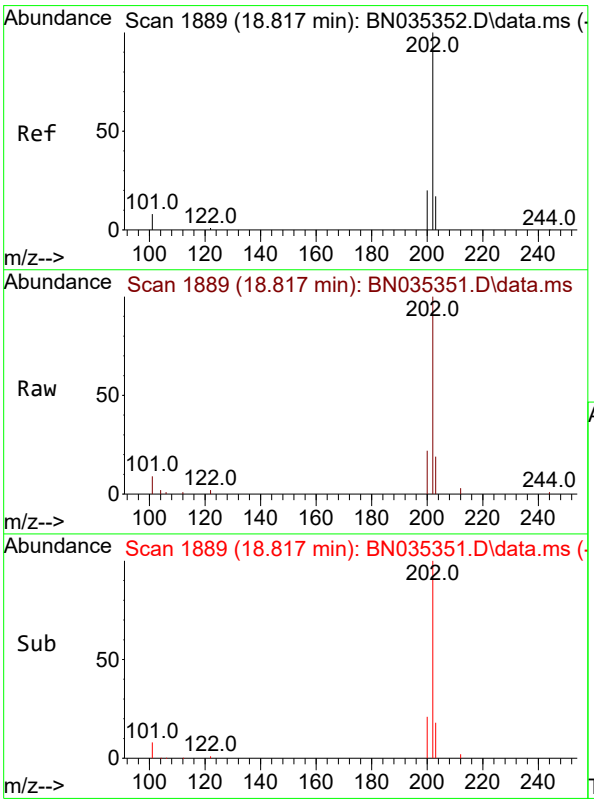
#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 5379

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9

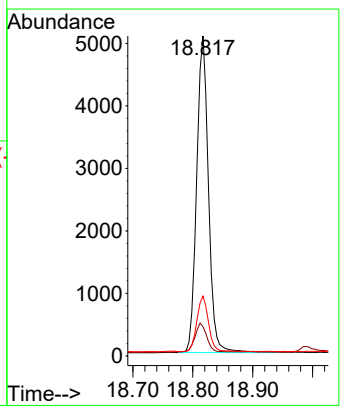


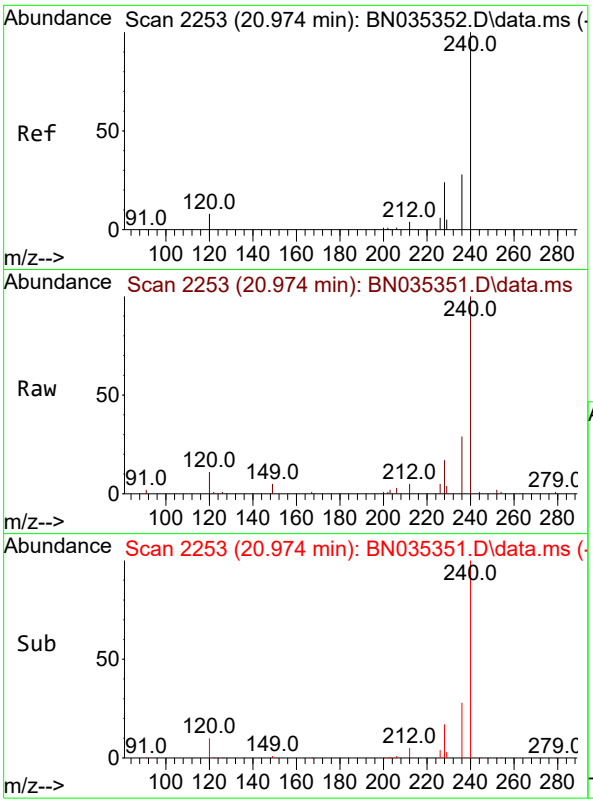


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5



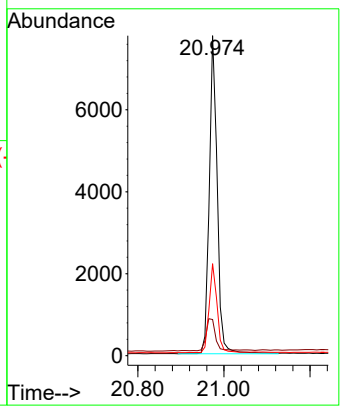


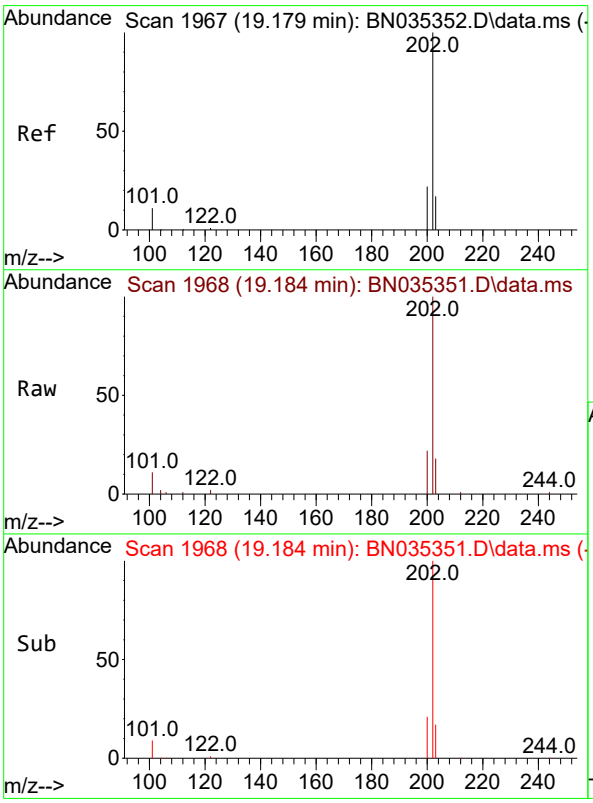
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 9963

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3

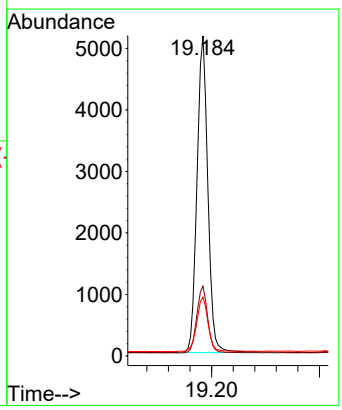


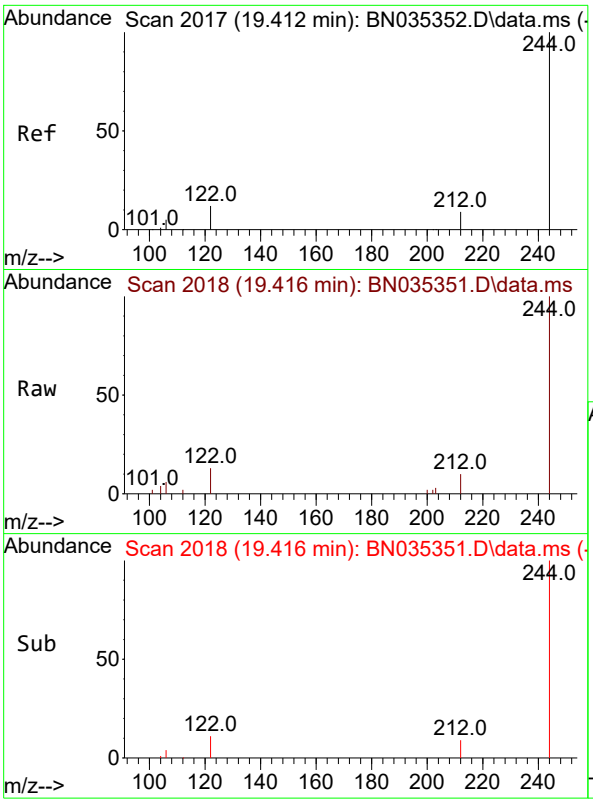


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5



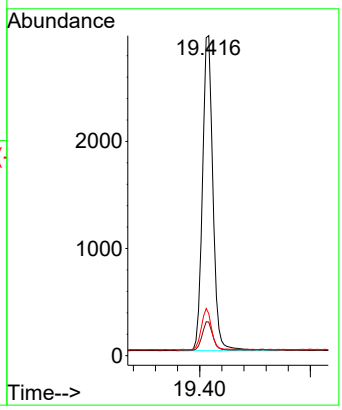


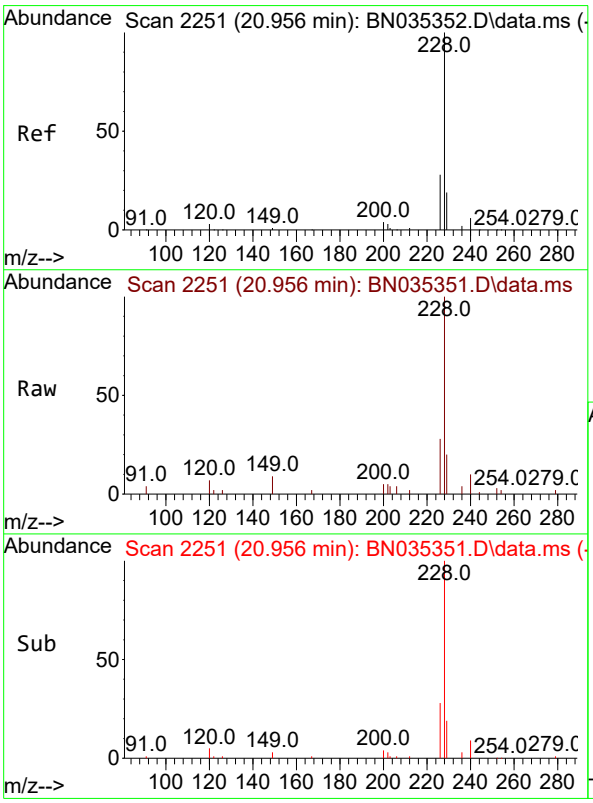
#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 3871

Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5

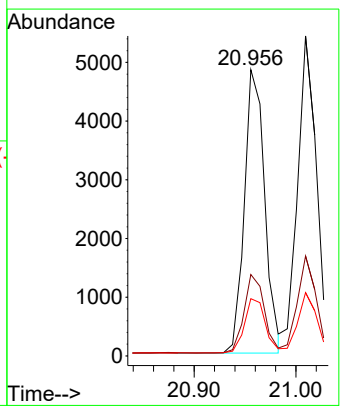


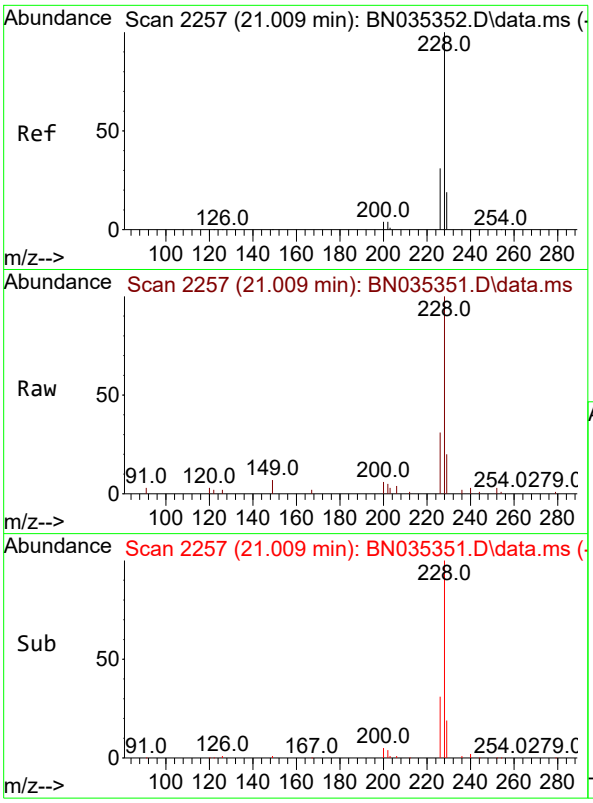


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8



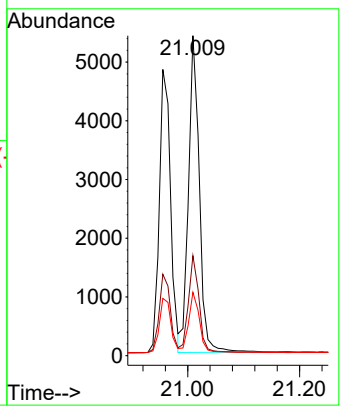


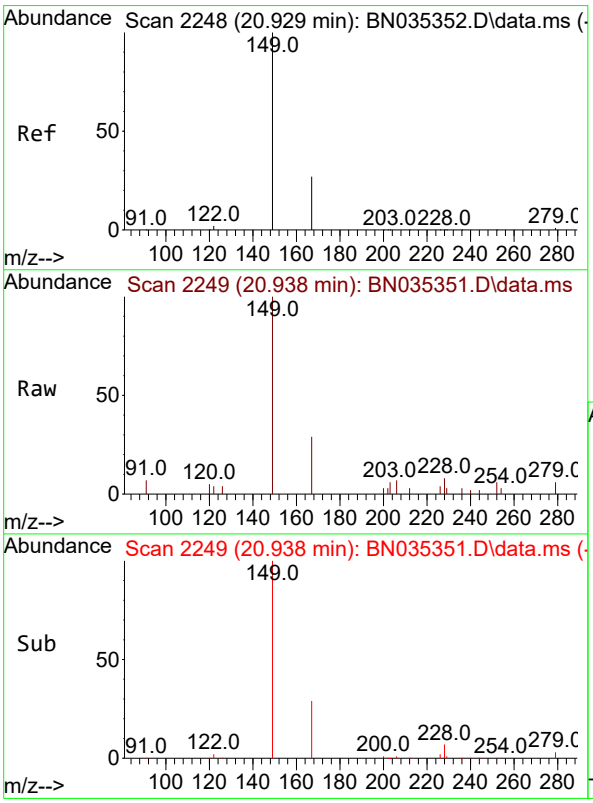
#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 7234

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9

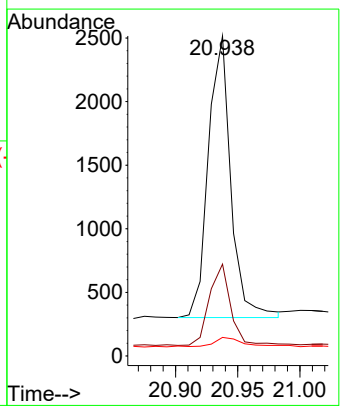


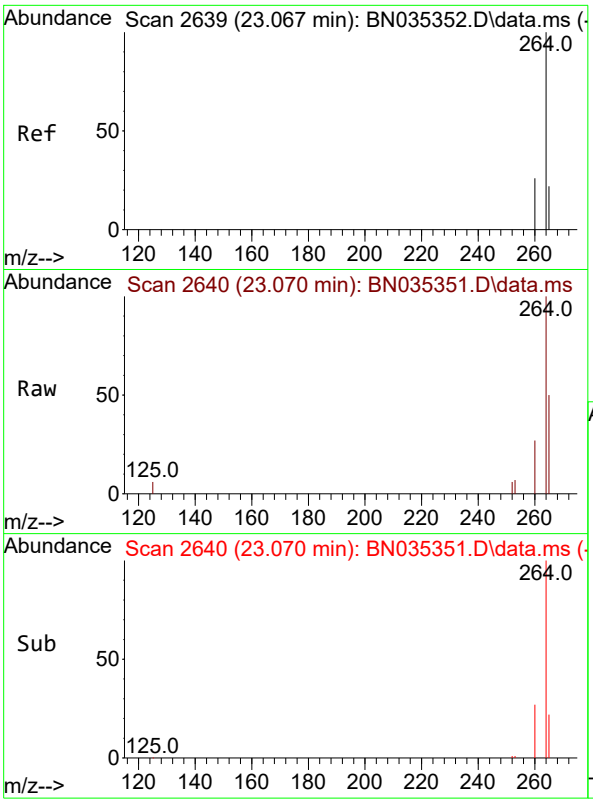


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#



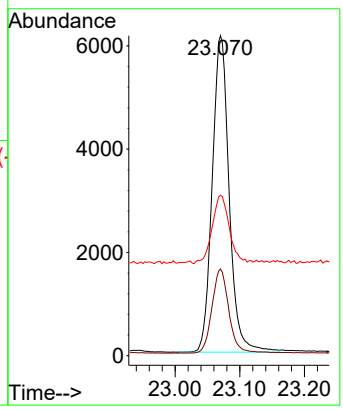


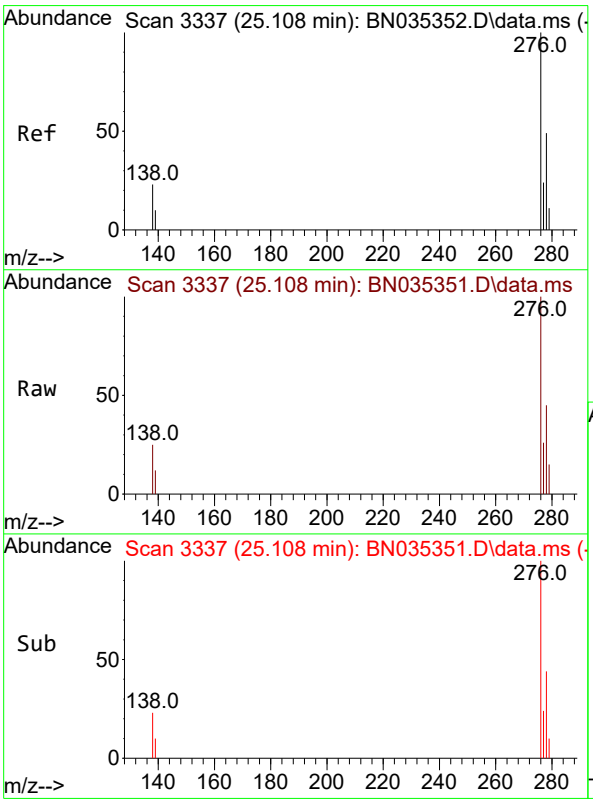
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 11158

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4

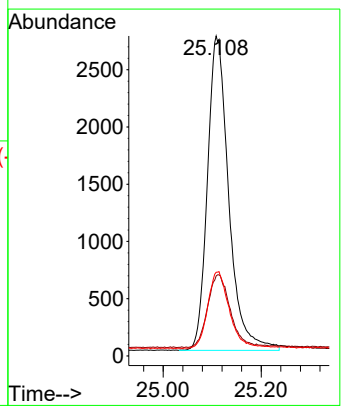


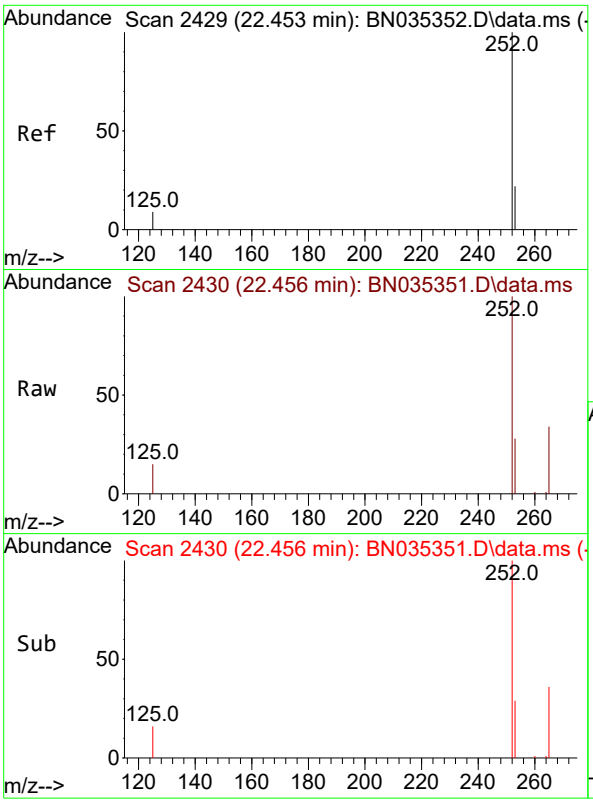


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.4	29.0
277	24.7	19.8	29.6



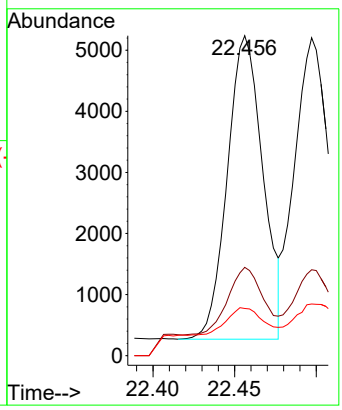


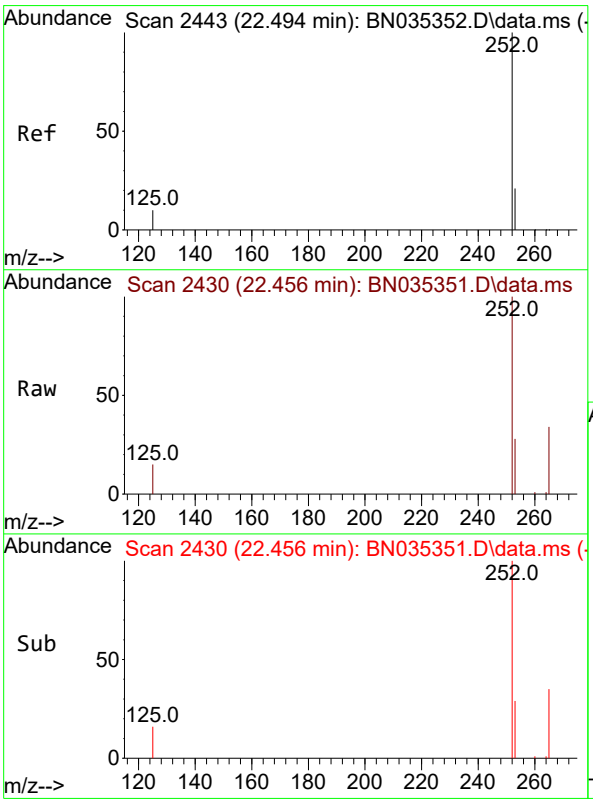
#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#

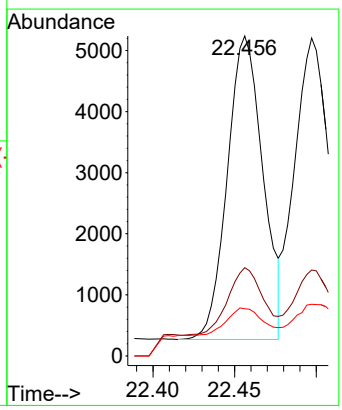


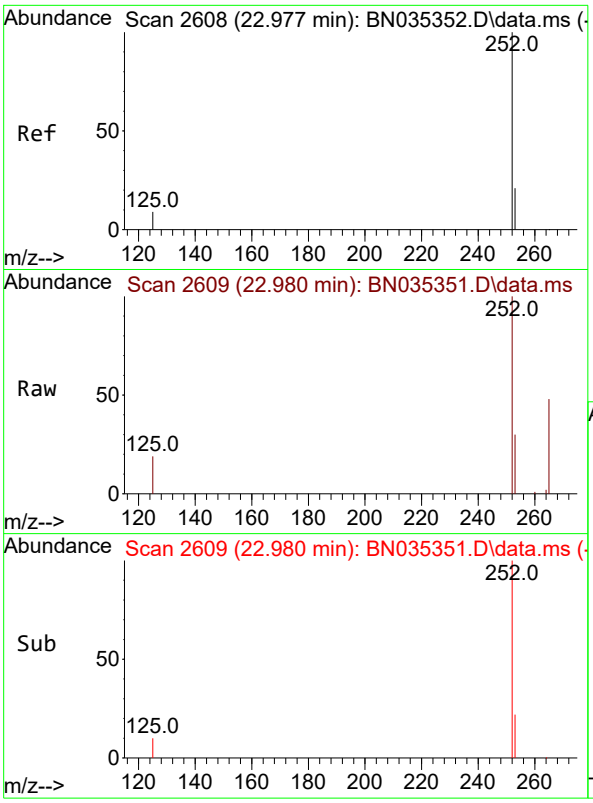


#38
Benzo(k)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.038 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.5	29.3
125	14.8	10.2	15.4



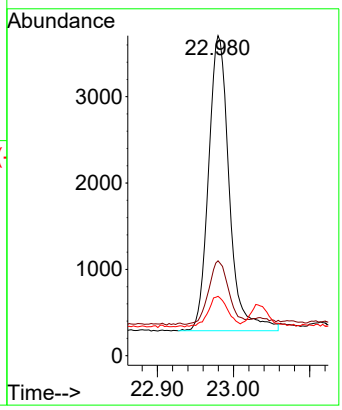


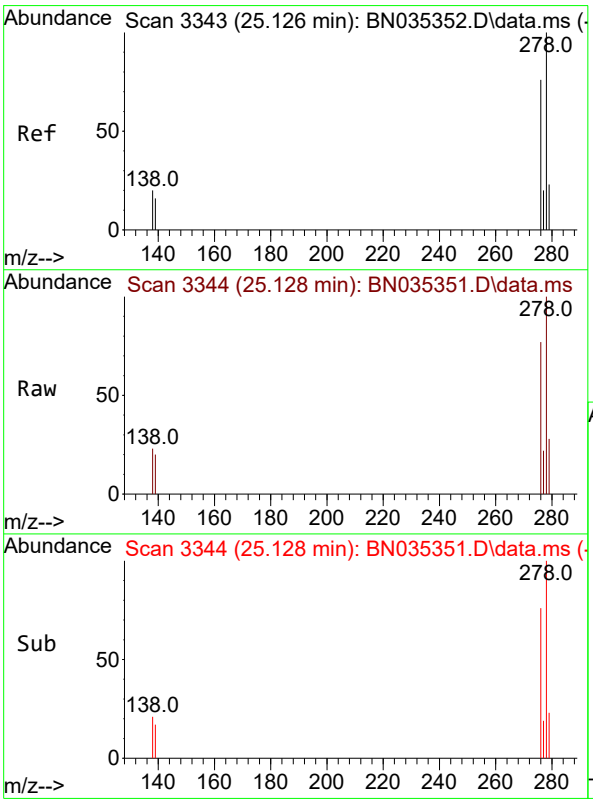
#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6450

Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3#

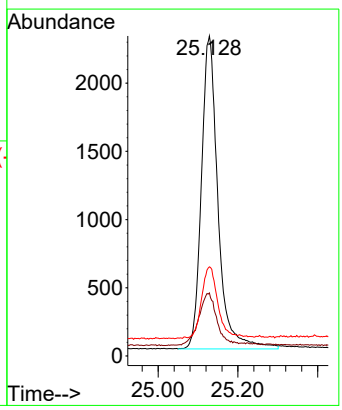


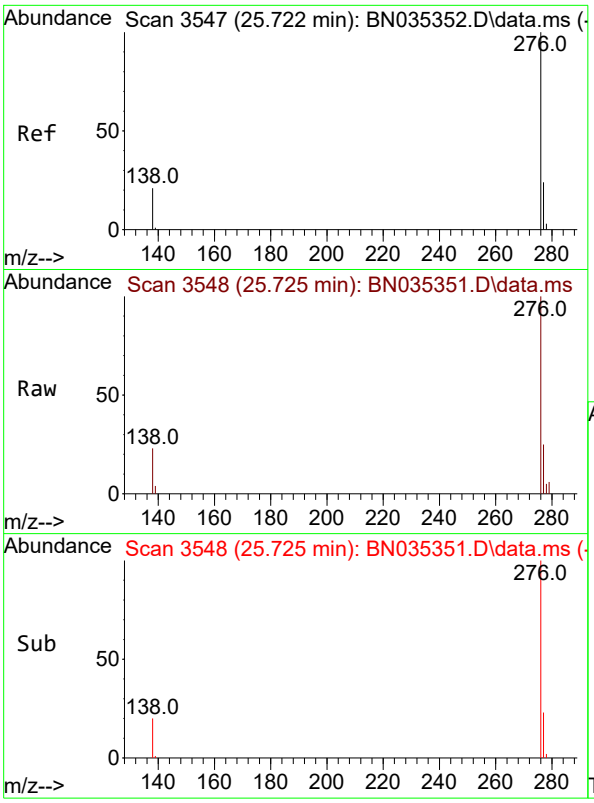


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7



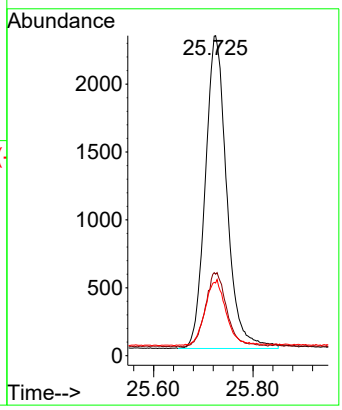


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 6908

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

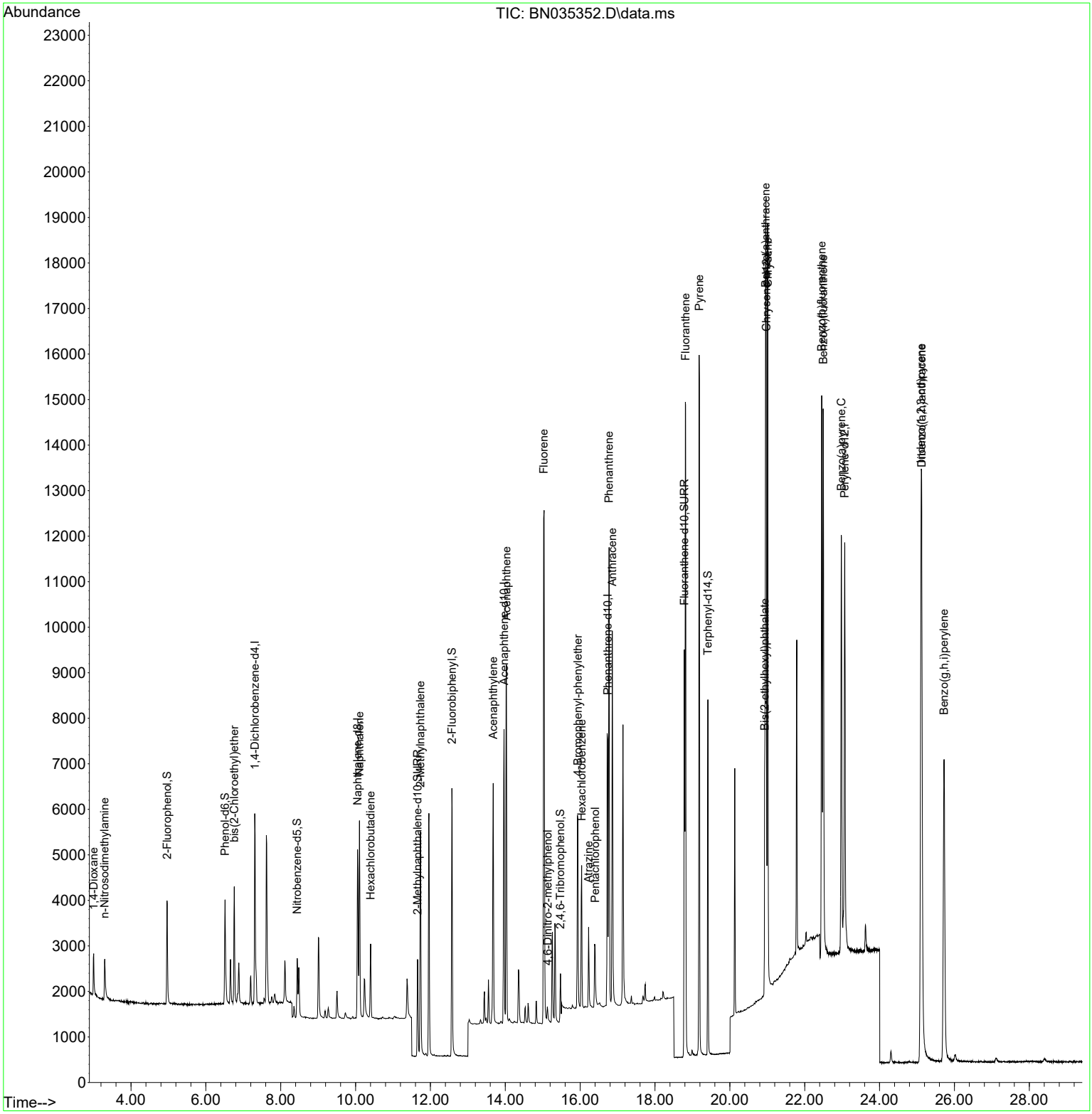
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng		0.00
35) Perylene-d12	23.067	264	10842	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2085	0.401	ng		0.00
5) Phenol-d6	6.513	99	2444	0.375	ng		0.00
8) Nitrobenzene-d5	8.440	82	1371	0.301	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng		0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng		0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng		100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng		100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng		100
9) Naphthalene	10.105	128	5475	0.401	ng		100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng		100
16) Acenaphthylene	13.679	152	6058	0.373	ng		100
17) Acenaphthene	14.031	154	4125	0.388	ng		100
18) Fluorene	15.026	166	5863	0.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng		100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng		100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng		100
23) Atrazine	16.227	200	1461	0.269	ng		100
24) Pentachlorophenol	16.400	266	906	0.309	ng		87
25) Phenanthrene	16.773	178	10127	0.405	ng		100
26) Anthracene	16.860	178	8921	0.389	ng		100
28) Fluoranthene	18.817	202	13438	0.391	ng		100
30) Pyrene	19.179	202	14053	0.443	ng		100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng		100
33) Chrysene	21.009	228	13729	0.418	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng		100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng		100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng		100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng		100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng		100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng		100

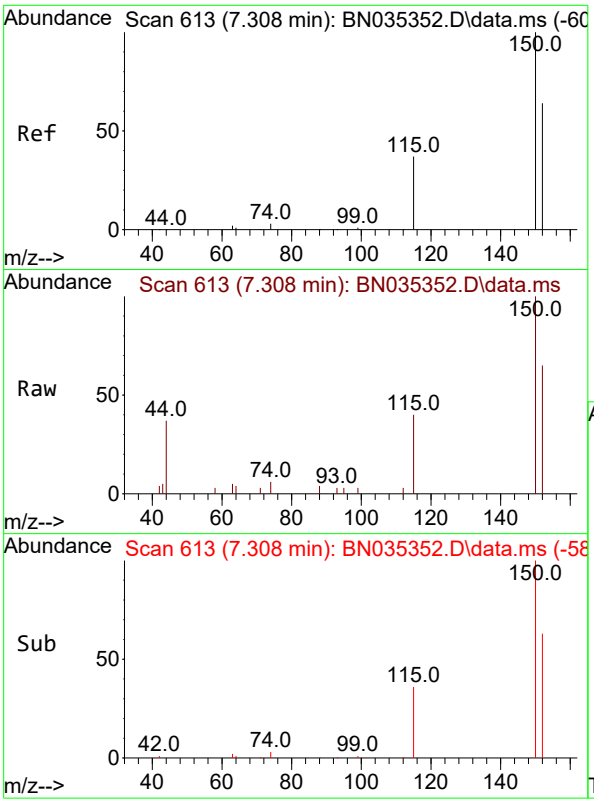
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



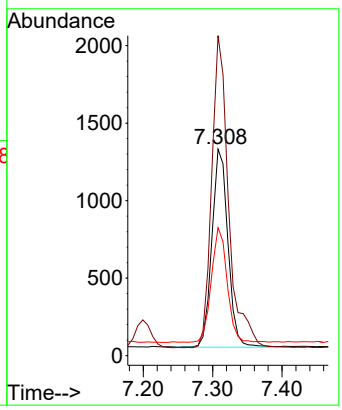


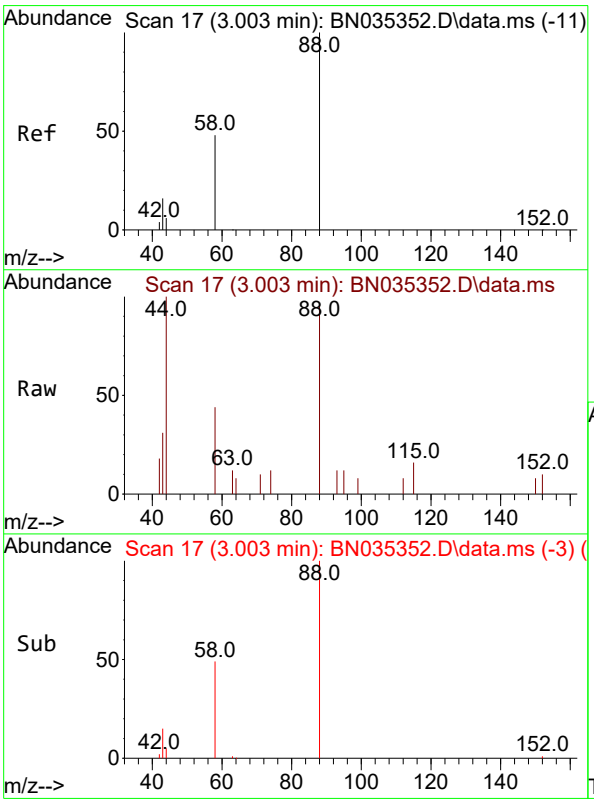
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2048

Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4

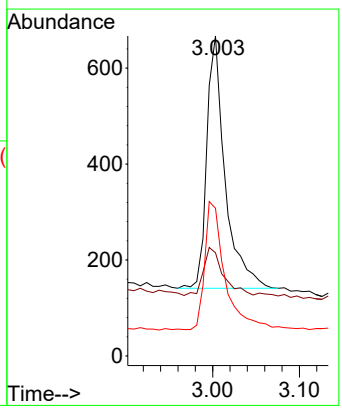


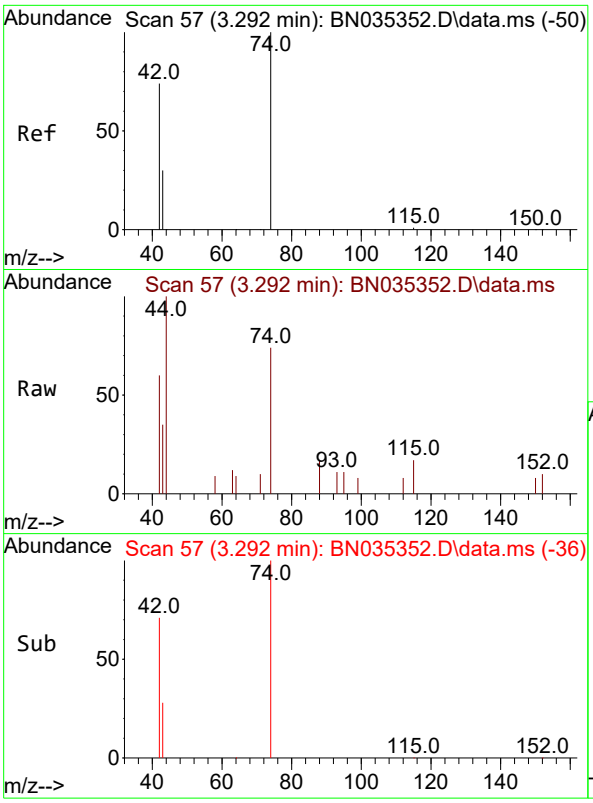


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	55.6	44.5	66.7



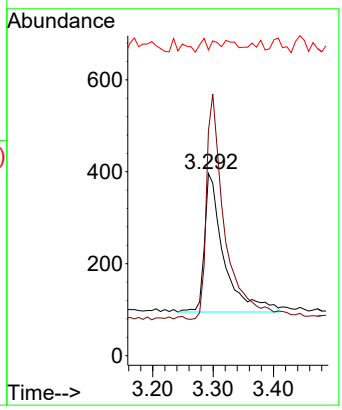


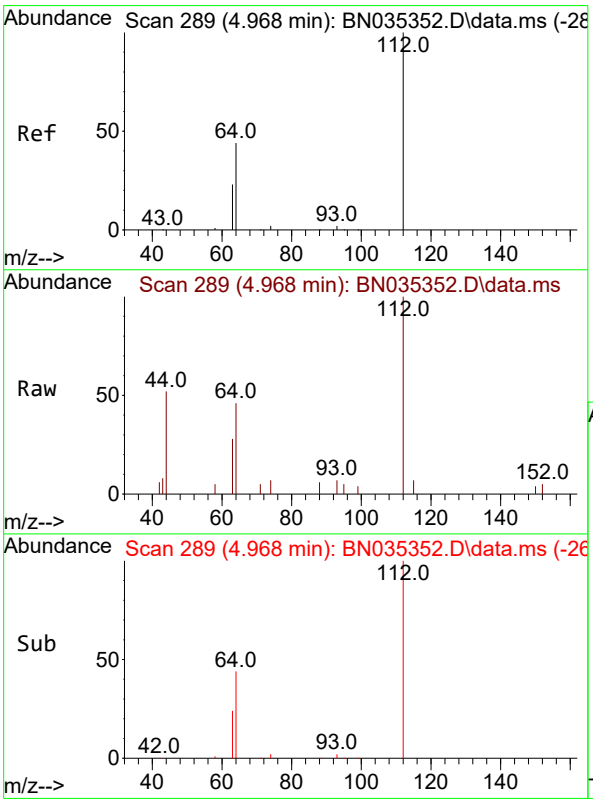
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 668

Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4

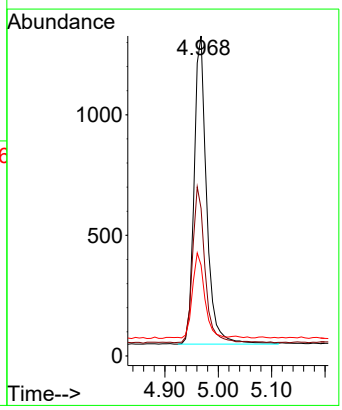


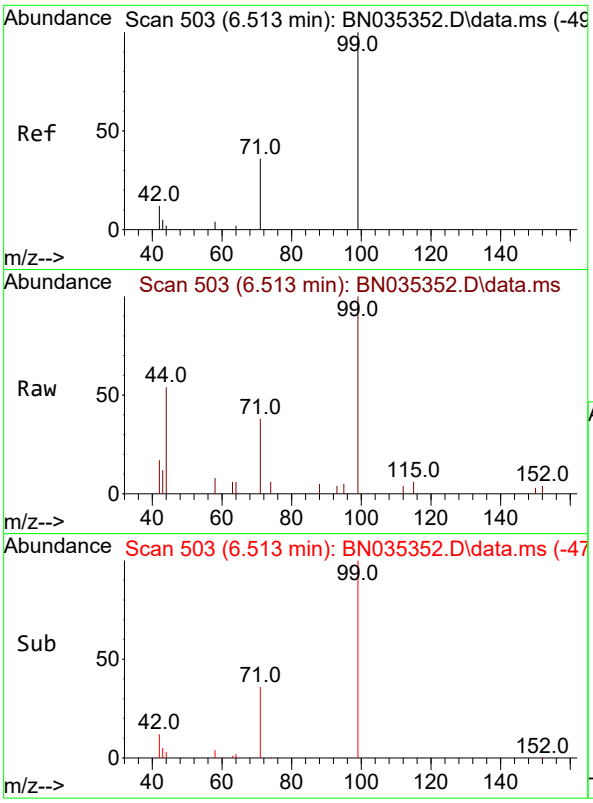


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.8	59.8
63	26.3	21.0	31.6



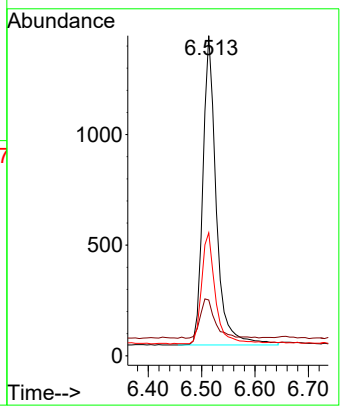


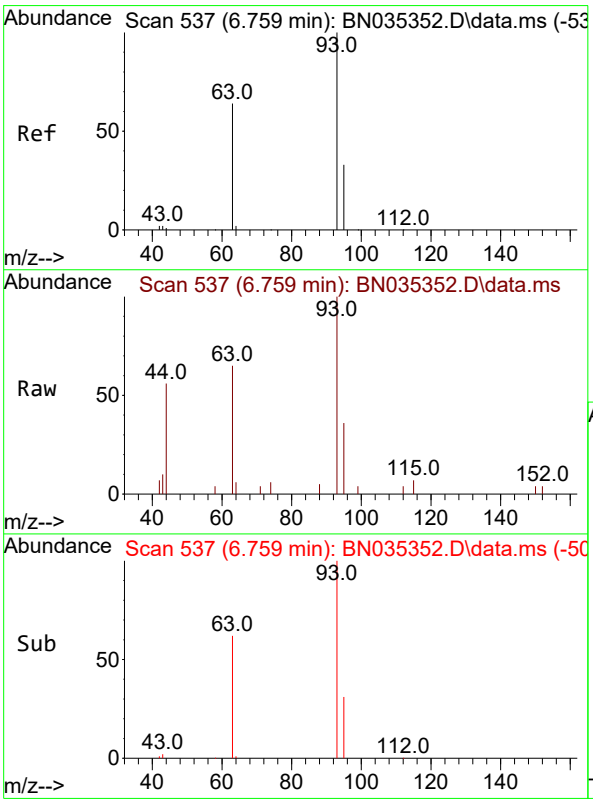
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2444

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9

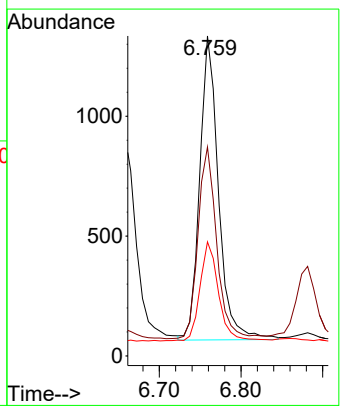


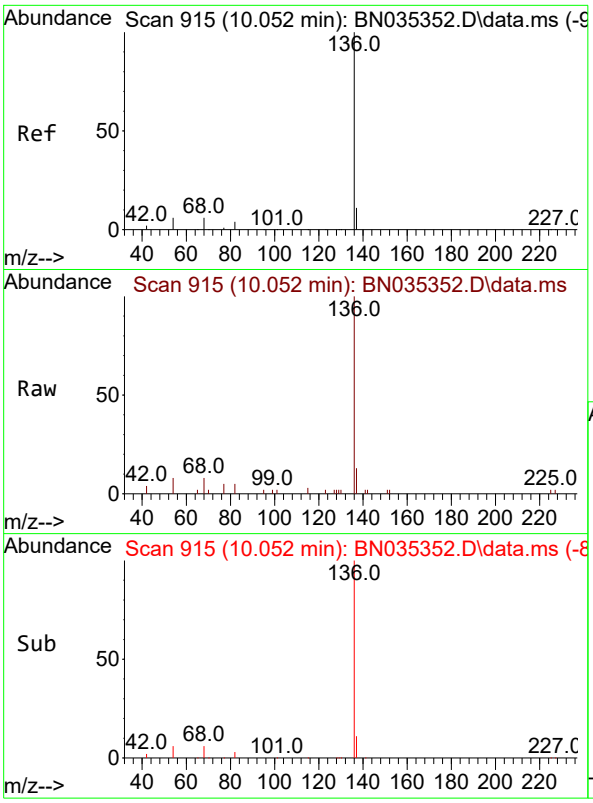


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5



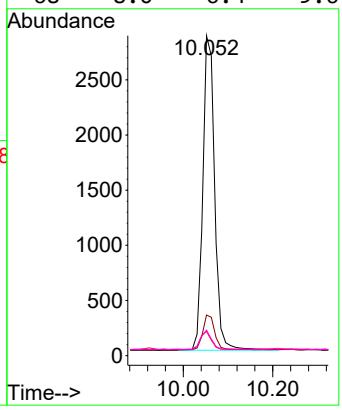


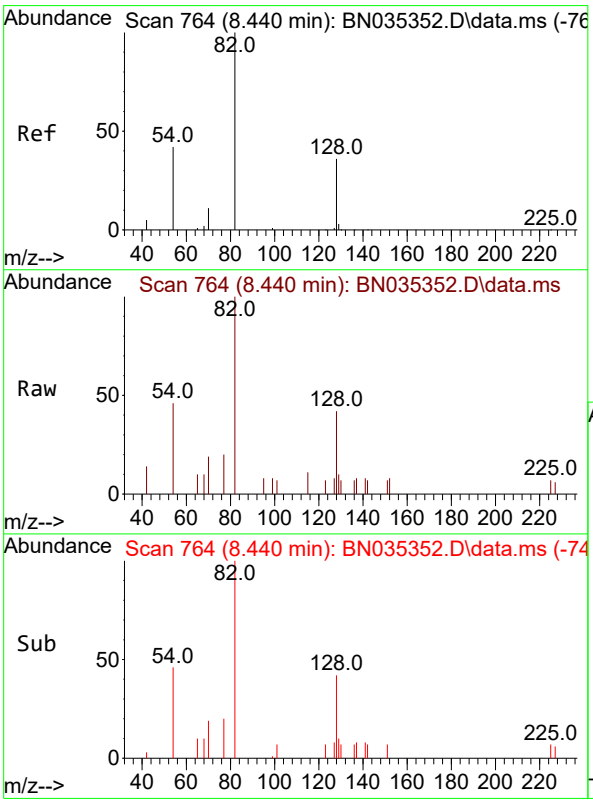
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5229

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6

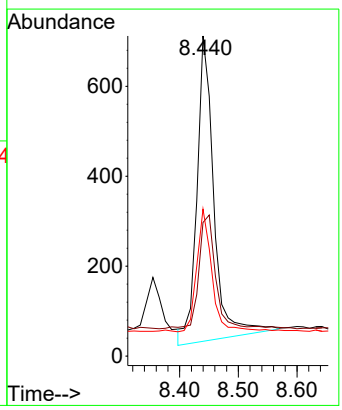


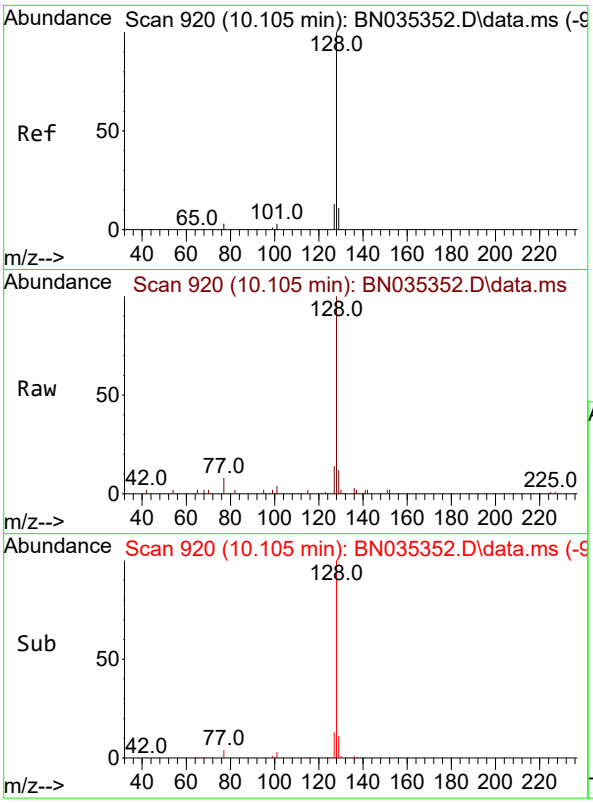


#8
Nitrobenzene-d5
Concen: 0.301 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1371

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1



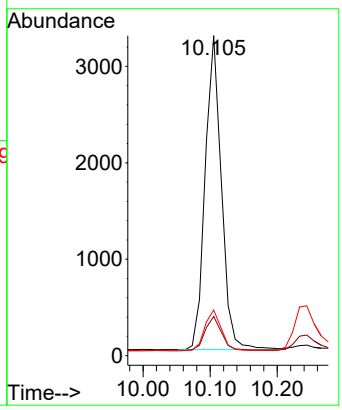


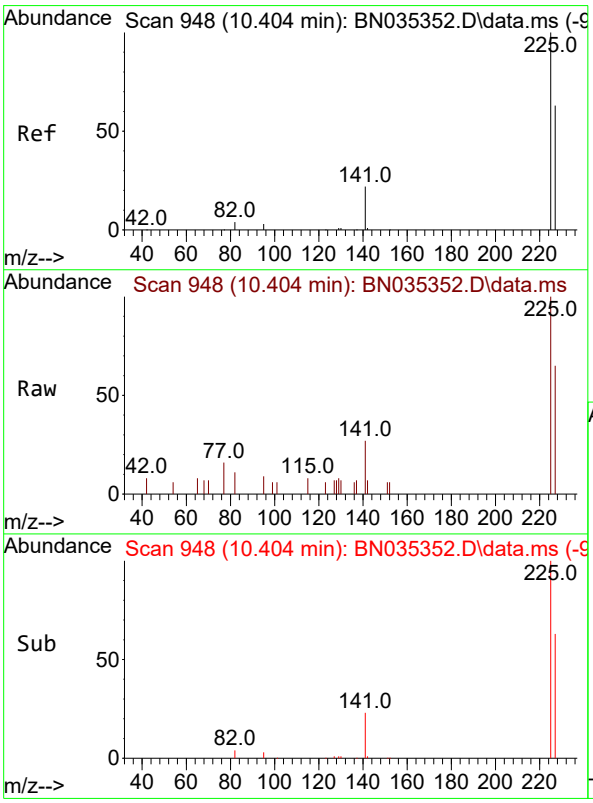
#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 5475

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

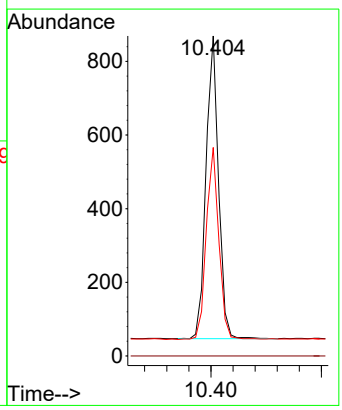


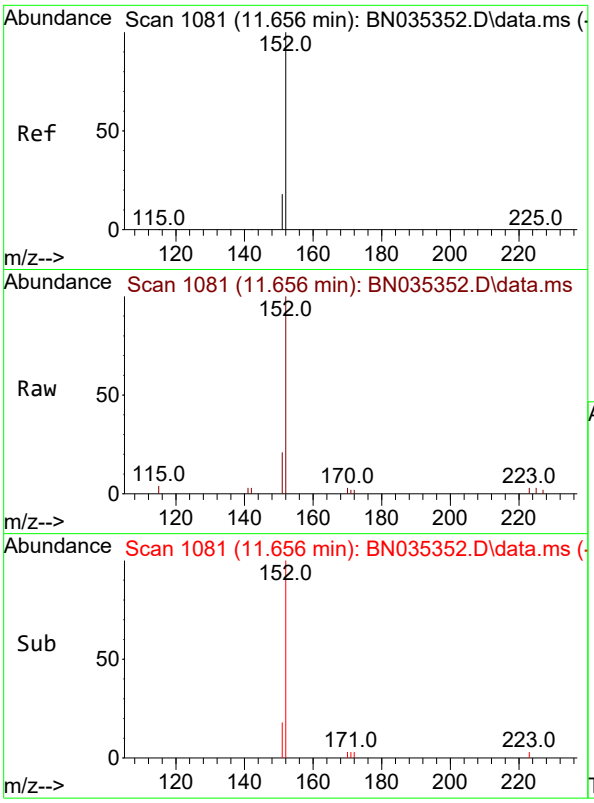


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



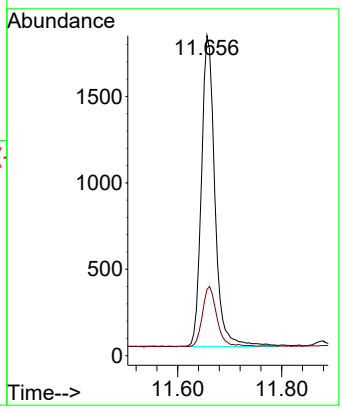


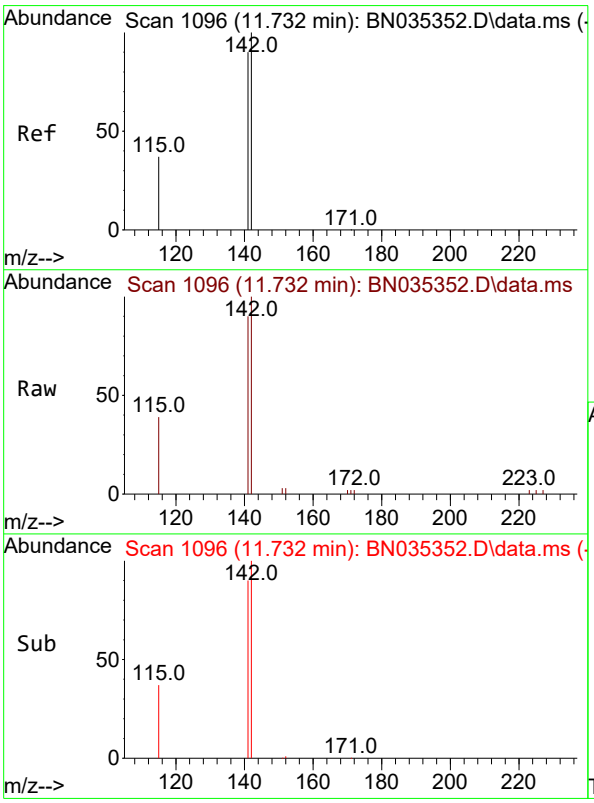
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3237

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

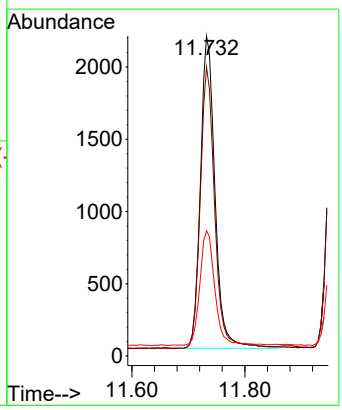


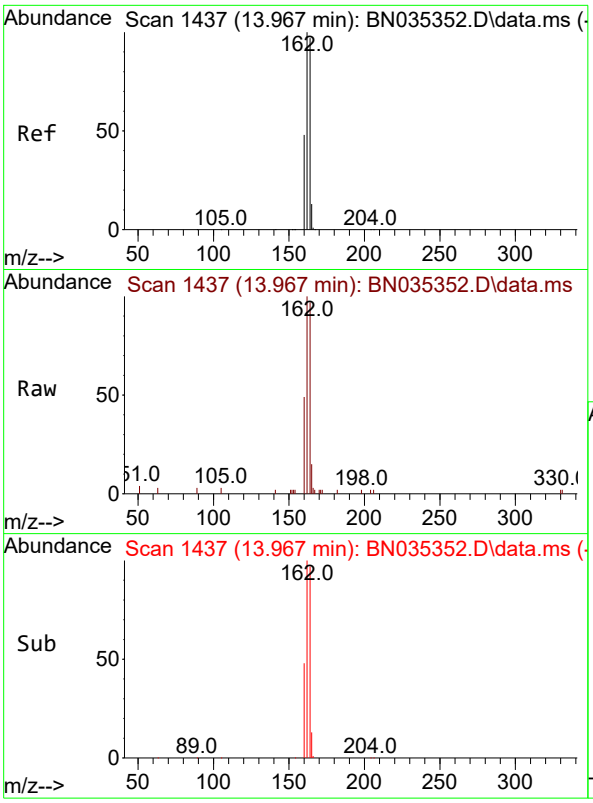


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.2	31.4	47.0



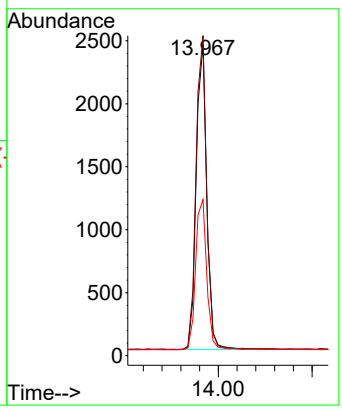


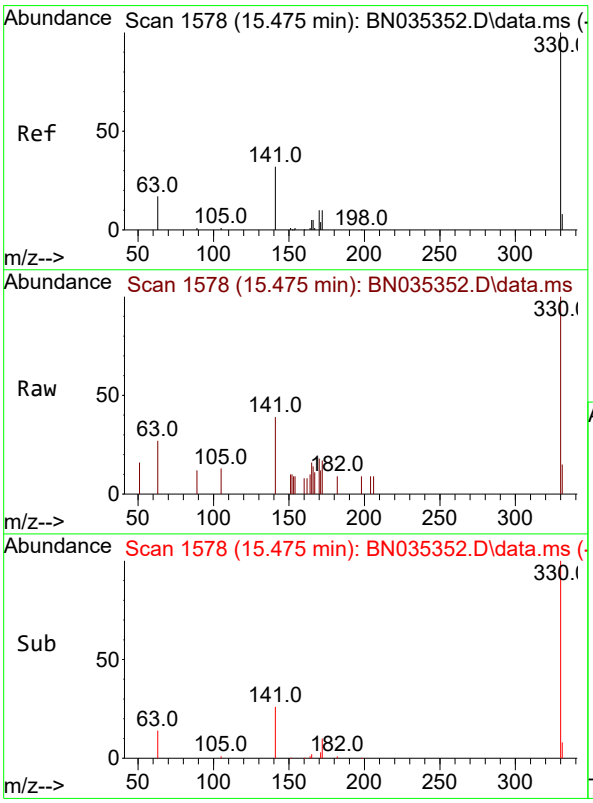
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3799

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.1	40.1	60.1

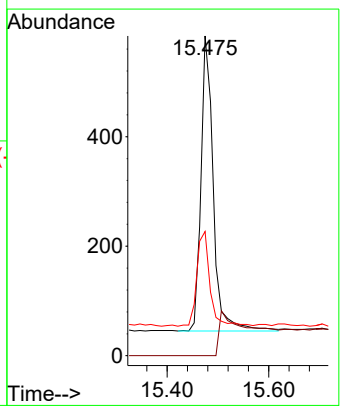


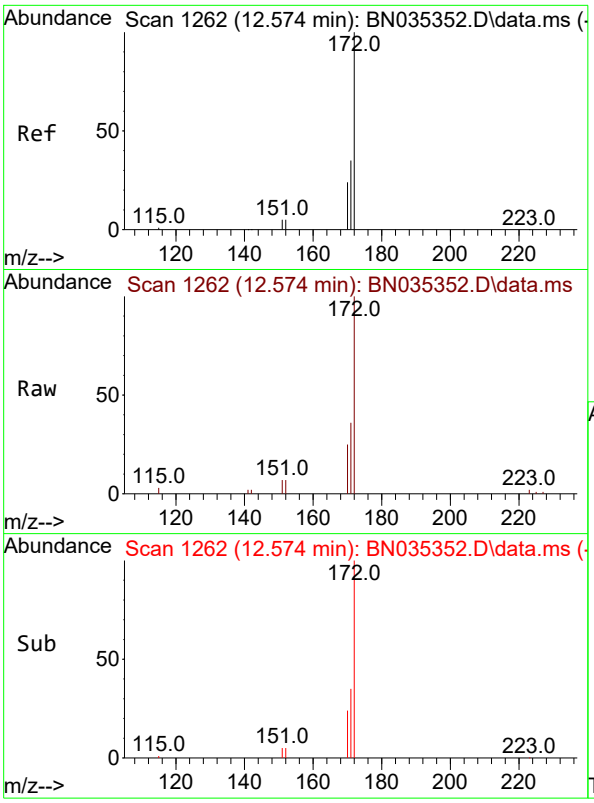


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0



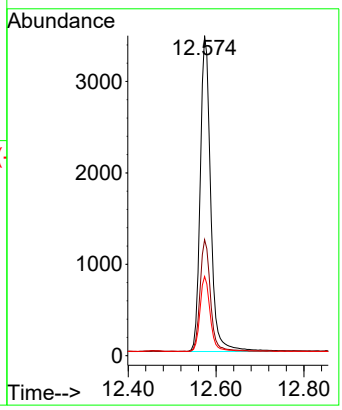


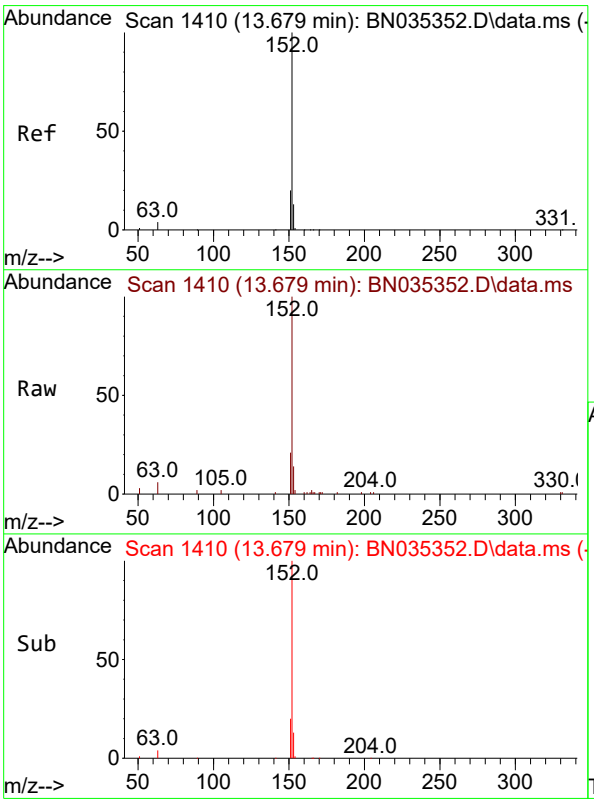
#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 5735

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8

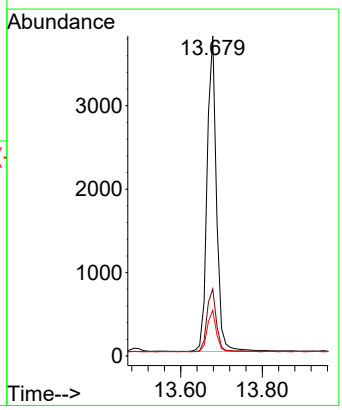


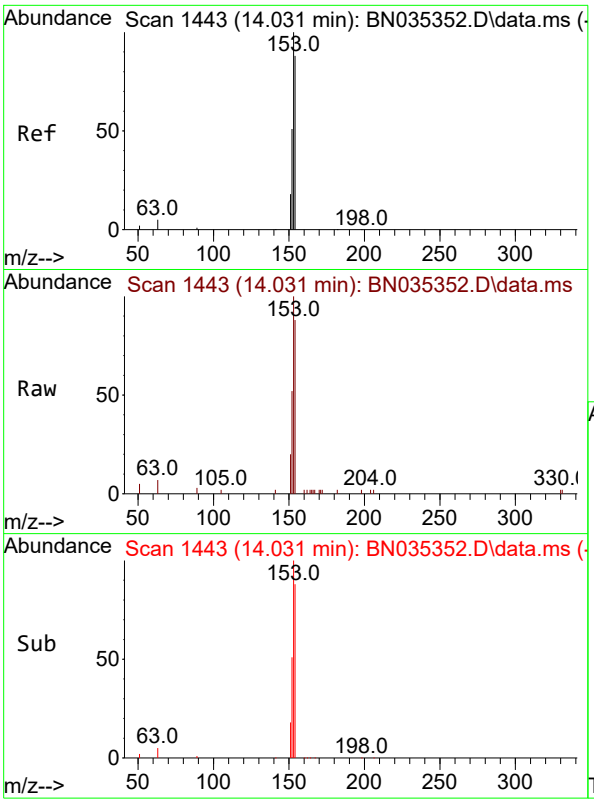


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6



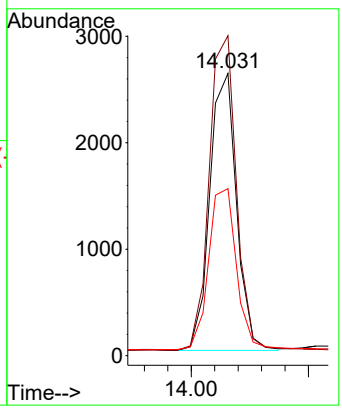


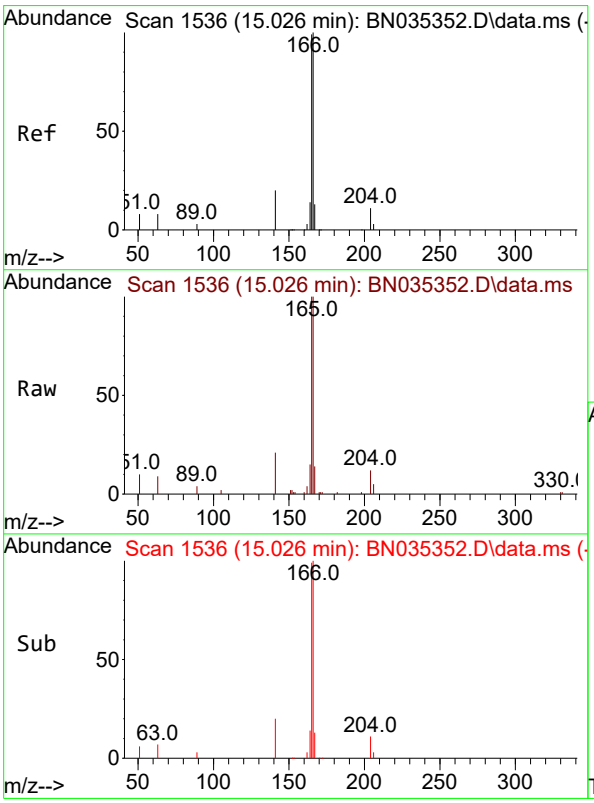
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 4125

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6

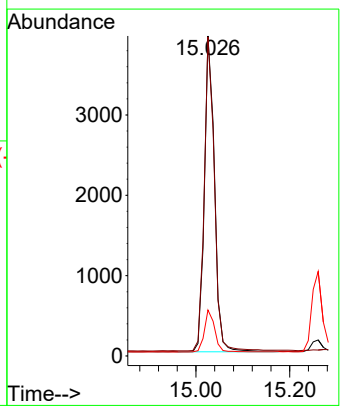


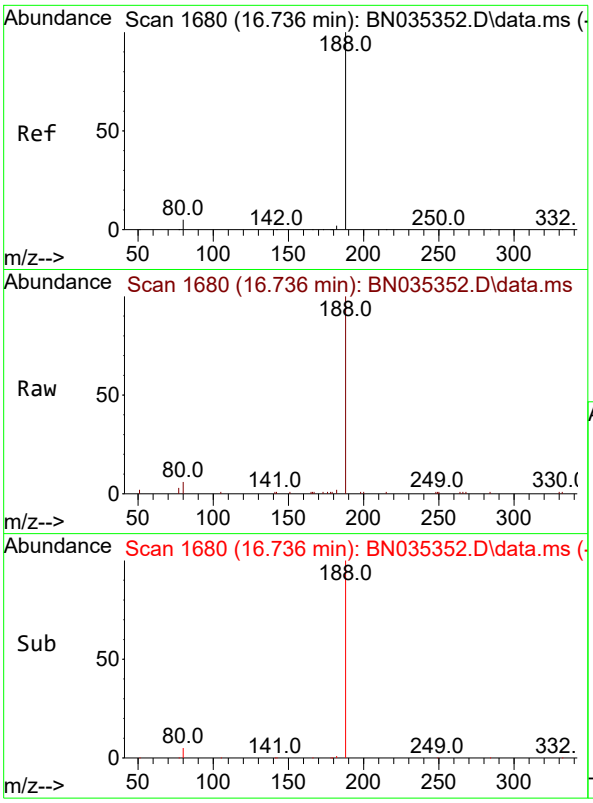


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.5	10.8	16.2



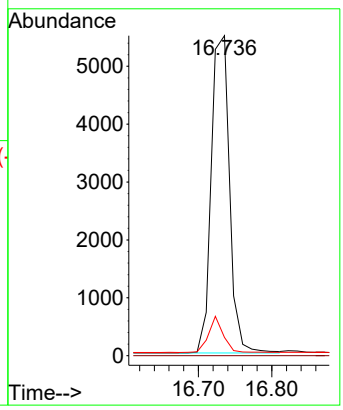


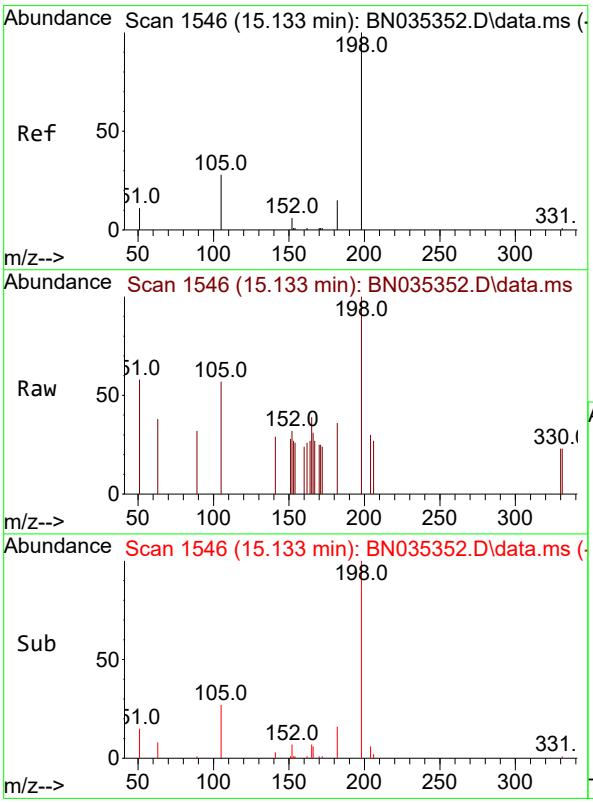
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 9490

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8

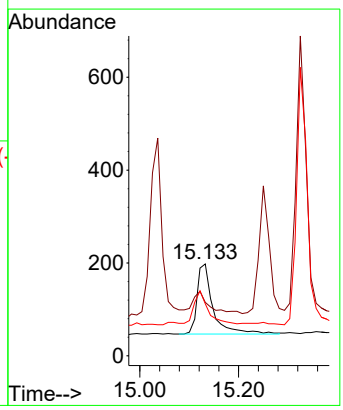


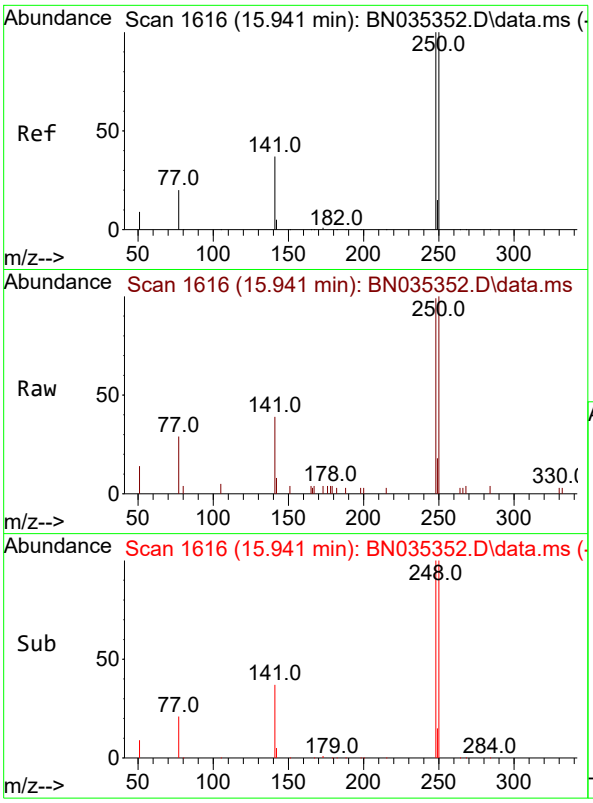


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9



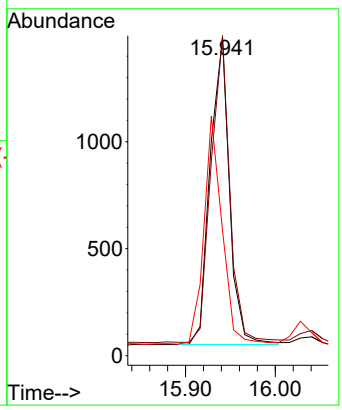


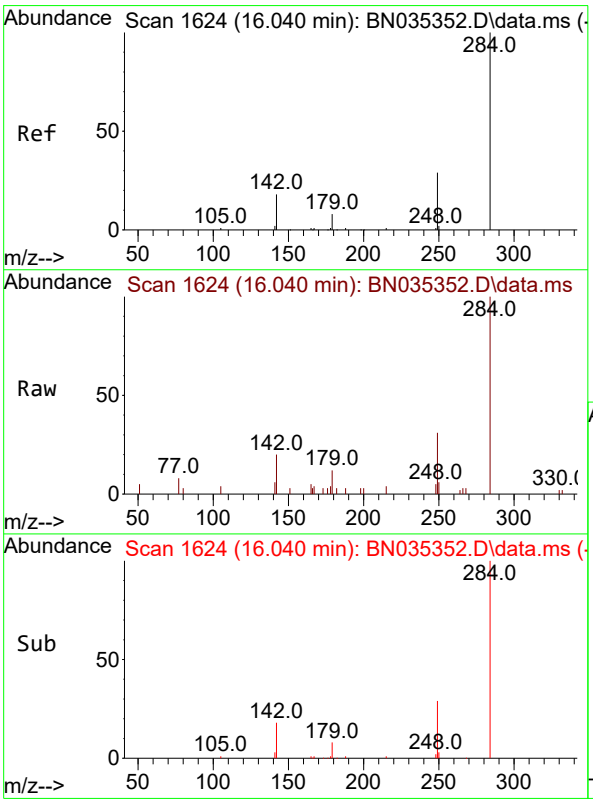
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2146

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3

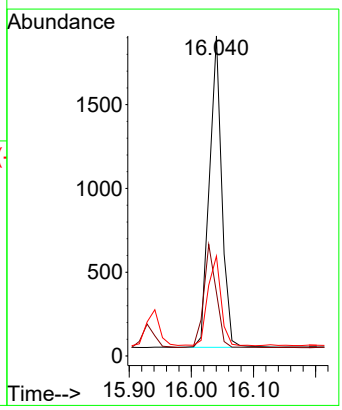


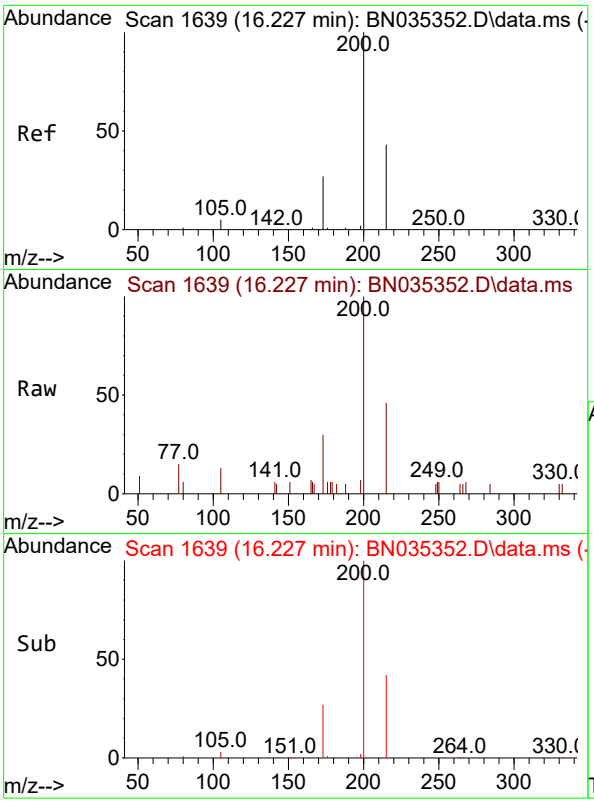


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8



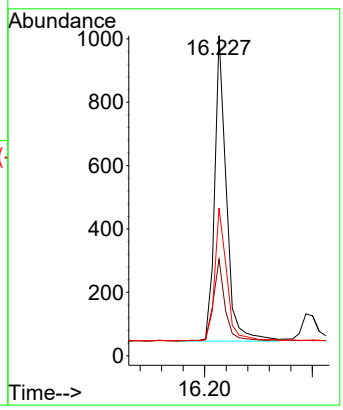


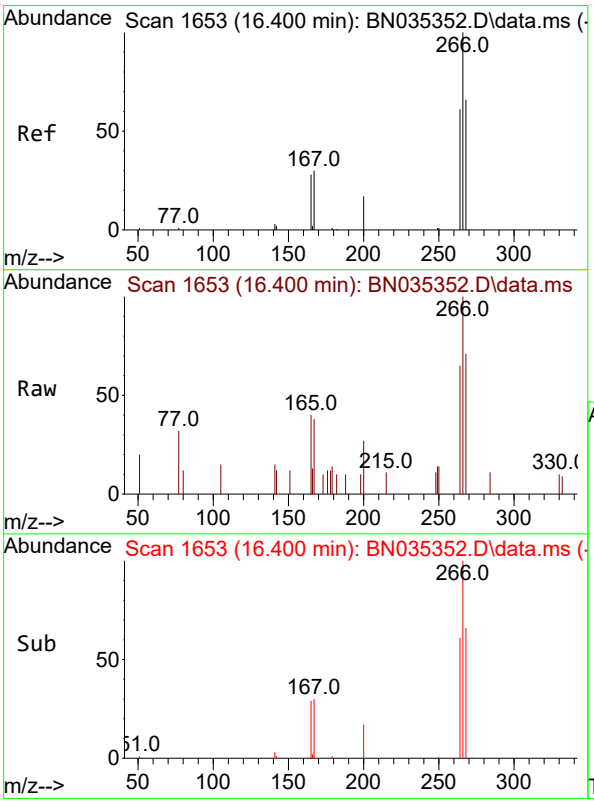
#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1461

Ion	Ratio	Lower	Upper
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3

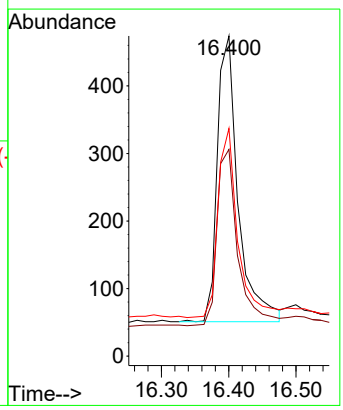


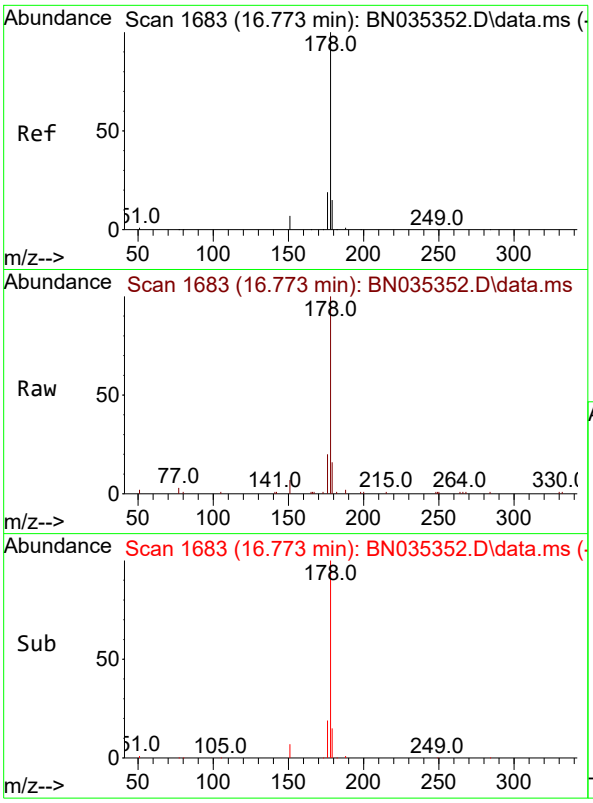


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9



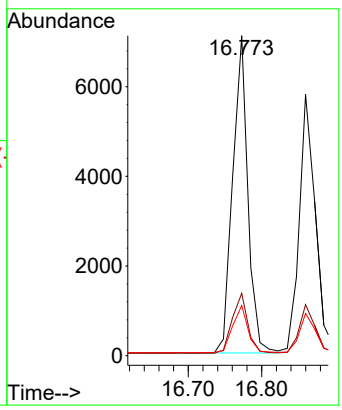


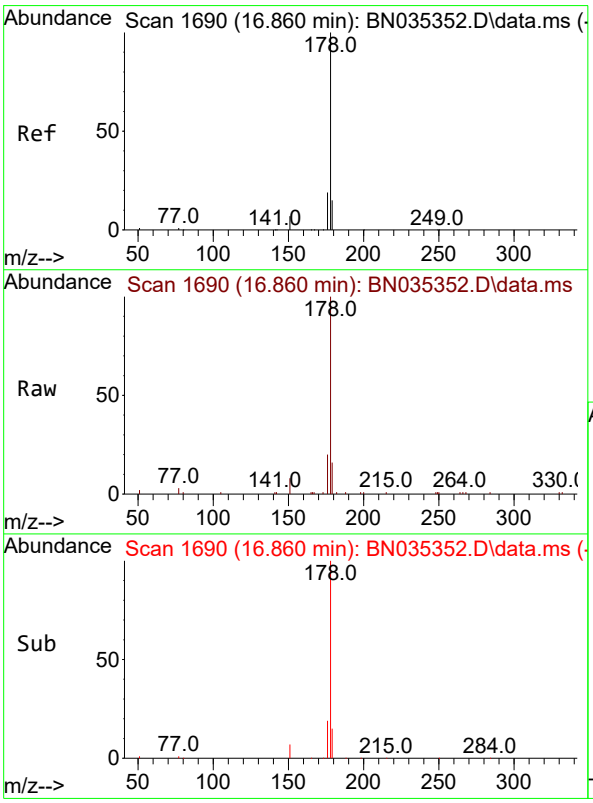
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 10127

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5

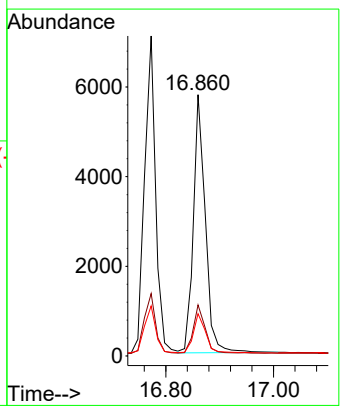


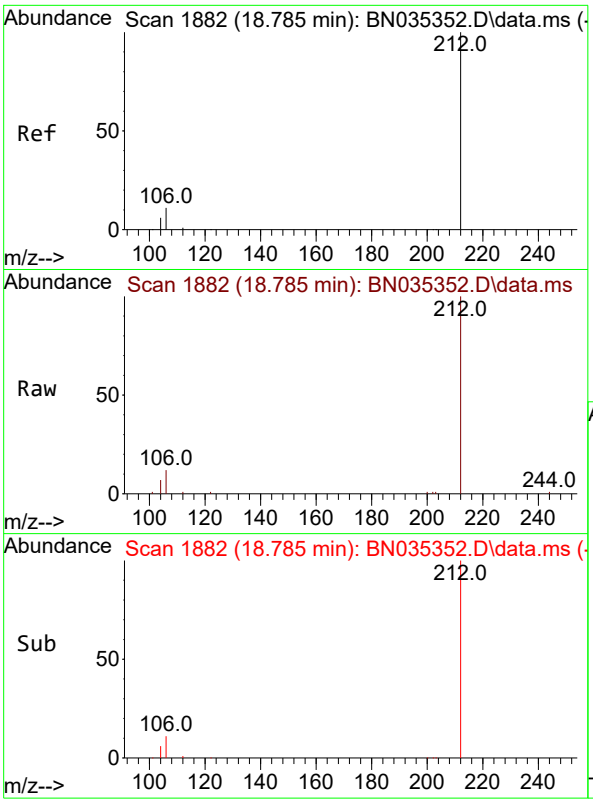


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.6	18.8



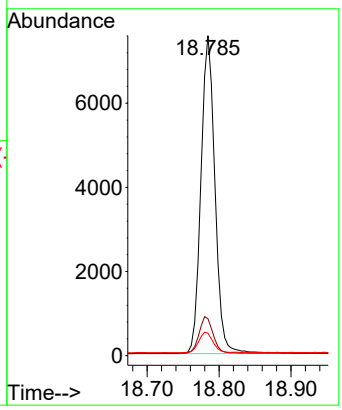


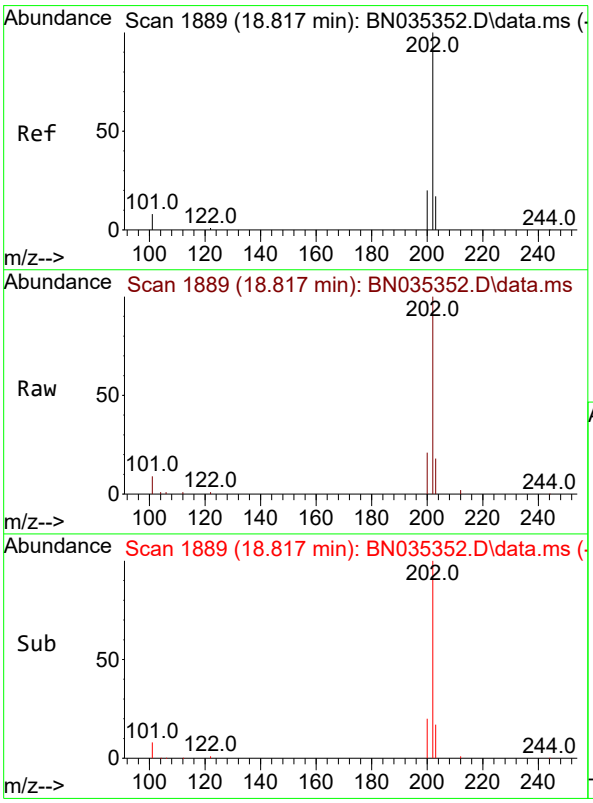
#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 10223

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

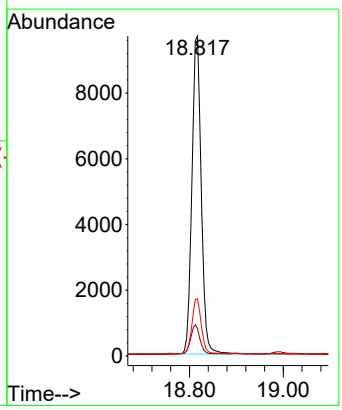


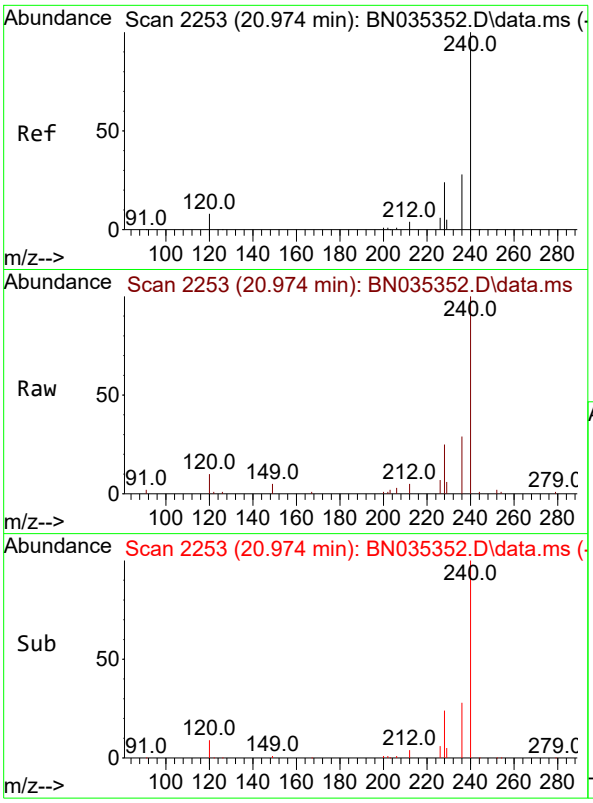


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



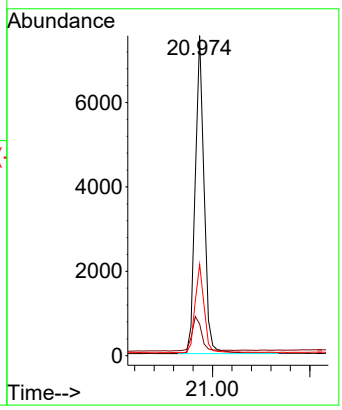


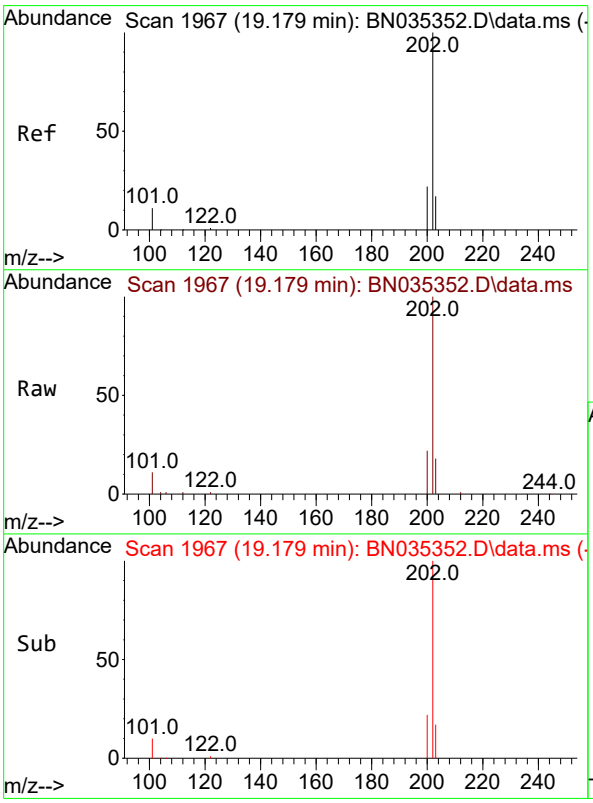
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 9527

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3

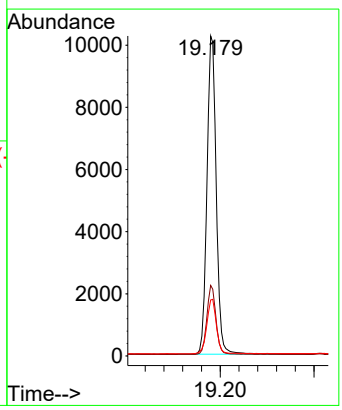


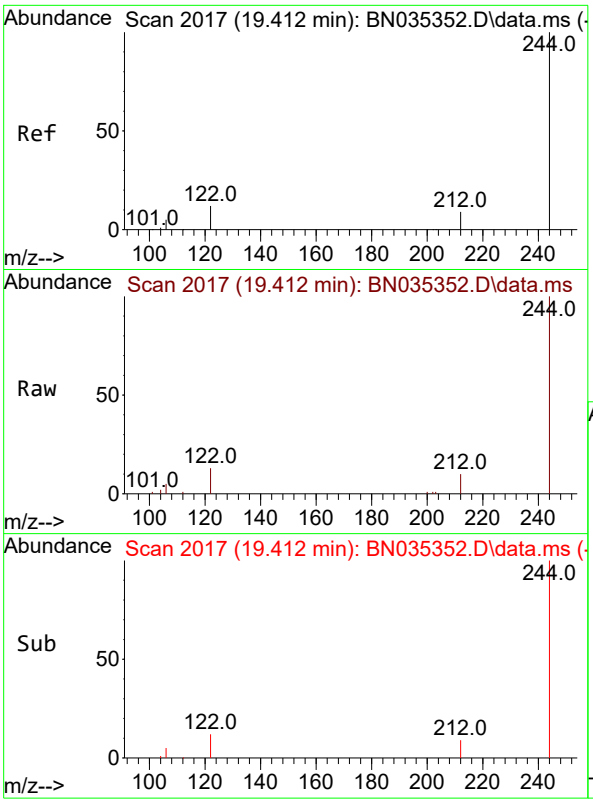


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



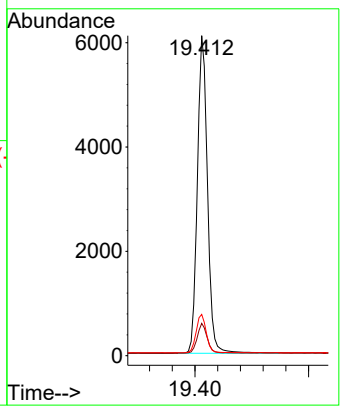


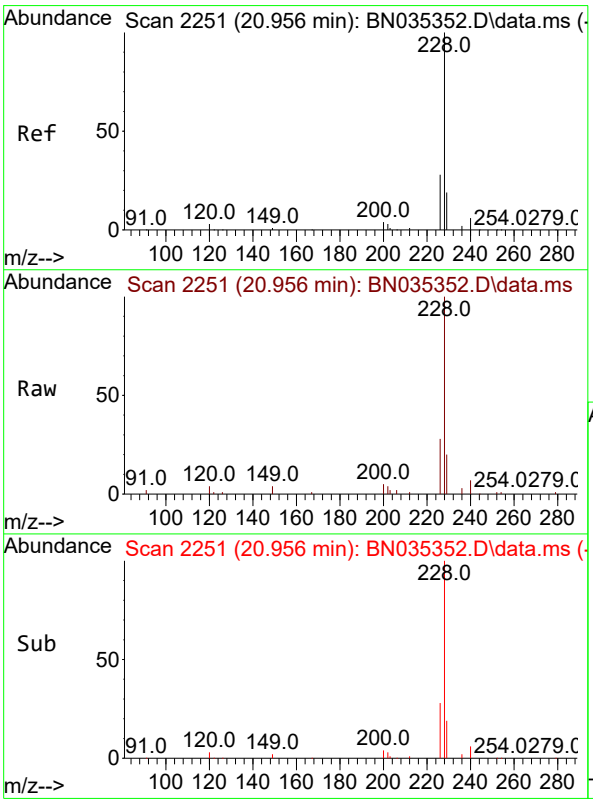
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 7533

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5

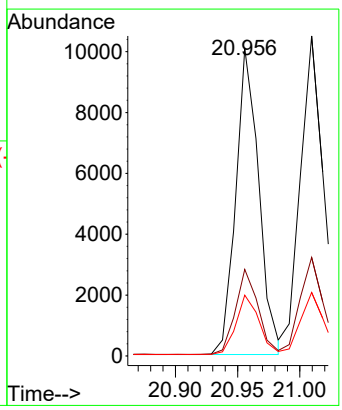


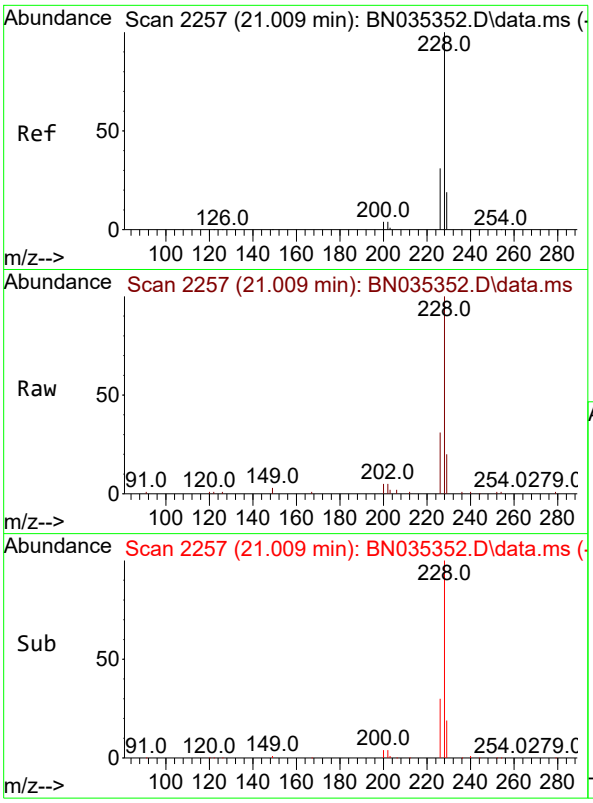


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8



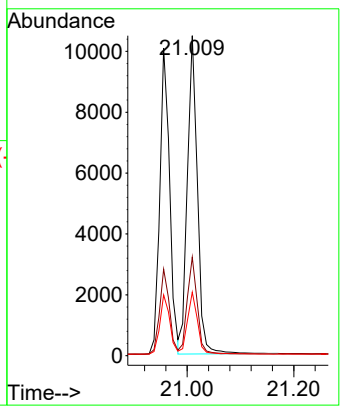


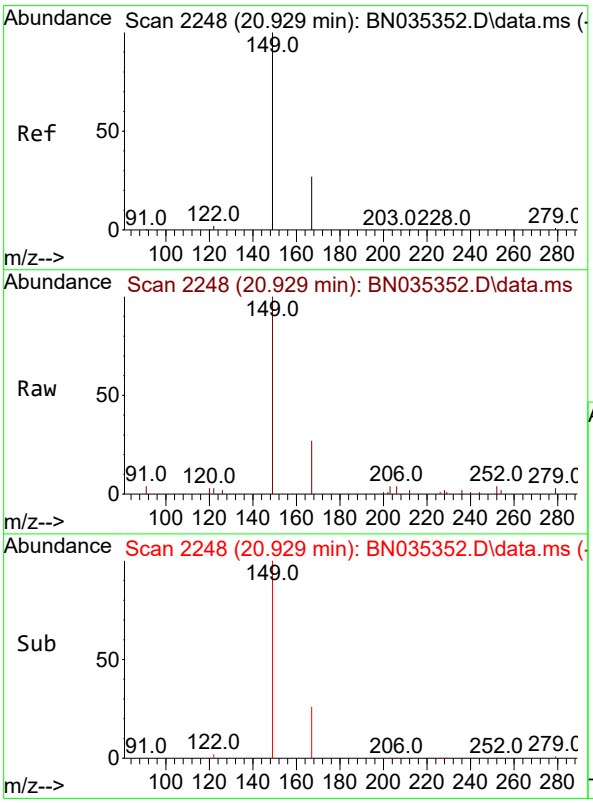
#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 13729

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9

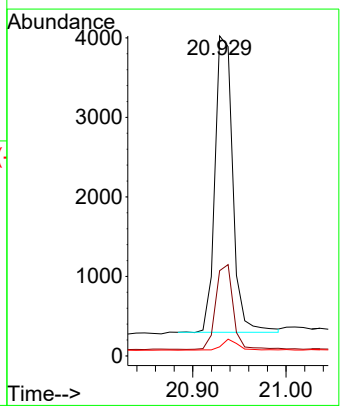


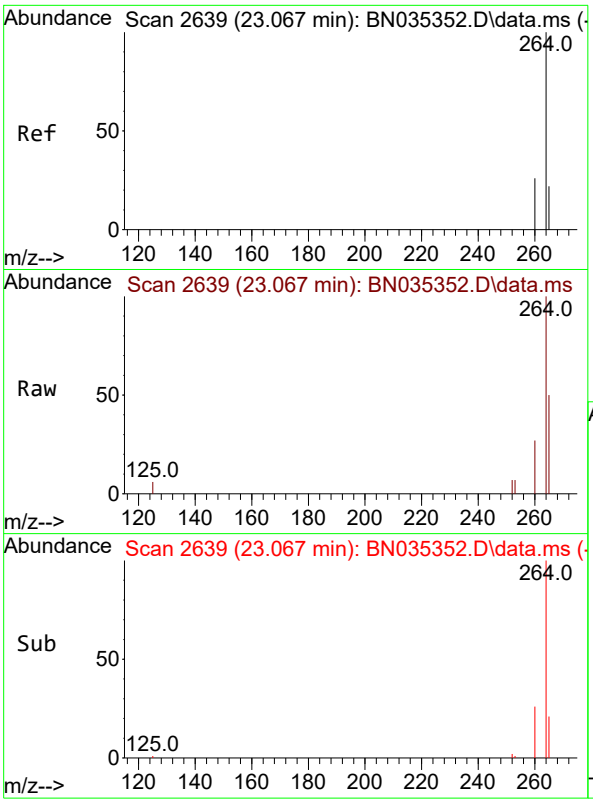


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.4	2.7	4.1



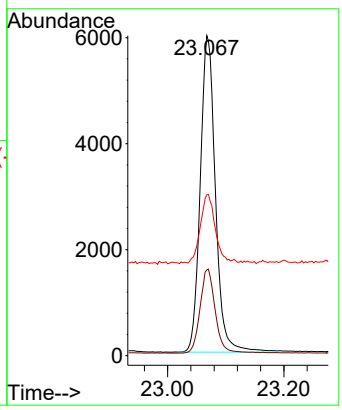


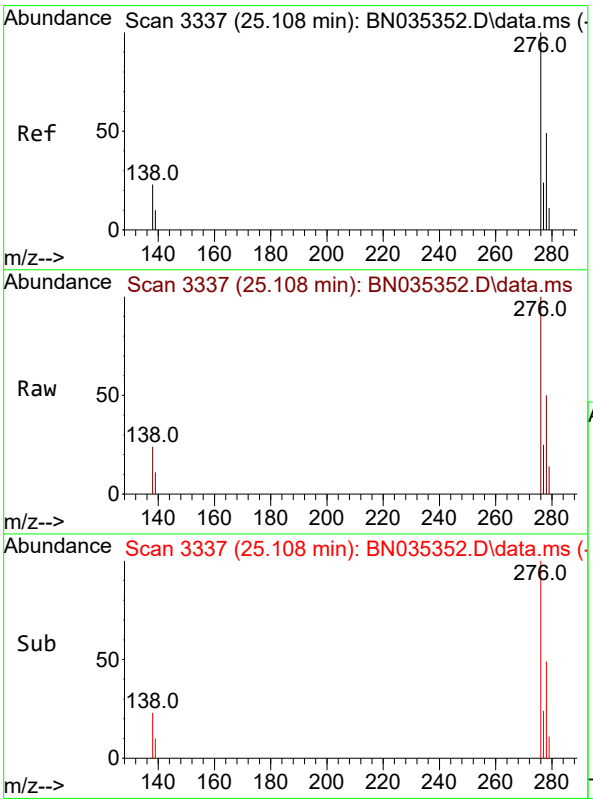
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 10842

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

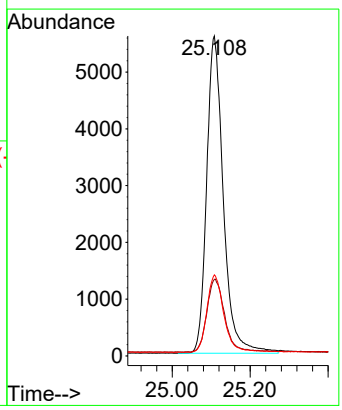


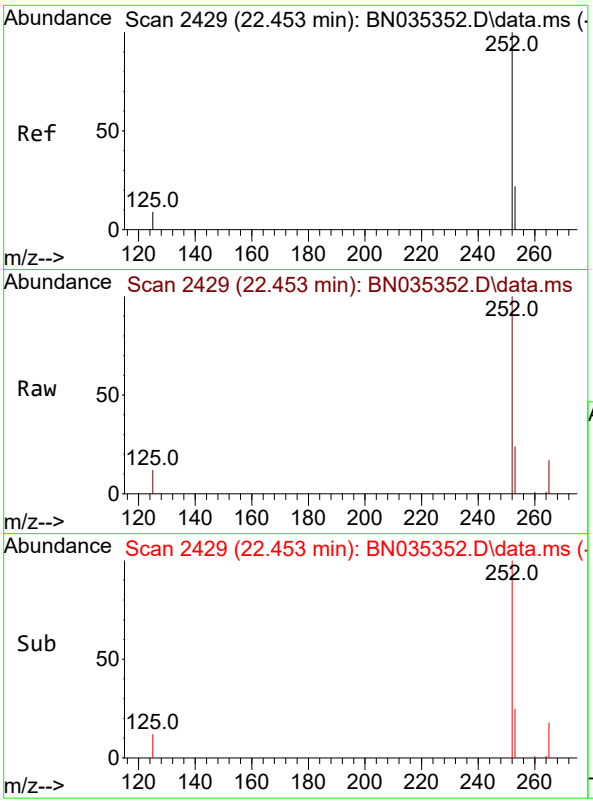


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.4	29.0
277	24.7	19.8	29.6



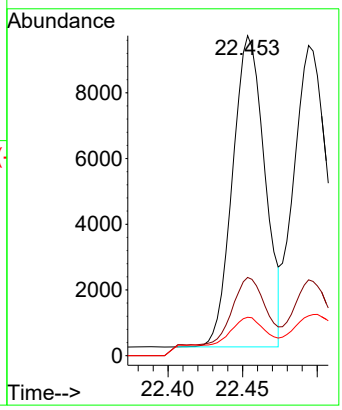


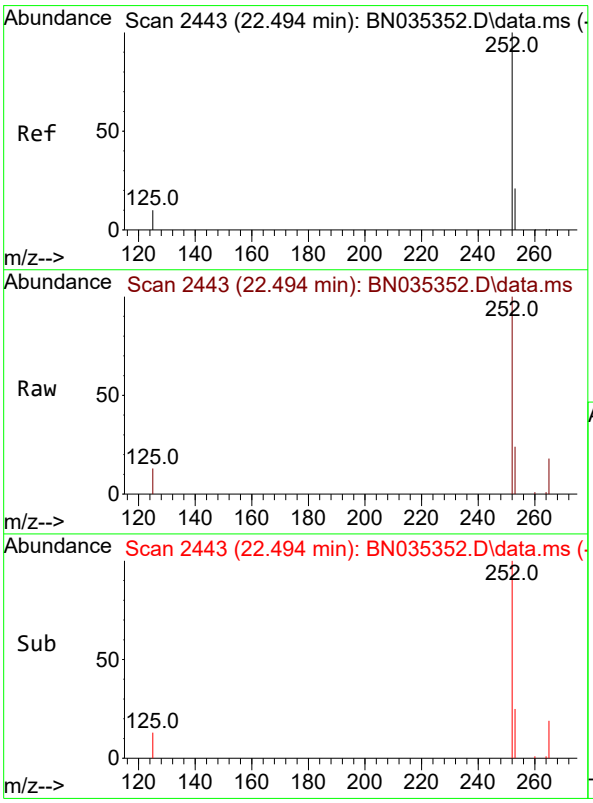
#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 14235

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4

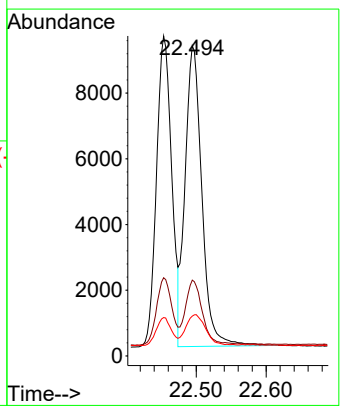


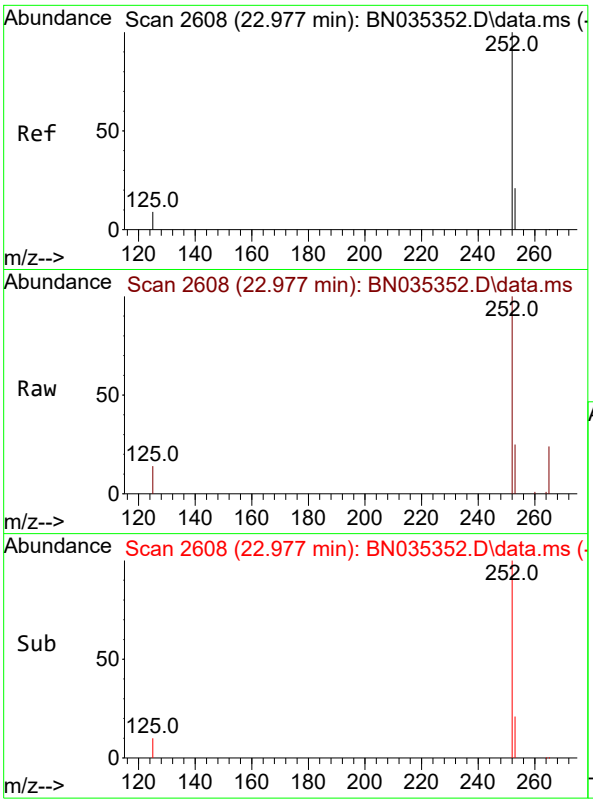


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	12.8	10.2	15.4



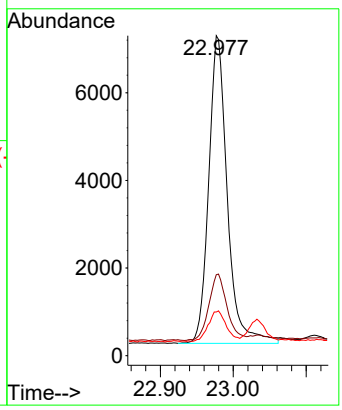


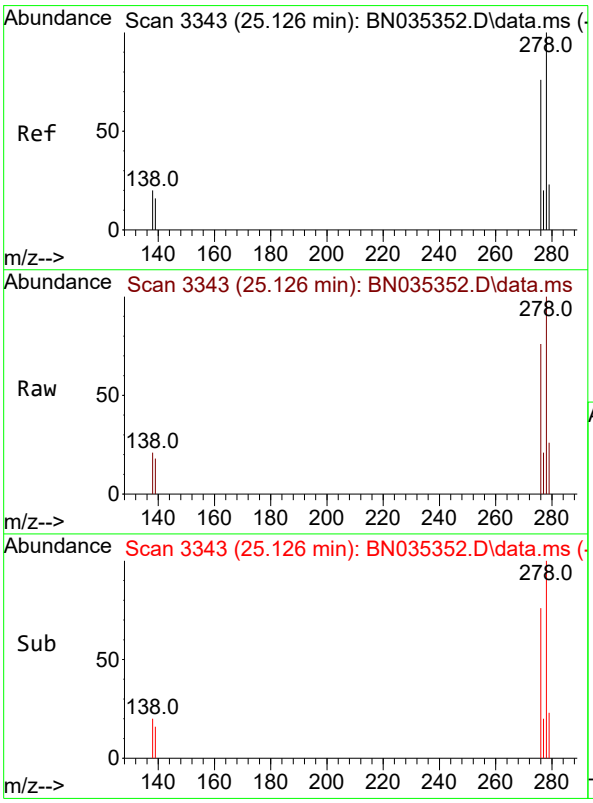
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 12425

Ion	Ratio	Lower	Upper
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3

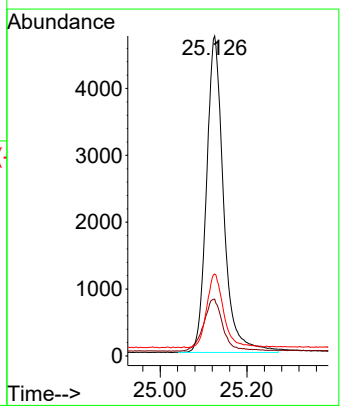


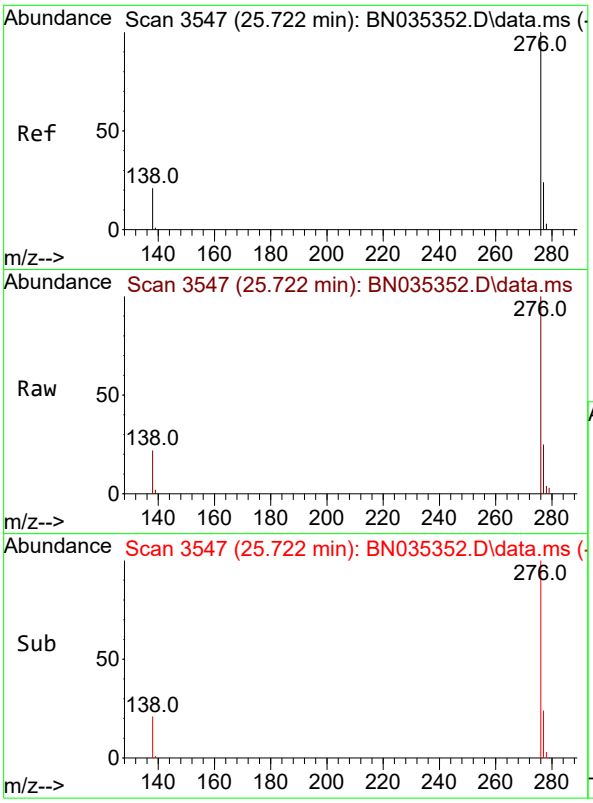


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7



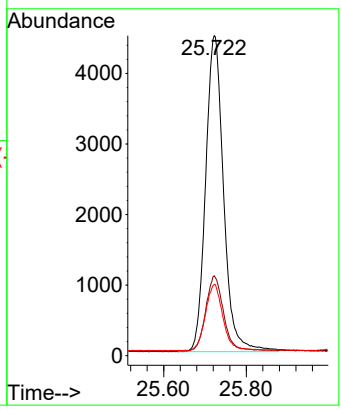


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 13529

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng		0.00
35) Perylene-d12	23.067	264	8338	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	1280	0.332	ng		0.00
5) Phenol-d6	6.513	99	1437	0.310	ng		0.00
8) Nitrobenzene-d5	8.440	82	1017	0.427	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng		0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng		0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng		99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	#	88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng		99
9) Naphthalene	10.105	128	4364	0.424	ng		99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng		98
16) Acenaphthylene	13.679	152	5261	0.435	ng		100
17) Acenaphthene	14.031	154	3421	0.426	ng		99
18) Fluorene	15.026	166	4825	0.420	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	#	86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng		99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng		99
23) Atrazine	16.227	200	1227	0.401	ng		99
24) Pentachlorophenol	16.400	266	662	0.301	ng	#	83
25) Phenanthrene	16.773	178	8509	0.421	ng		100
26) Anthracene	16.860	178	7849	0.430	ng		100
28) Fluoranthene	18.812	202	10941	0.402	ng		100
30) Pyrene	19.179	202	11476	0.410	ng		100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng		100
33) Chrysene	21.009	228	11926	0.436	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng		99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng		99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng		99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng		99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng		100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng		99

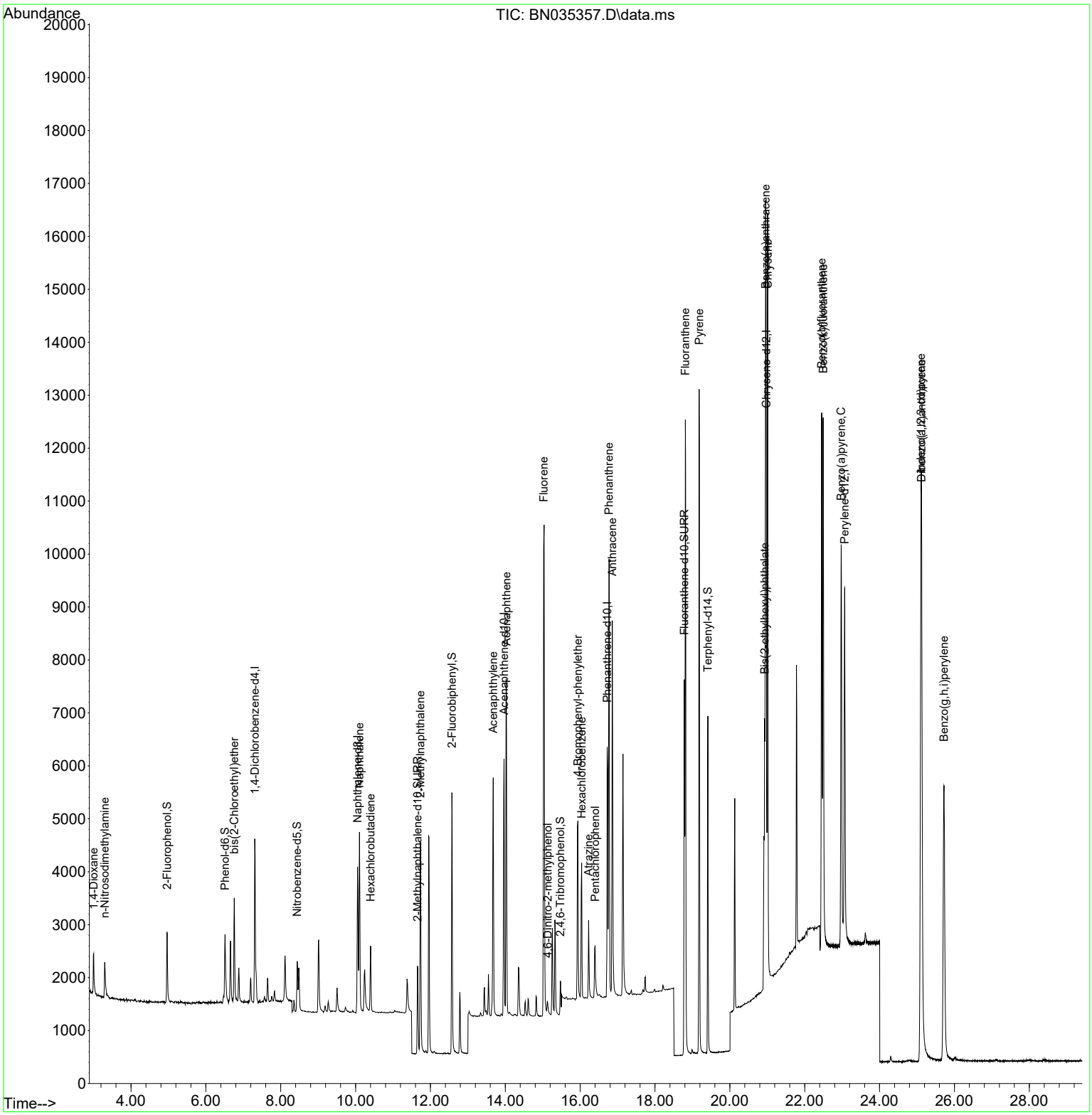
(#) = qualifier out of range (m) = manual integration (+) = signals summed

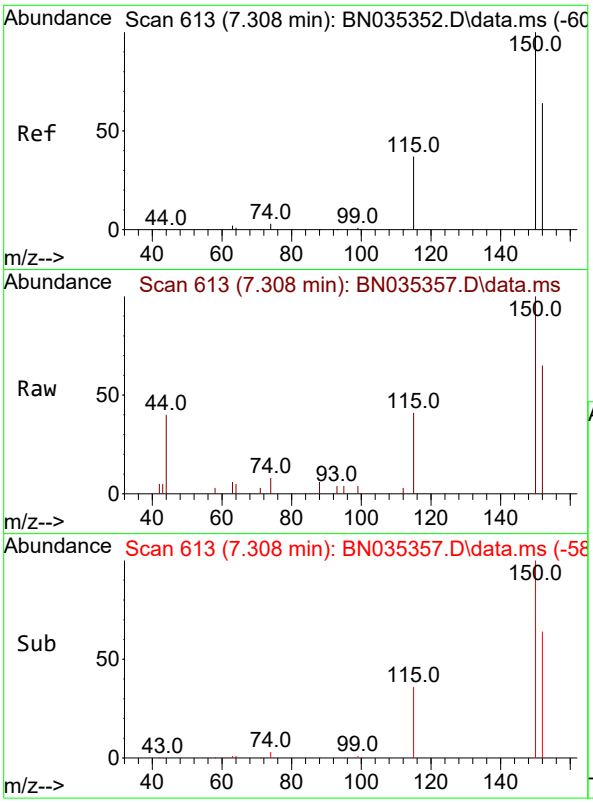
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



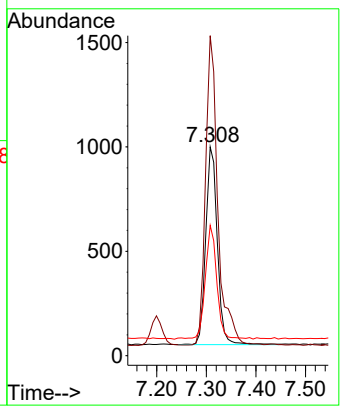


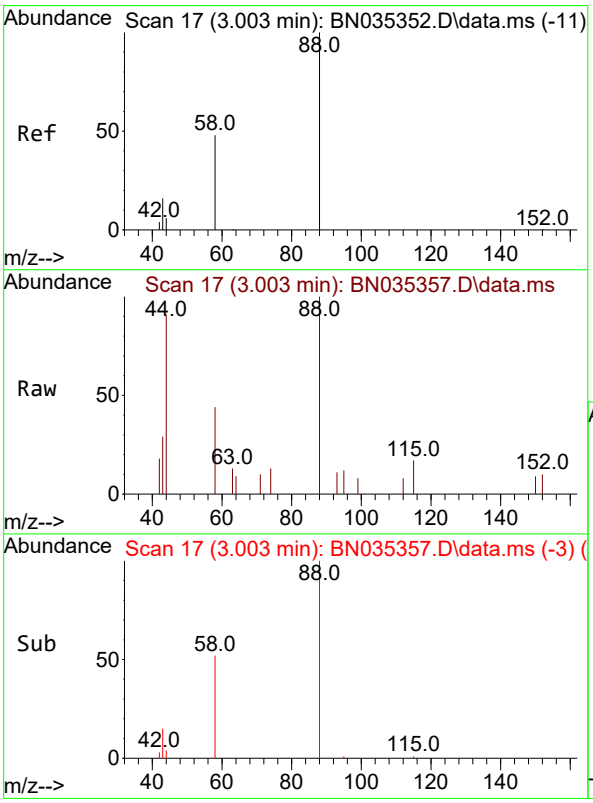
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 1540

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4

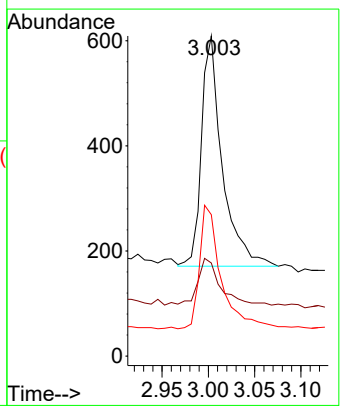


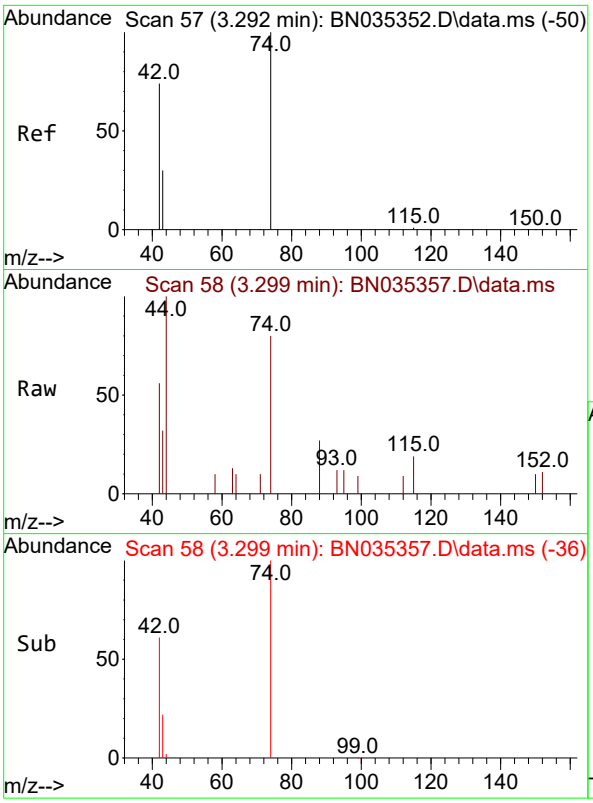


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7



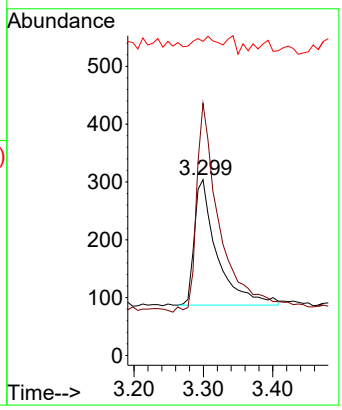


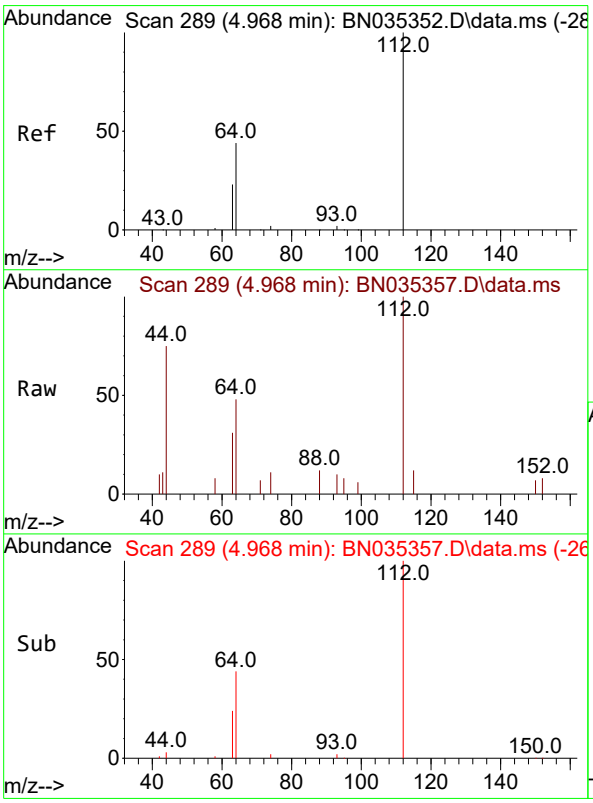
#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 42 Resp: 495

Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4#

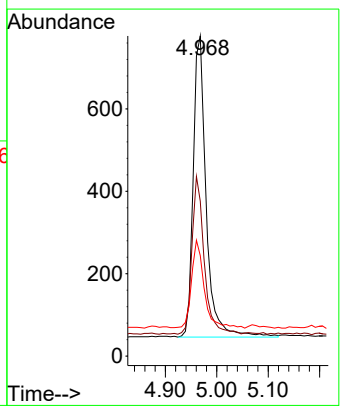


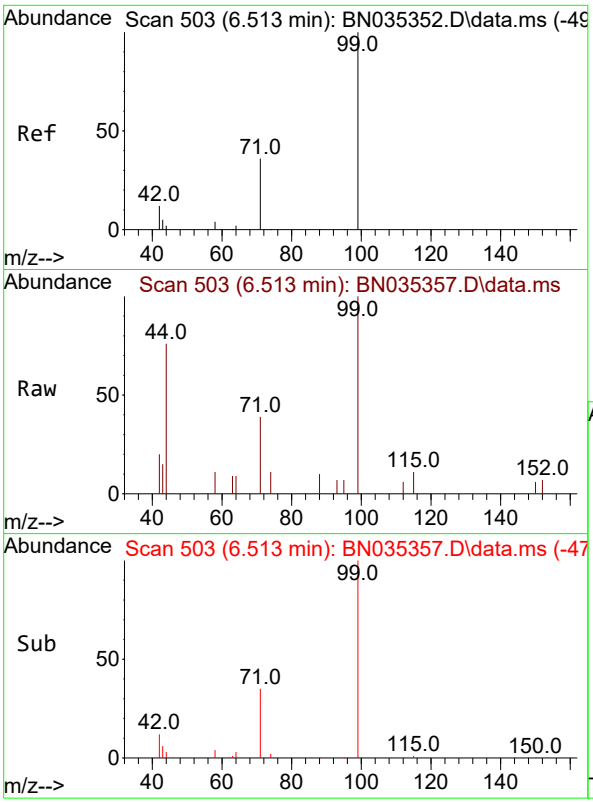


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6



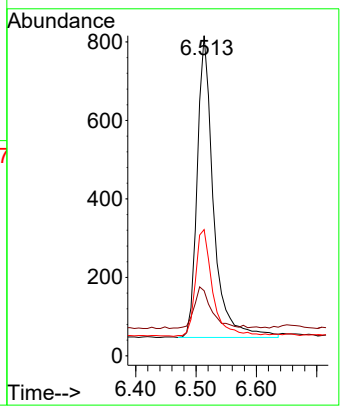


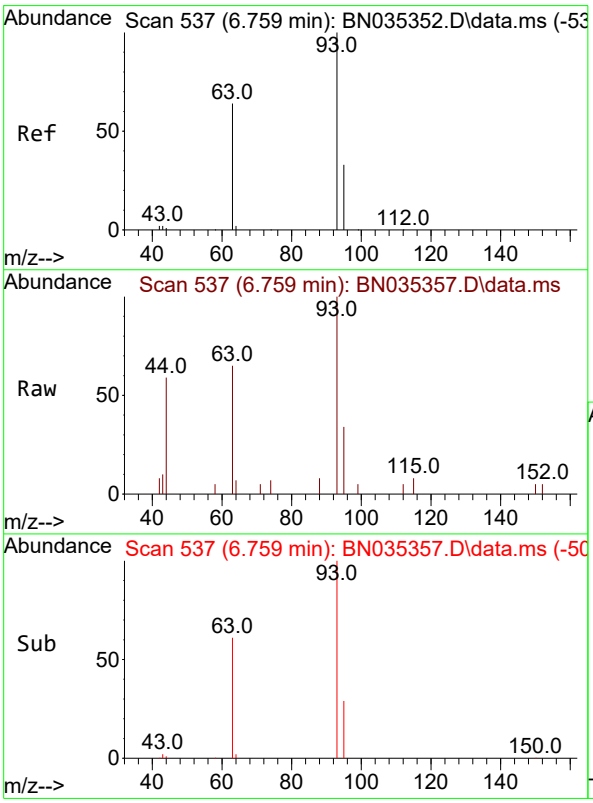
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 99 Resp: 1437

Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9

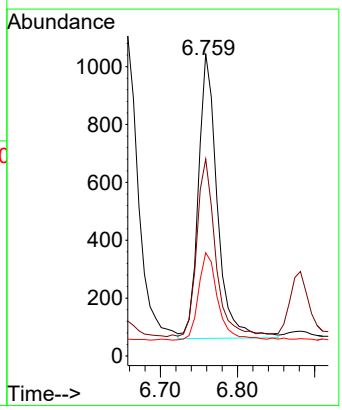


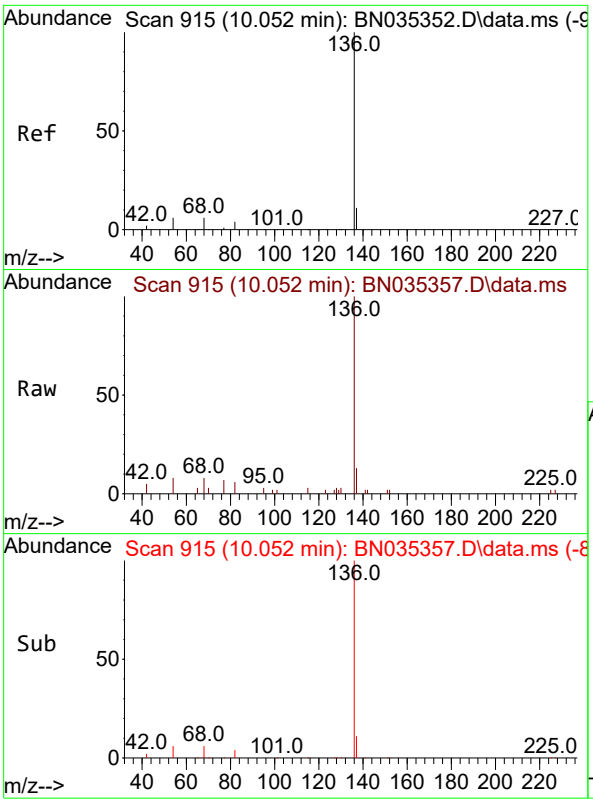


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5



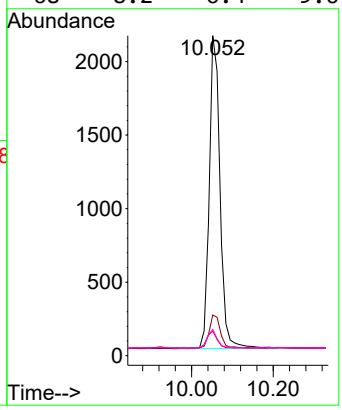


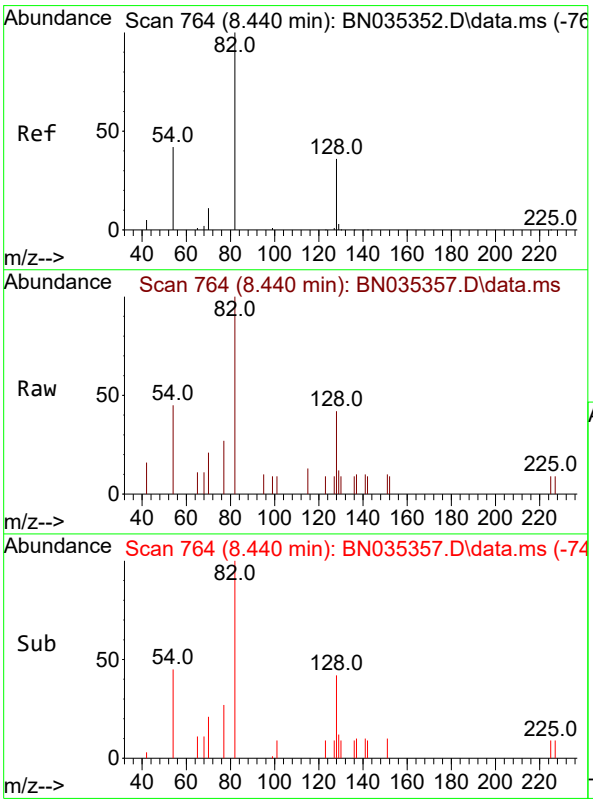
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:136 Resp: 3904

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6

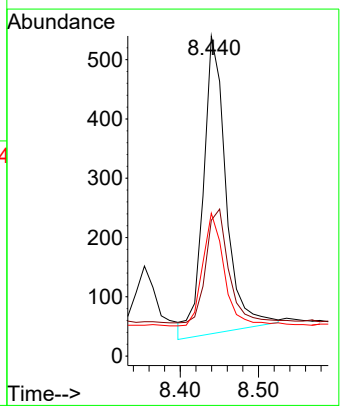


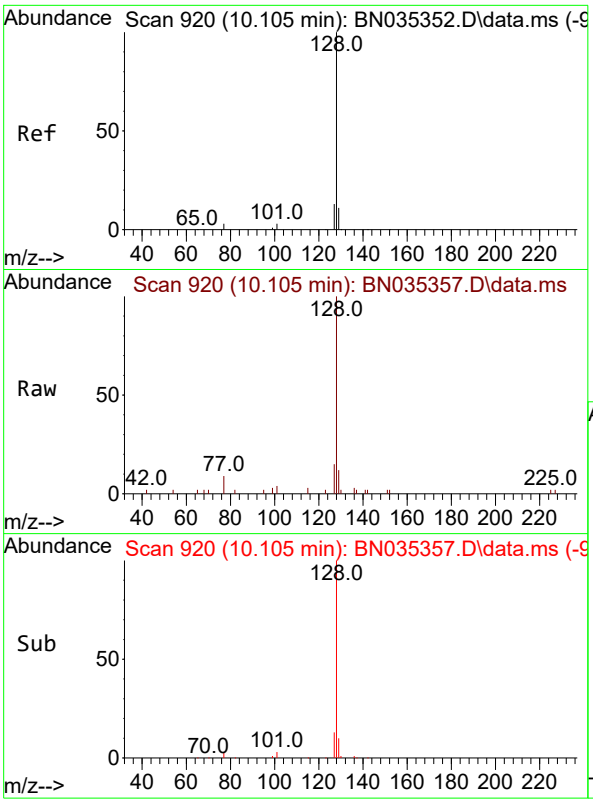


#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 1017

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1



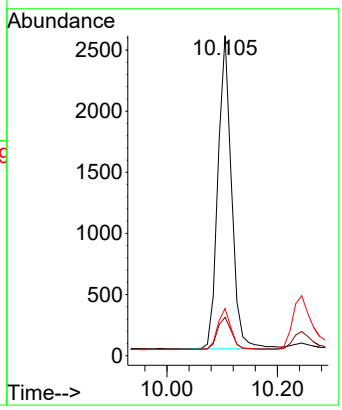


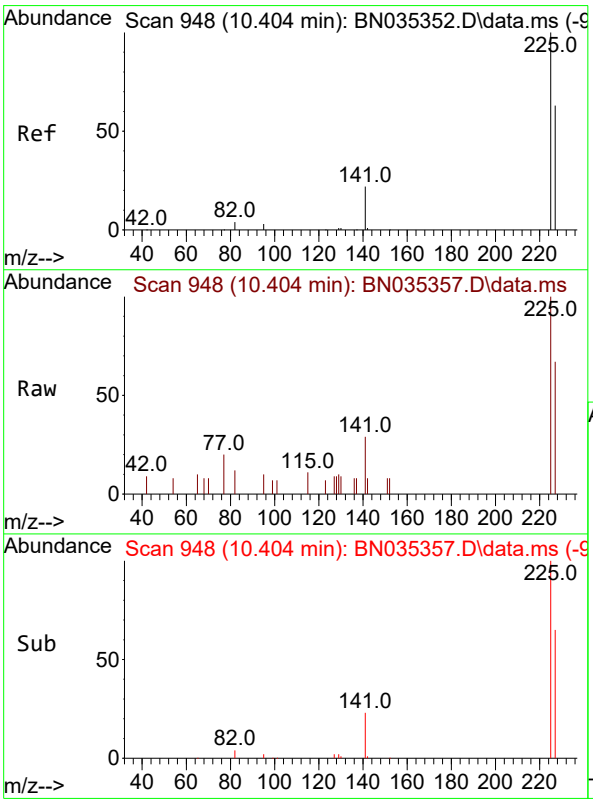
#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:128 Resp: 4364

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2

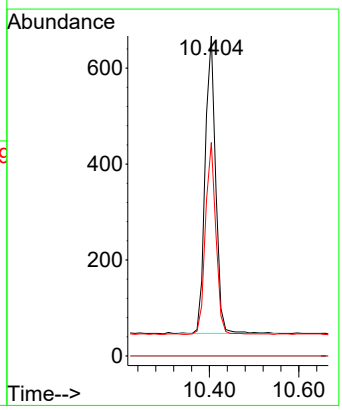


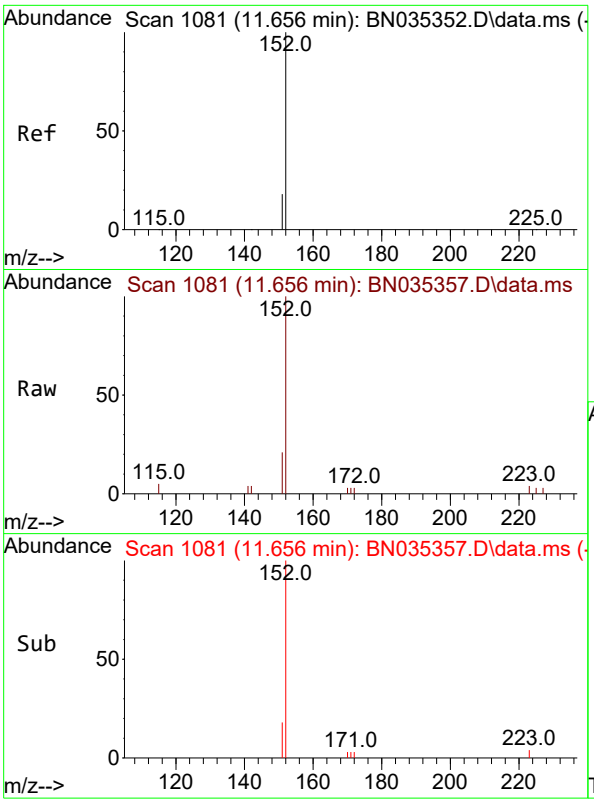


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9



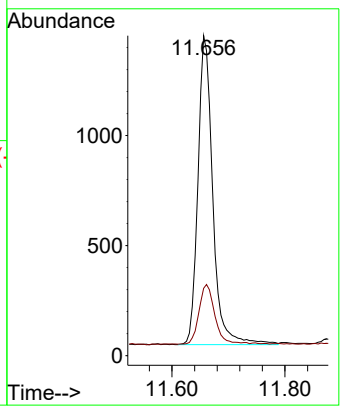


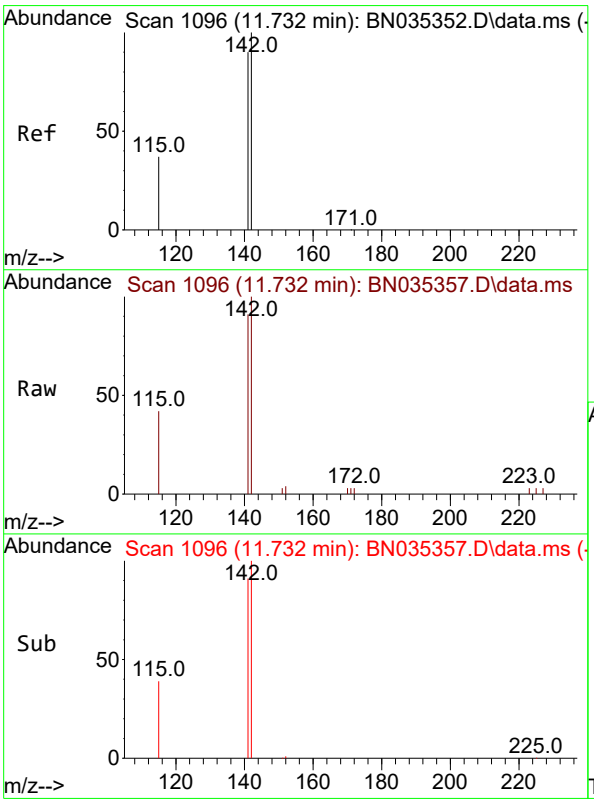
#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 2565

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

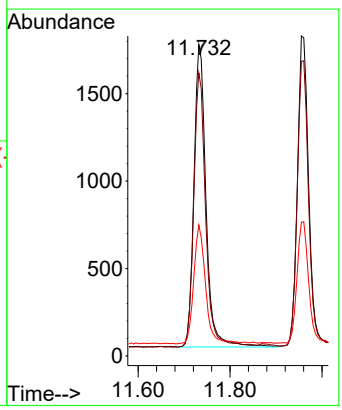


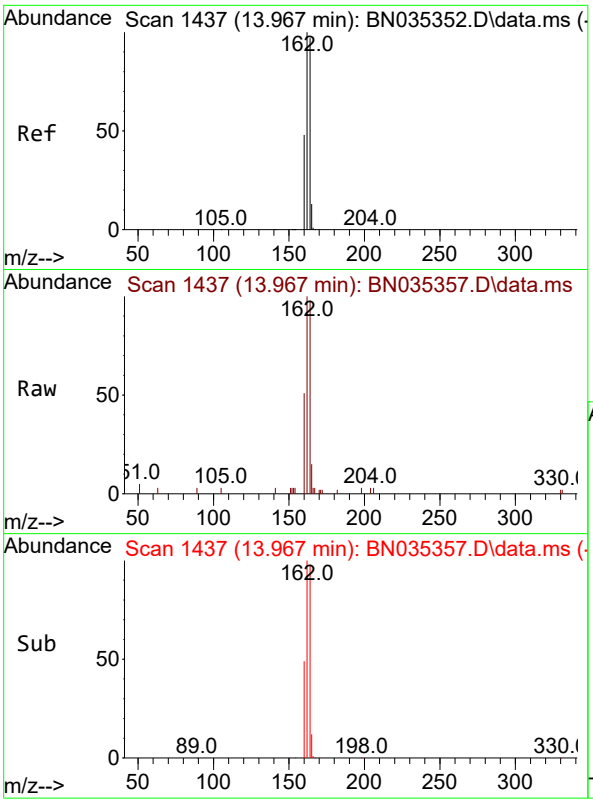


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0



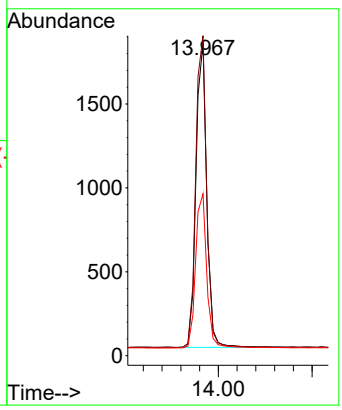


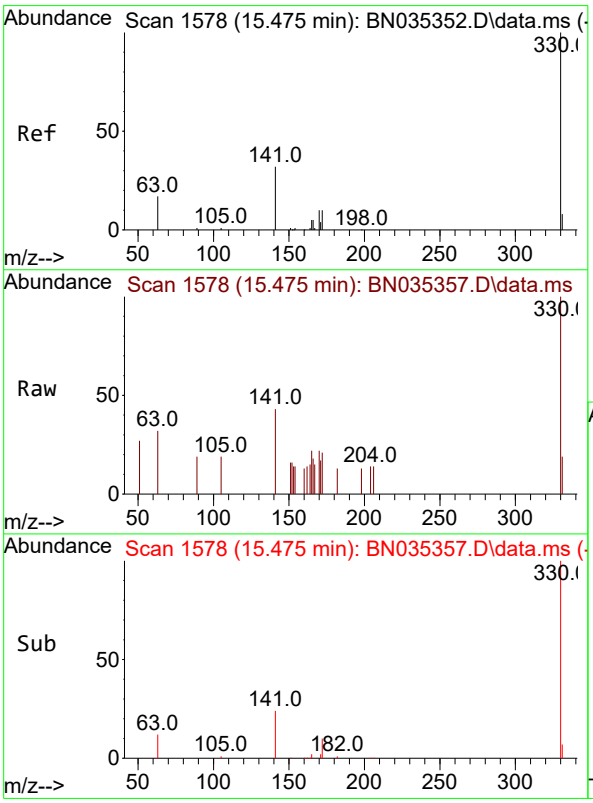
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:164 Resp: 2879

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1

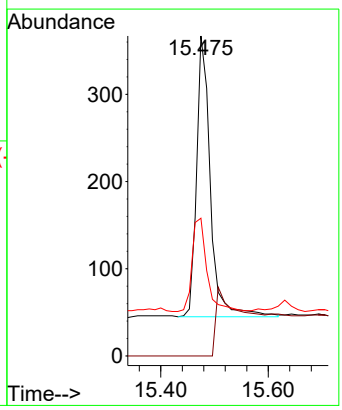


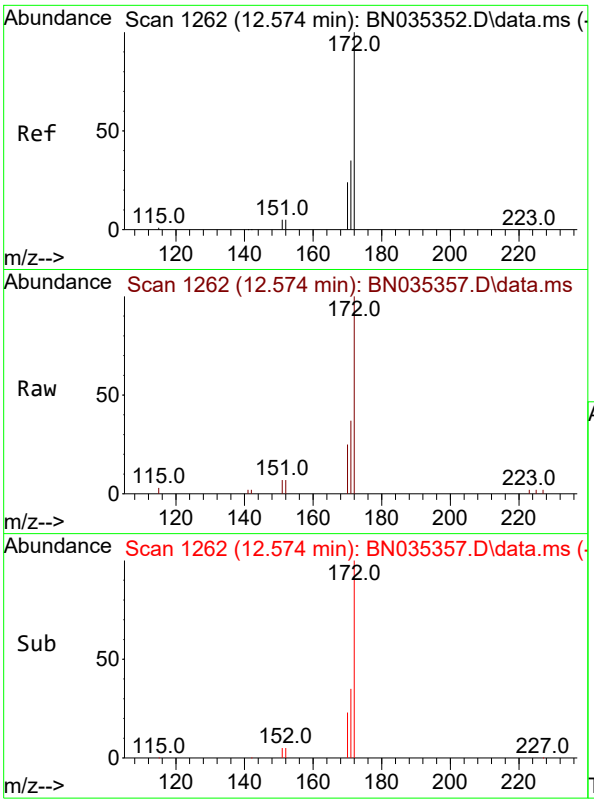


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0



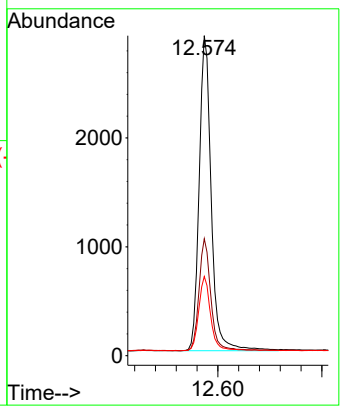


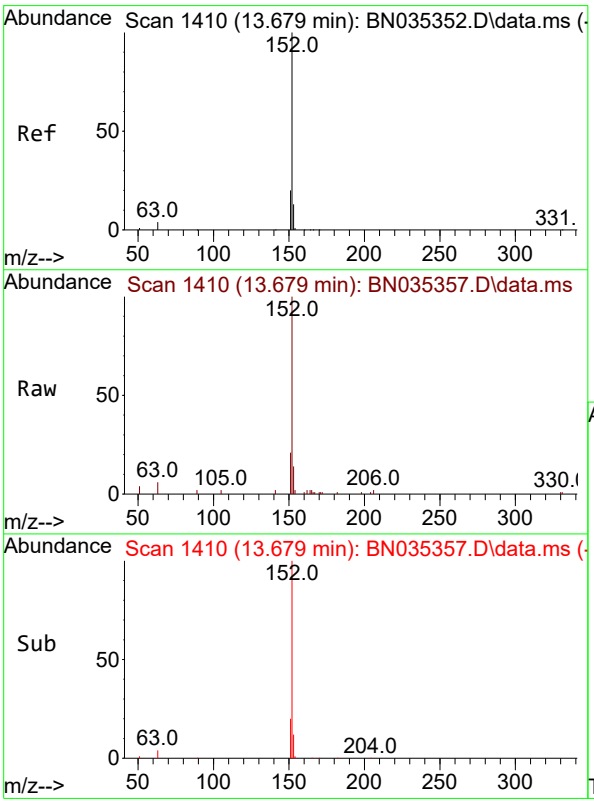
#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:172 Resp: 4647

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8

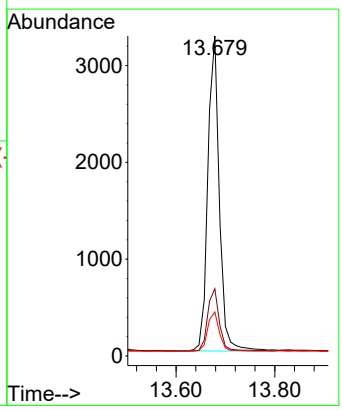


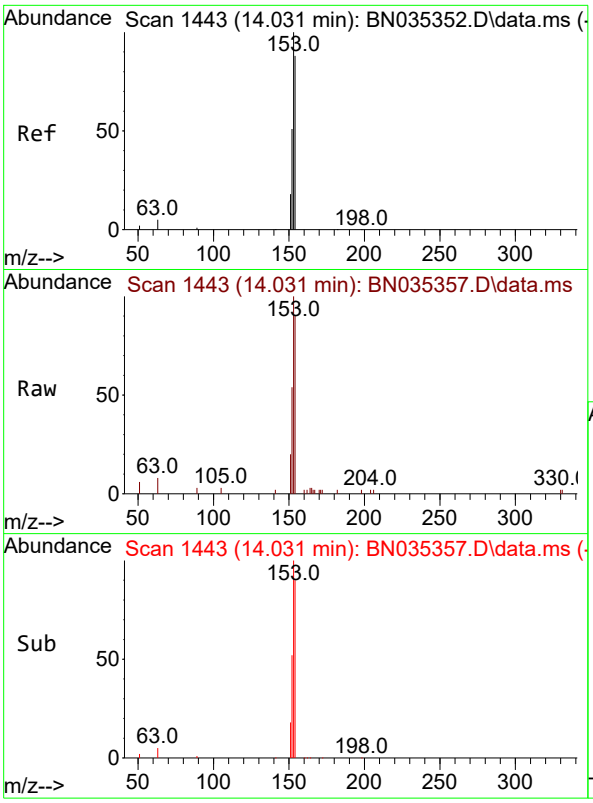


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6



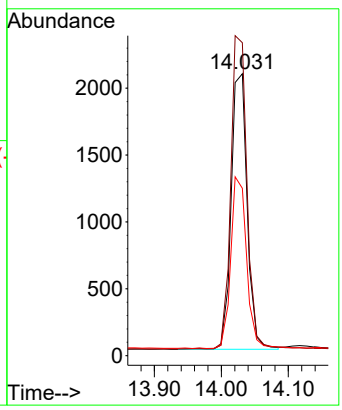


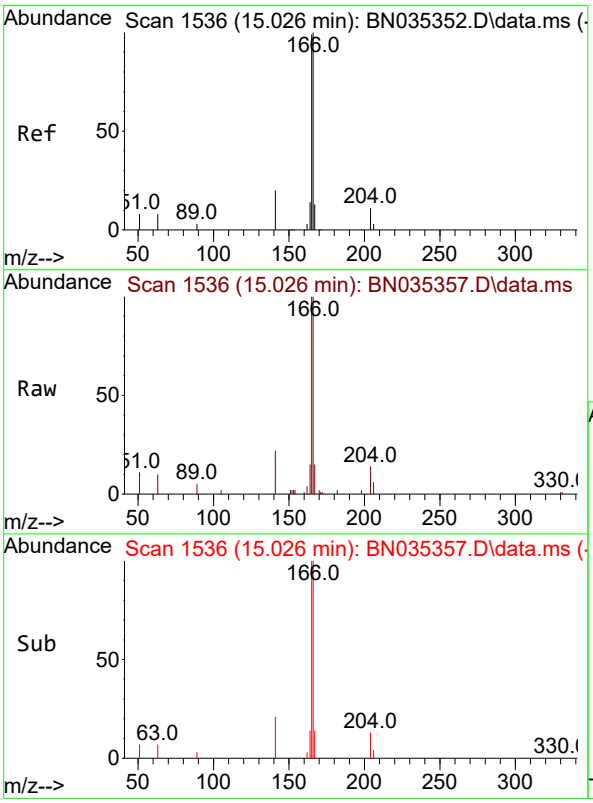
#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:154 Resp: 3421

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6

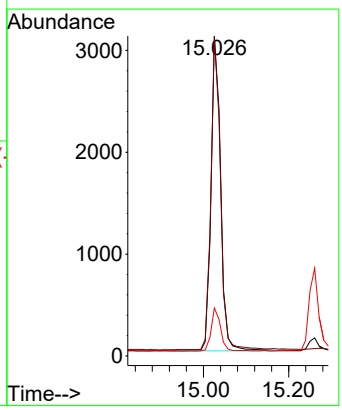


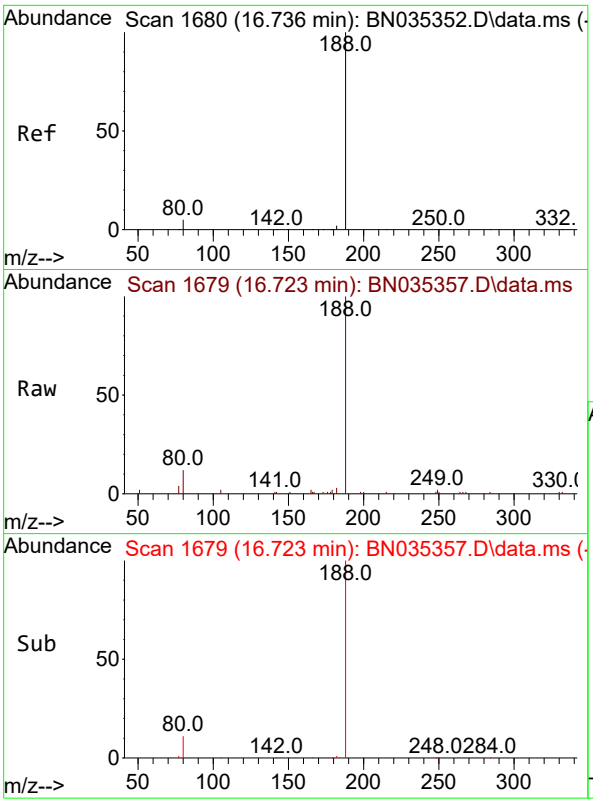


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2



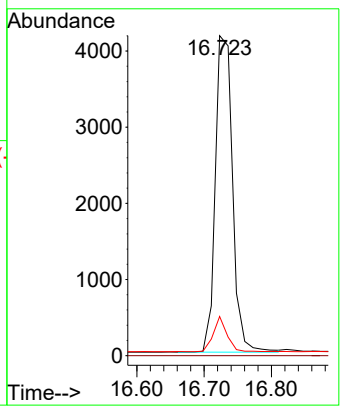


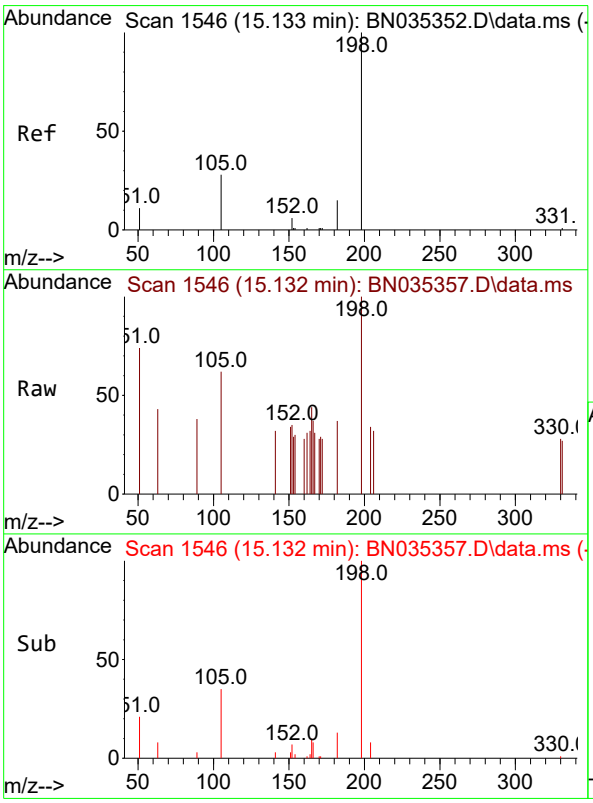
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:188 Resp: 7350

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#

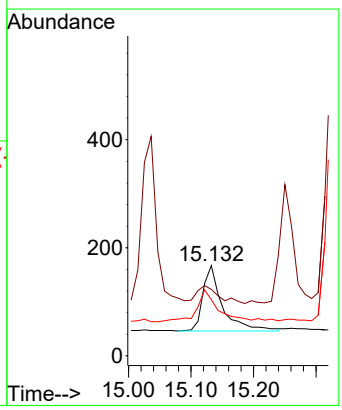


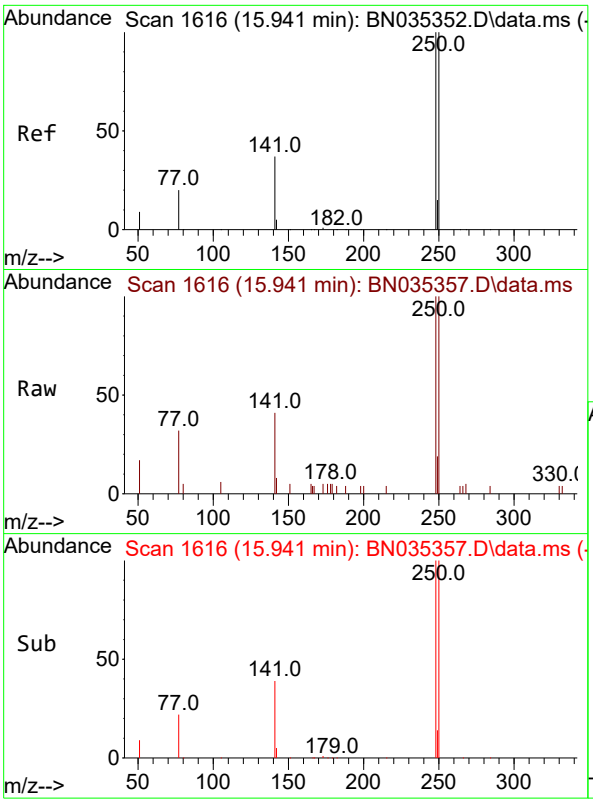


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9



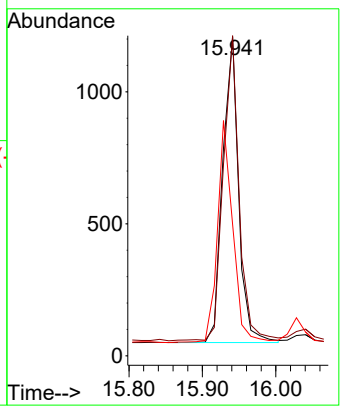


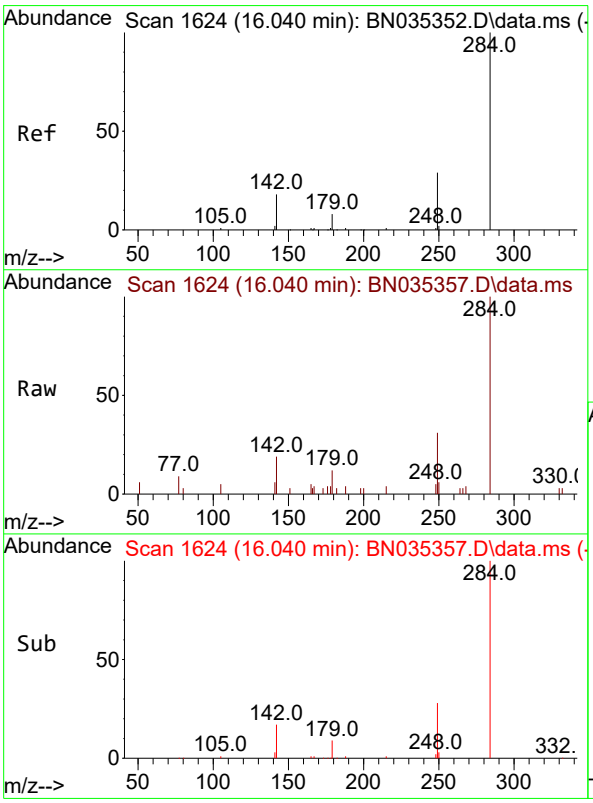
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:248 Resp: 1742

Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3

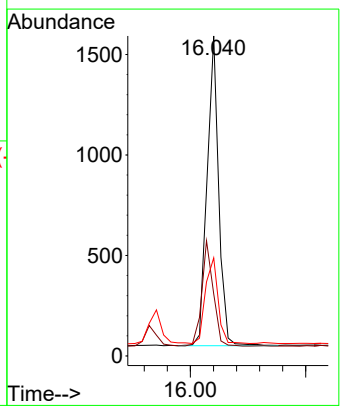


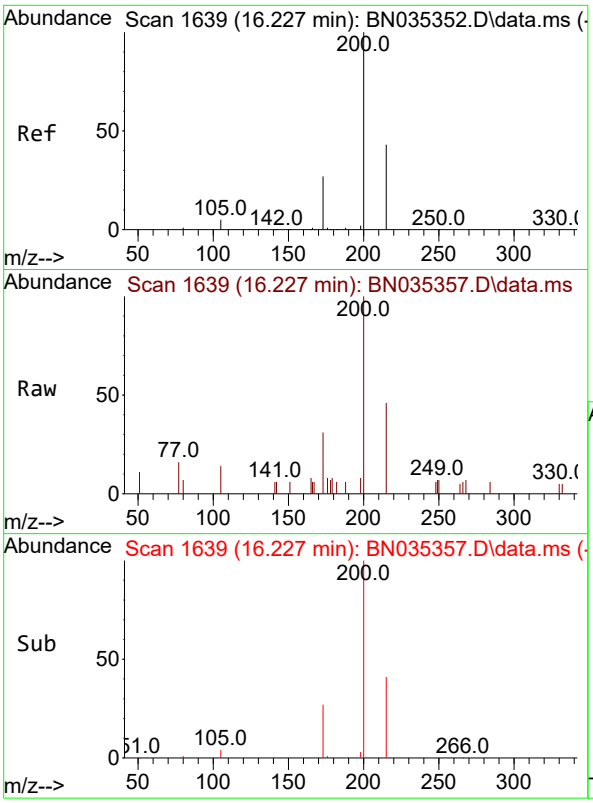


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8



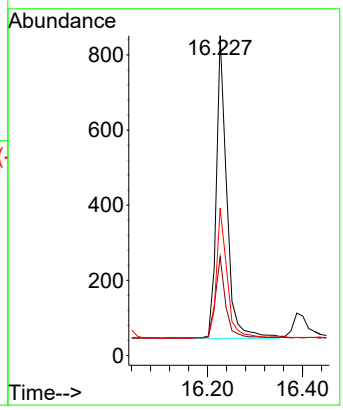


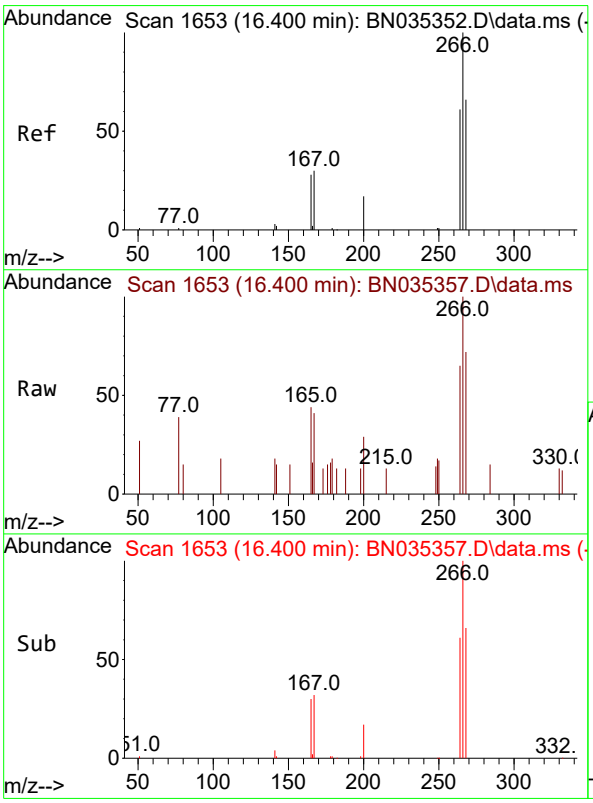
#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:200 Resp: 1227

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3

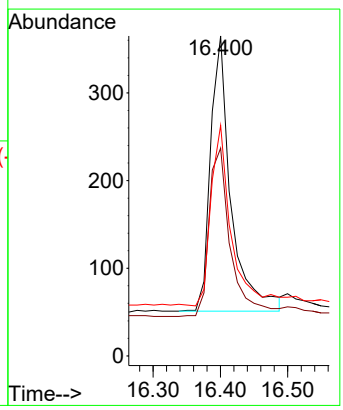


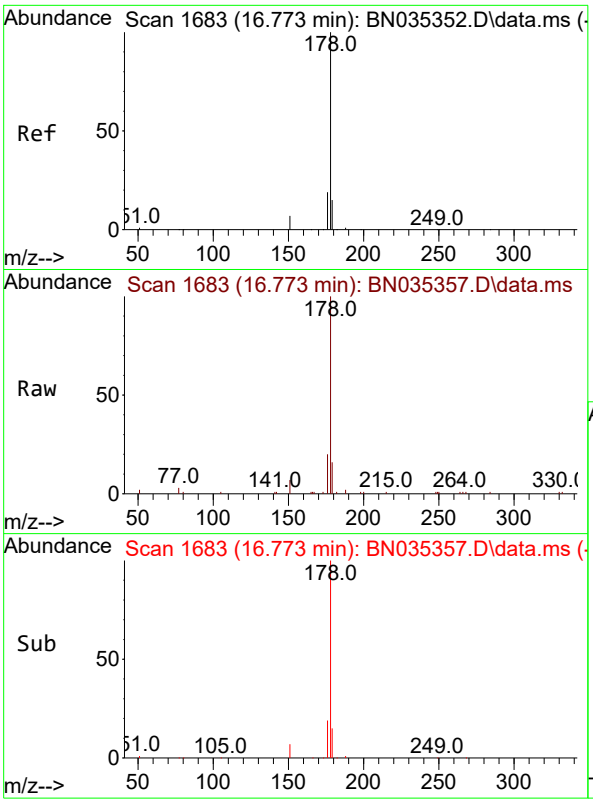


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#



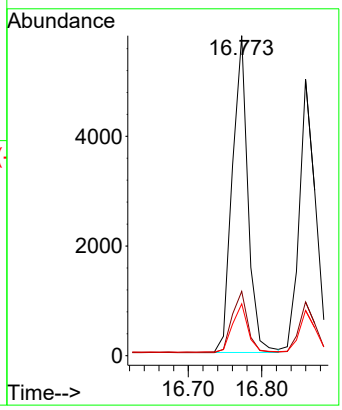


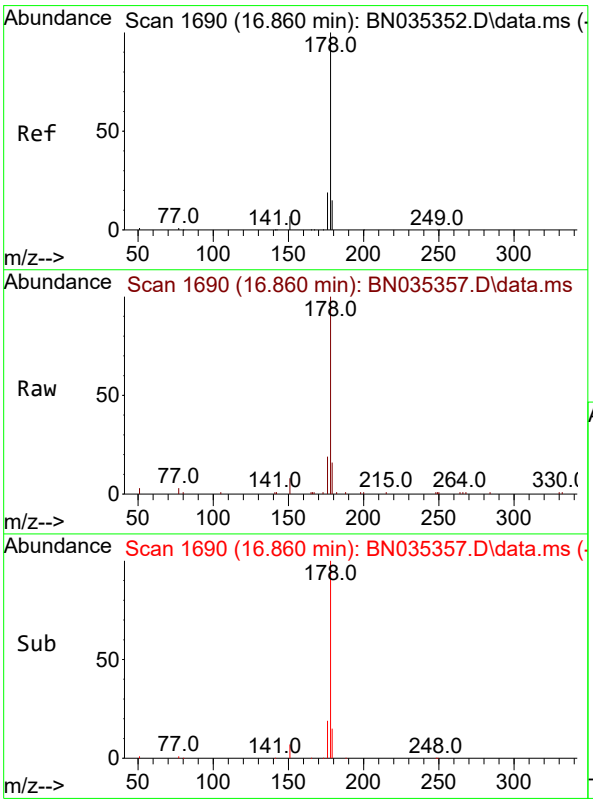
#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:178 Resp: 8509

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5

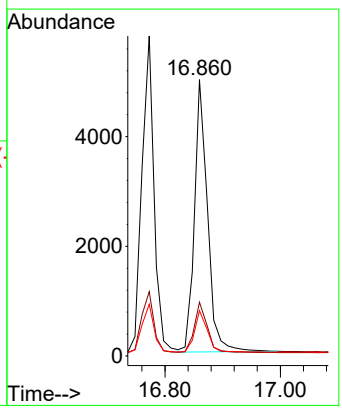


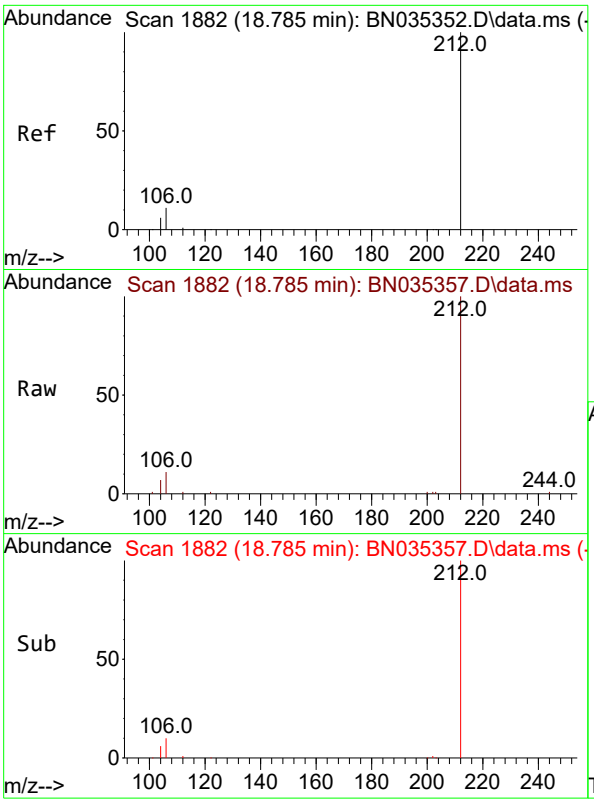


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8



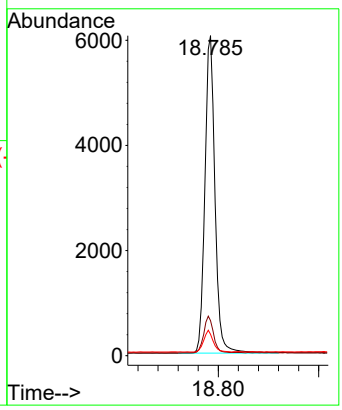


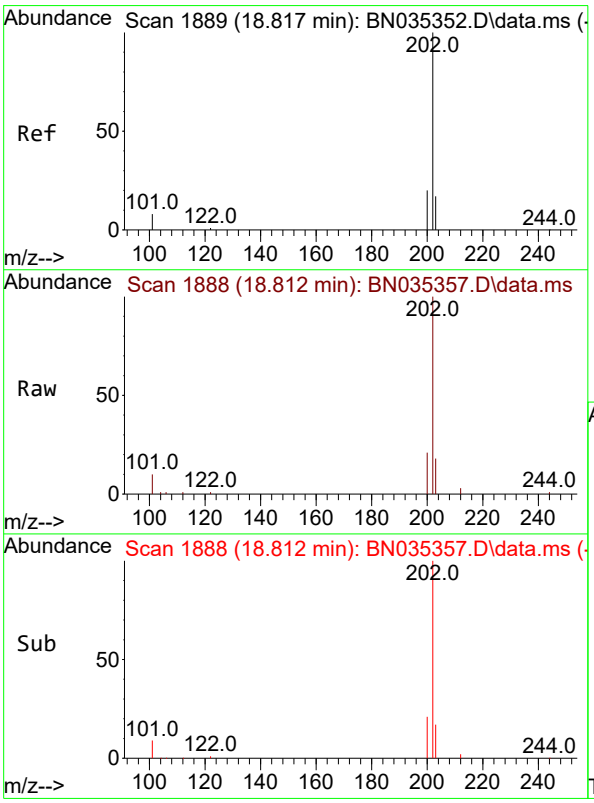
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:212 Resp: 8415

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

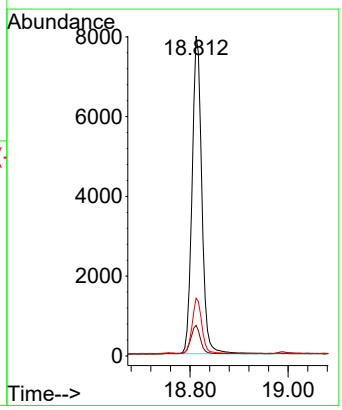


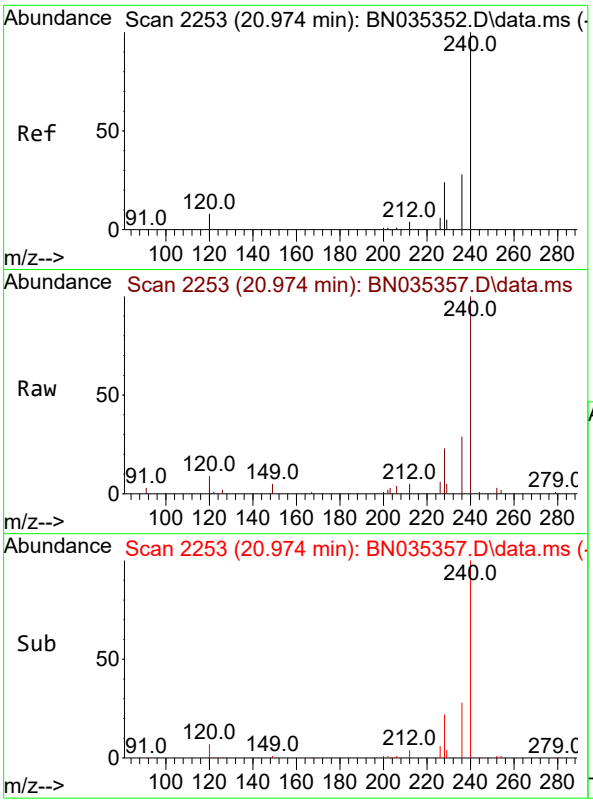


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



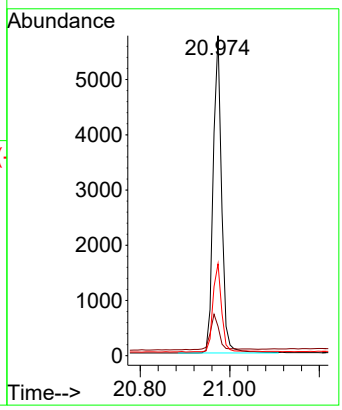


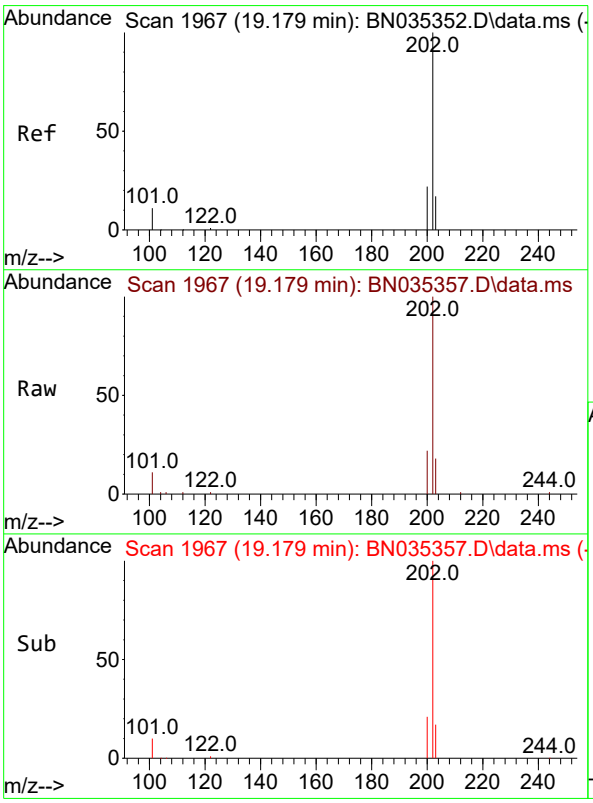
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:240 Resp: 7576

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3

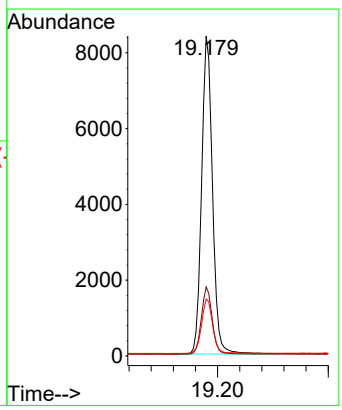


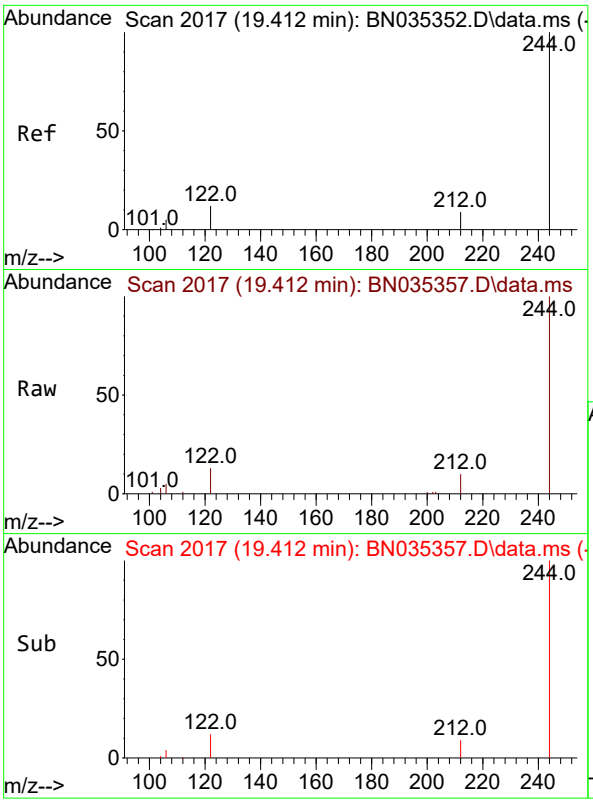


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5



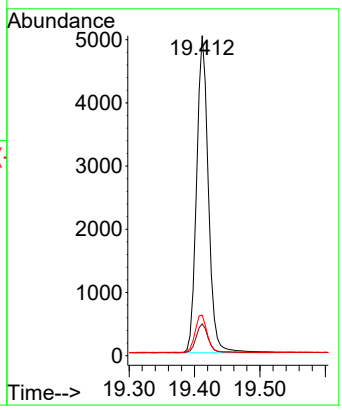


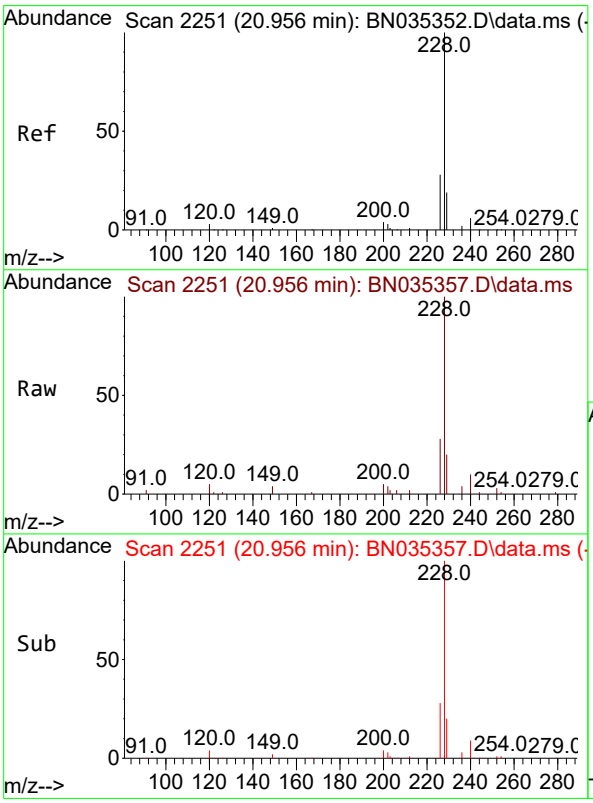
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:244 Resp: 6272

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5

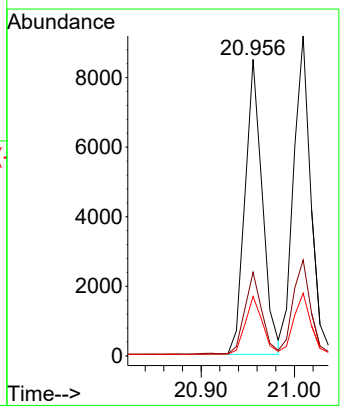


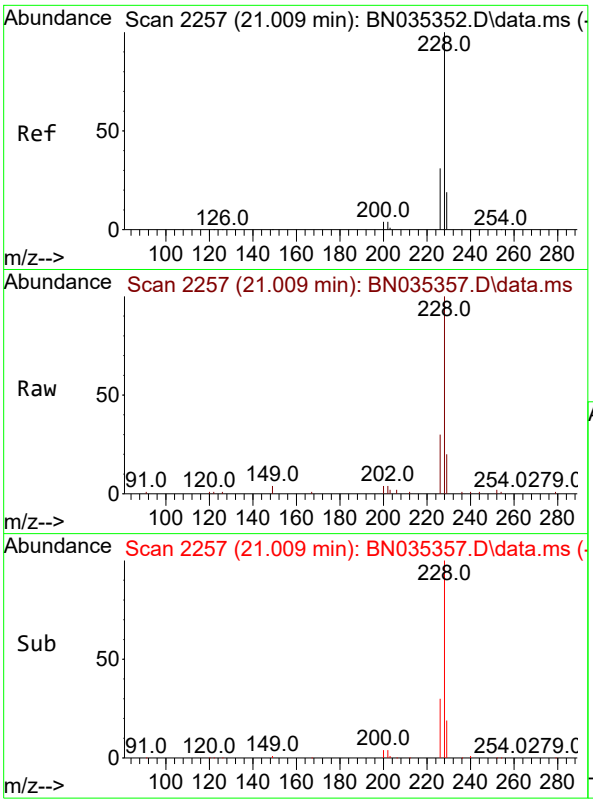


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8



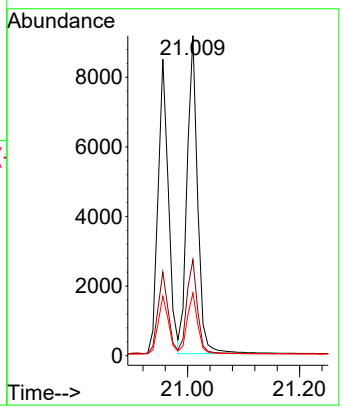


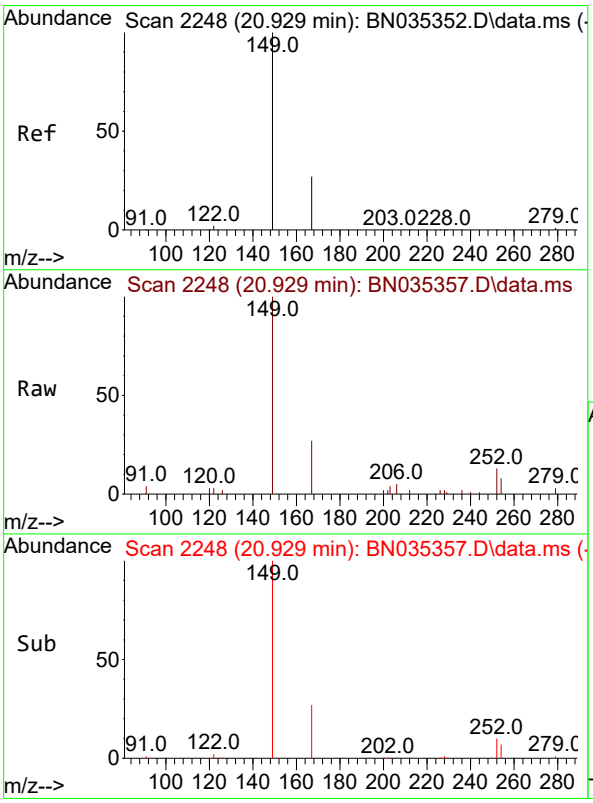
#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:228 Resp: 11926

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9

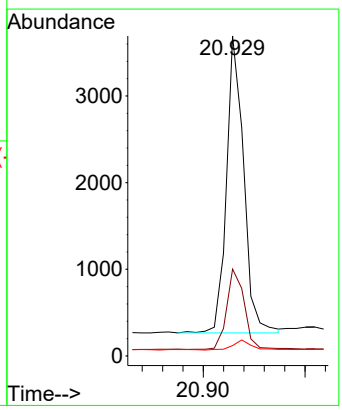


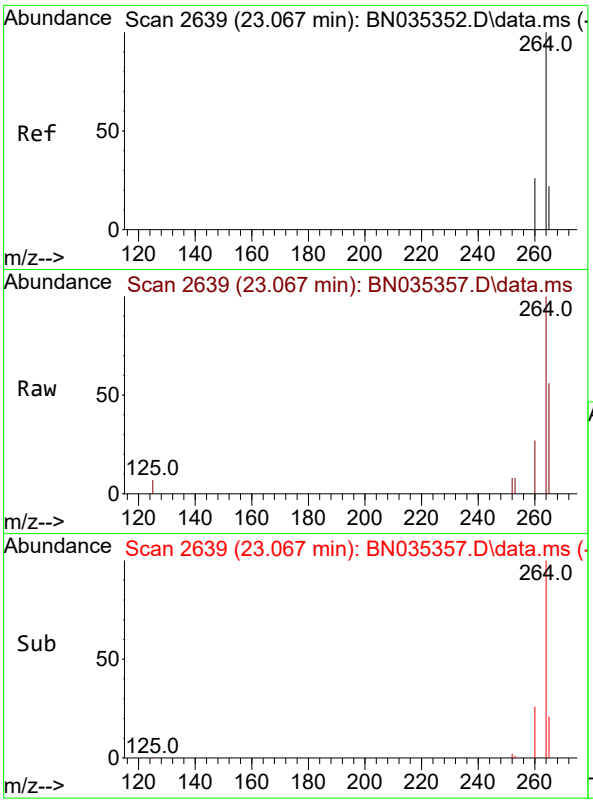


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1



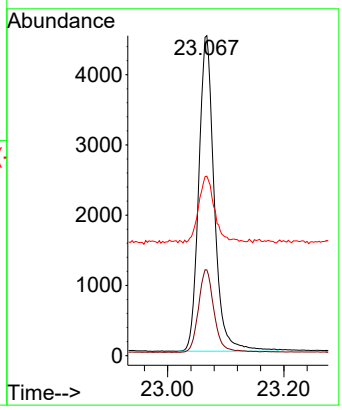


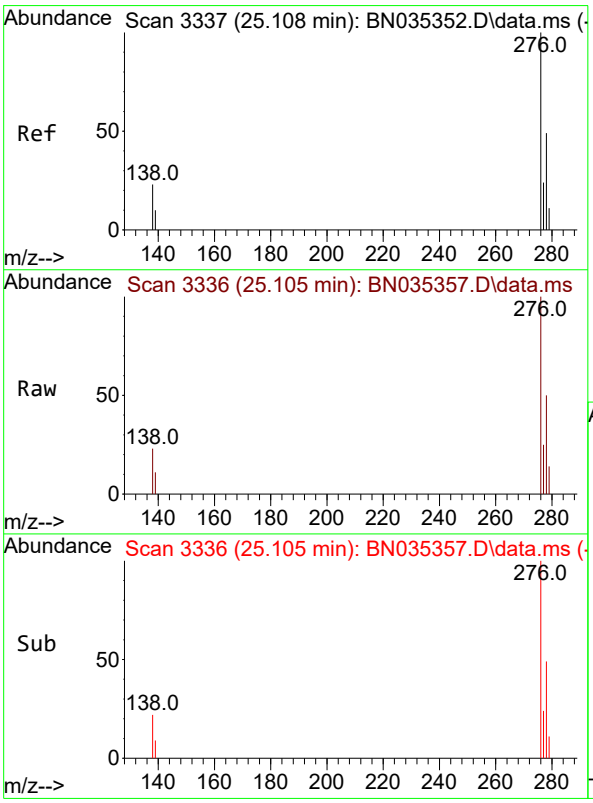
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:264 Resp: 8338

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4

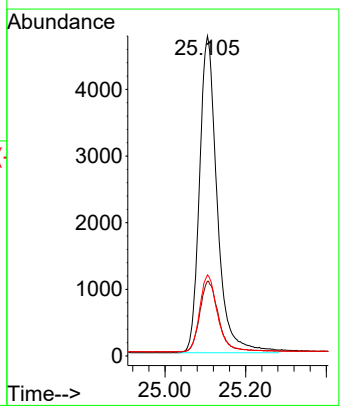


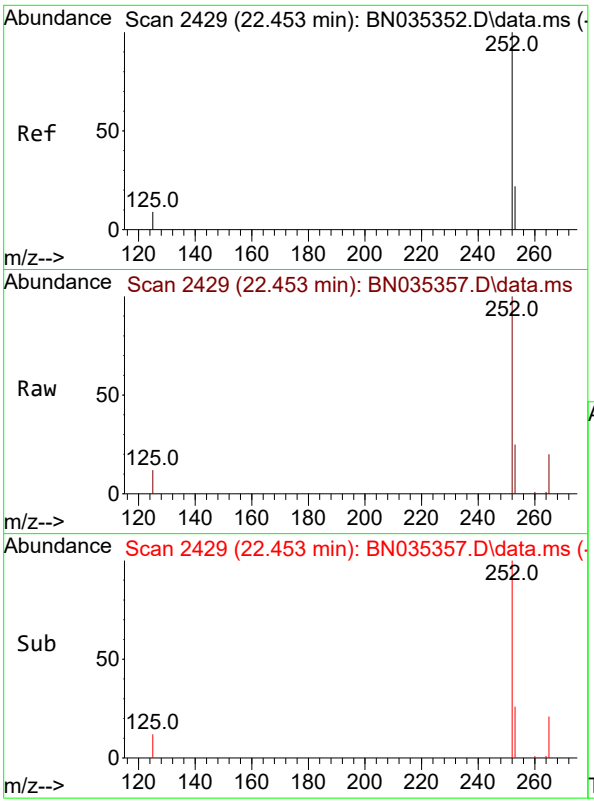


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6



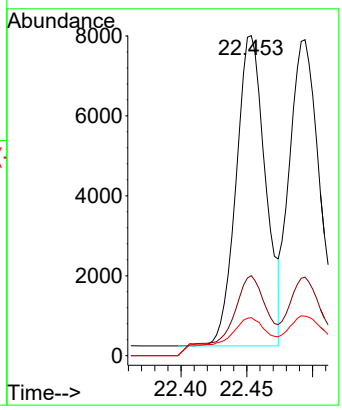


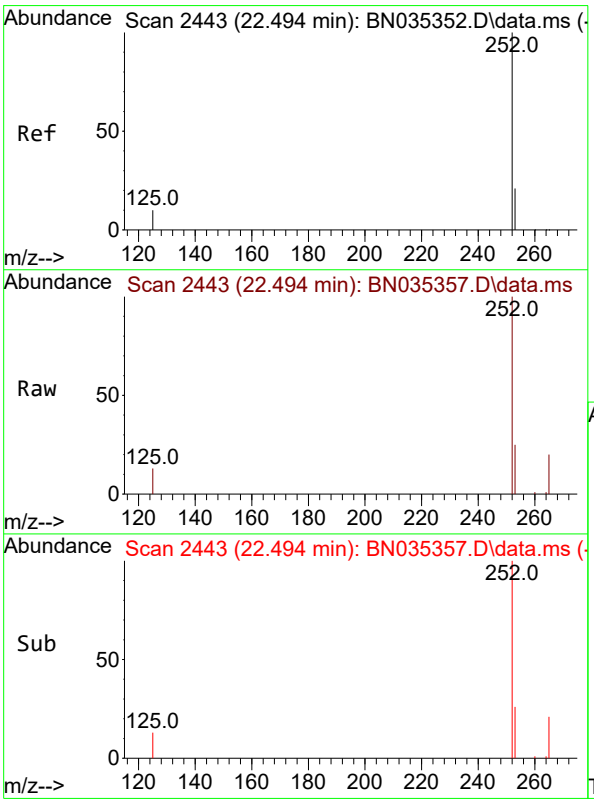
#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 12988

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4

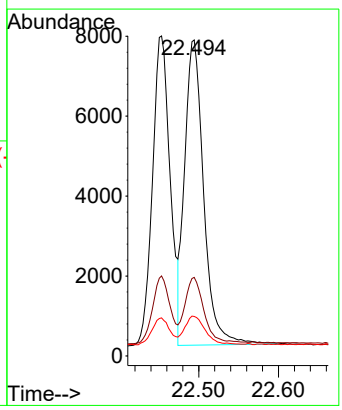


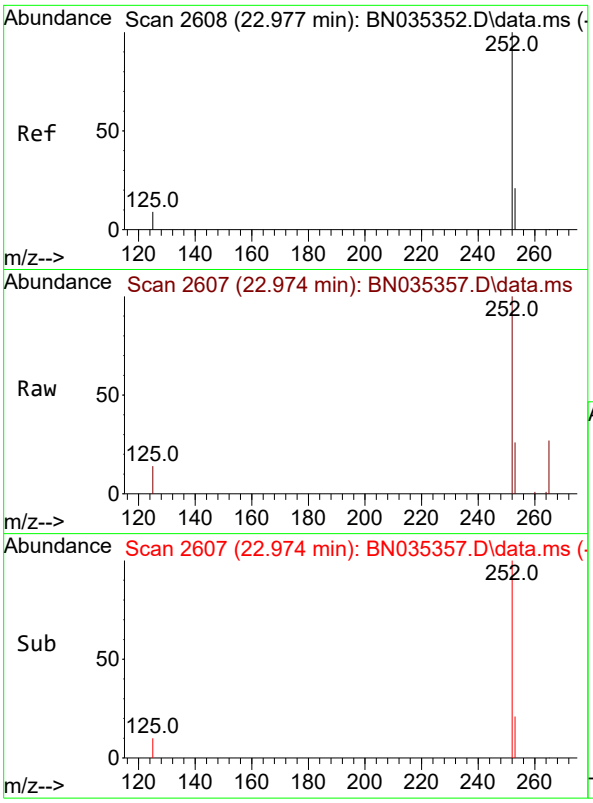


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4



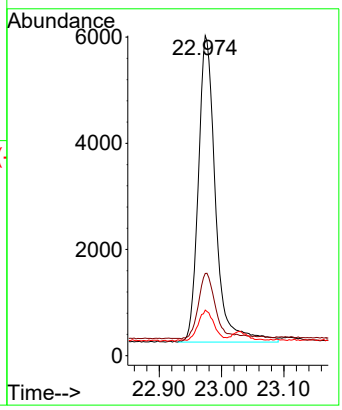


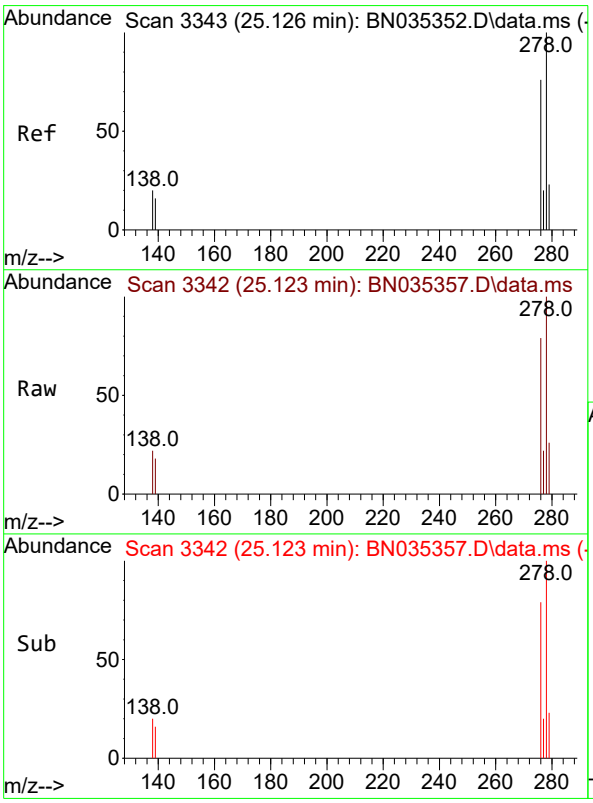
#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 11094

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3

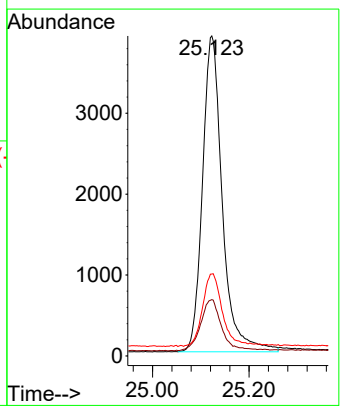


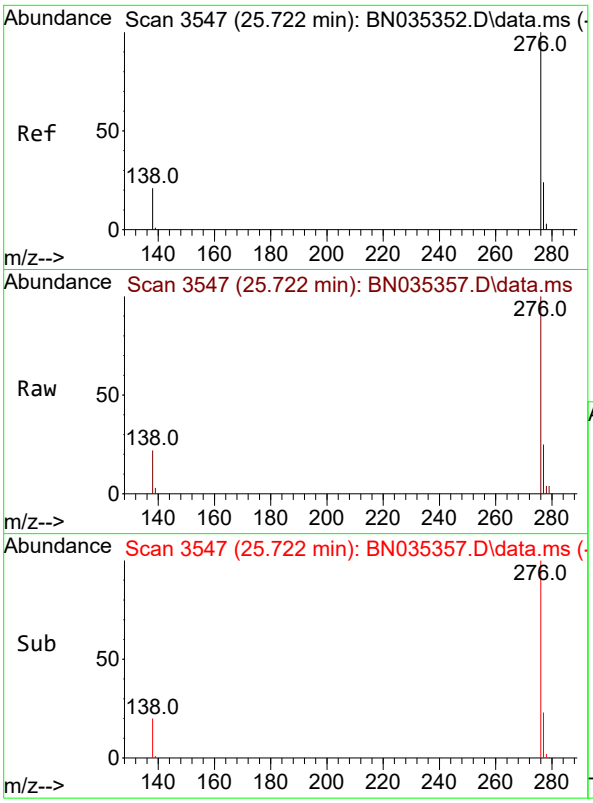


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7



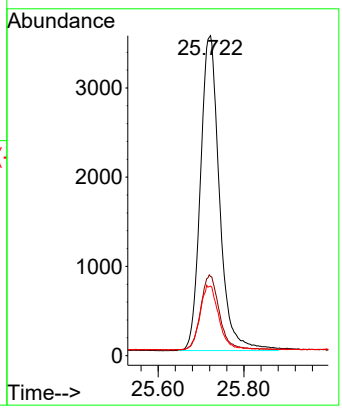


#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:276 Resp: 10870

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

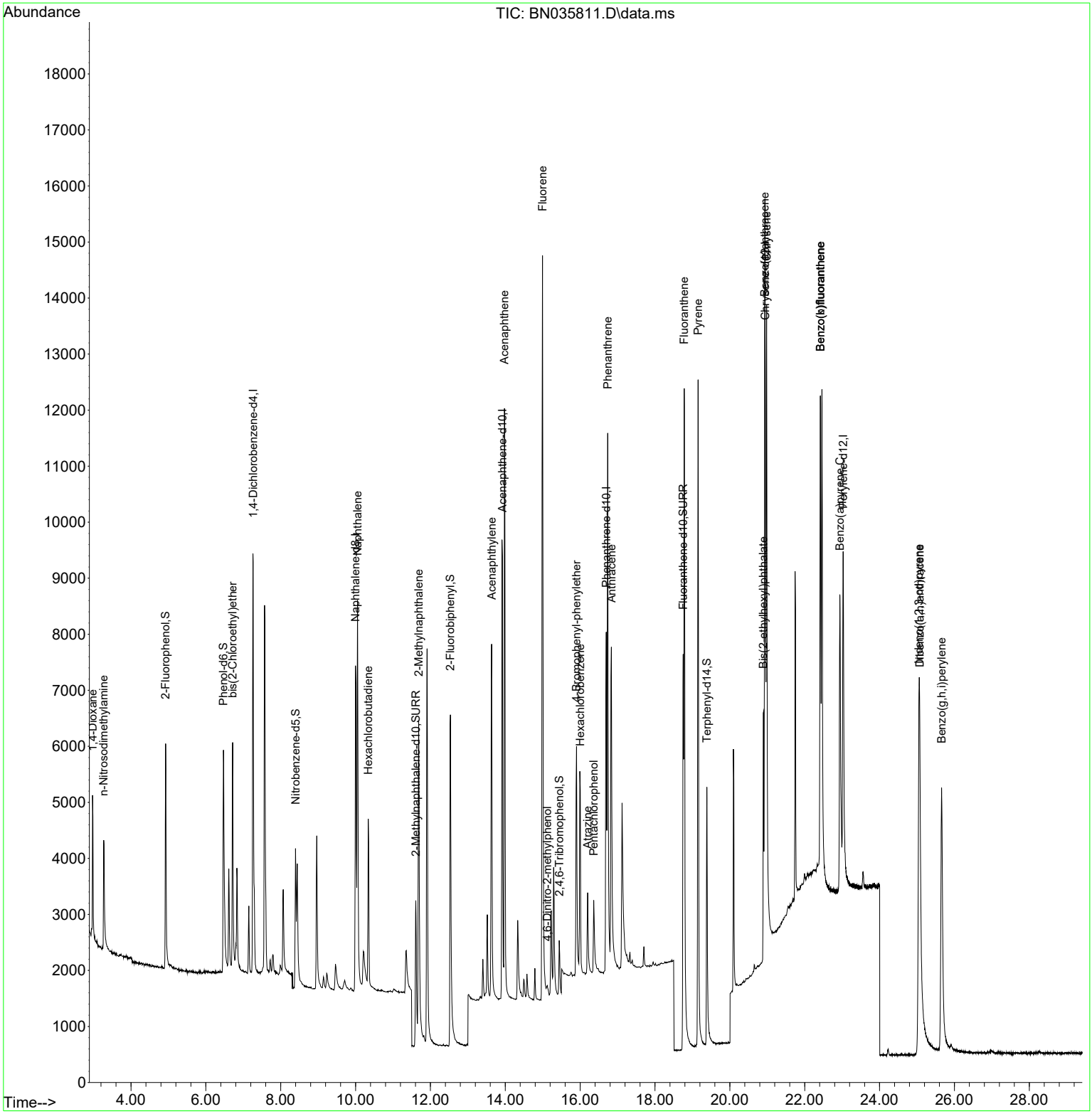
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3972	0.400	ng		0.00
7) Naphthalene-d8	9.998	136	9483	0.400	ng		-0.02
13) Acenaphthene-d10	13.924	164	5387	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10855	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8569	0.400	ng		0.00
35) Perylene-d12	23.029	264	8879	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3699	0.372	ng		-0.01
5) Phenol-d6	6.470	99	5118	0.428	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3046	0.526	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5128	0.346	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1155	0.302	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	8203	0.403	ng		-0.01
27) Fluoranthene-d10	18.752	212	10340	0.336	ng		0.00
31) Terphenyl-d14	19.384	244	6888	0.407	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1814	0.478	ng		98
3) n-Nitrosodimethylamine	3.270	42	1302	0.412	ng	#	91
6) bis(2-Chloroethyl)ether	6.715	93	3672	0.366	ng		99
9) Naphthalene	10.052	128	9671	0.387	ng		99
10) Hexachlorobutadiene	10.340	225	2548	0.442	ng	#	100
12) 2-Methylnaphthalene	11.686	142	6060	0.338	ng		100
16) Acenaphthylene	13.636	152	8415	0.372	ng		100
17) Acenaphthene	13.978	154	5782	0.385	ng		99
18) Fluorene	14.993	166	7456	0.347	ng		100
20) 4,6-Dinitro-2-methylph...	15.122	198	244	0.229	ng	#	7
21) 4-Bromophenyl-phenylether	15.904	248	2379	0.375	ng	#	93
22) Hexachlorobenzene	16.003	284	3393	0.455	ng		97
23) Atrazine	16.202	200	1640	0.363	ng		96
24) Pentachlorophenol	16.363	266	1040	0.321	ng		87
25) Phenanthrene	16.735	178	10950	0.367	ng		99
26) Anthracene	16.835	178	9488	0.352	ng		100
28) Fluoranthene	18.780	202	13421	0.334	ng		99
30) Pyrene	19.151	202	13577	0.429	ng		100
32) Benzo(a)anthracene	20.929	228	9796	0.327	ng		99
33) Chrysene	20.982	228	13234	0.428	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4719	0.399	ng		100
36) Indeno(1,2,3-cd)pyrene	25.049	276	12494	0.360	ng		99
37) Benzo(b)fluoranthene	22.418	252	16964	0.522	ng	#	95
38) Benzo(k)fluoranthene	22.418	252	17845	0.558	ng		96
39) Benzo(a)pyrene	22.939	252	10000	0.374	ng	#	91
40) Dibenzo(a,h)anthracene	25.073	278	8960	0.327	ng		94
41) Benzo(g,h,i)perylene	25.658	276	11606	0.405	ng		99

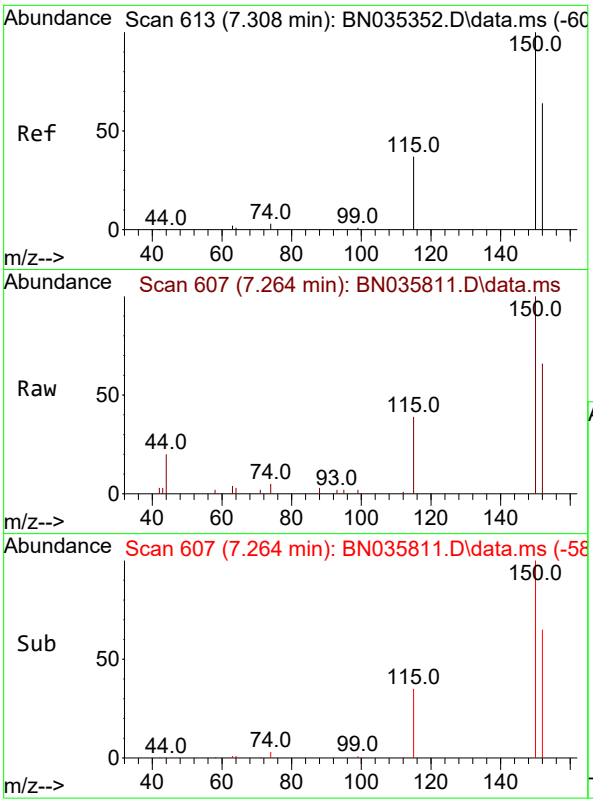
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



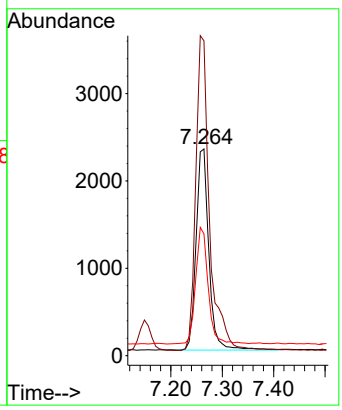


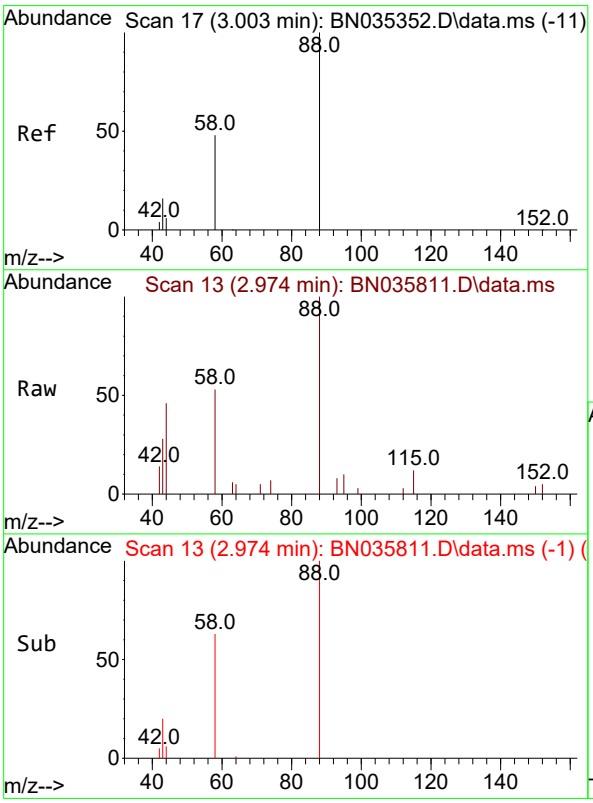
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3972

Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.0	186.0
115	58.9	49.6	74.4

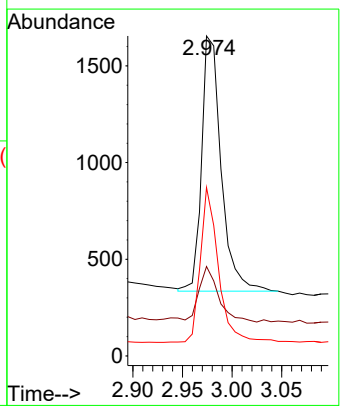


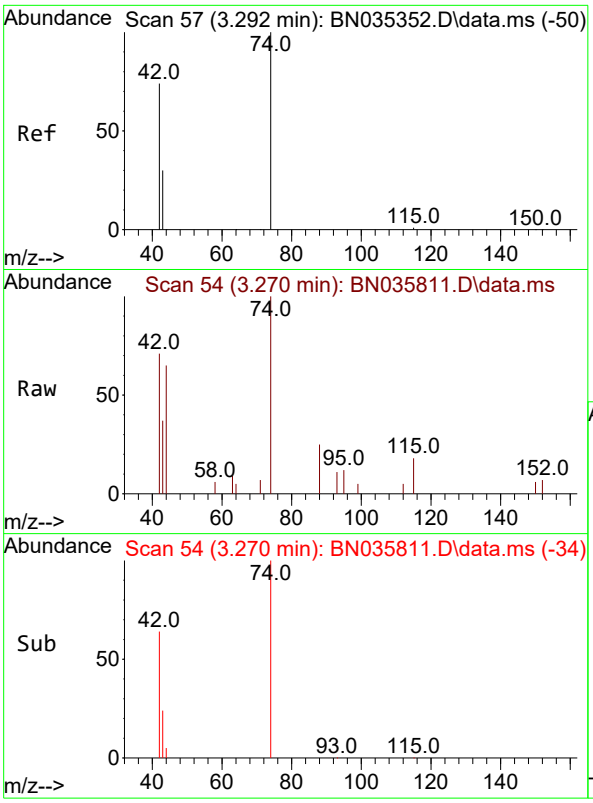


#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 88 Resp: 1814

Ion	Ratio	Lower	Upper
88	100		
43	23.2	17.2	25.8
58	56.2	44.5	66.7



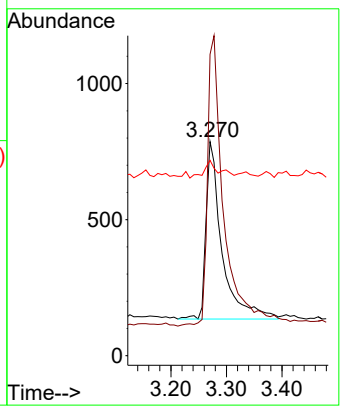


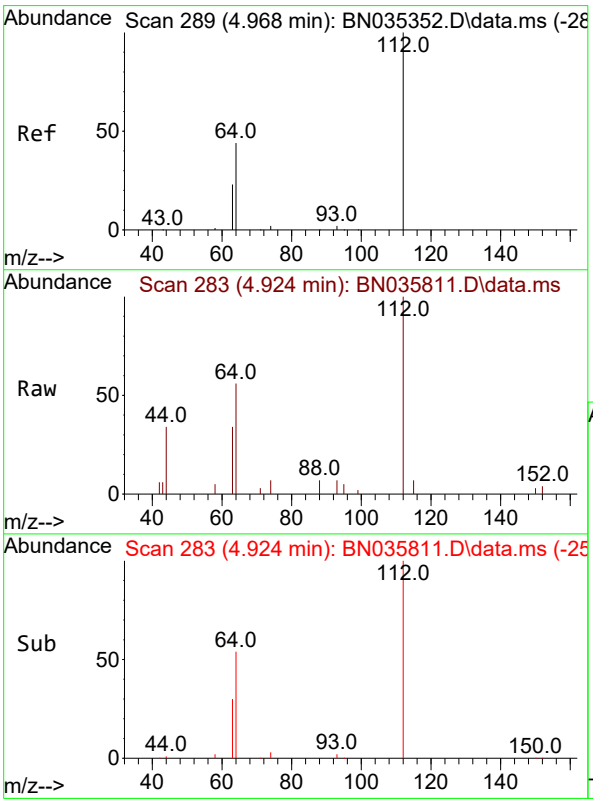
#3
n-Nitrosodimethylamine
Concen: 0.412 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1302

Ion	Ratio	Lower	Upper
42	100		
74	167.4	124.9	187.3
44	5.4	2.2	3.4#

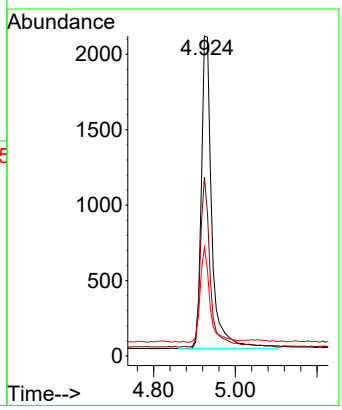


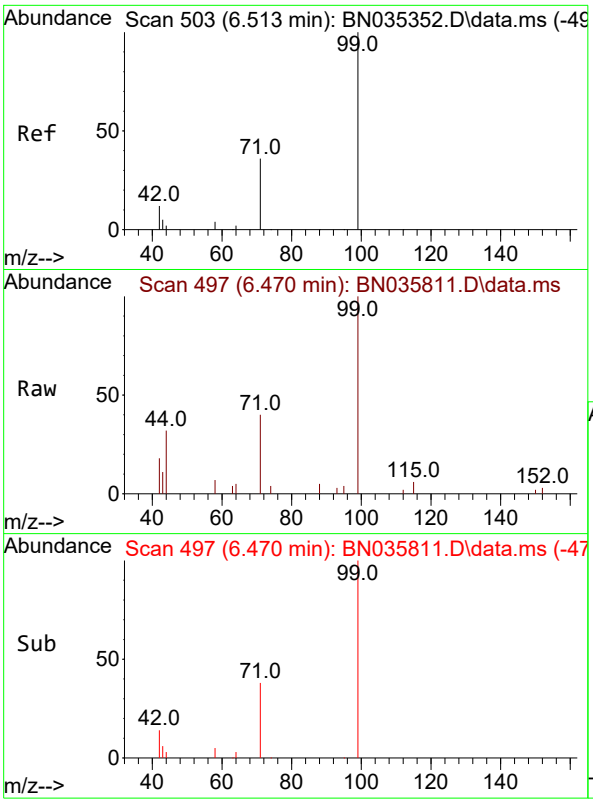


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:112 Resp: 3699

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6



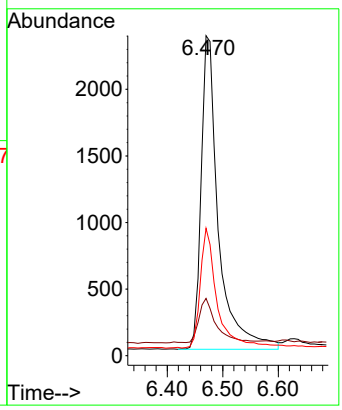


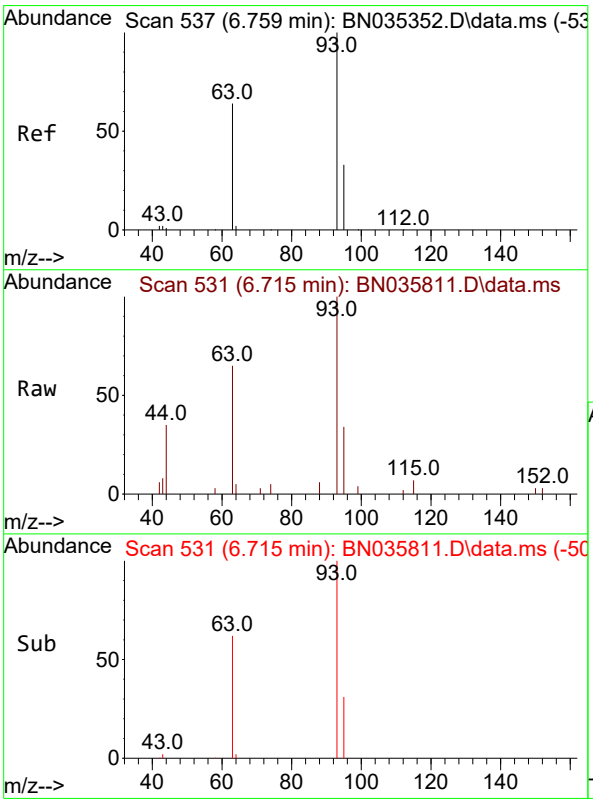
#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 5118

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.3	29.3	43.9

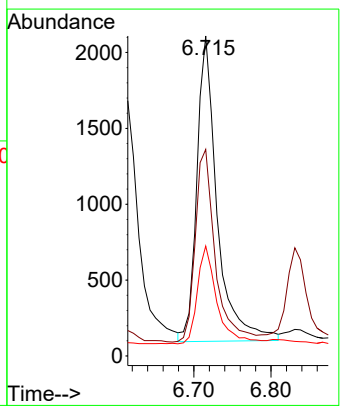


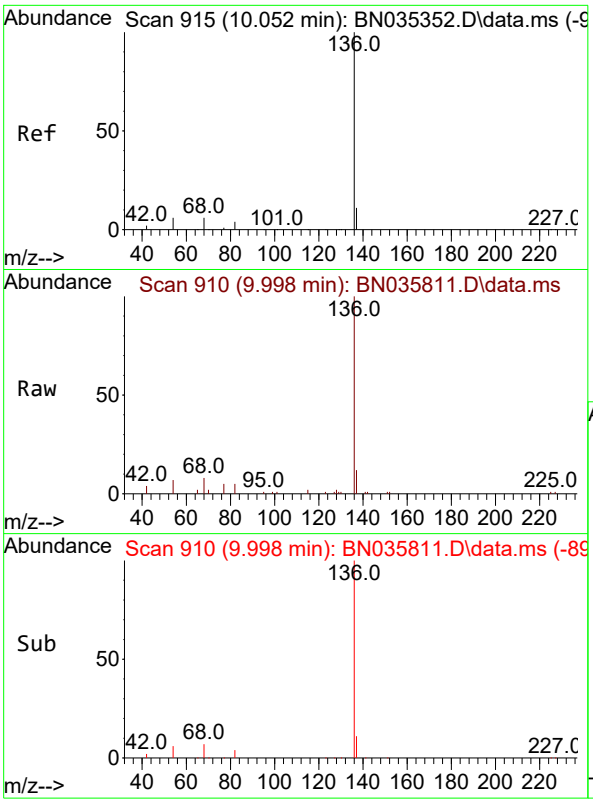


#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 93 Resp: 3672

Ion	Ratio	Lower	Upper
93	100		
63	62.3	50.4	75.6
95	30.7	25.7	38.5



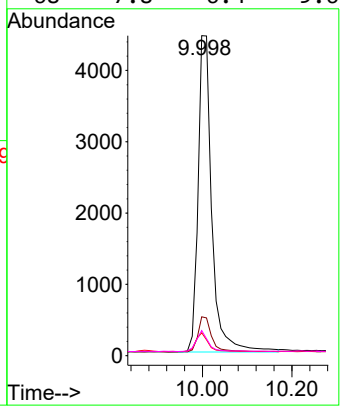


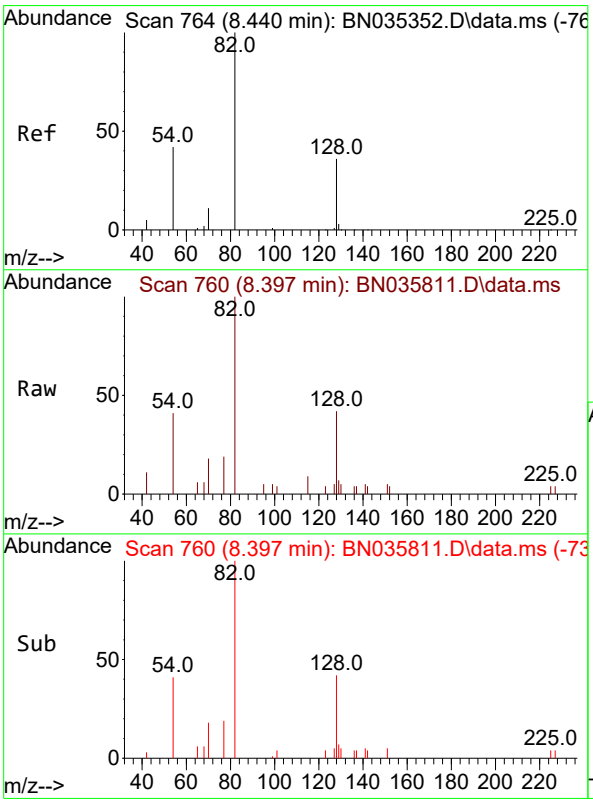
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 9483

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.1	6.1	9.1
68	7.8	6.4	9.6

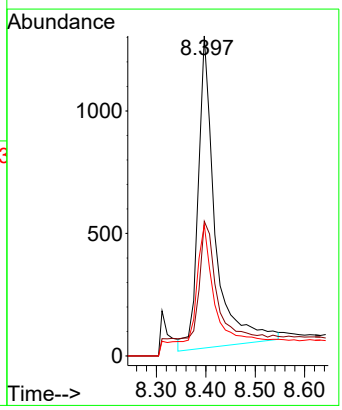


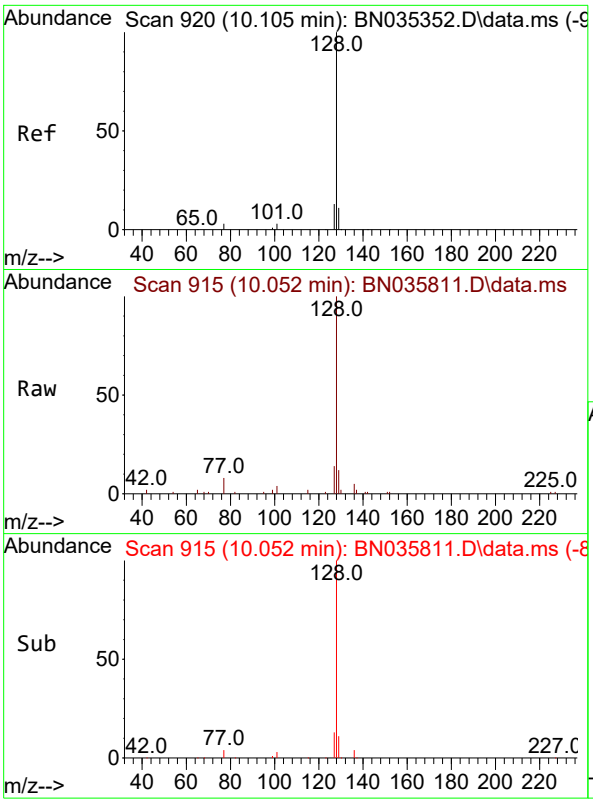


#8
Nitrobenzene-d5
Concen: 0.526 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 82 Resp: 3046

Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.4	50.0
54	41.0	36.7	55.1



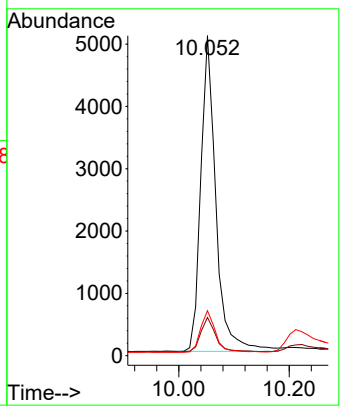


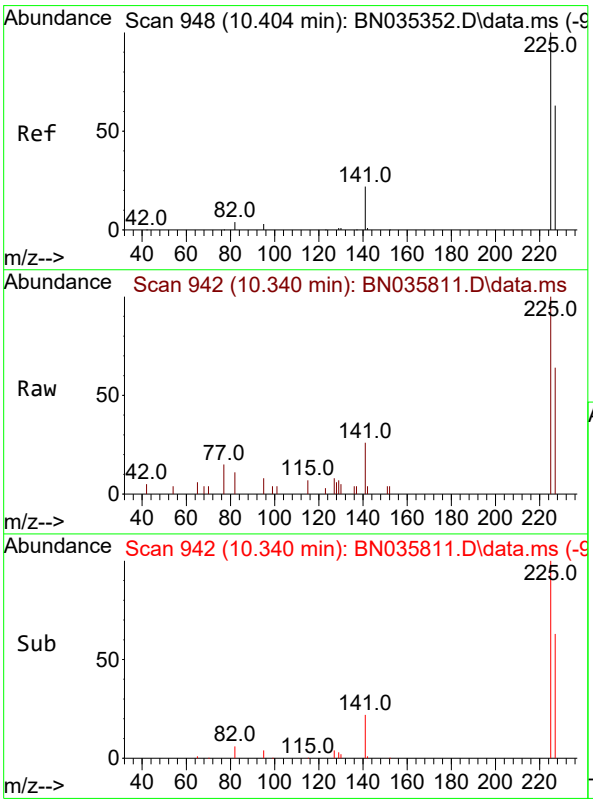
#9
Naphthalene
Concen: 0.387 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 9671

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.1	11.4	17.2

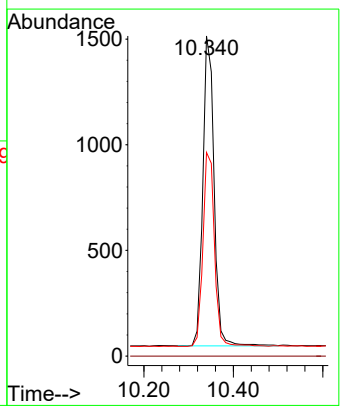


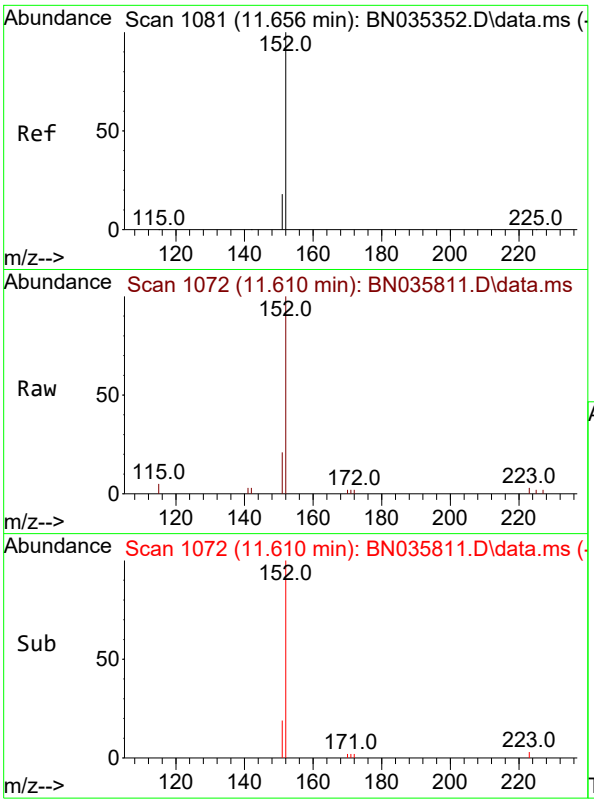


#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:225 Resp: 2548

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9



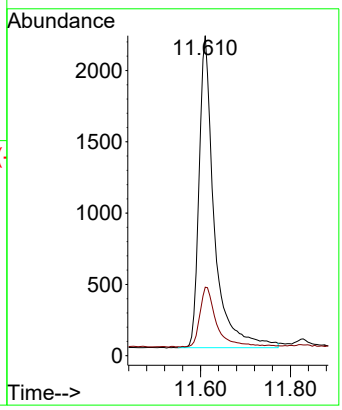


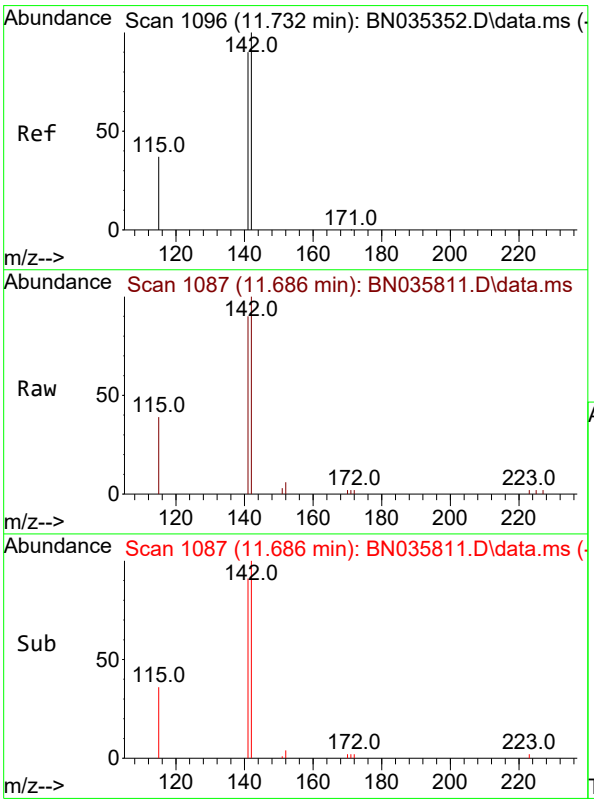
#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5128

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

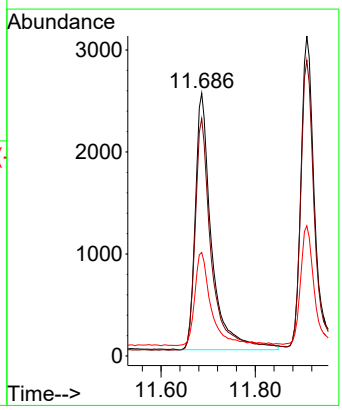


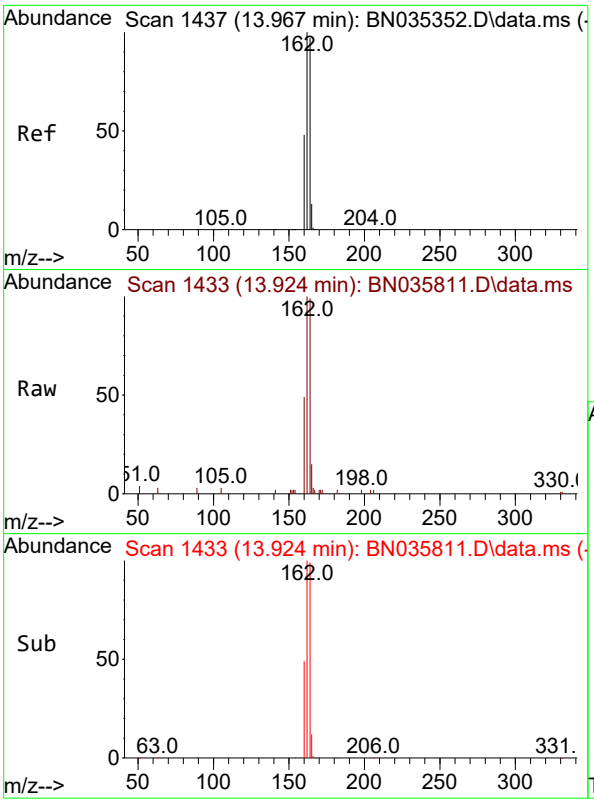


#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:142 Resp: 6060

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.4	31.4	47.0



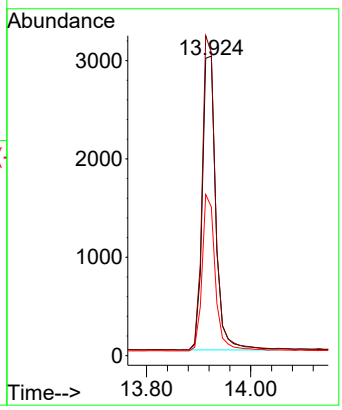


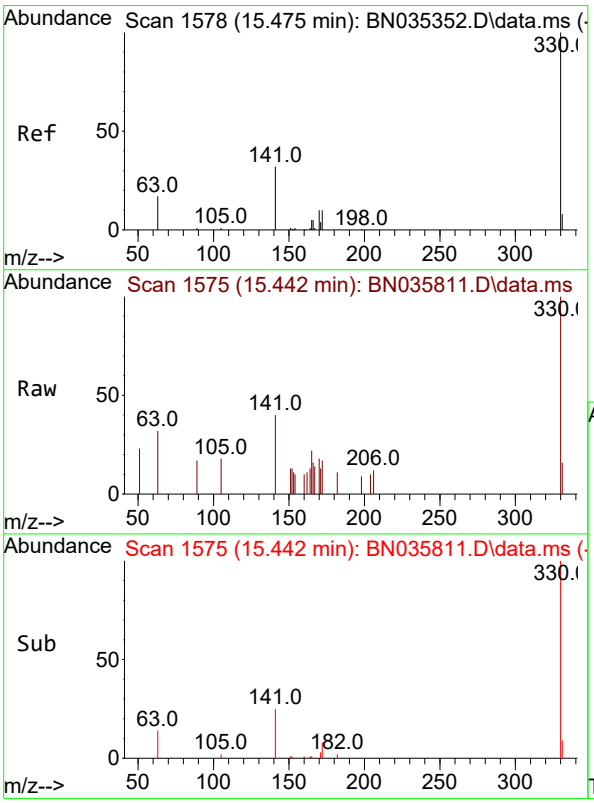
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5387

Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	49.7	40.1	60.1

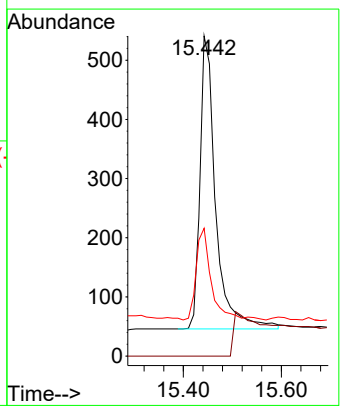


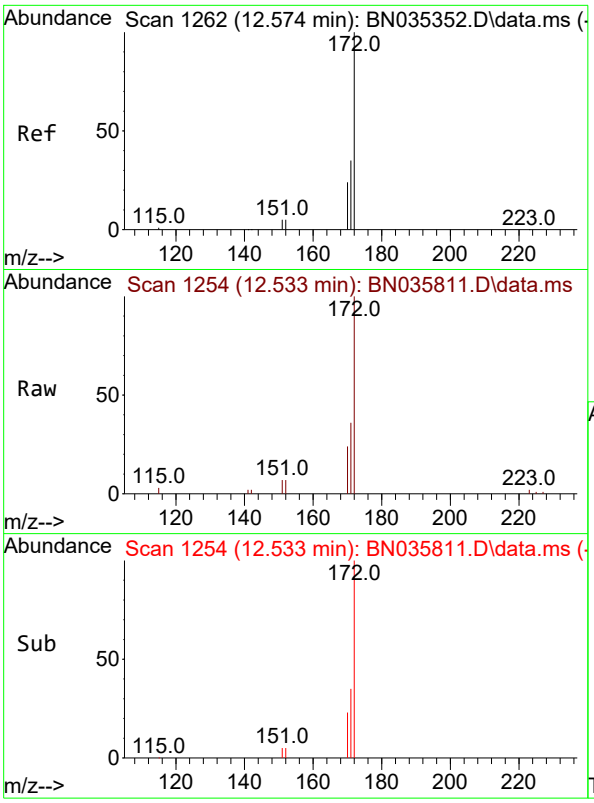


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:330 Resp: 1155

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.2	26.6	40.0



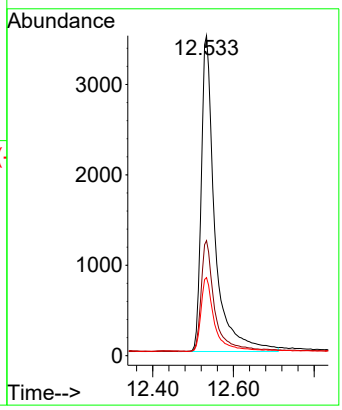


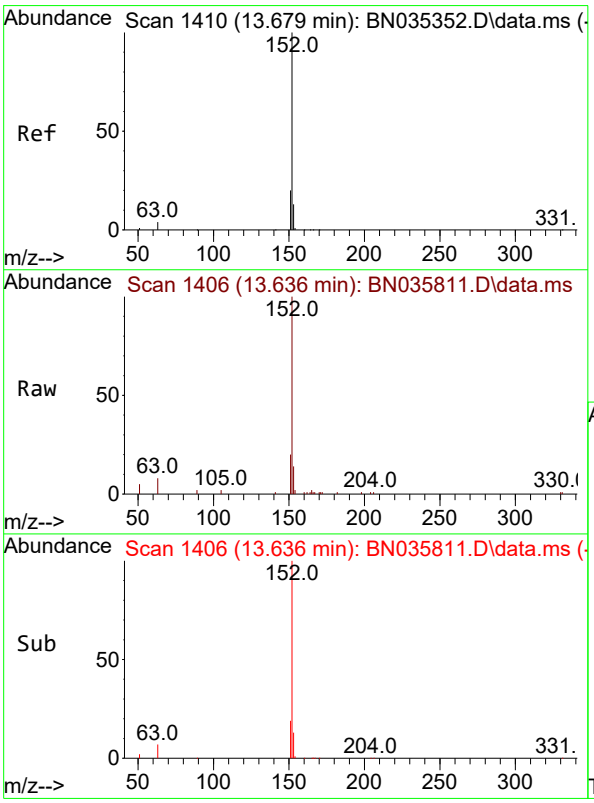
#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 8203

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.4	19.8	29.8

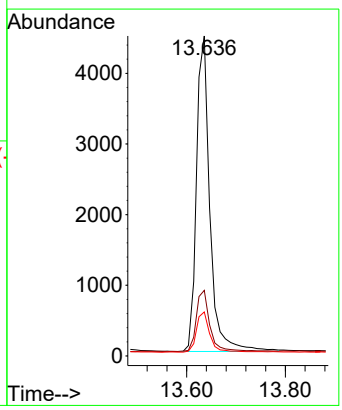


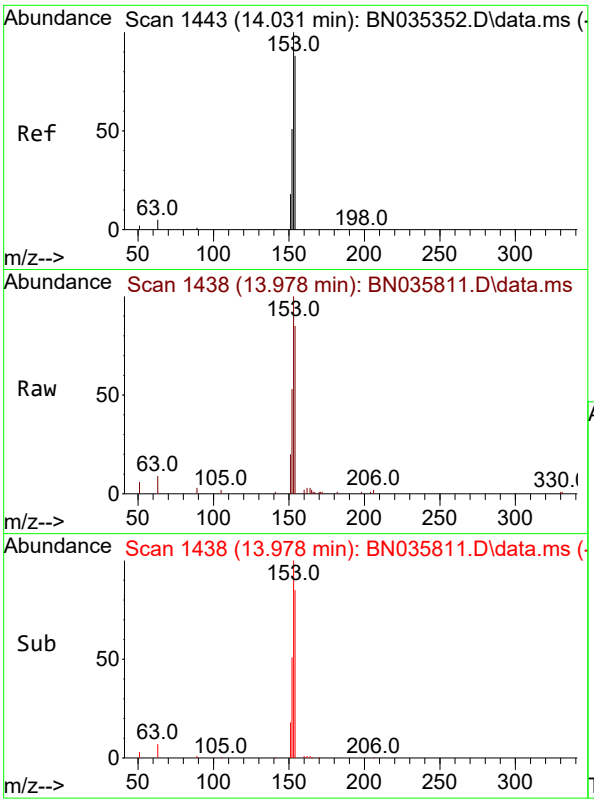


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 8415

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6



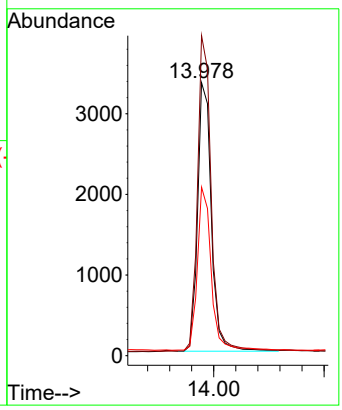


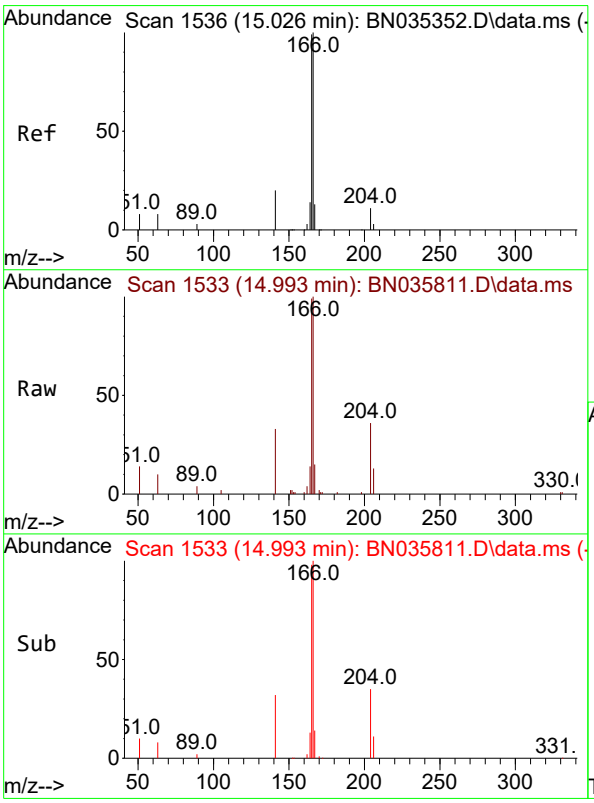
#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 5782

Ion	Ratio	Lower	Upper
154	100		
153	117.6	92.6	139.0
152	60.7	49.0	73.6

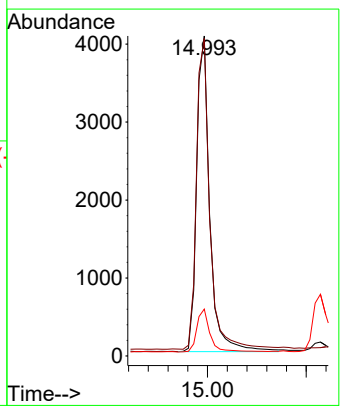


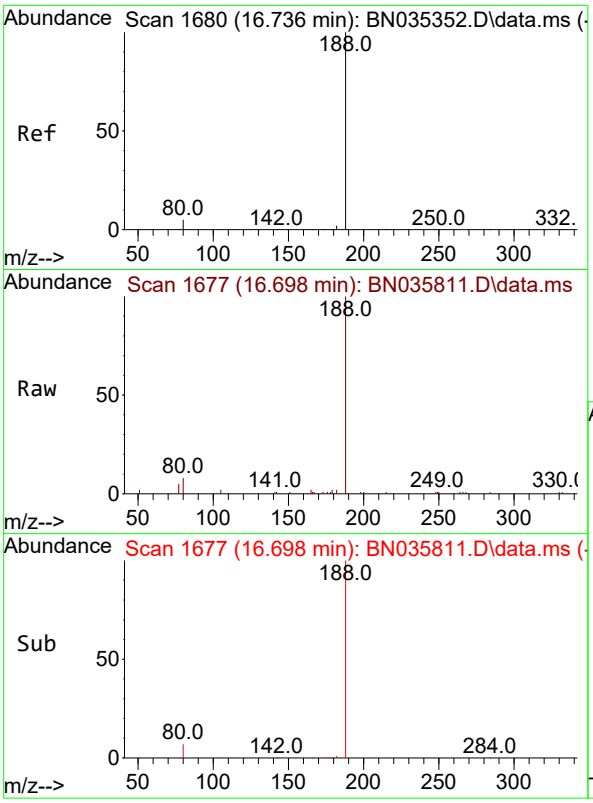


#18
Fluorene
Concen: 0.347 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:166 Resp: 7456

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.7	10.8	16.2



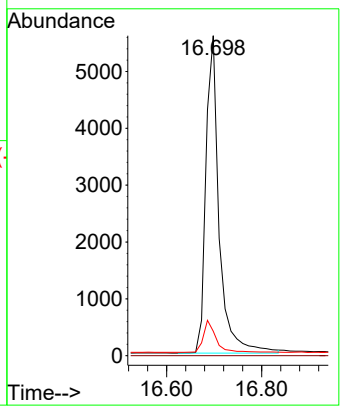


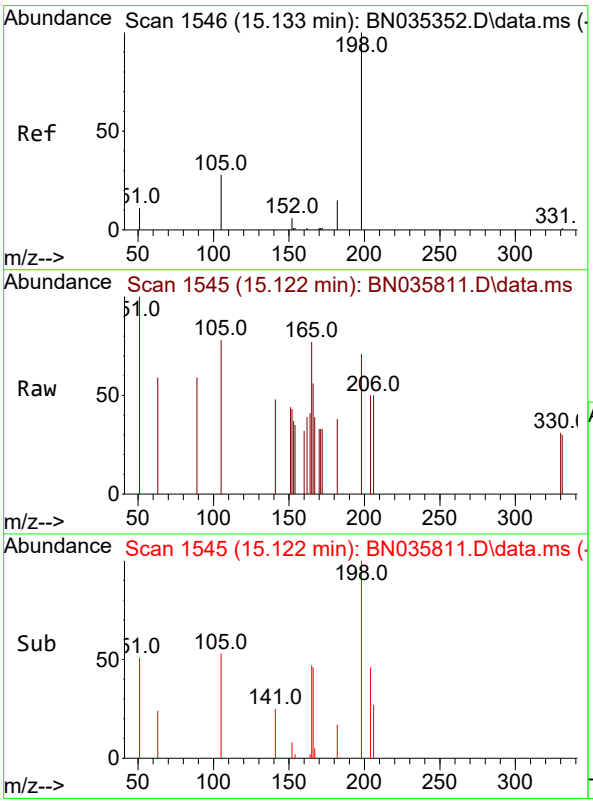
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 10855

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#

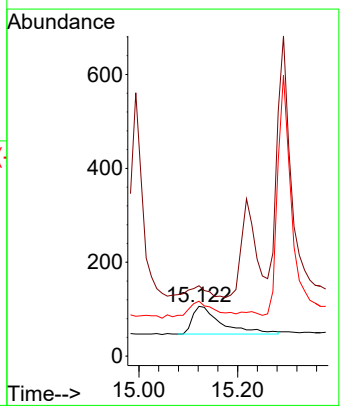


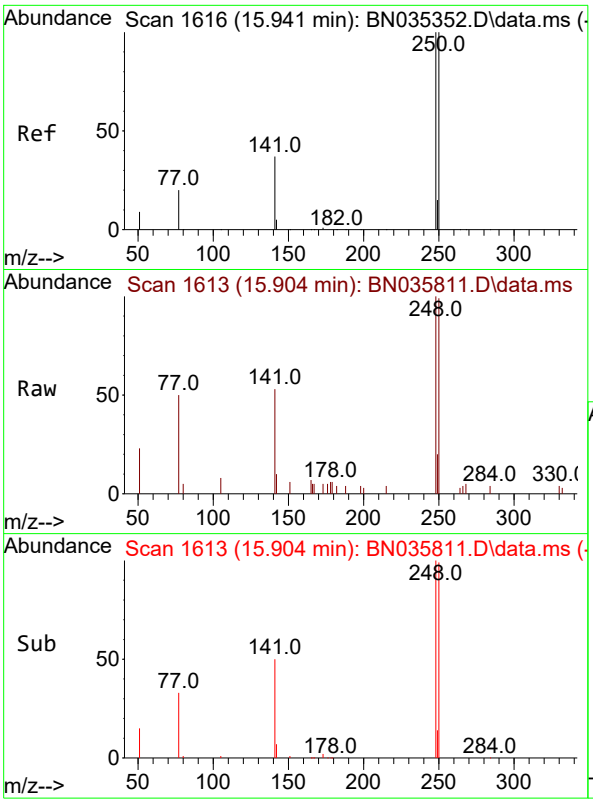


#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:198 Resp: 244

Ion	Ratio	Lower	Upper
198	100		
51	141.5	46.5	69.7#
105	110.4	45.3	67.9#



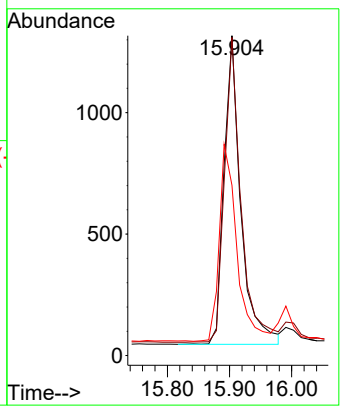


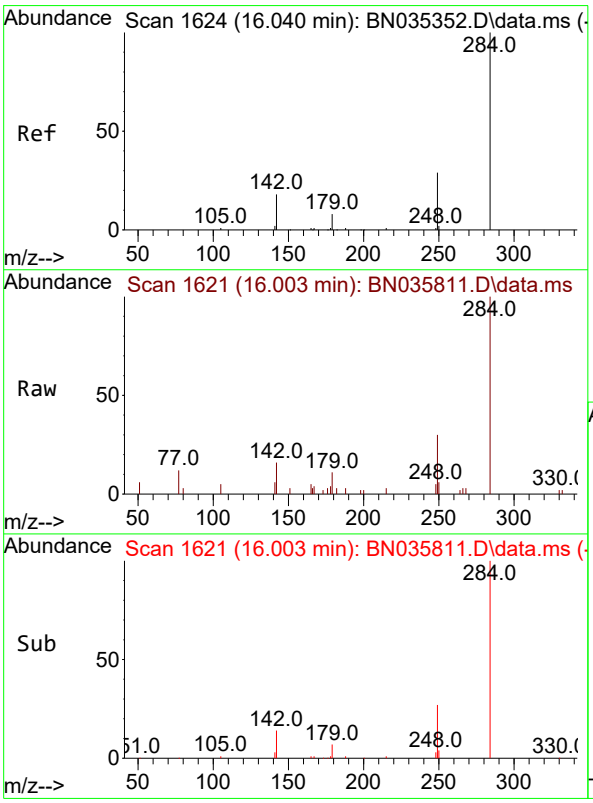
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2379

Ion	Ratio	Lower	Upper
248	100		
250	99.5	80.6	120.8
141	53.2	31.5	47.3#

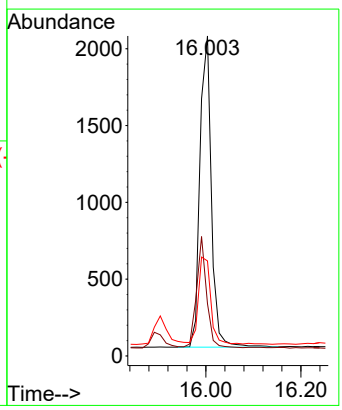


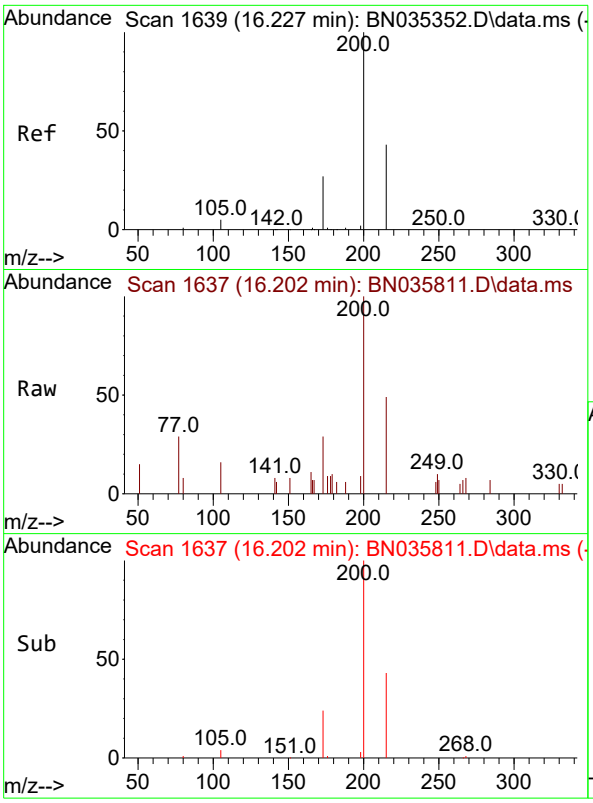


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:284 Resp: 3393

Ion	Ratio	Lower	Upper
284	100		
142	31.1	26.7	40.1
249	30.0	24.6	36.8



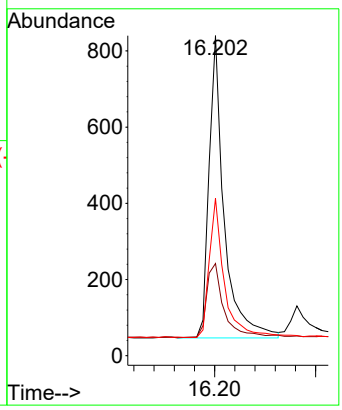


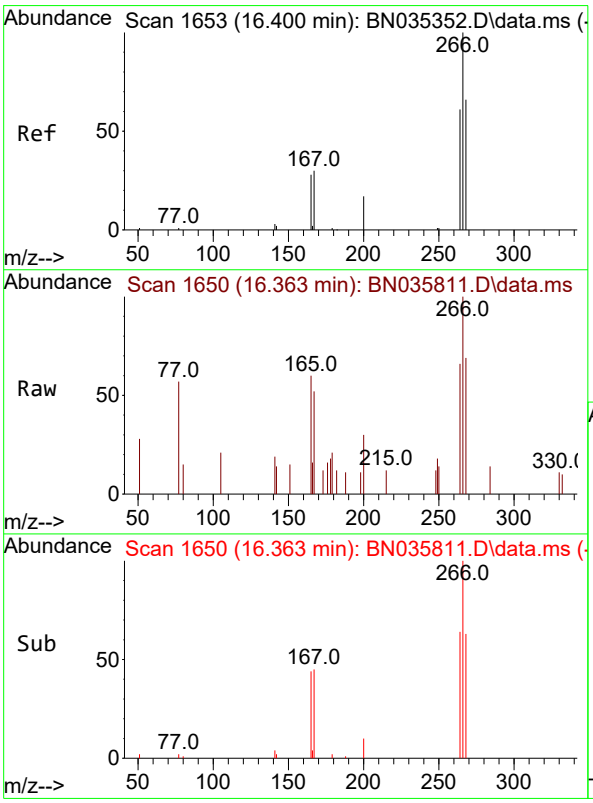
#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1640

Ion	Ratio	Lower	Upper
200	100		
173	28.8	24.1	36.1
215	49.2	36.9	55.3

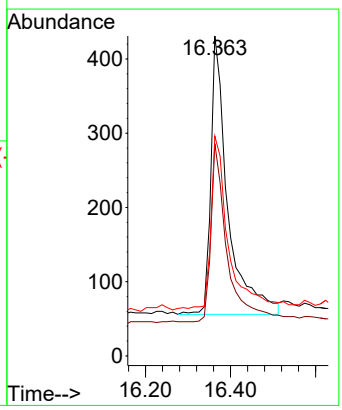


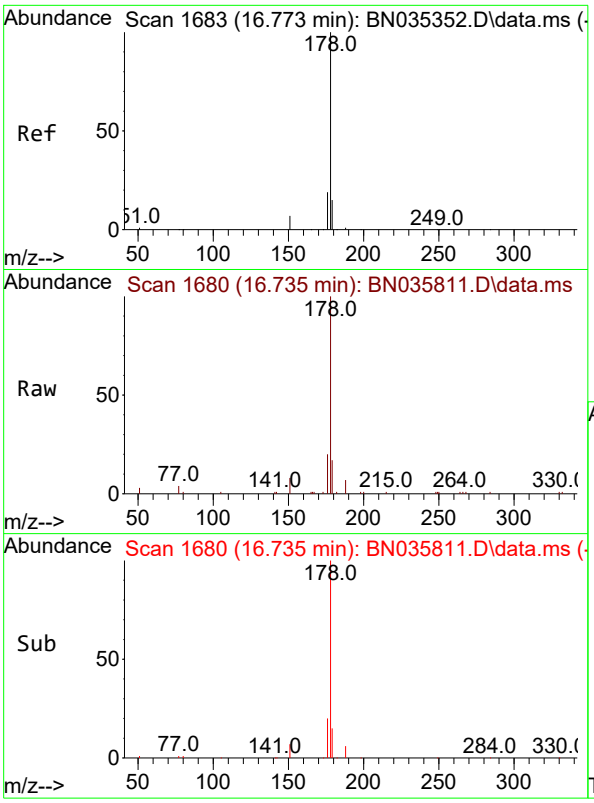


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:266 Resp: 1040

Ion	Ratio	Lower	Upper
266	100		
264	61.4	42.3	63.5
268	64.5	43.3	64.9



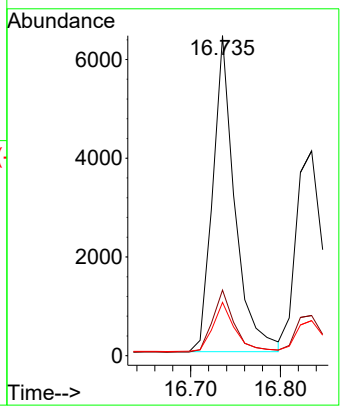


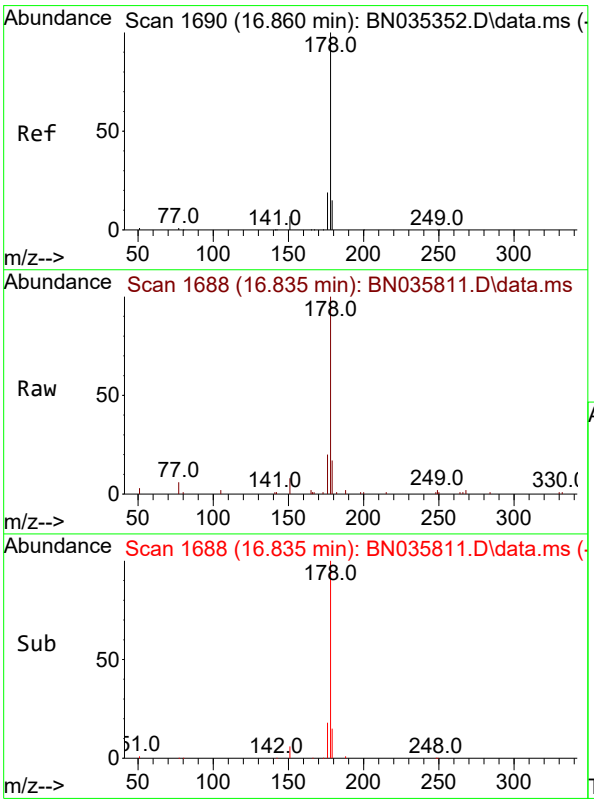
#25
Phenanthrene
Concen: 0.367 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 10950

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.5	12.3	18.5

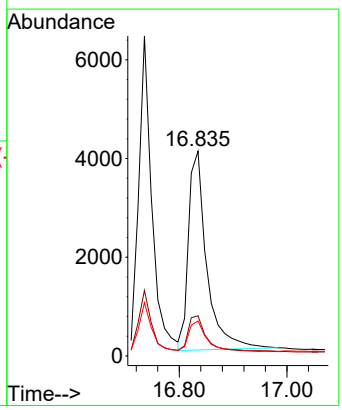


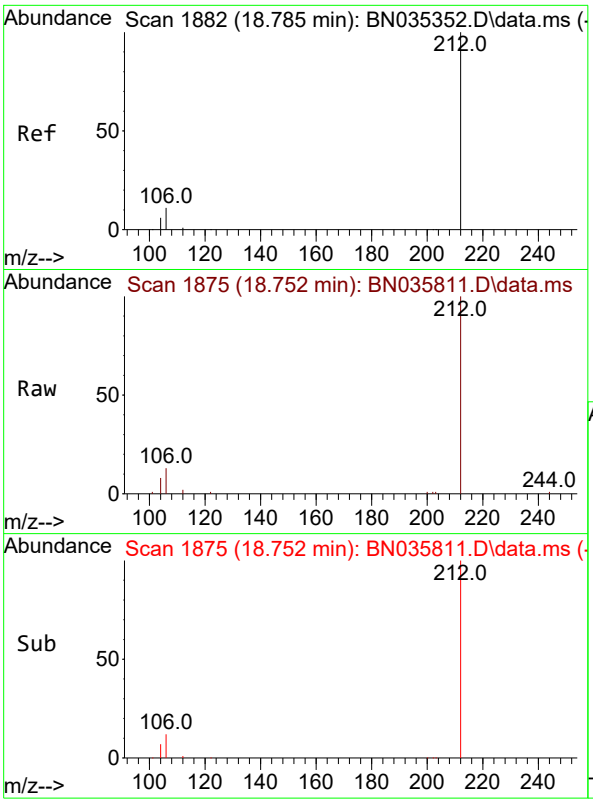


#26
Anthracene
Concen: 0.352 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 9488

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.7	12.6	18.8



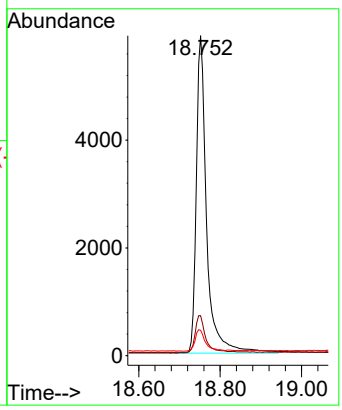


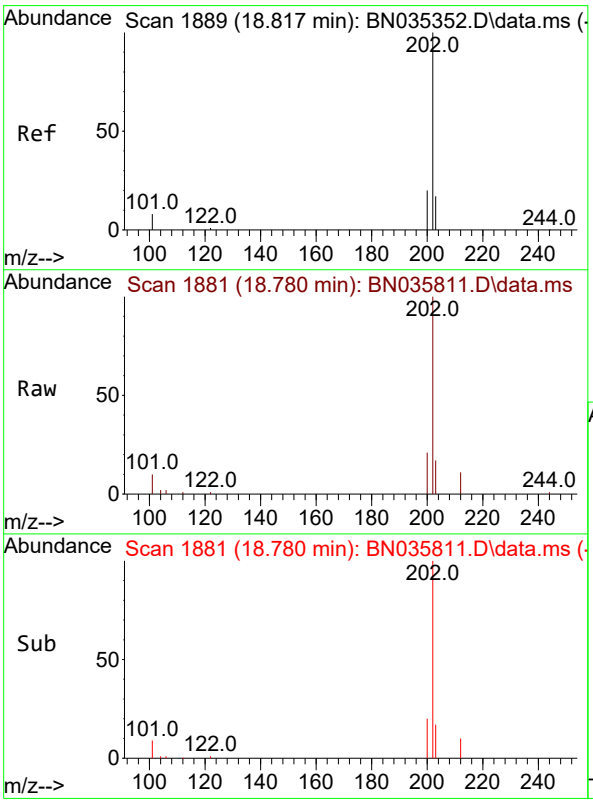
#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 10340

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.8	5.3	7.9

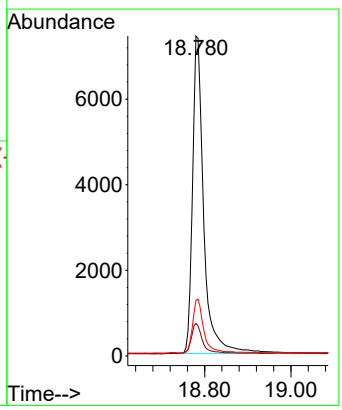


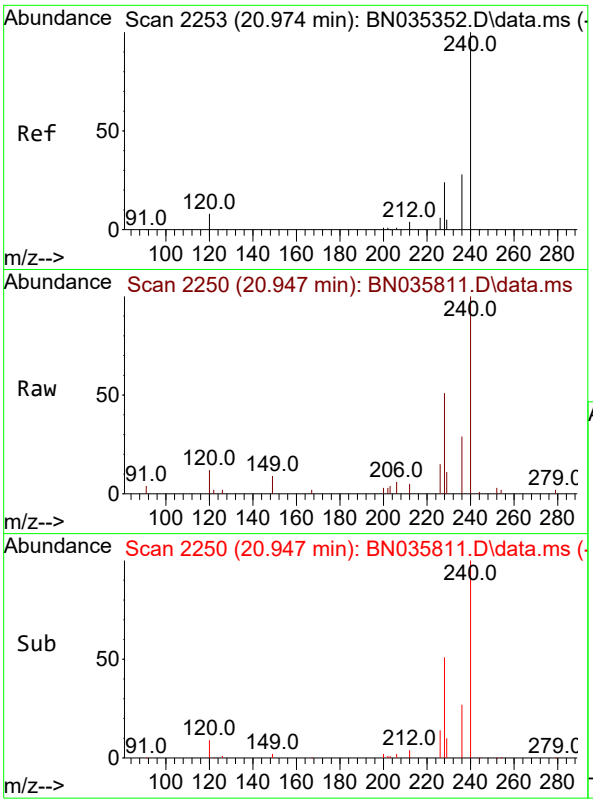


#28
Fluoranthene
Concen: 0.334 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13421

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.5	13.7	20.5



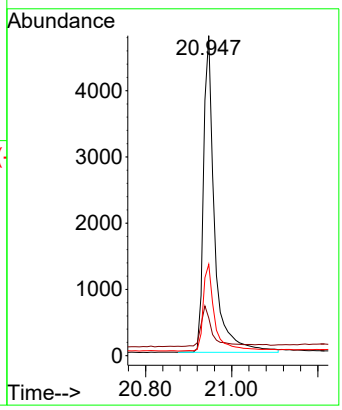


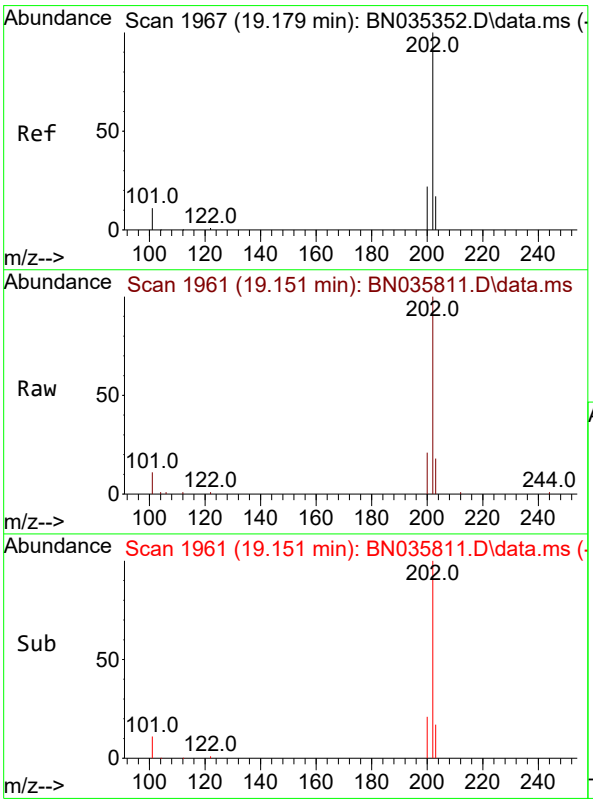
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8569

Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	28.6	22.9	34.3

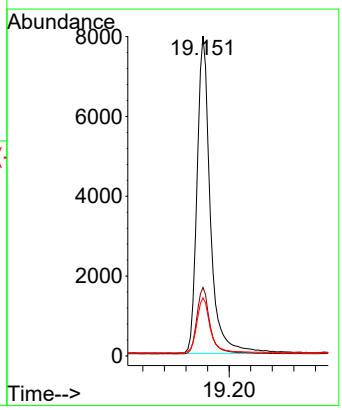


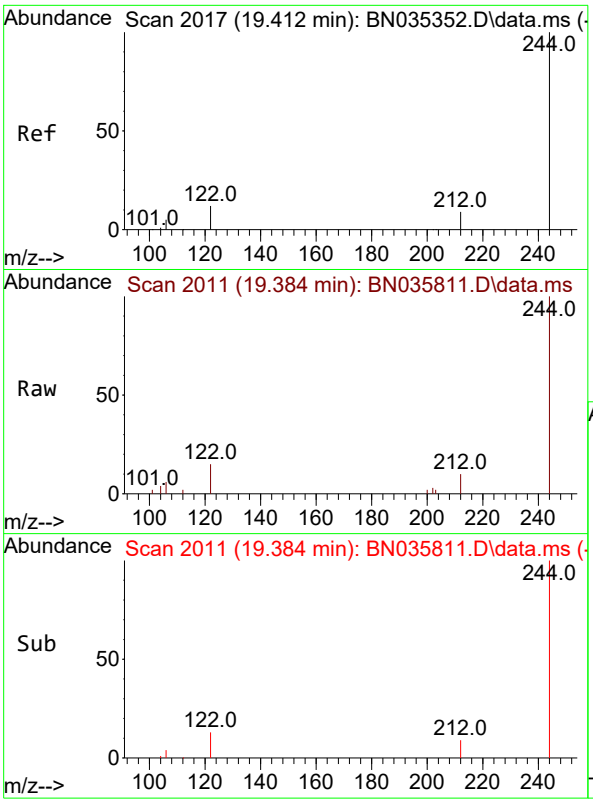


#30
Pyrene
Concen: 0.429 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13577

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5



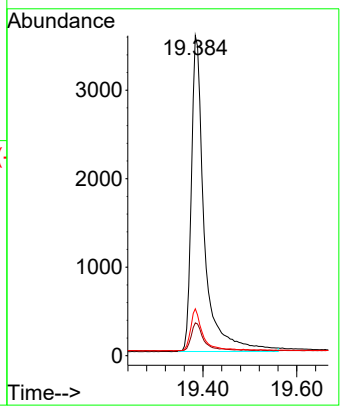


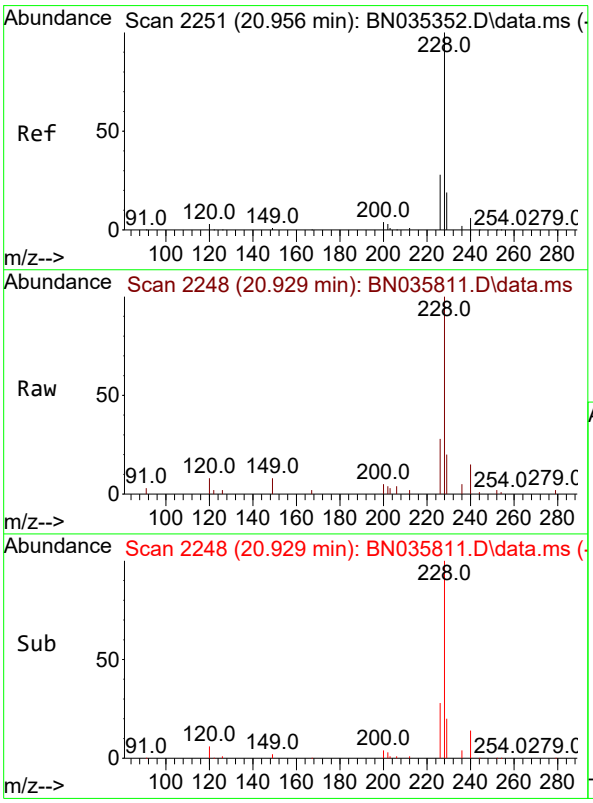
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6888

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.7	10.3	15.5

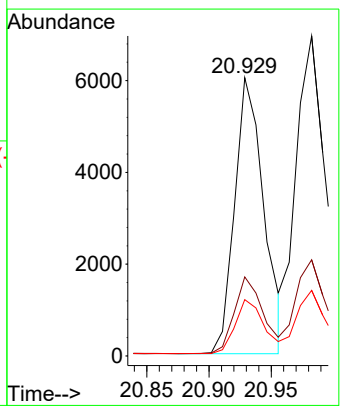


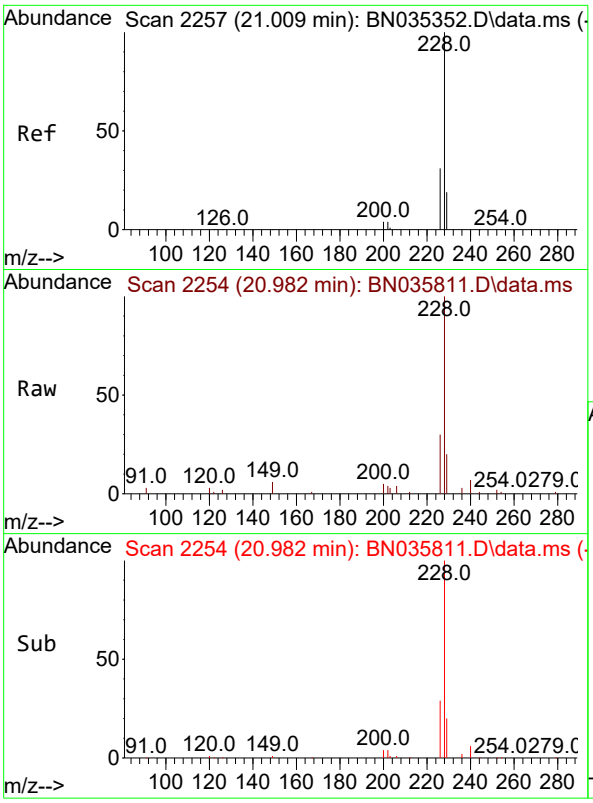


#32
Benzo(a)anthracene
Concen: 0.327 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 9796

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.3	15.8	23.8



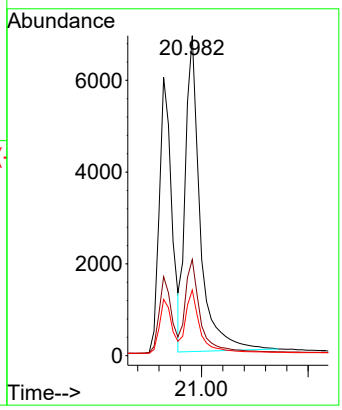


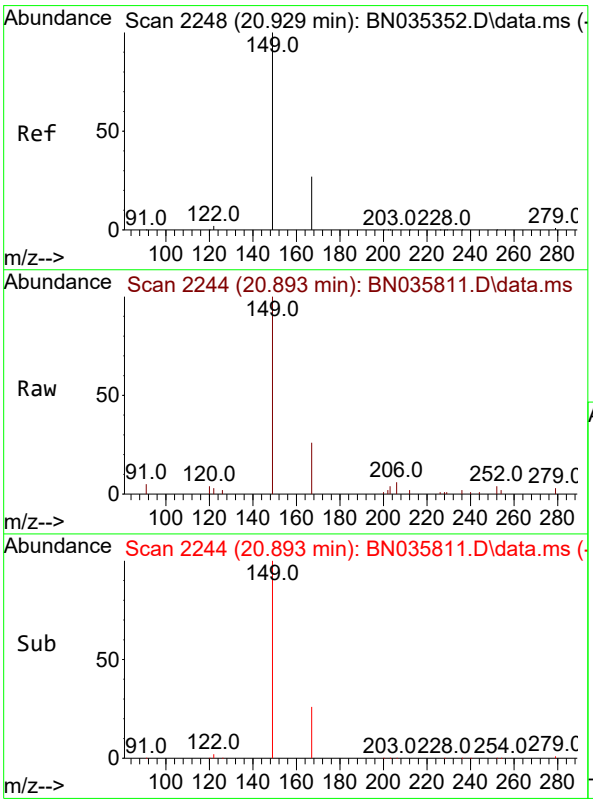
#33
Chrysene
Concen: 0.428 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 13234

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	20.5	15.9	23.9

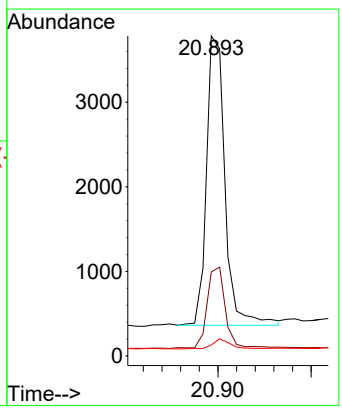


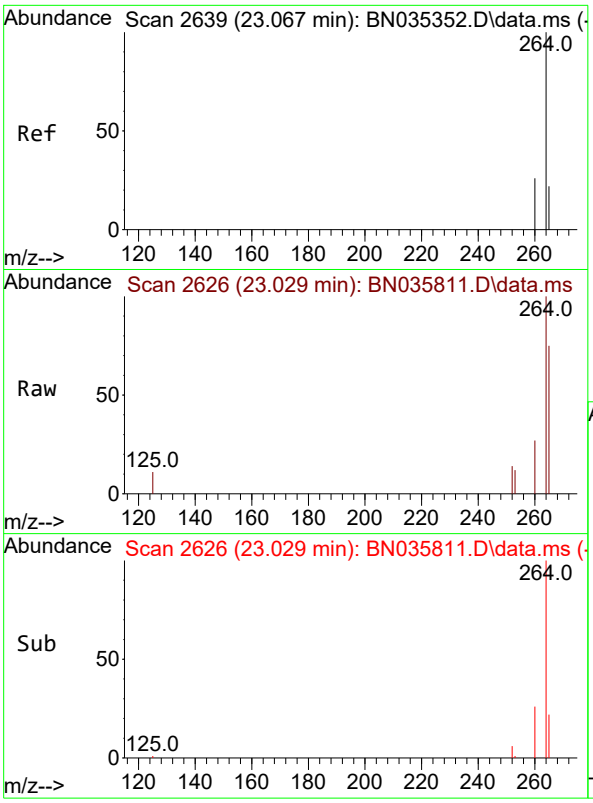


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:149 Resp: 4719

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	3.4	2.7	4.1



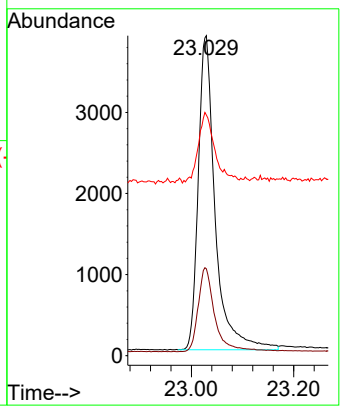


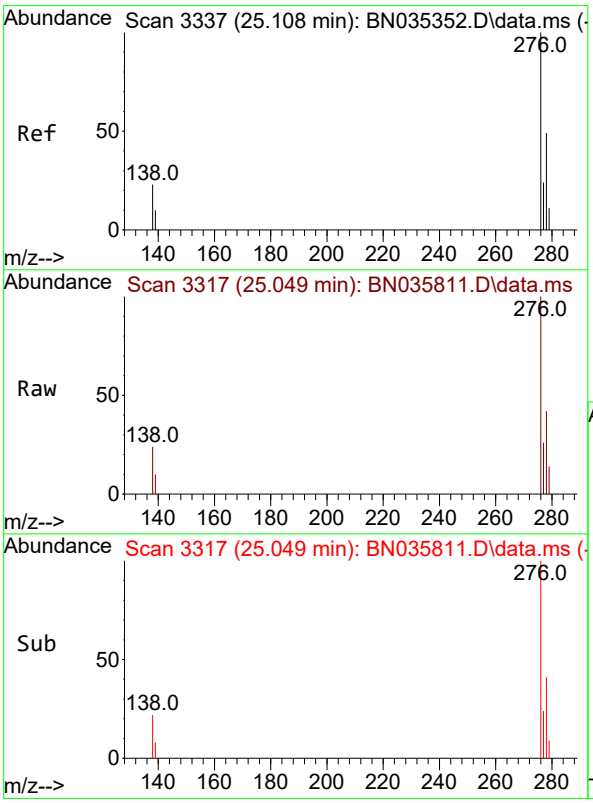
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8879

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	75.2	40.2	60.4#

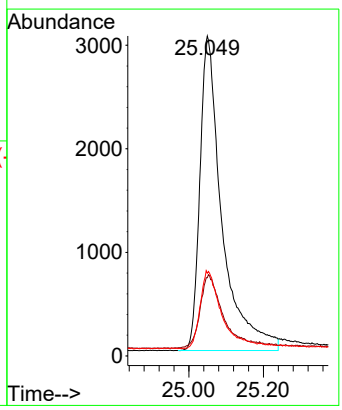


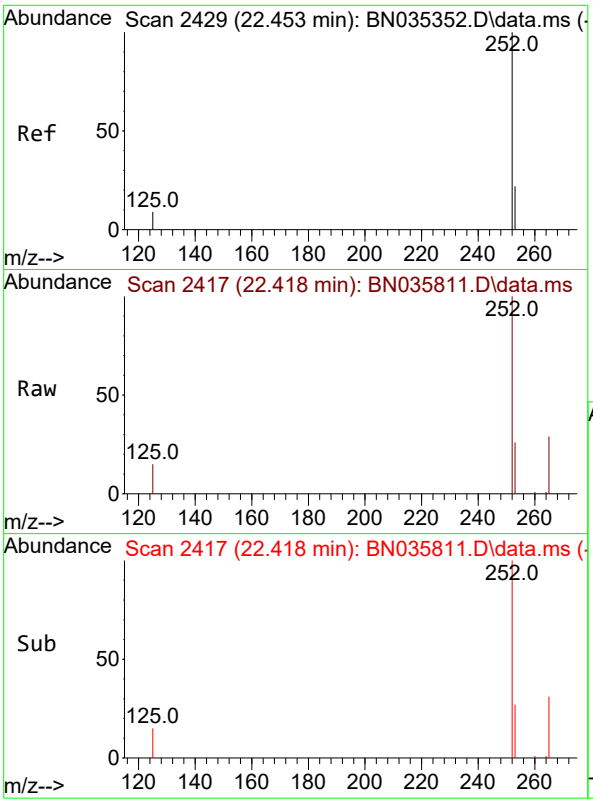


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.049 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 12494

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.1	19.8	29.6



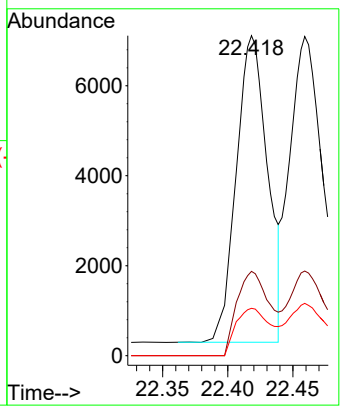


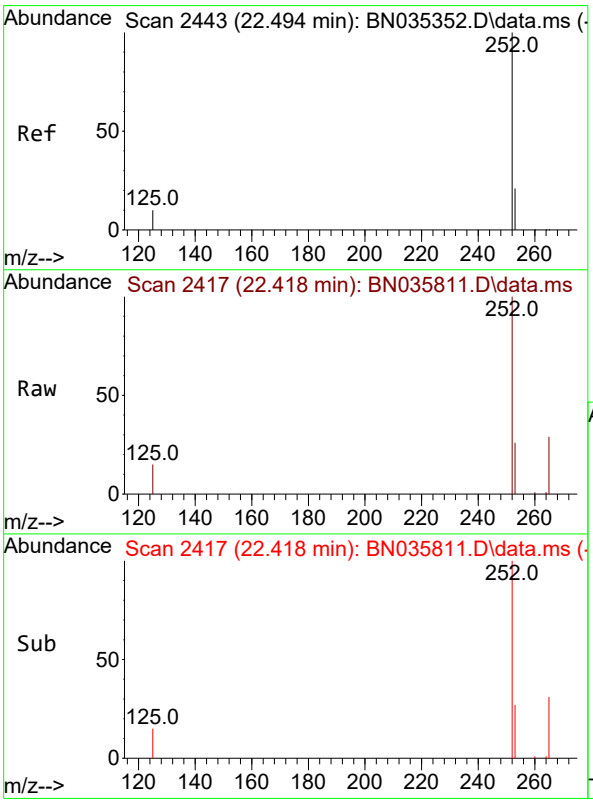
#37
Benzo(b)fluoranthene
Concen: 0.522 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 16964

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.6	29.4
125	14.8	9.6	14.4#

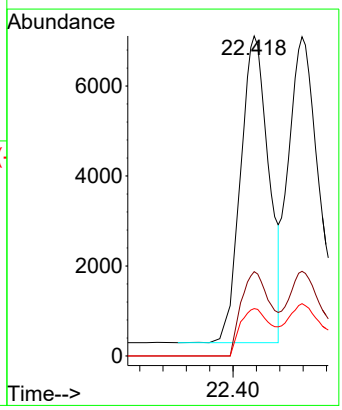


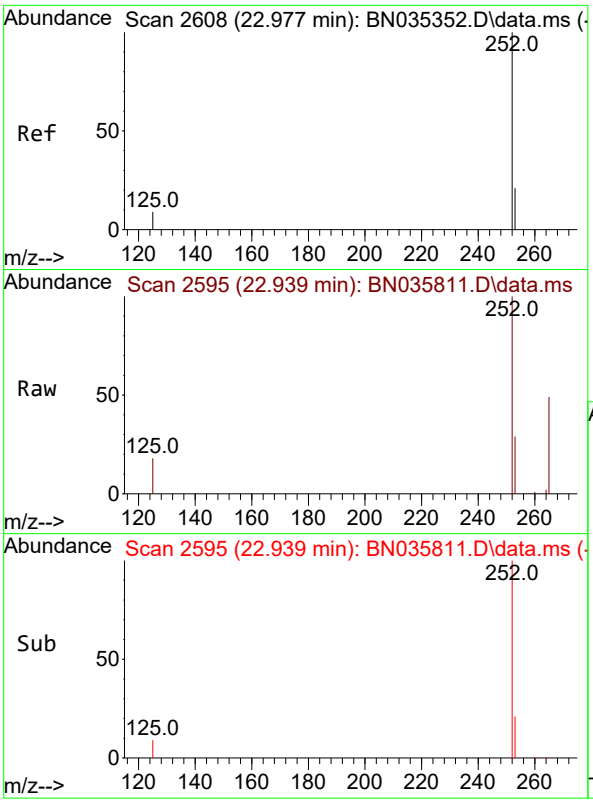


#38
Benzo(k)fluoranthene
Concen: 0.558 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 17845

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.5	29.3
125	14.8	10.2	15.4



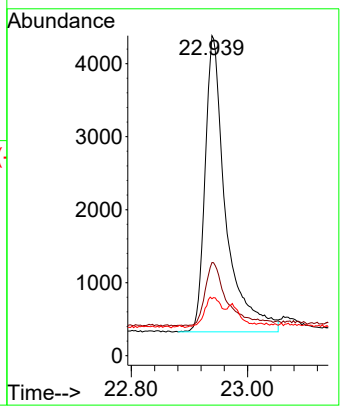


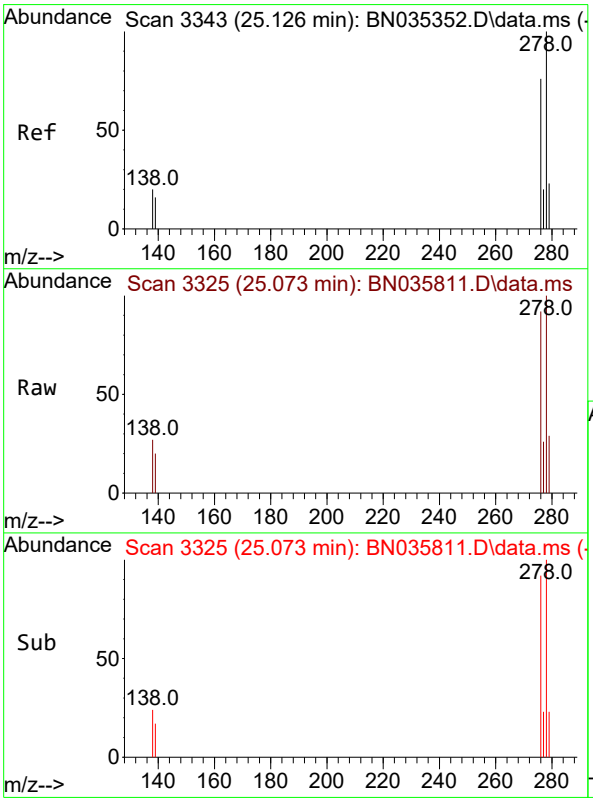
#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 10000

Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	17.8	10.9	16.3#

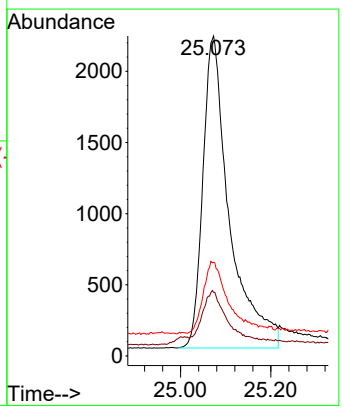


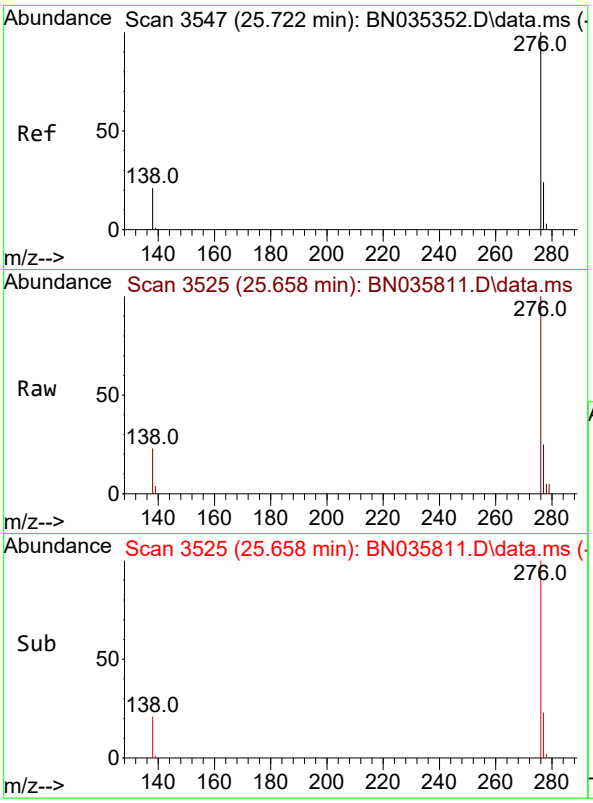


#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:278 Resp: 8960

Ion	Ratio	Lower	Upper
278	100		
139	19.9	14.2	21.4
279	29.3	20.5	30.7



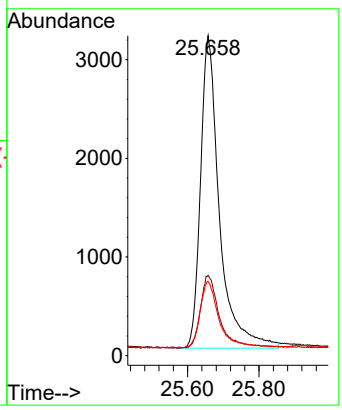


#41
Benzo(g,h,i)perylene
Concen: 0.405 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 11606

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	23.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

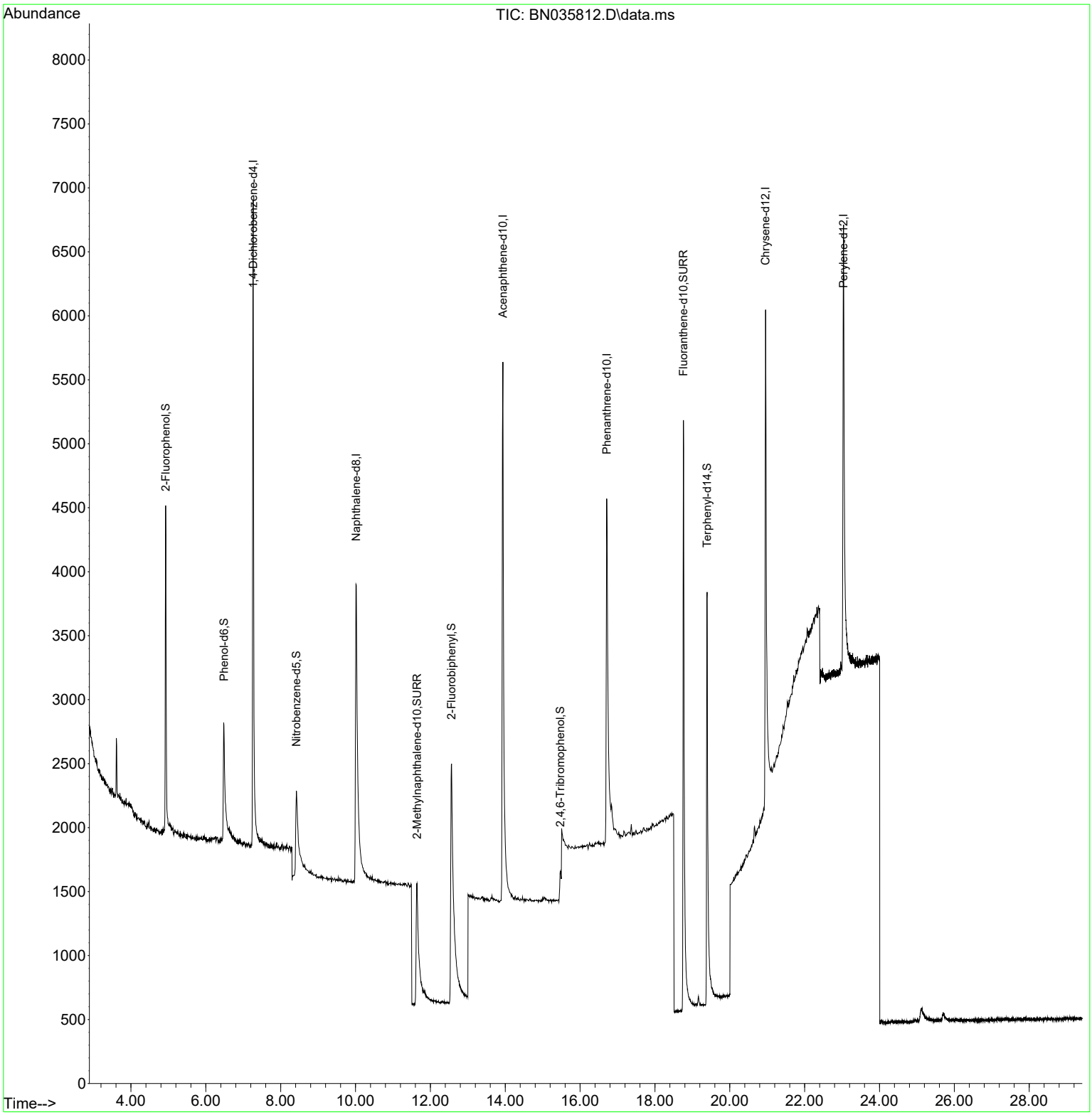
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3197	0.400	ng	0.00
7) Naphthalene-d8	10.020	136	6952	0.400	ng	0.00
13) Acenaphthene-d10	13.935	164	4346	0.400	ng	0.00
19) Phenanthrene-d10	16.711	188	8099	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	6756	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	6747	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2496	0.312	ng	0.00
5) Phenol-d6	6.484	99	2096	0.218	ng	0.00
8) Nitrobenzene-d5	8.418	82	1815	0.427	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	3741	0.344	ng	0.02
14) 2,4,6-Tribromophenol	15.475	330	490	0.159	ng	0.02
15) 2-Fluorobiphenyl	12.564	172	5652	0.344	ng	0.02
27) Fluoranthene-d10	18.761	212	9188	0.400	ng	0.00
31) Terphenyl-d14	19.393	244	6413	0.481	ng	0.00
Target Compounds						Qvalue

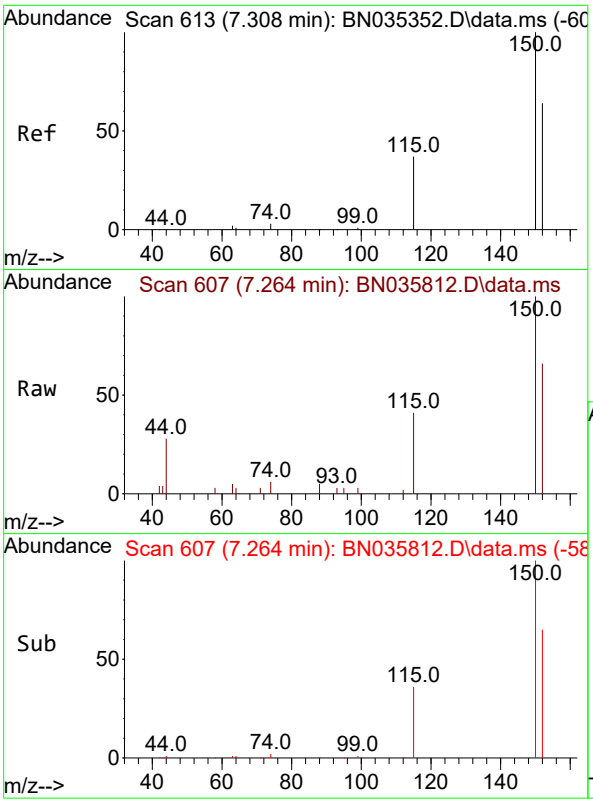
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



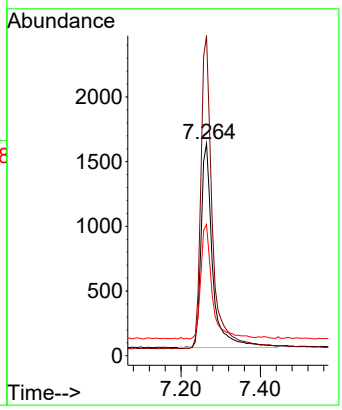


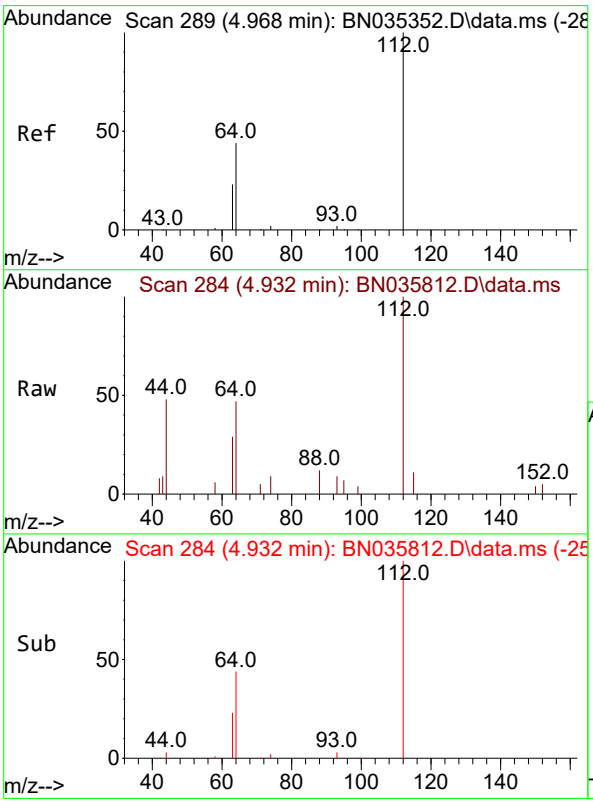
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:152 Resp: 3197

Ion	Ratio	Lower	Upper
152	100		
150	150.9	124.0	186.0
115	61.9	49.6	74.4

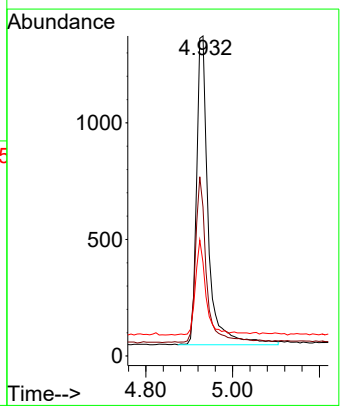


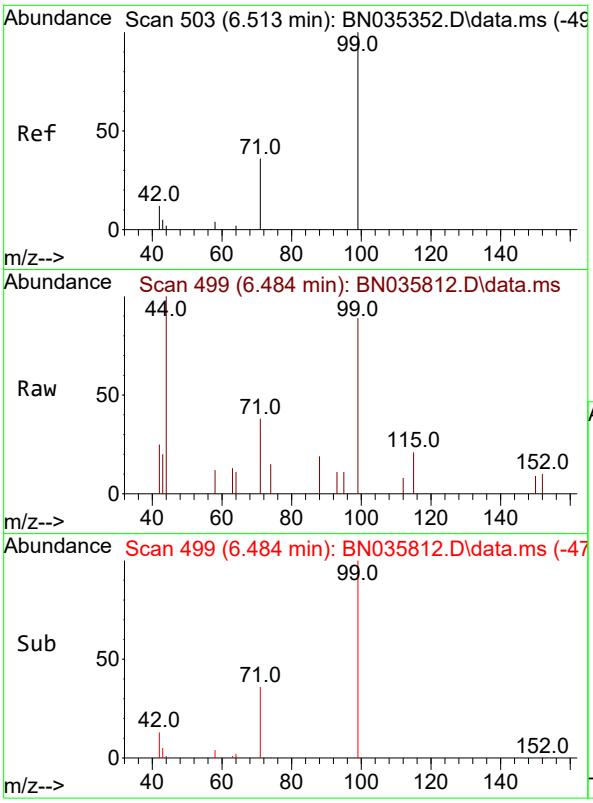


#4
2-Fluorophenol
Concen: 0.312 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:112 Resp: 2496

Ion	Ratio	Lower	Upper
112	100		
64	49.3	39.8	59.8
63	27.1	21.0	31.6



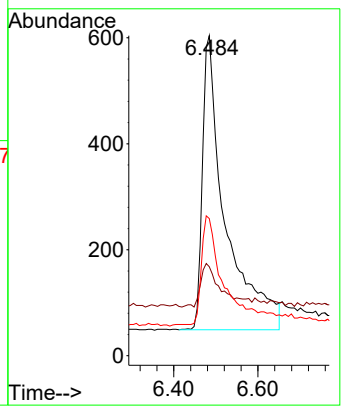


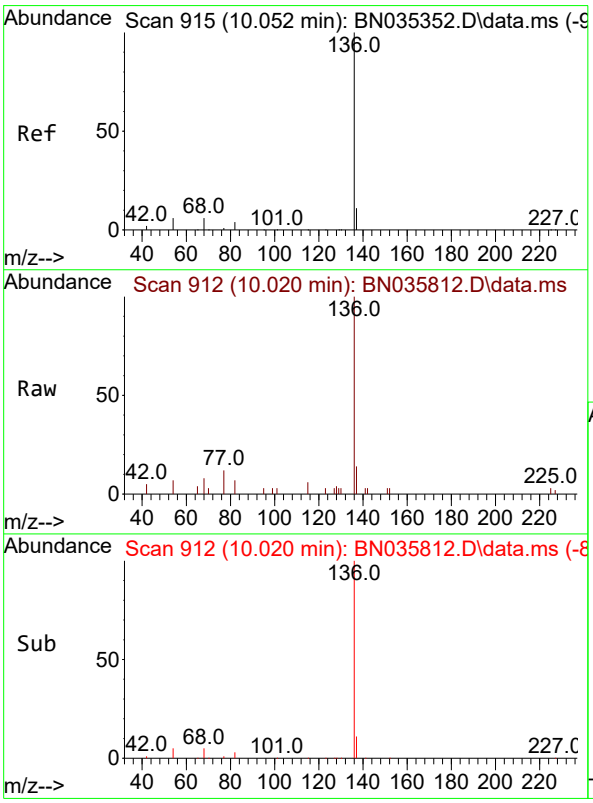
#5
Phenol-d6
Concen: 0.218 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion: 99 Resp: 2096

Ion	Ratio	Lower	Upper
99	100		
42	13.4	11.4	17.2
71	37.2	29.3	43.9

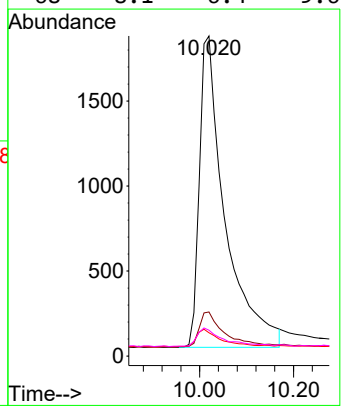


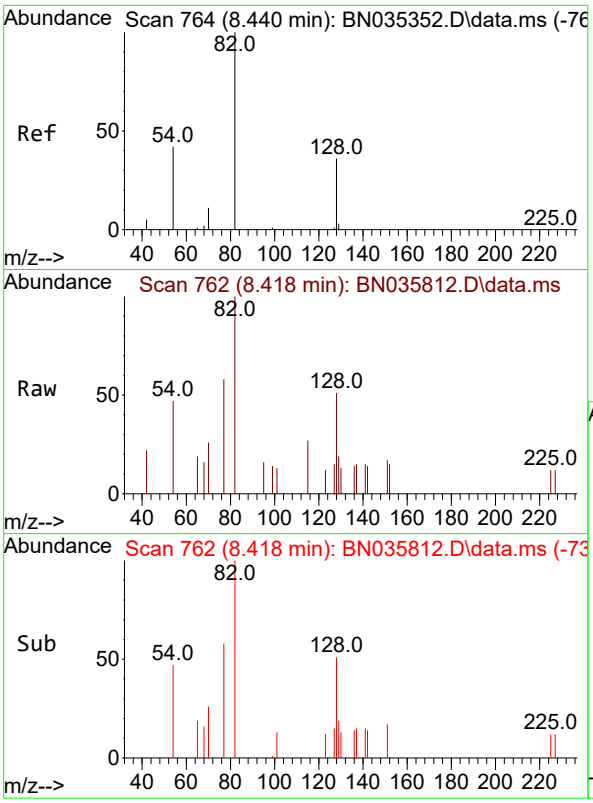


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:136 Resp: 6952

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.2	15.2
54	7.3	6.1	9.1
68	8.1	6.4	9.6



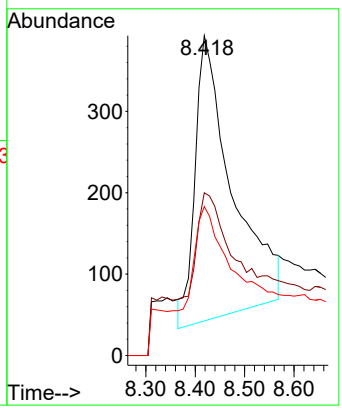


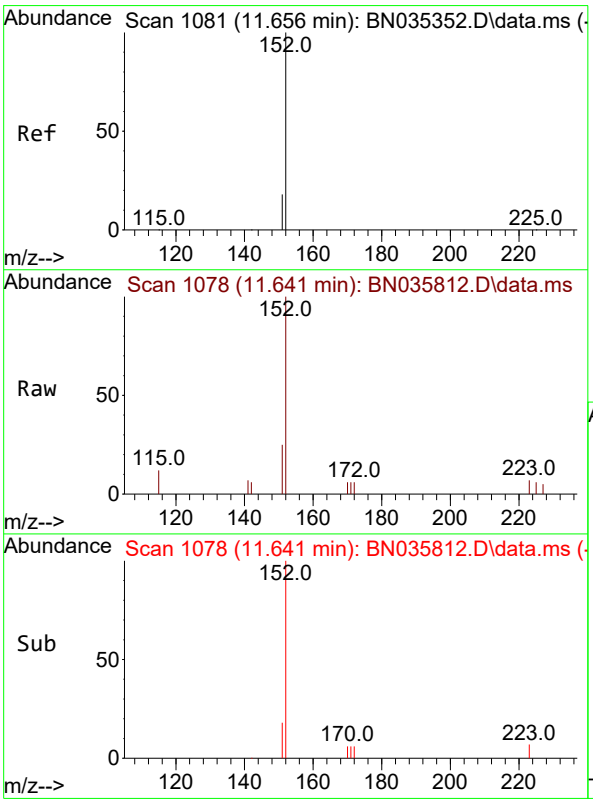
#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.418 min Scan# 7
Delta R.T. 0.010 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion: 82 Resp: 1815

Ion	Ratio	Lower	Upper
82	100		
128	50.9	33.4	50.0#
54	46.6	36.7	55.1

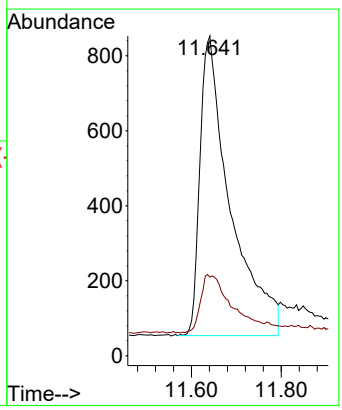


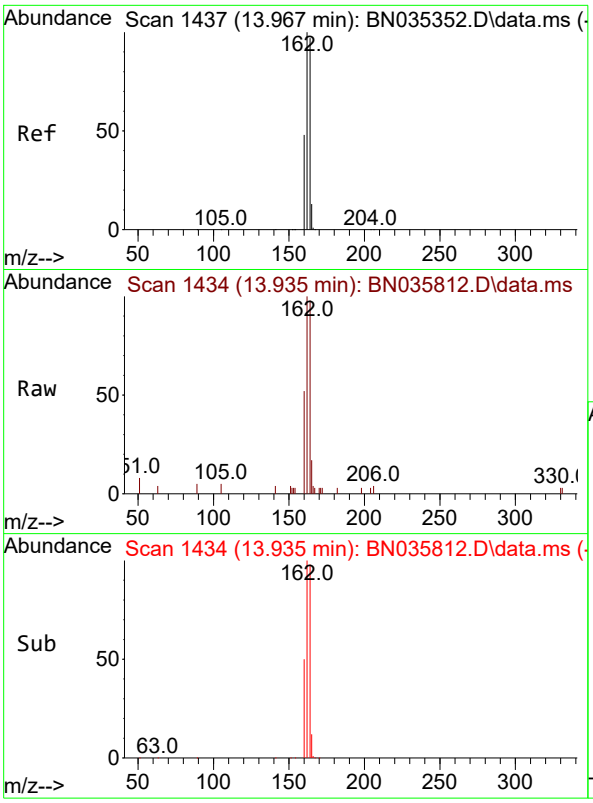


#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:152 Resp: 3741

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.6	25.0



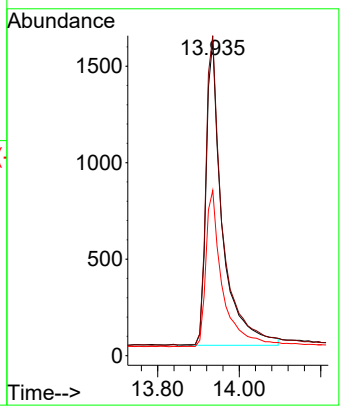


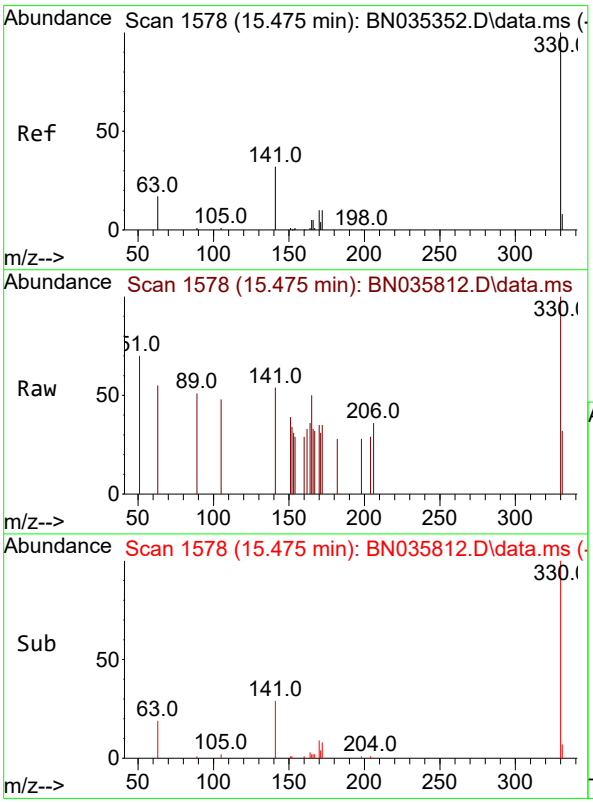
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.935 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:164 Resp: 4346

Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.2	123.2
160	52.5	40.1	60.1

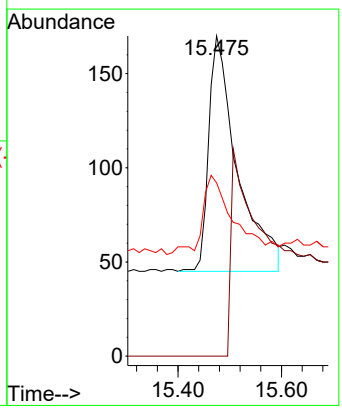


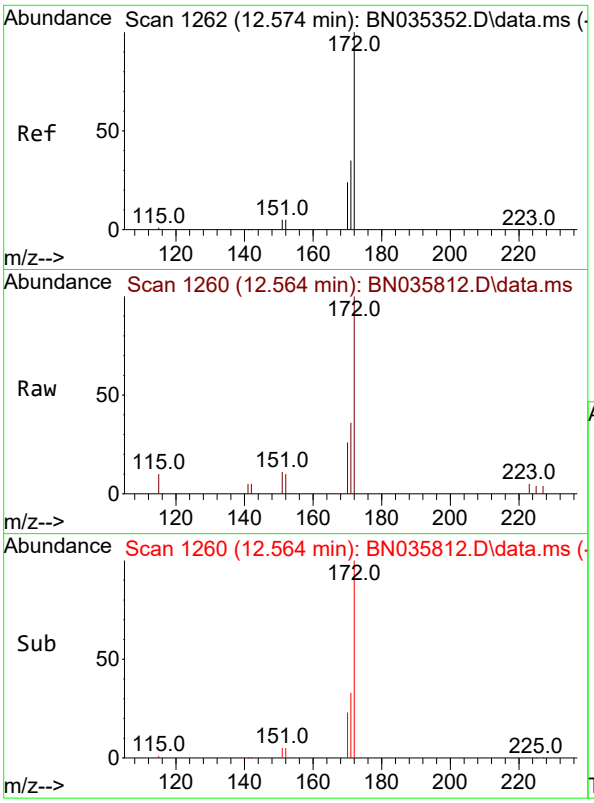


#14
2,4,6-Tribromophenol
Concen: 0.159 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:330 Resp: 490

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.3	26.6	40.0



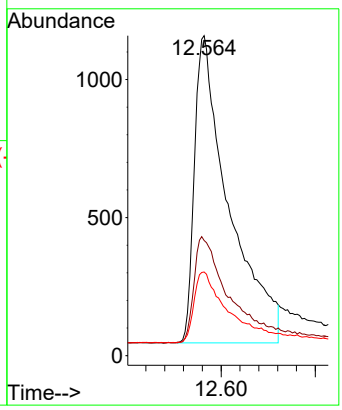


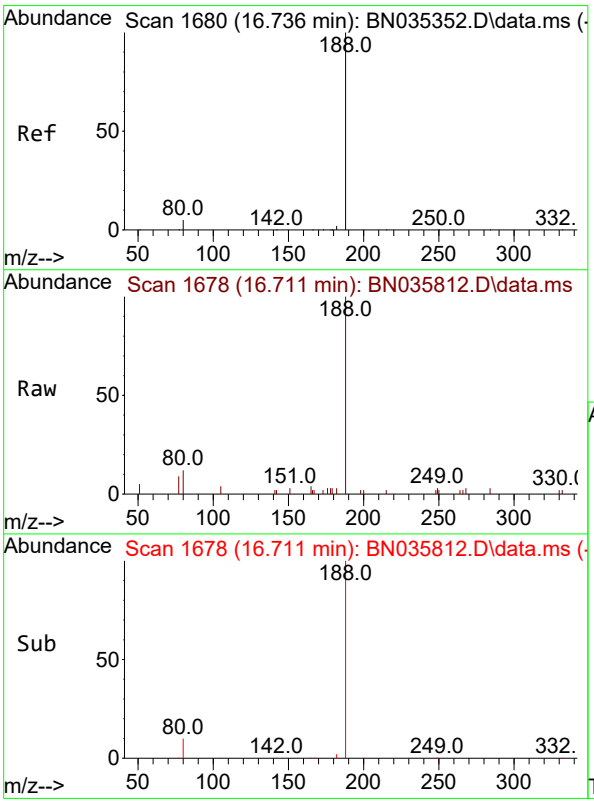
#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.564 min Scan# 1
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:172 Resp: 5652

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	26.1	19.8	29.8

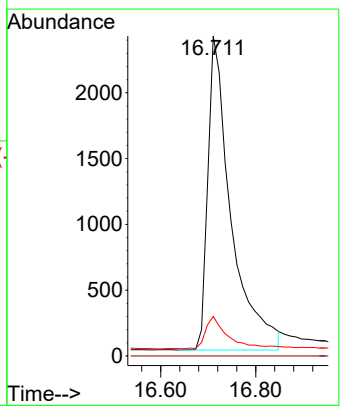


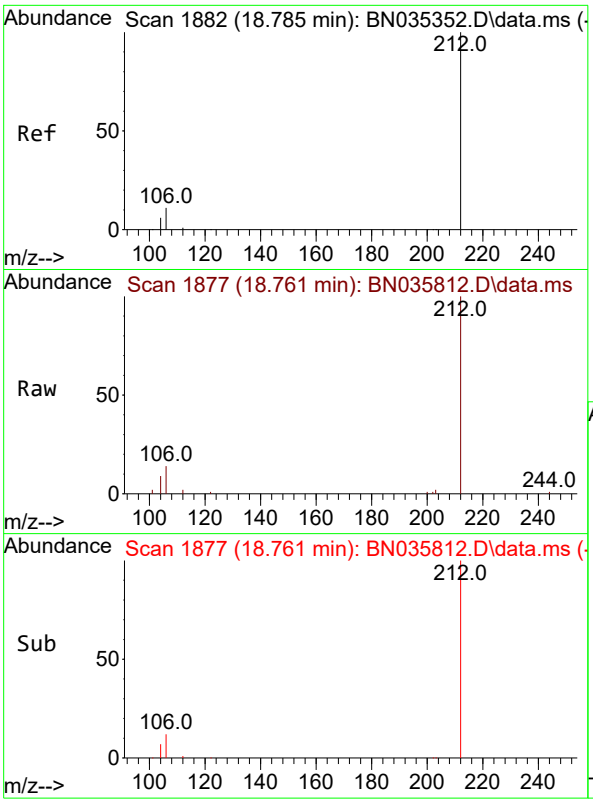


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:188 Resp: 8099

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.3	4.6	6.8#



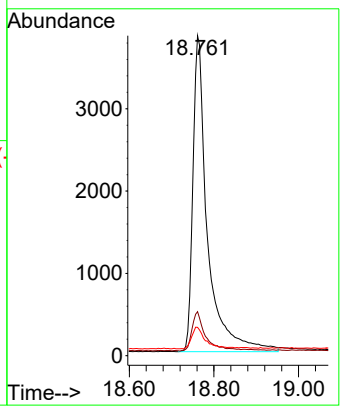


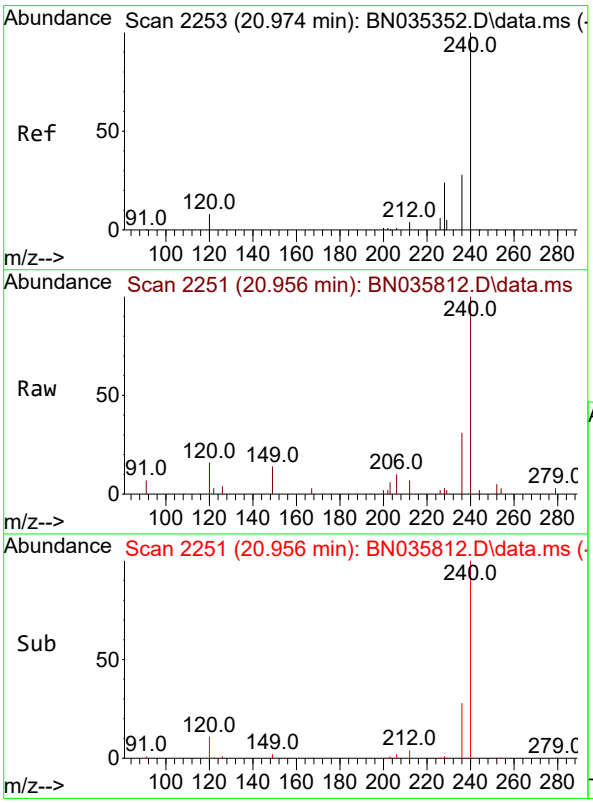
#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:212 Resp: 9188

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.3	5.3	7.9

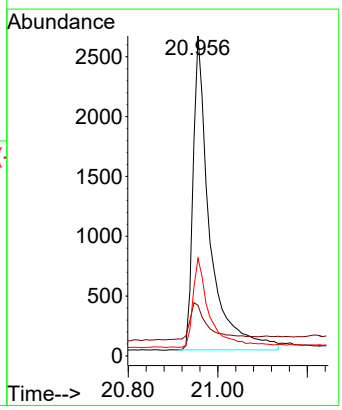


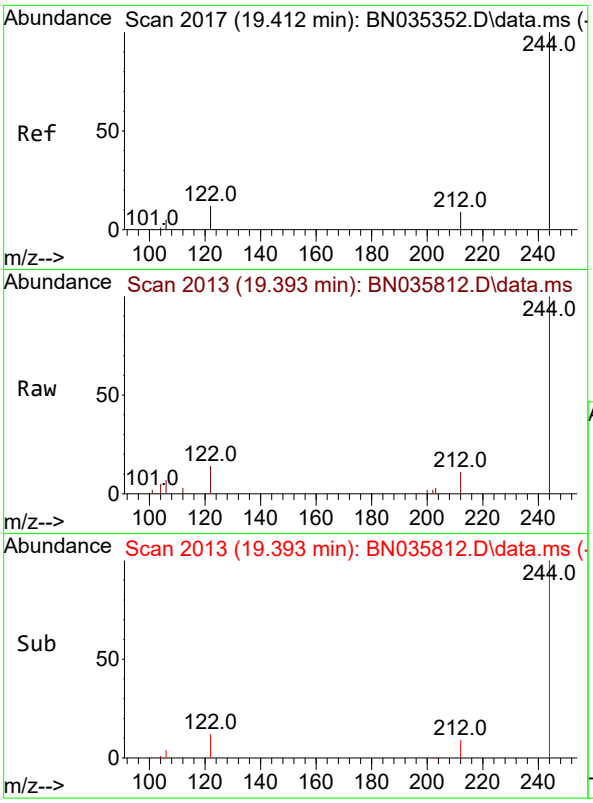


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:240 Resp: 6756

Ion	Ratio	Lower	Upper
240	100		
120	15.8	7.9	11.9#
236	30.6	22.9	34.3



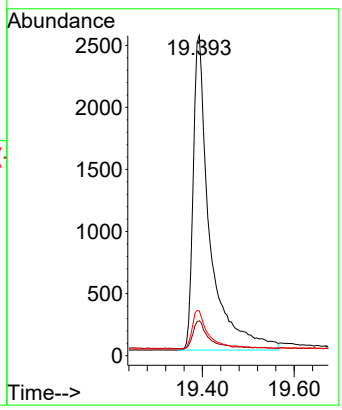


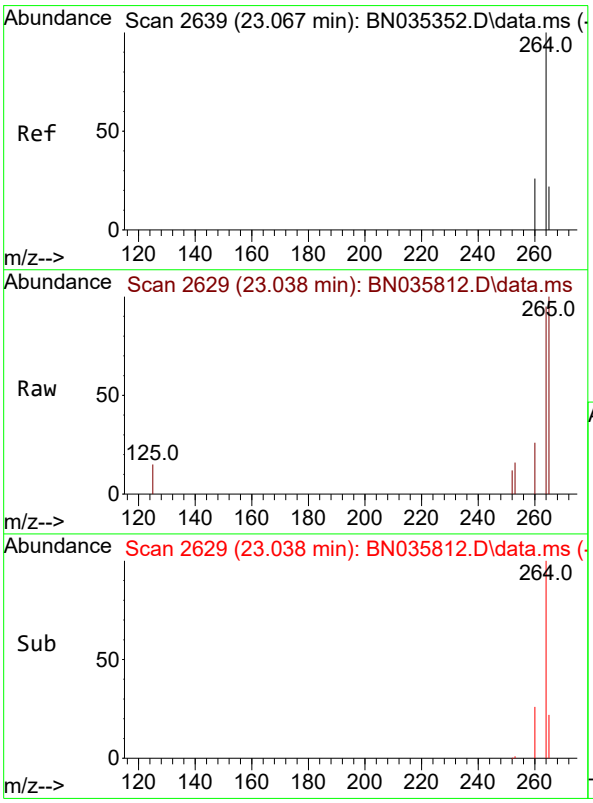
#31
Terphenyl-d14
Concen: 0.481 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:244 Resp: 6413

Ion	Ratio	Lower	Upper
244	100		
212	10.9	8.1	12.1
122	14.0	10.3	15.5

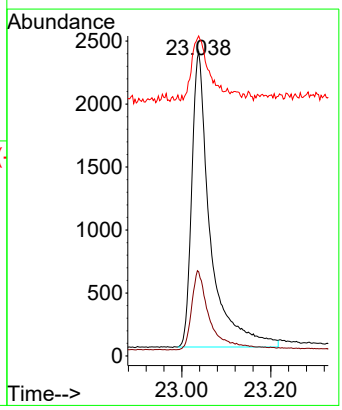




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:264 Resp: 6747

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.4	32.2
265	105.1	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Quant Time: Dec 24 23:17:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3146	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7086	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4334	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8132	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6728	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6588	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	783	0.099	ng	-0.01
5) Phenol-d6	6.477	99	425	0.045	ng	-0.01
8) Nitrobenzene-d5	8.408	82	1907	0.441	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3733	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	558	0.181	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6086	0.371	ng	0.00
27) Fluoranthene-d10	18.747	212	9081	0.394	ng	-0.01
31) Terphenyl-d14	19.379	244	7115	0.536	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	735	0.244	ng	91
9) Naphthalene	10.052	128	3064	0.164	ng	# 93
12) 2-Methylnaphthalene	11.697	142	1938	0.145	ng	# 95
16) Acenaphthylene	13.636	152	3133	0.172	ng	98
17) Acenaphthene	13.989	154	1954	0.162	ng	96
18) Fluorene	14.994	166	2543	0.147	ng	99
24) Pentachlorophenol	16.388	266	52	0.021	ng	96
25) Phenanthrene	16.736	178	4749	0.213	ng	99
26) Anthracene	16.835	178	3615	0.179	ng	99
28) Fluoranthene	18.780	202	5217	0.173	ng	100
30) Pyrene	19.147	202	5398	0.217	ng	99
32) Benzo(a)anthracene	20.929	228	3164	0.134	ng	96
33) Chrysene	20.983	228	4527	0.187	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	357	0.038	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.058	276	2949	0.115	ng	96
37) Benzo(b)fluoranthene	22.421	252	4545	0.189	ng	# 72
38) Benzo(k)fluoranthene	22.465	252	3529	0.149	ng	# 71
39) Benzo(a)pyrene	22.945	252	2673	0.135	ng	# 51
40) Dibenzo(a,h)anthracene	25.082	278	2170	0.107	ng	# 55
41) Benzo(g,h,i)perylene	25.672	276	2390	0.113	ng	# 83

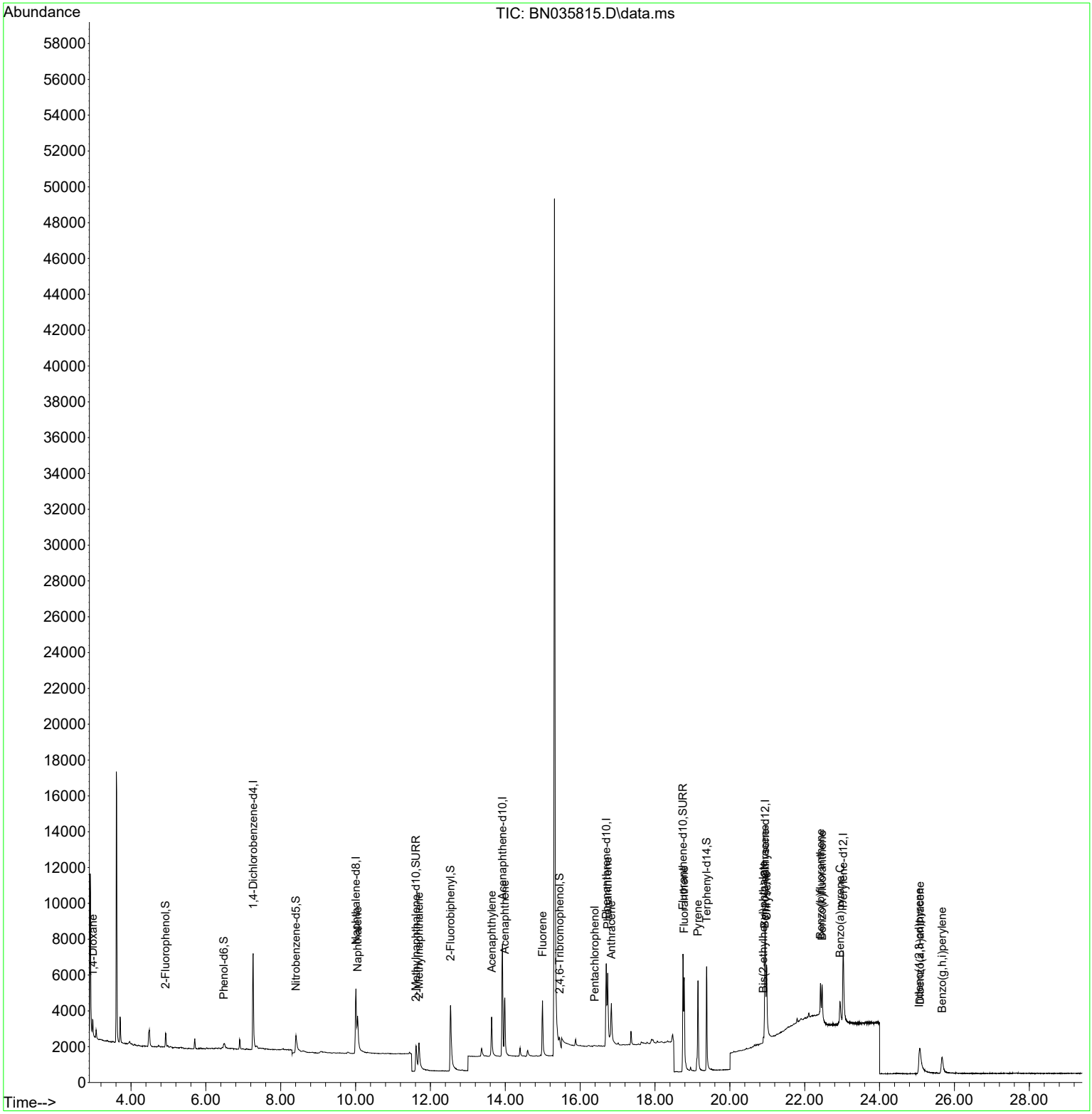
(#) = qualifier out of range (m) = manual integration (+) = signals summed

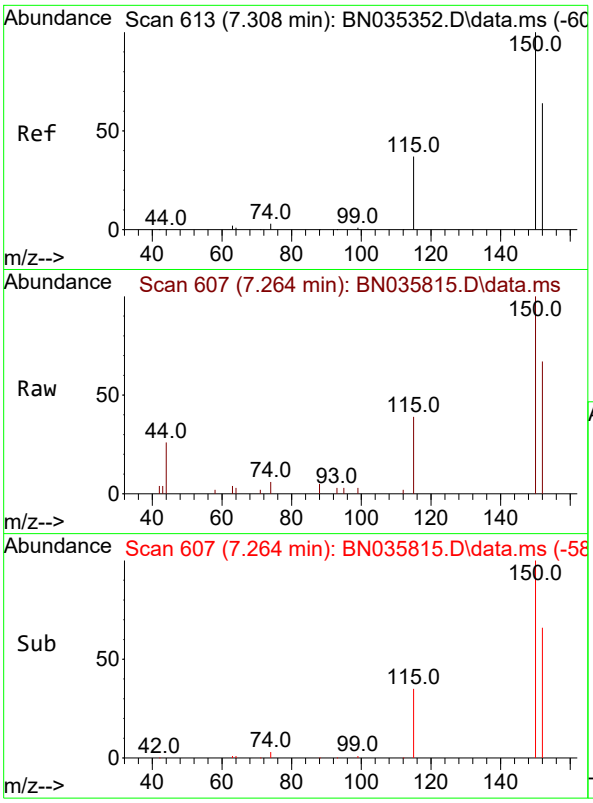
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035815.D
Acq On : 24 Dec 2024 11:21
Operator : RC/JU
Sample : P5376-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Quant Time: Dec 24 23:17:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



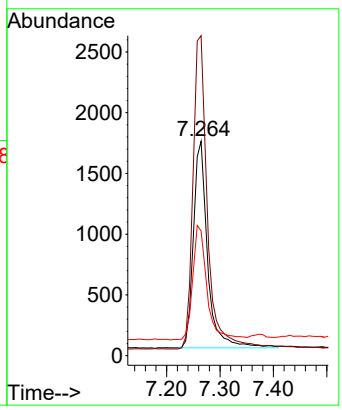


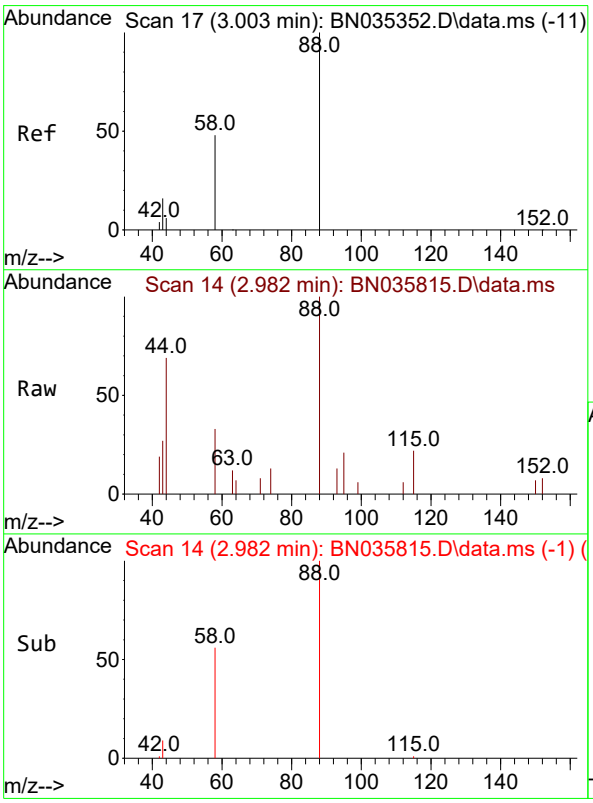
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:152 Resp: 3146

Ion	Ratio	Lower	Upper
152	100		
150	149.2	124.0	186.0
115	58.2	49.6	74.4

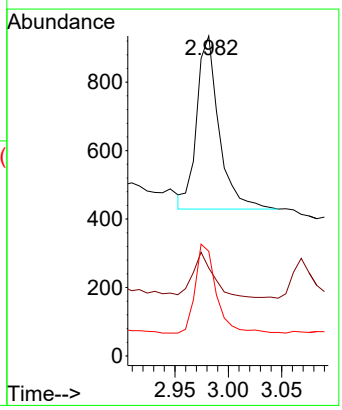


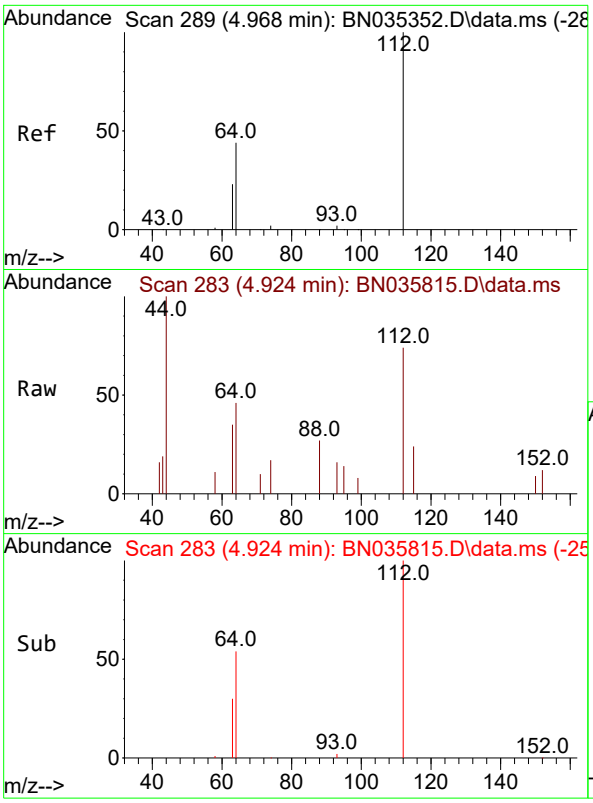


#2
1,4-Dioxane
Concen: 0.244 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 88 Resp: 735

Ion	Ratio	Lower	Upper
88	100		
43	23.5	17.2	25.8
58	48.2	44.5	66.7



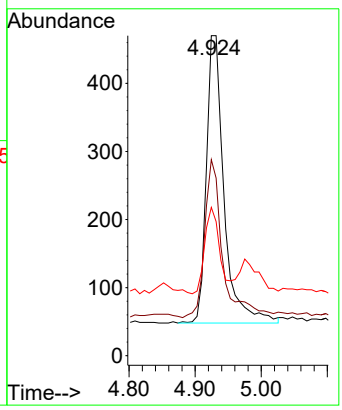


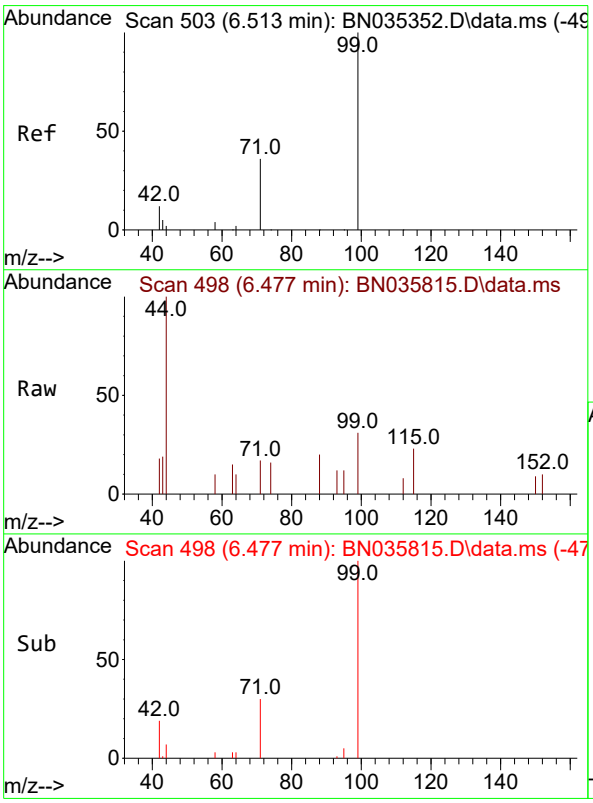
#4
2-Fluorophenol
Concen: 0.099 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:112 Resp: 783

Ion	Ratio	Lower	Upper
112	100		
64	55.9	39.8	59.8
63	25.3	21.0	31.6

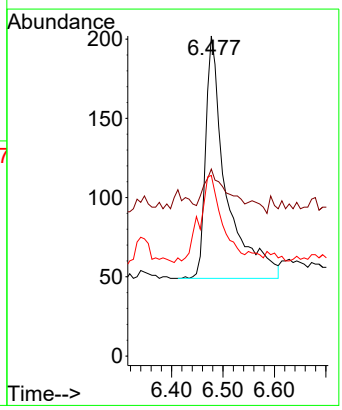


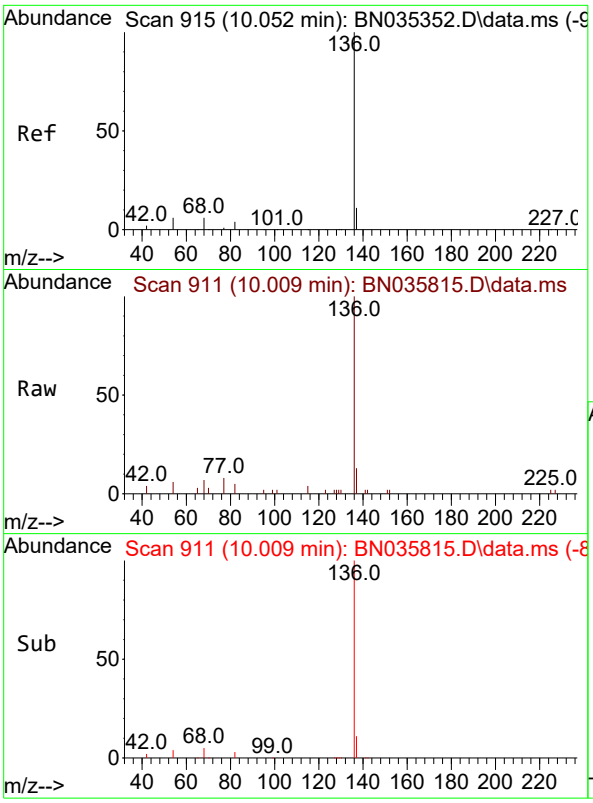


#5
Phenol-d6
Concen: 0.045 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 99 Resp: 425

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	40.0	29.3	43.9



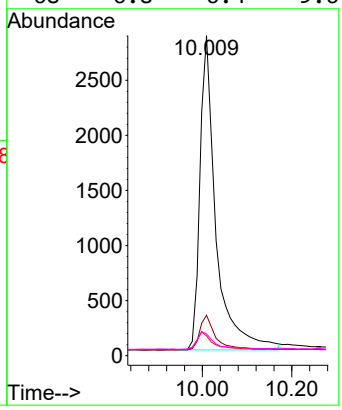


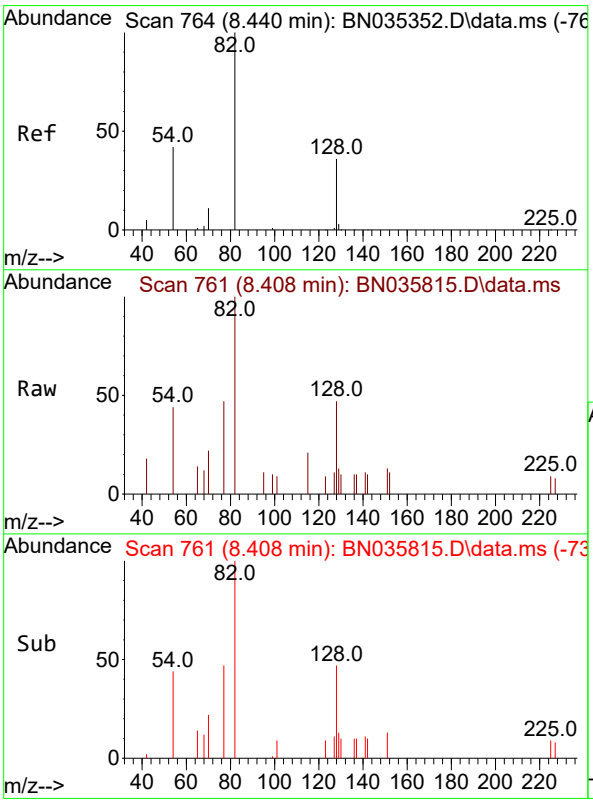
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:136 Resp: 7086

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	6.2	6.1	9.1
68	6.8	6.4	9.6

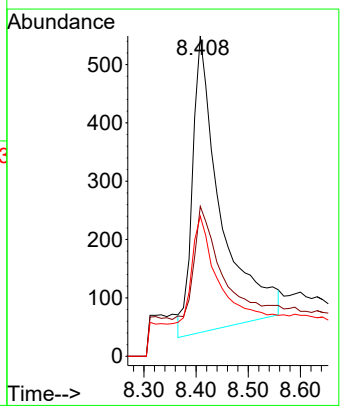


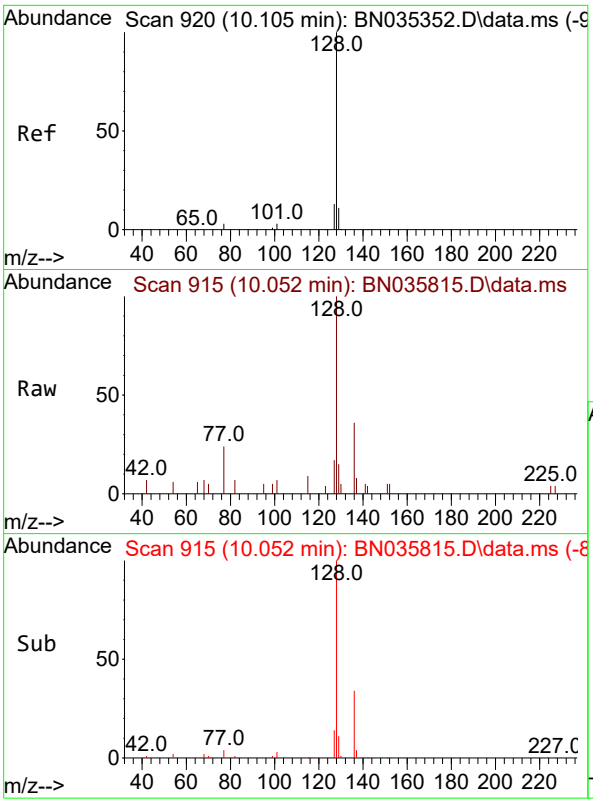


#8
Nitrobenzene-d5
Concen: 0.441 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion: 82 Resp: 1907

Ion	Ratio	Lower	Upper
82	100		
128	46.8	33.4	50.0
54	43.7	36.7	55.1



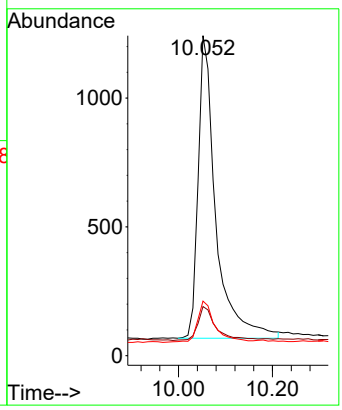


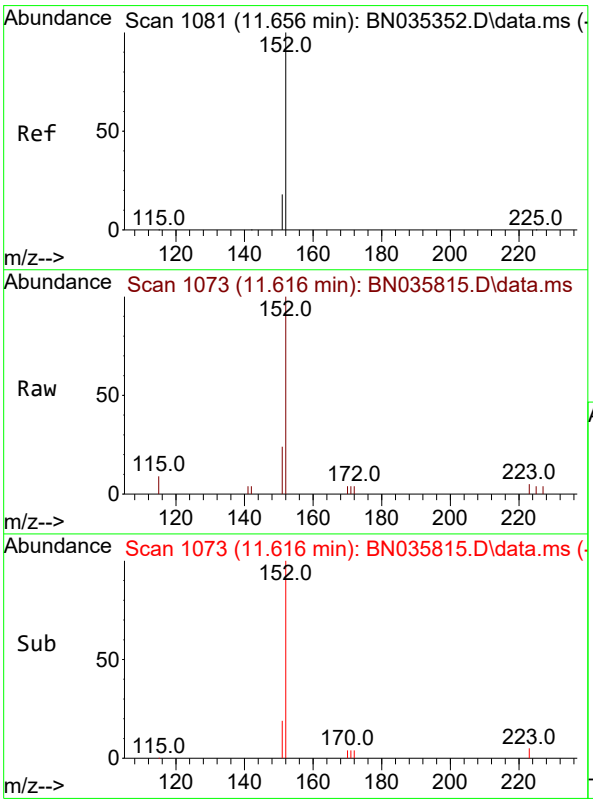
#9
Naphthalene
Concen: 0.164 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:128 Resp: 3064

Ion	Ratio	Lower	Upper
128	100		
129	15.4	9.8	14.6#
127	17.1	11.4	17.2

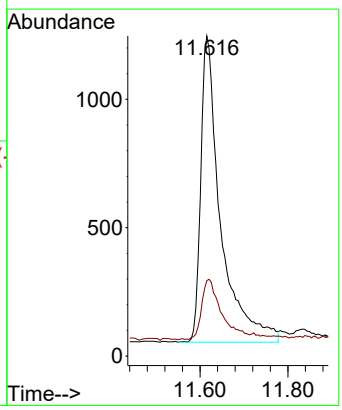


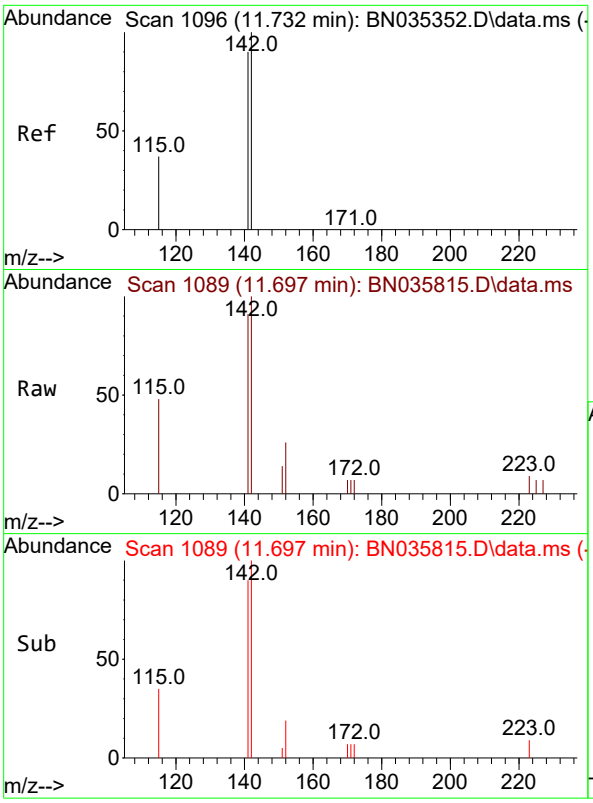


#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:152 Resp: 3733

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.6	25.0



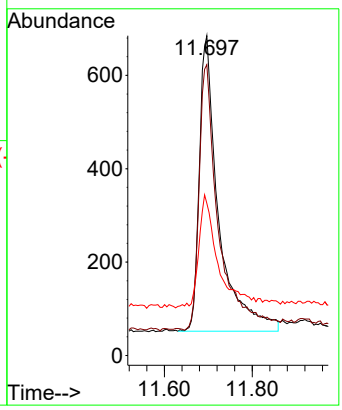


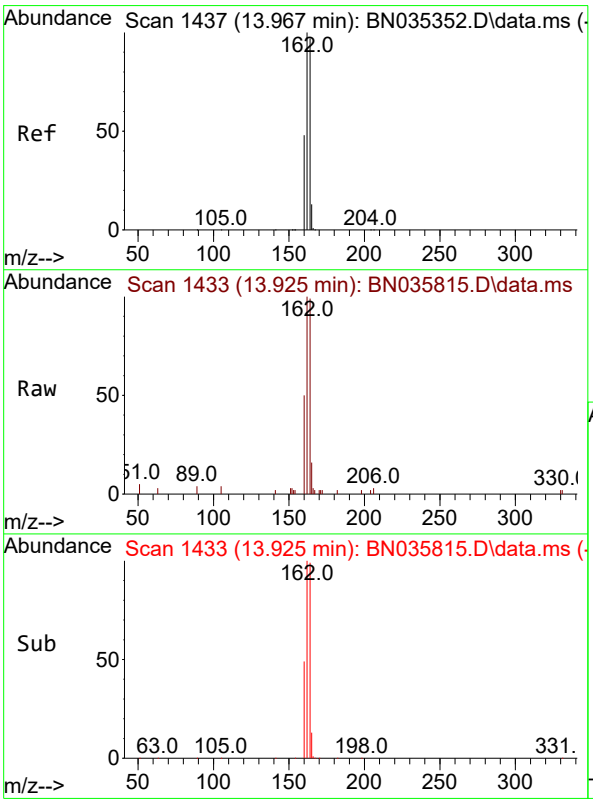
#12
2-Methylnaphthalene
Concen: 0.145 ng
RT: 11.697 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:142 Resp: 1938

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	47.6	31.4	47.0#

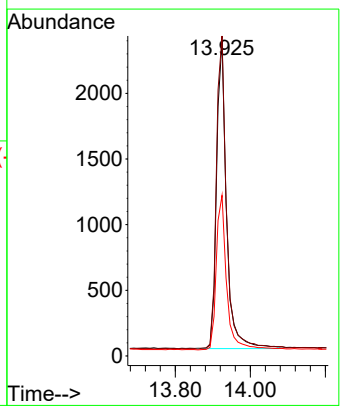


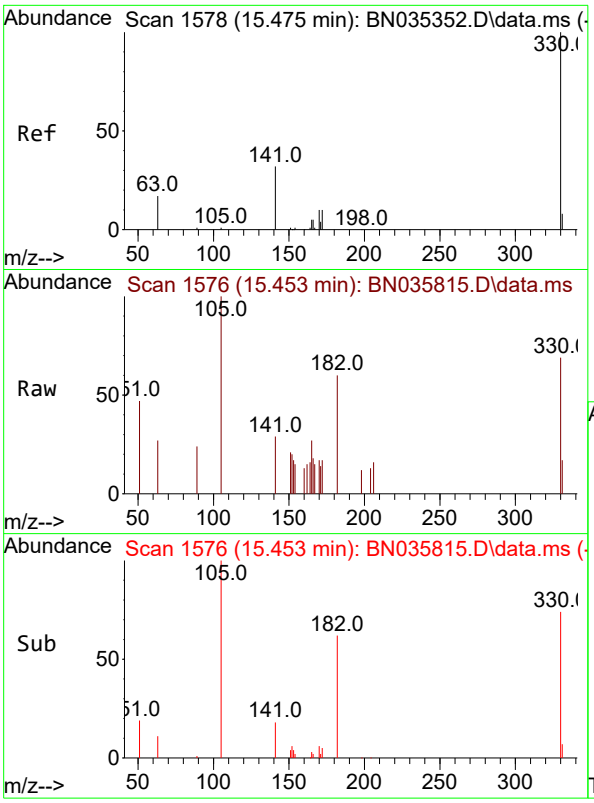


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:164 Resp: 4334

Ion	Ratio	Lower	Upper
164	100		
162	101.3	82.2	123.2
160	50.9	40.1	60.1



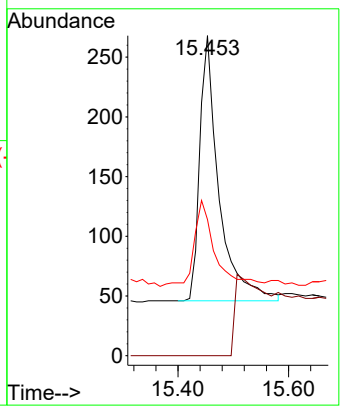


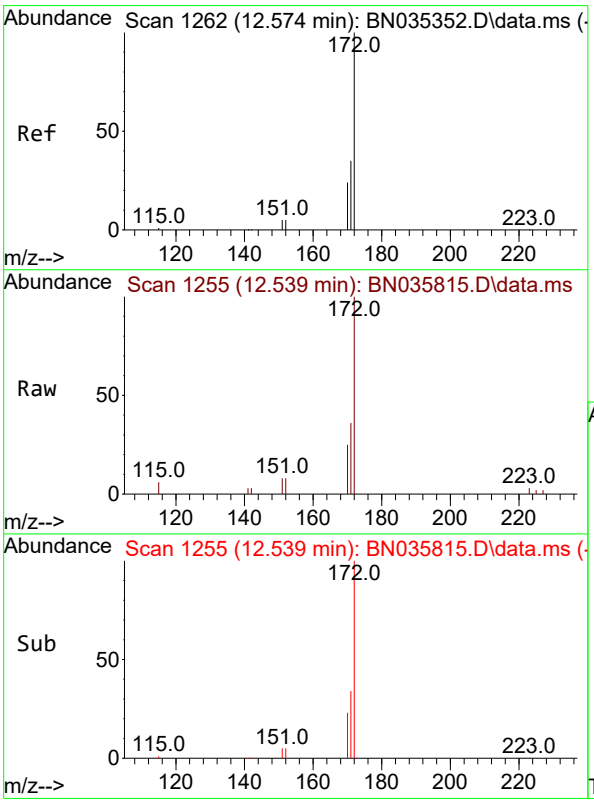
#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:330 Resp: 558

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.7	26.6	40.0

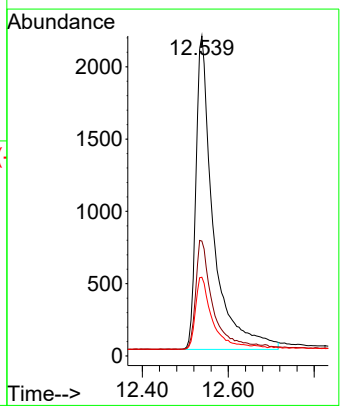


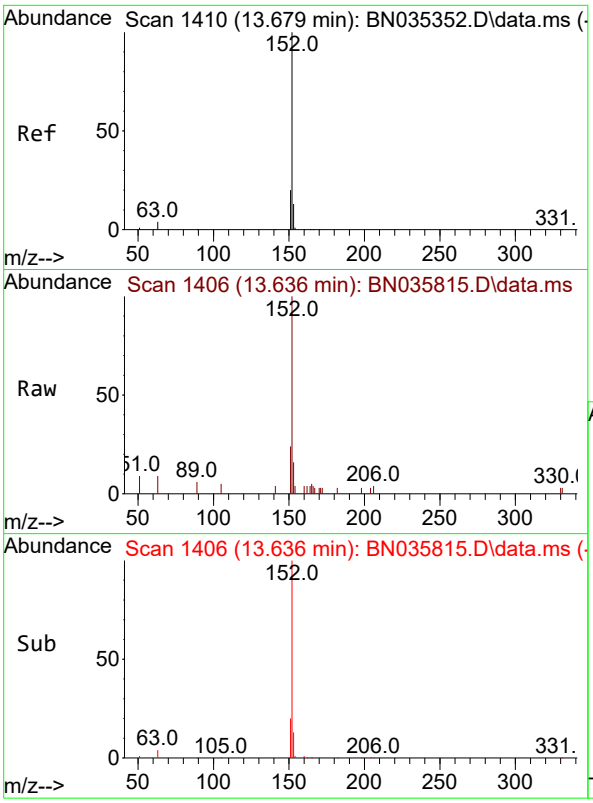


#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:172 Resp: 6086

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	24.6	19.8	29.8



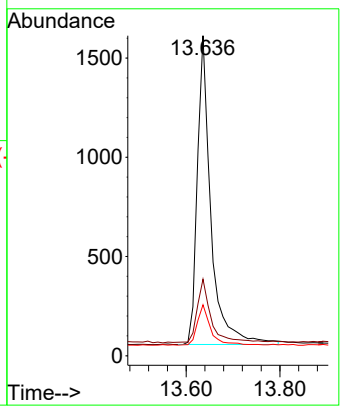


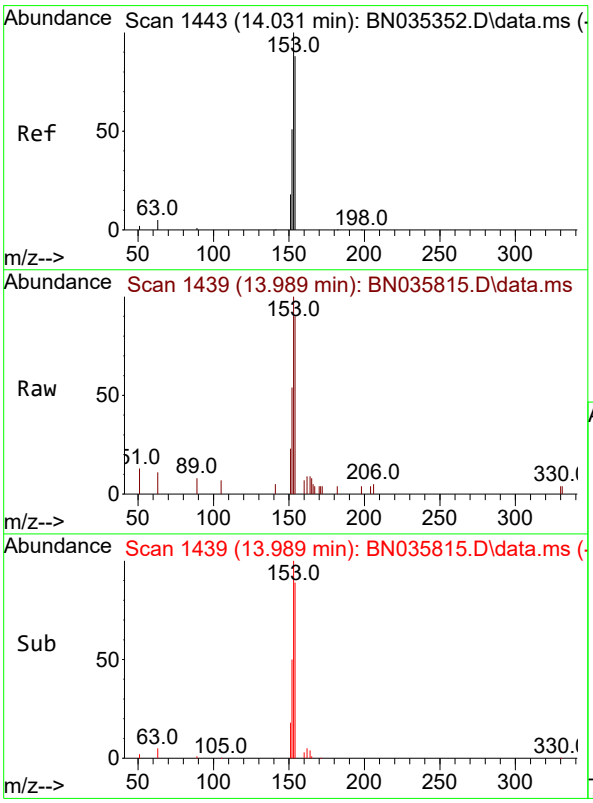
#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:152 Resp: 3133

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.2	24.2
153	12.7	10.4	15.6

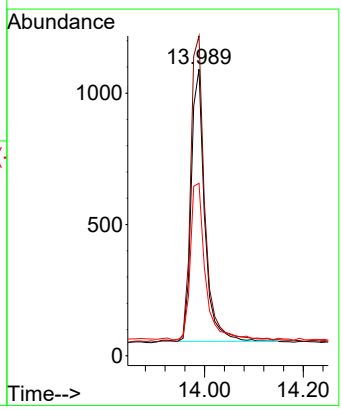


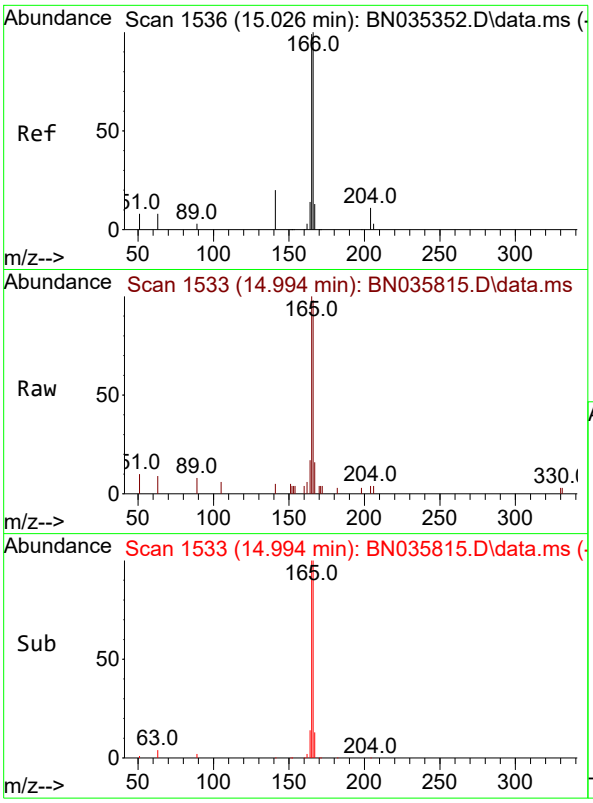


#17
Acenaphthene
Concen: 0.162 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:154 Resp: 1954

Ion	Ratio	Lower	Upper
154	100		
153	119.7	92.6	139.0
152	64.0	49.0	73.6



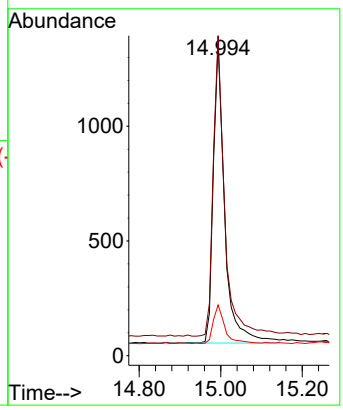


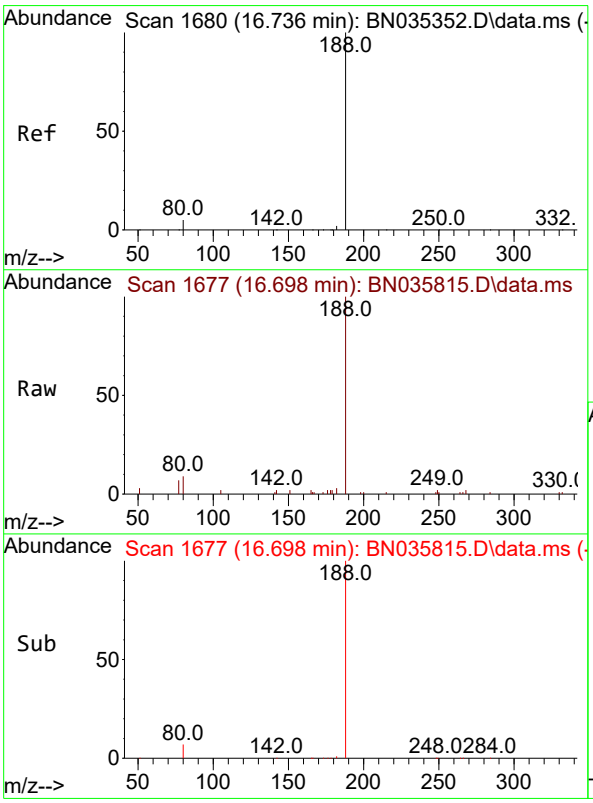
#18
Fluorene
Concen: 0.147 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:166 Resp: 2543

Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.7	119.5
167	12.9	10.8	16.2

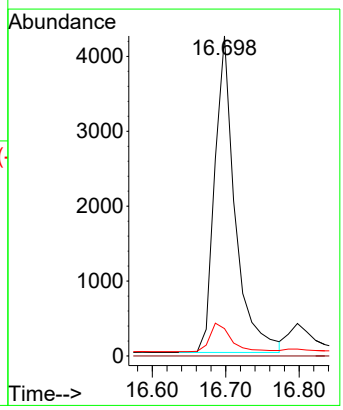


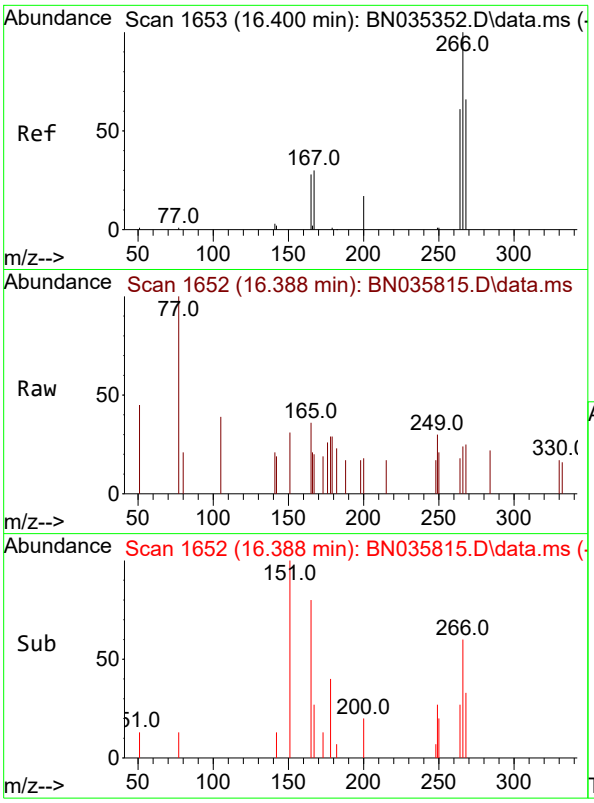


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:188 Resp: 8132

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	4.6	6.8#



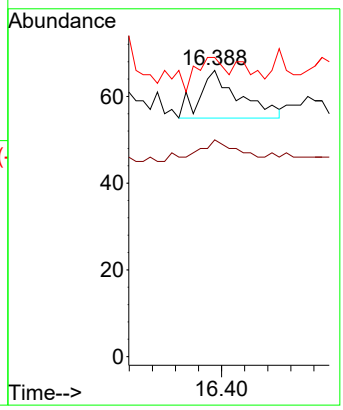


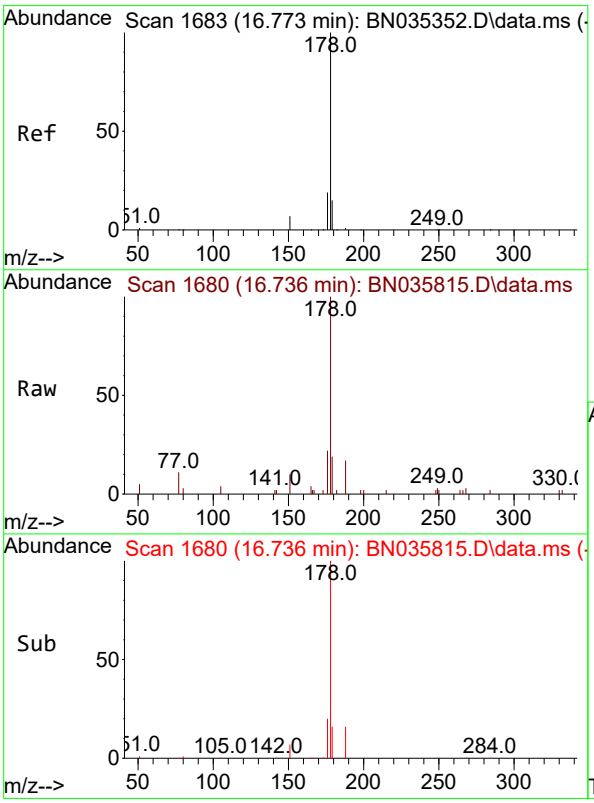
#24
Pentachlorophenol
Concen: 0.021 ng
RT: 16.388 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:266 Resp: 52

Ion	Ratio	Lower	Upper
266	100		
264	48.1	42.3	63.5
268	53.8	43.3	64.9

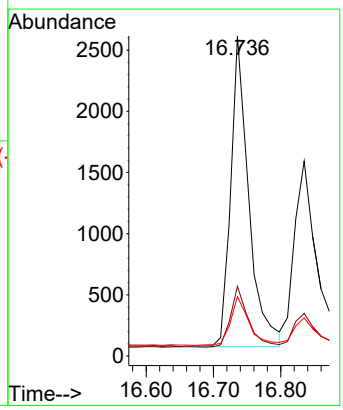


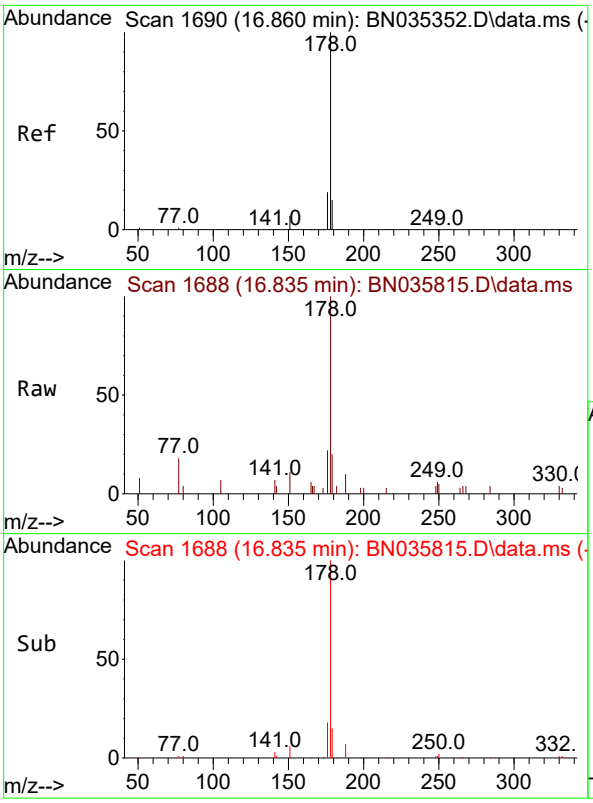


#25
Phenanthrene
Concen: 0.213 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:178 Resp: 4749

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	16.1	12.3	18.5



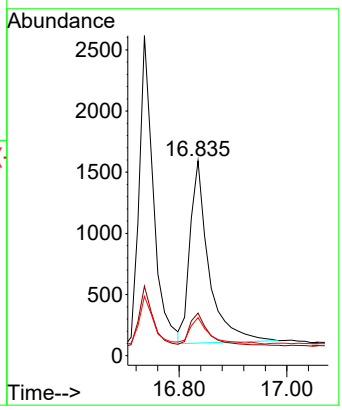


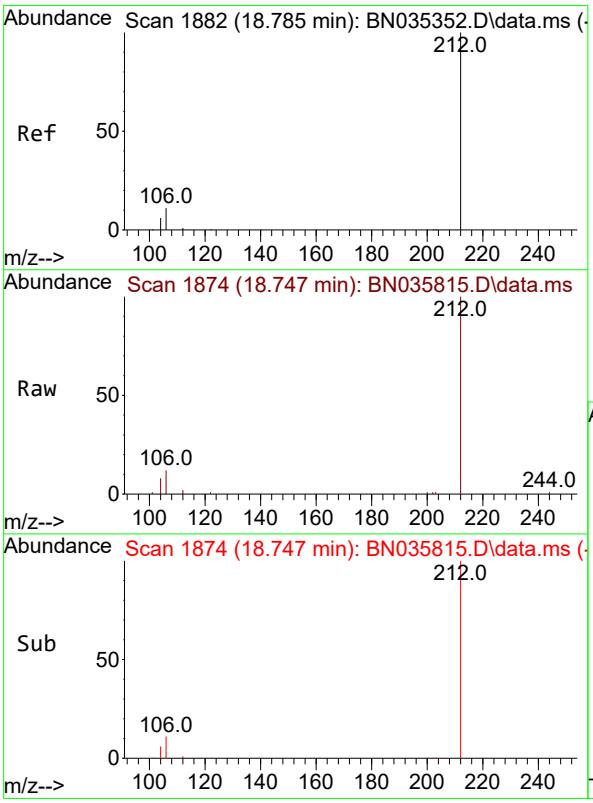
#26
Anthracene
Concen: 0.179 ng
RT: 16.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:178 Resp: 3615

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.4	12.6	18.8

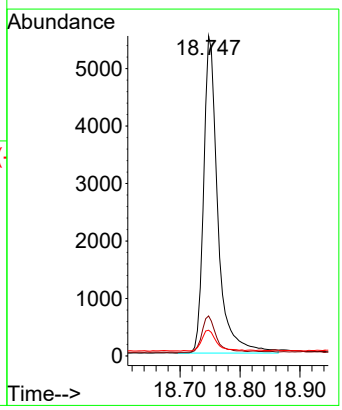


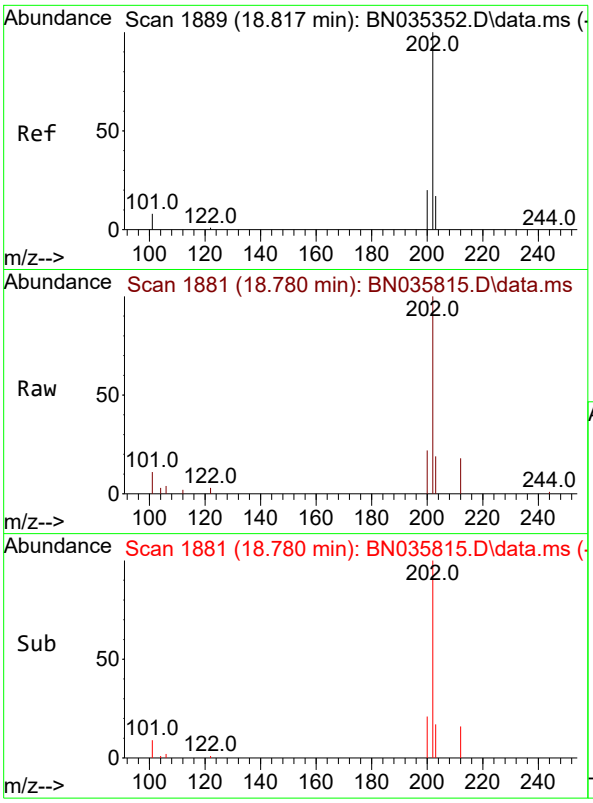


#27
Fluoranthene-d10
Concen: 0.394 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:212 Resp: 9081

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.7	5.3	7.9



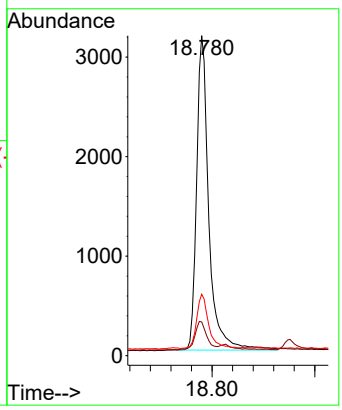


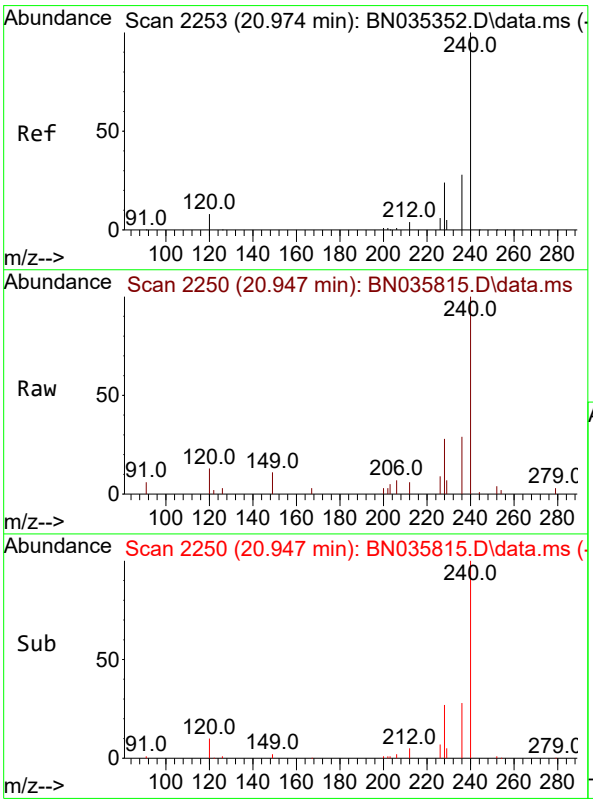
#28
Fluoranthene
Concen: 0.173 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:202 Resp: 5217

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	17.1	13.7	20.5

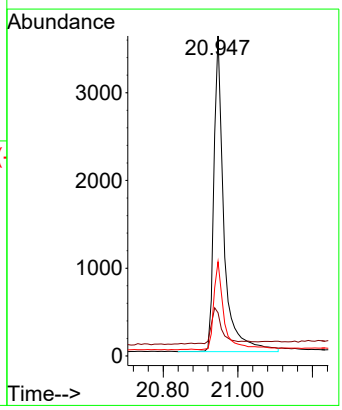


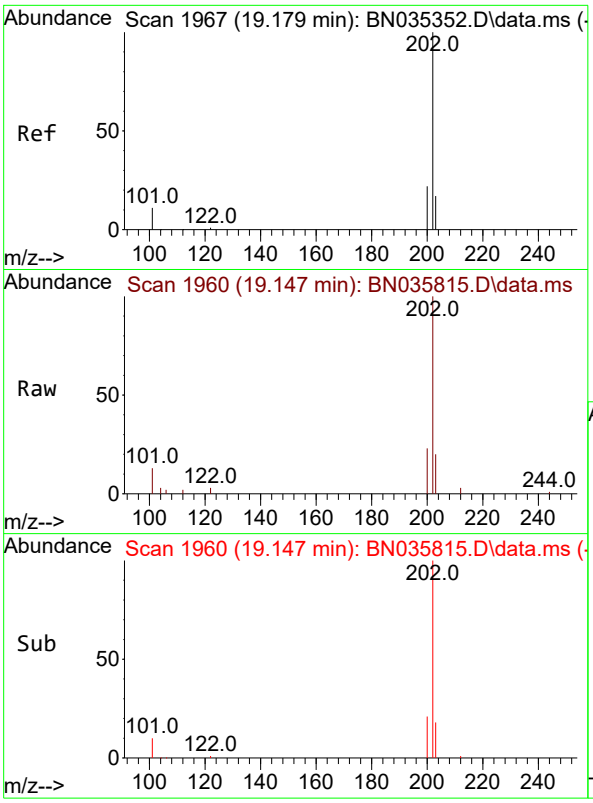


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:240 Resp: 6728

Ion	Ratio	Lower	Upper
240	100		
120	13.5	7.9	11.9#
236	29.4	22.9	34.3



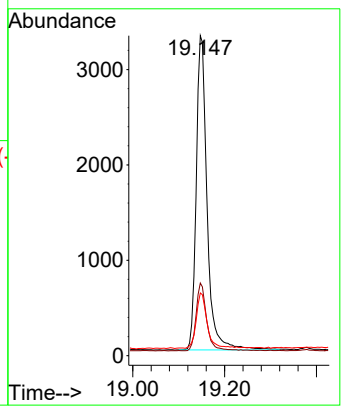


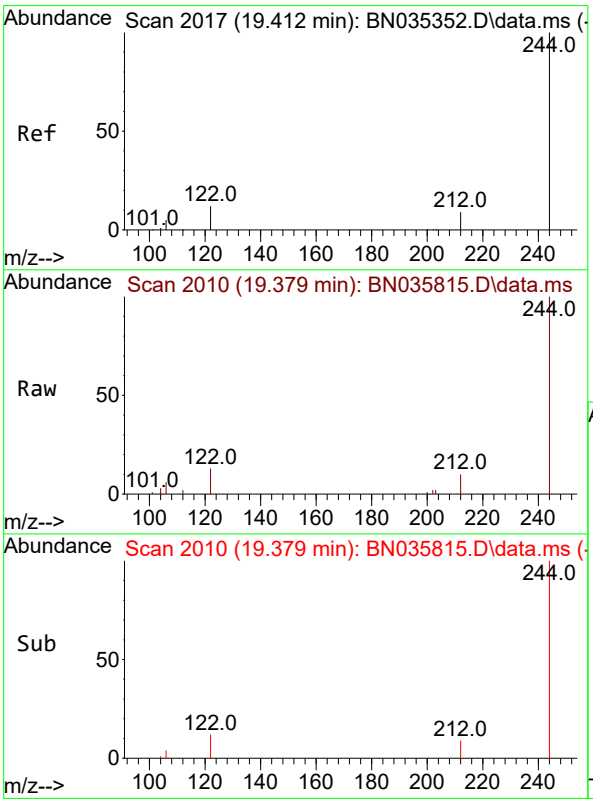
#30
Pyrene
Concen: 0.217 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:202 Resp: 5398

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.3	14.3	21.5

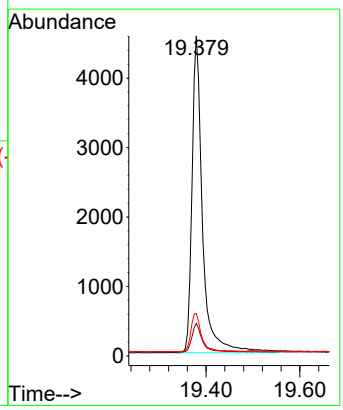


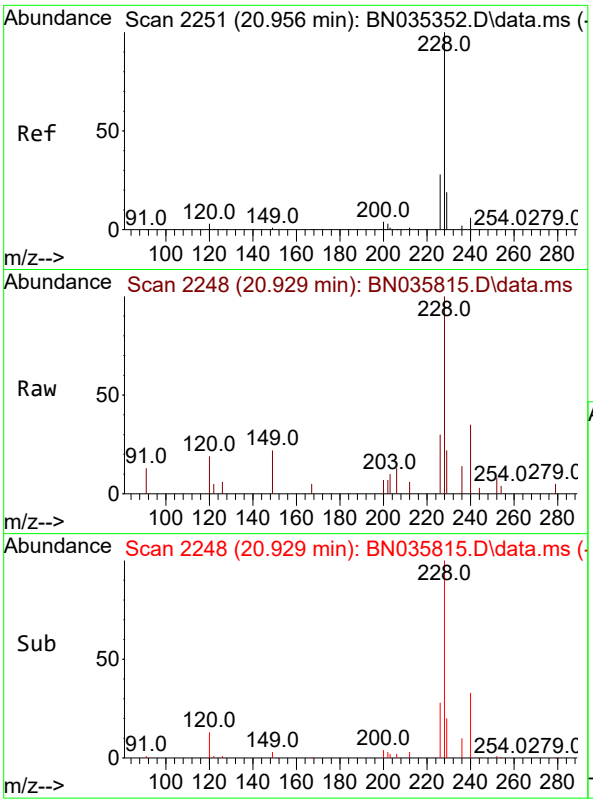


#31
Terphenyl-d14
Concen: 0.536 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:244 Resp: 7115

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	13.2	10.3	15.5



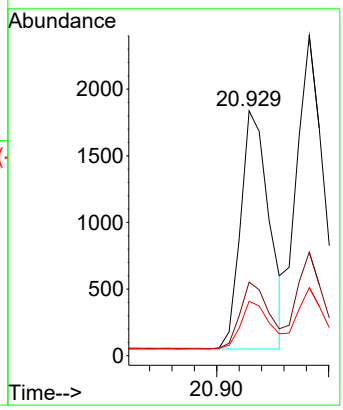


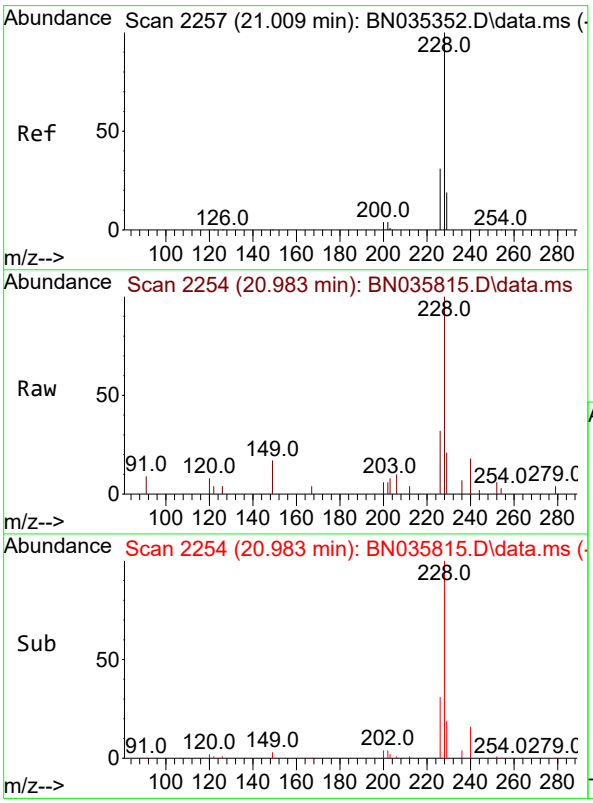
#32
Benzo(a)anthracene
Concen: 0.134 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:228 Resp: 3164

Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.5	33.7
229	22.2	15.8	23.8

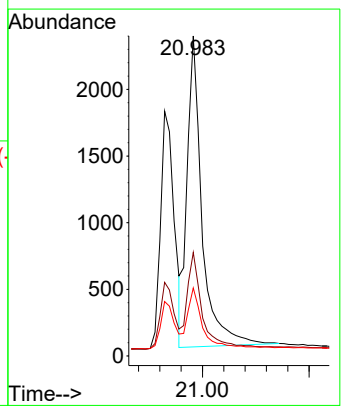


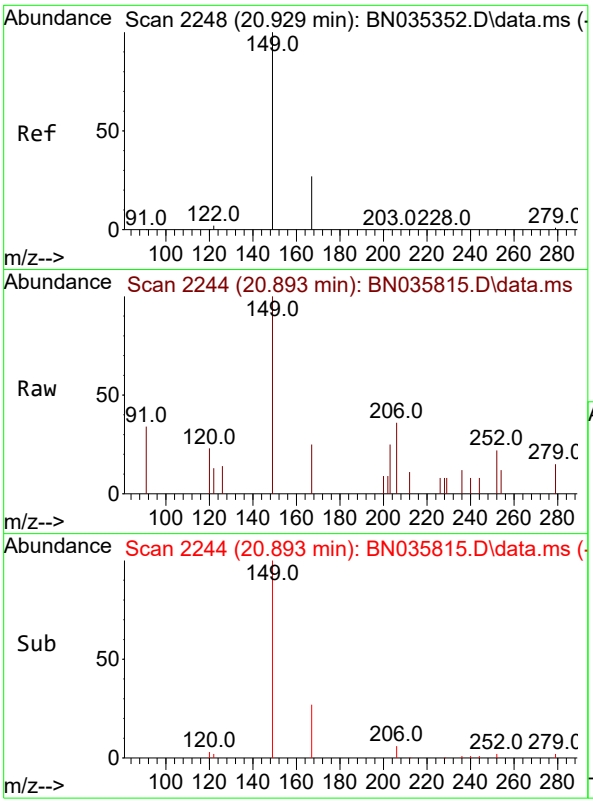


#33
Chrysene
Concen: 0.187 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:228 Resp: 4527

Ion	Ratio	Lower	Upper
228	100		
226	32.4	24.6	37.0
229	21.2	15.9	23.9



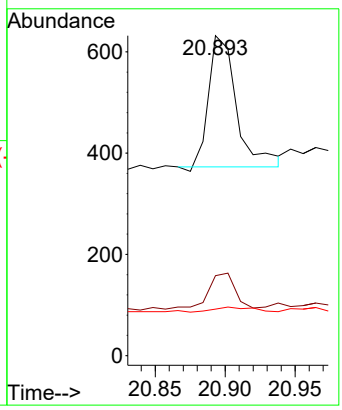


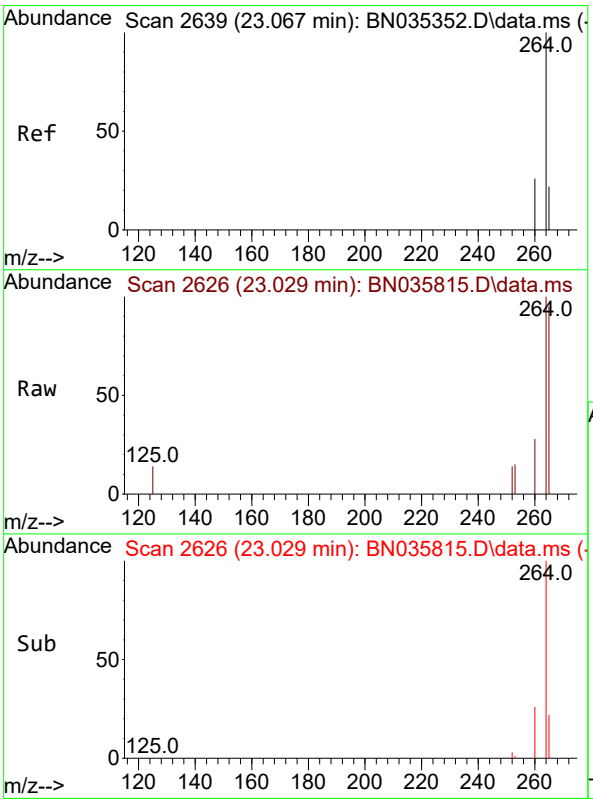
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.038 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:149 Resp: 357

Ion	Ratio	Lower	Upper
149	100		
167	26.9	22.2	33.4
279	4.5	2.7	4.1#

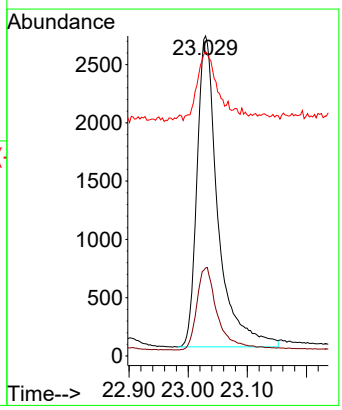


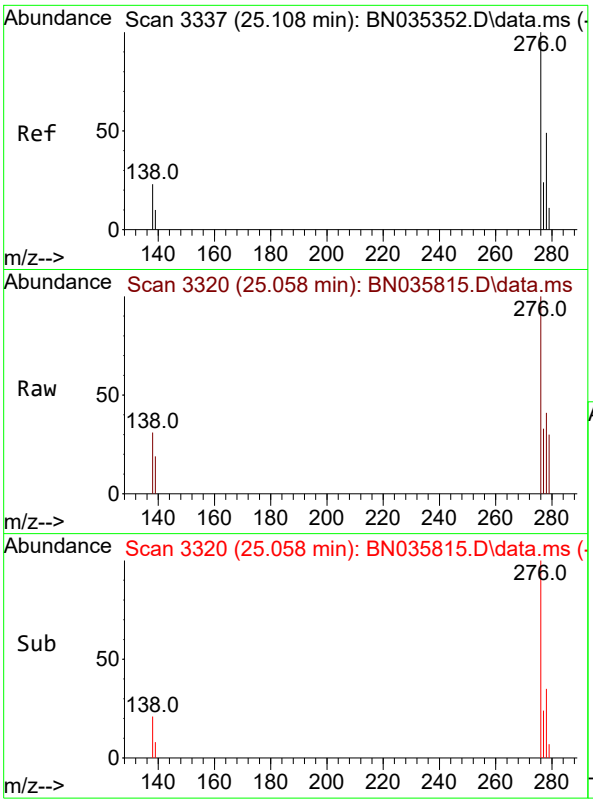


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:264 Resp: 6588

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	95.1	40.2	60.4#



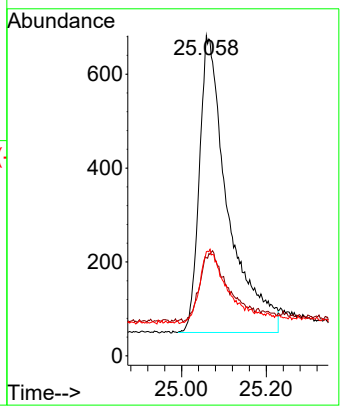


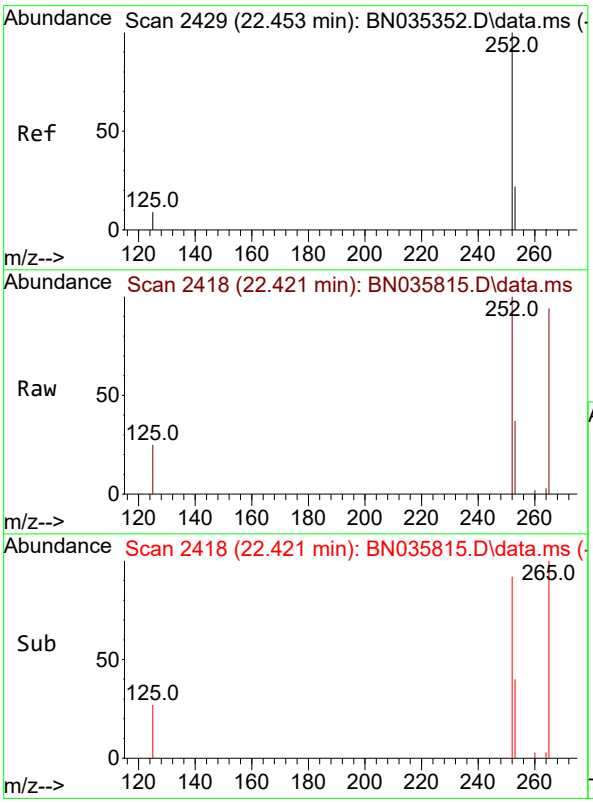
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.115 ng
RT: 25.058 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:276 Resp: 2949

Ion	Ratio	Lower	Upper
276	100		
138	22.4	19.4	29.0
277	22.2	19.8	29.6

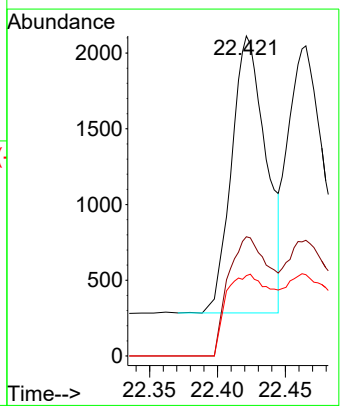


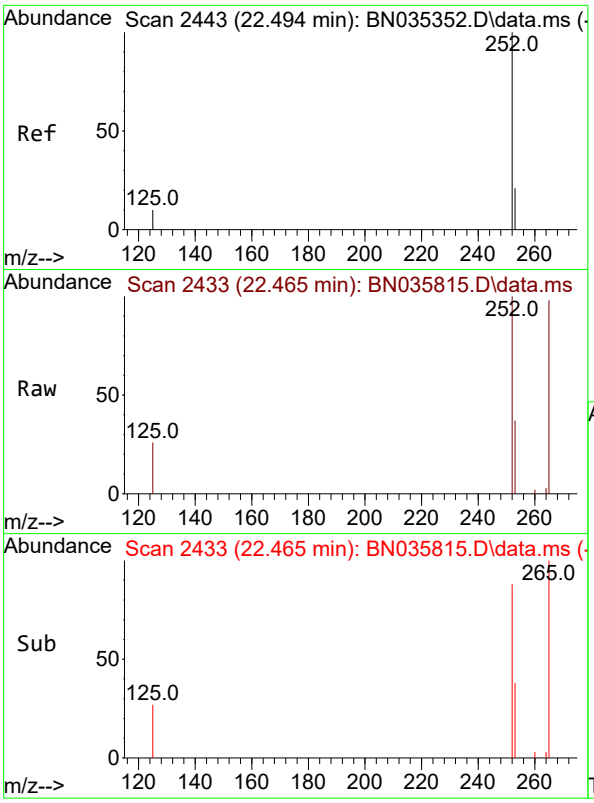


#37
Benzo(b)fluoranthene
Concen: 0.189 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.009 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 4545

Ion	Ratio	Lower	Upper
252	100		
253	37.2	19.6	29.4#
125	25.1	9.6	14.4#



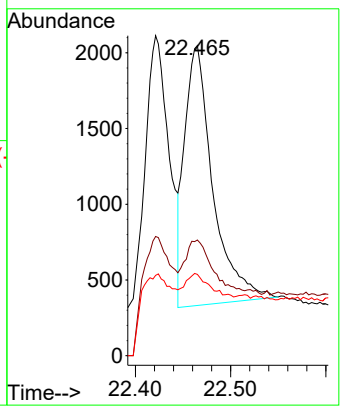


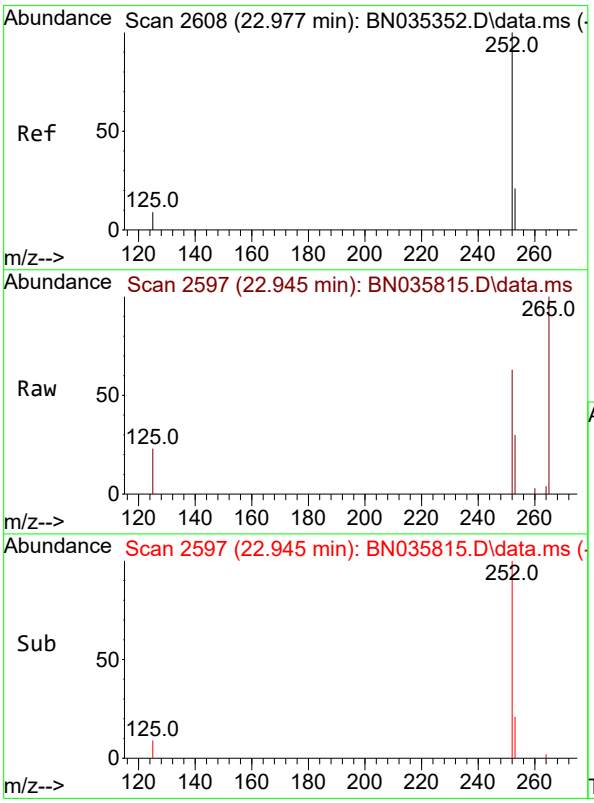
#38
Benzo(k)fluoranthene
Concen: 0.149 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:252 Resp: 3529

Ion	Ratio	Lower	Upper
252	100		
253	37.3	19.5	29.3#
125	26.2	10.2	15.4#

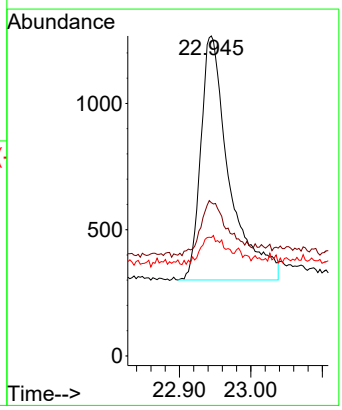


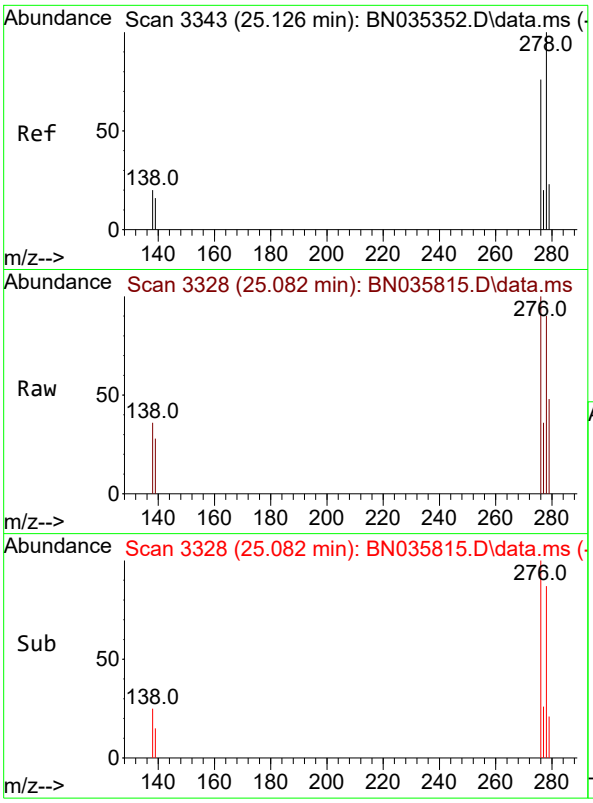


#39
Benzo(a)pyrene
Concen: 0.135 ng
RT: 22.945 min Scan# 2597
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:252 Resp: 2673

Ion	Ratio	Lower	Upper
252	100		
253	47.9	20.2	30.4#
125	37.0	10.9	16.3#



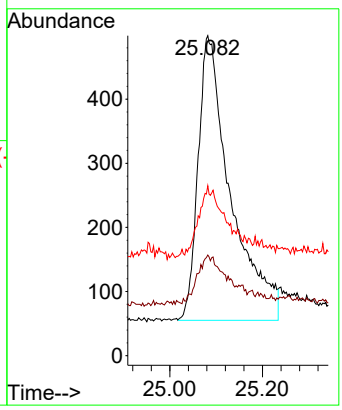


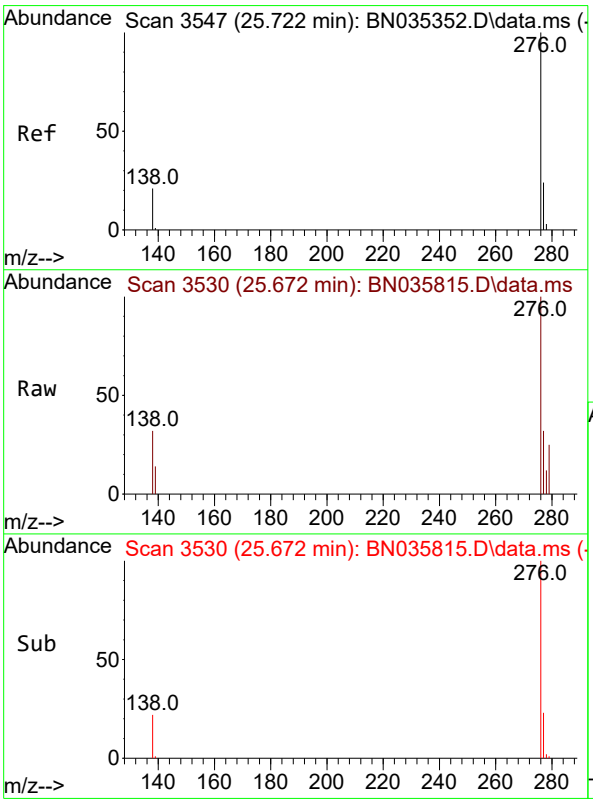
#40
Dibenzo(a,h)anthracene
Concen: 0.107 ng
RT: 25.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
TT150S1-20241218

Tgt Ion:278 Resp: 2170

Ion	Ratio	Lower	Upper
278	100		
139	31.5	14.2	21.4#
279	53.1	20.5	30.7#

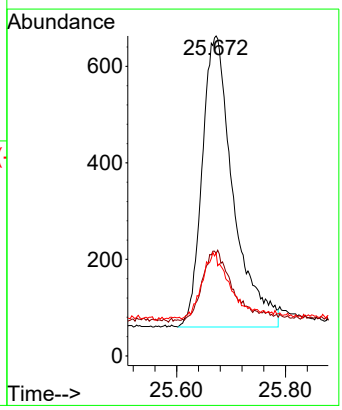




#41
Benzo(g,h,i)perylene
Concen: 0.113 ng
RT: 25.672 min Scan# 3530
Delta R.T. -0.006 min
Lab File: BN035815.D
Acq: 24 Dec 2024 11:21

Tgt Ion:276 Resp: 2390

Ion	Ratio	Lower	Upper
276	100		
277	32.0	19.9	29.9#
138	32.1	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Quant Time: Dec 24 23:17:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3275	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	7772	0.400	ng		-0.01
13) Acenaphthene-d10	13.925	164	4979	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10106	0.400	ng	#	0.00
29) Chrysene-d12	20.947	240	8871	0.400	ng		0.00
35) Perylene-d12	23.032	264	8758	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	753	0.092	ng		-0.01
5) Phenol-d6	6.477	99	383	0.039	ng		-0.01
8) Nitrobenzene-d5	8.408	82	2504	0.527	ng		0.00
11) 2-Methylnaphthalene-d10	11.621	152	3538	0.291	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	586	0.166	ng		0.00
15) 2-Fluorobiphenyl	12.539	172	6110	0.325	ng		0.00
27) Fluoranthene-d10	18.752	212	10407	0.363	ng		0.00
31) Terphenyl-d14	19.379	244	8030	0.459	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	23179	7.403	ng		99
6) bis(2-Chloroethyl)ether	6.723	93	310	0.037	ng		93
9) Naphthalene	10.052	128	1561	0.076	ng	#	80
12) 2-Methylnaphthalene	11.697	142	932	0.064	ng	#	87
16) Acenaphthylene	13.636	152	1554	0.074	ng		99
17) Acenaphthene	13.989	154	972	0.070	ng		97
18) Fluorene	14.994	166	1321	0.066	ng		98
25) Phenanthrene	16.736	178	2623	0.094	ng		99
26) Anthracene	16.835	178	1938	0.077	ng		98
28) Fluoranthene	18.780	202	3054	0.082	ng		99
30) Pyrene	19.152	202	3188	0.097	ng		99
32) Benzo(a)anthracene	20.929	228	1910	0.062	ng		93
33) Chrysene	20.983	228	2737	0.086	ng		94
34) Bis(2-ethylhexyl)phtha...	20.893	149	623	0.051	ng	#	94
36) Indeno(1,2,3-cd)pyrene	25.073	276	1728	0.050	ng	#	68
37) Benzo(b)fluoranthene	22.424	252	2429	0.076	ng	#	52
38) Benzo(k)fluoranthene	22.465	252	1987	0.063	ng	#	51
39) Benzo(a)pyrene	22.948	252	1503	0.057	ng	#	21
40) Dibenzo(a,h)anthracene	25.088	278	1220	0.045	ng	#	30
41) Benzo(g,h,i)perylene	25.678	276	1434	0.051	ng	#	72

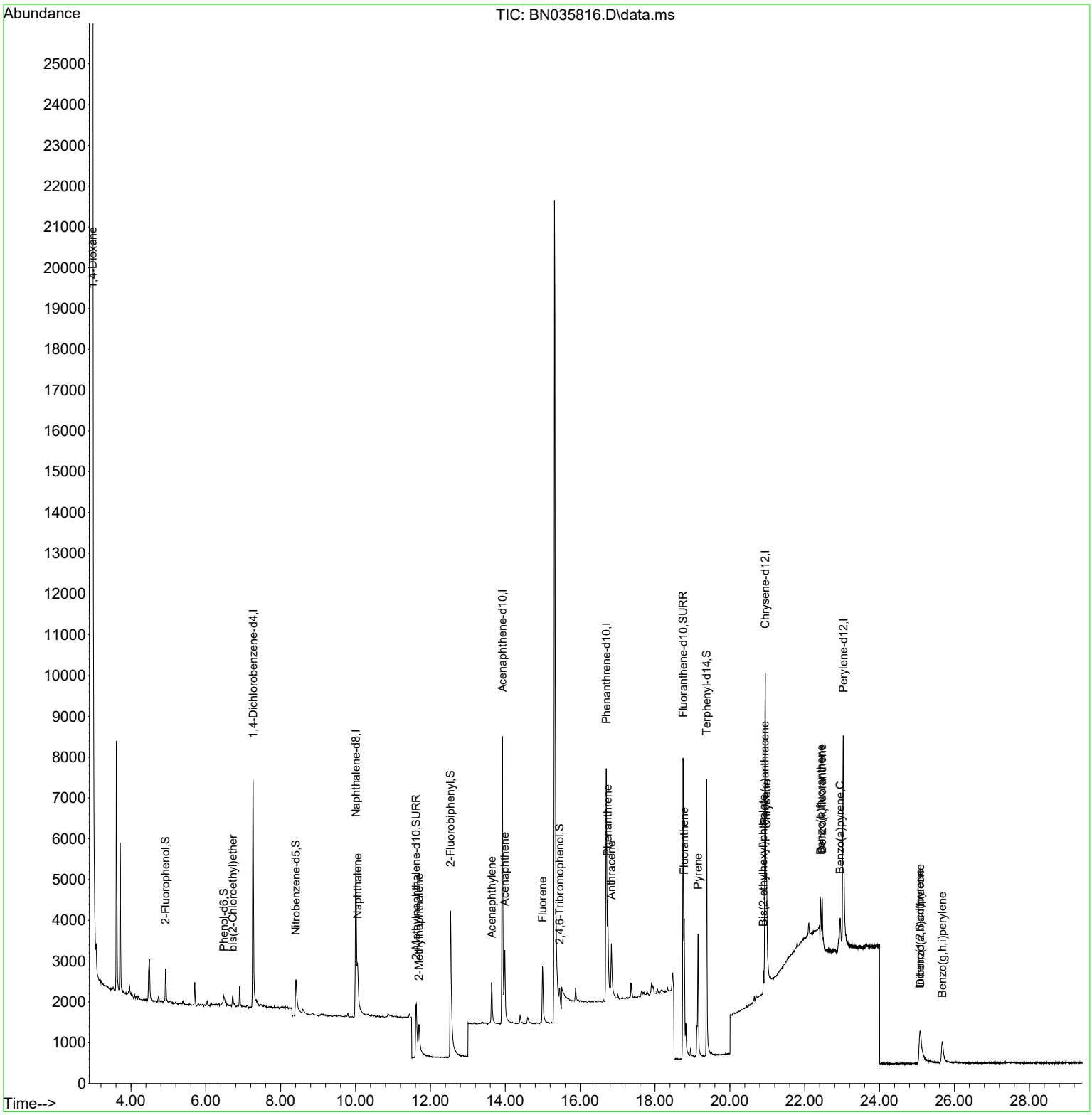
(#) = qualifier out of range (m) = manual integration (+) = signals summed

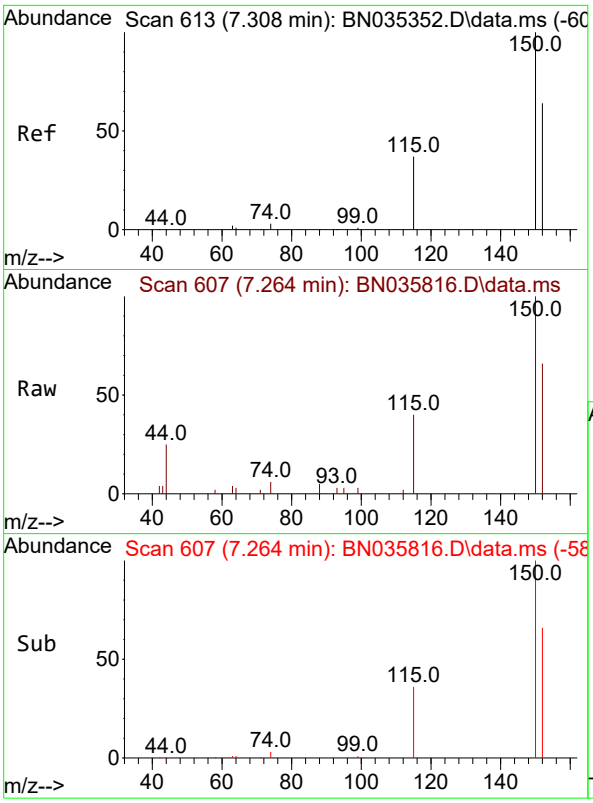
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035816.D
Acq On : 24 Dec 2024 11:57
Operator : RC/JU
Sample : P5376-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Quant Time: Dec 24 23:17:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



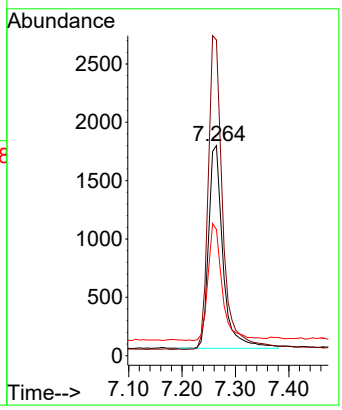


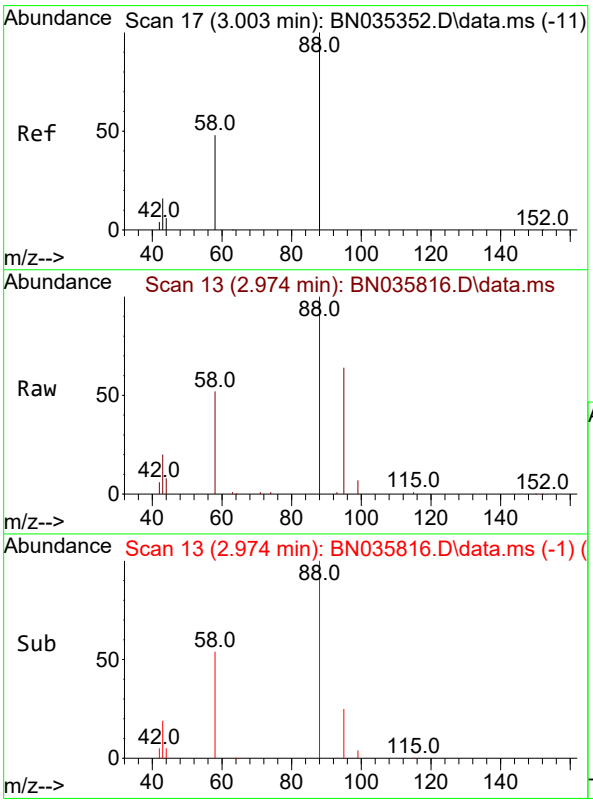
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:152 Resp: 3275

Ion	Ratio	Lower	Upper
152	100		
150	150.4	124.0	186.0
115	60.1	49.6	74.4

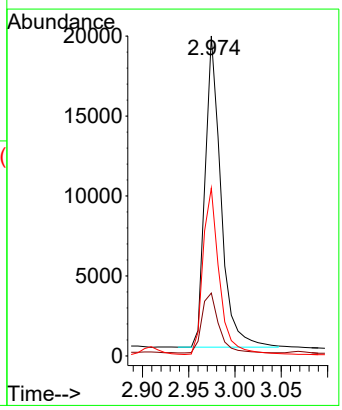


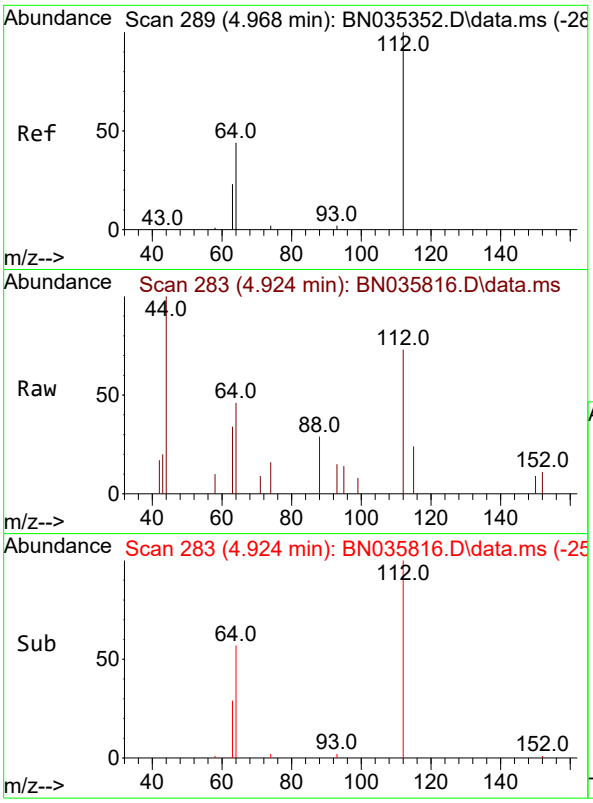


#2
1,4-Dioxane
Concen: 7.403 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 88 Resp: 23179

Ion	Ratio	Lower	Upper
88	100		
43	20.6	17.2	25.8
58	55.1	44.5	66.7



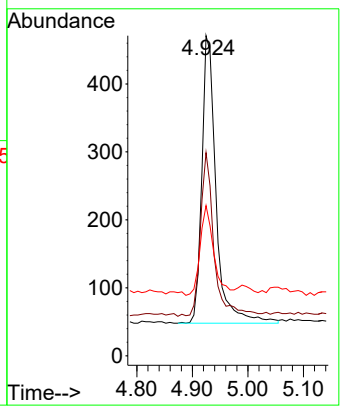


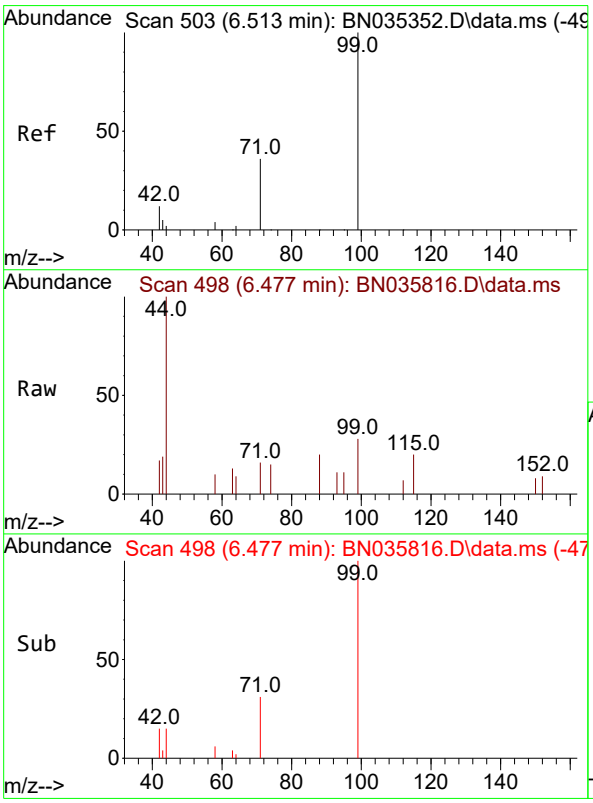
#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:112 Resp: 753

Ion	Ratio	Lower	Upper
112	100		
64	53.0	39.8	59.8
63	29.3	21.0	31.6

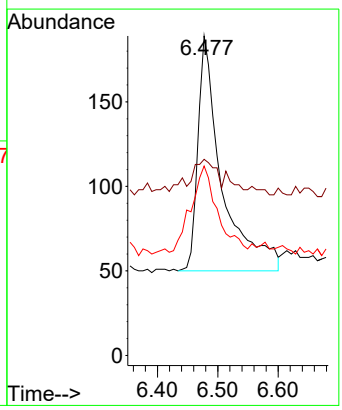


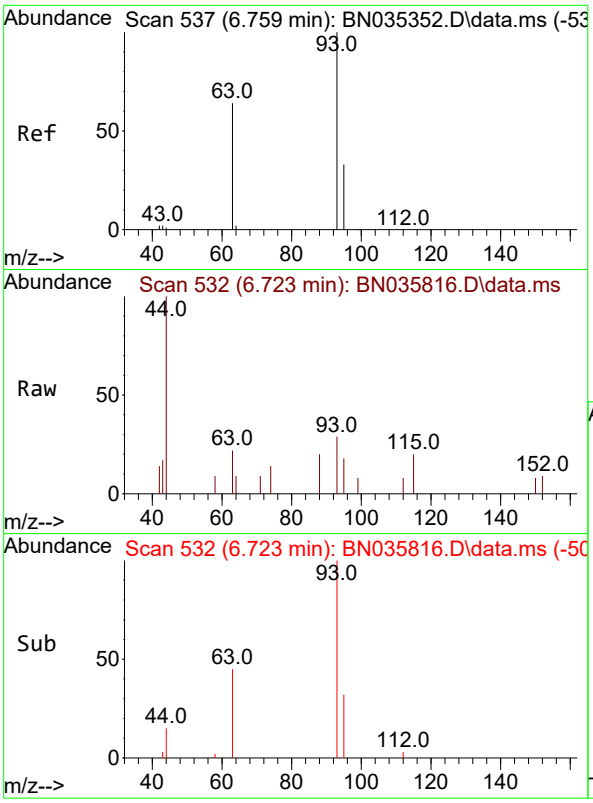


#5
Phenol-d6
Concen: 0.039 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion: 99 Resp: 383

Ion	Ratio	Lower	Upper
99	100		
42	13.8	11.4	17.2
71	44.4	29.3	43.9#



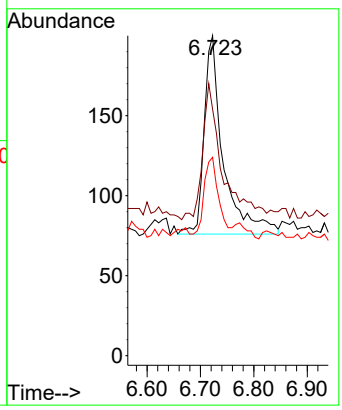


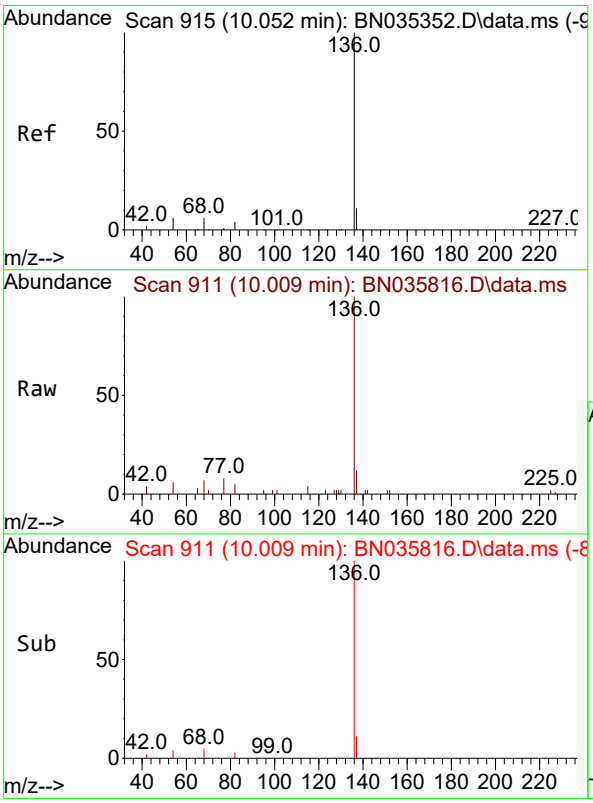
#6
bis(2-Chloroethyl)ether
Concen: 0.037 ng
RT: 6.723 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion: 93 Resp: 310

Ion	Ratio	Lower	Upper
93	100		
63	70.6	50.4	75.6
95	31.3	25.7	38.5

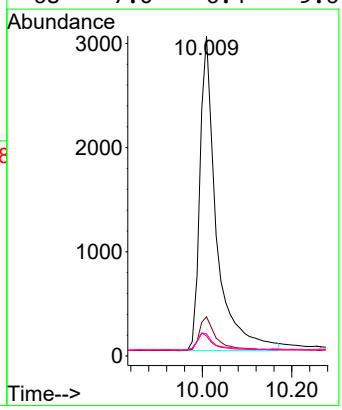


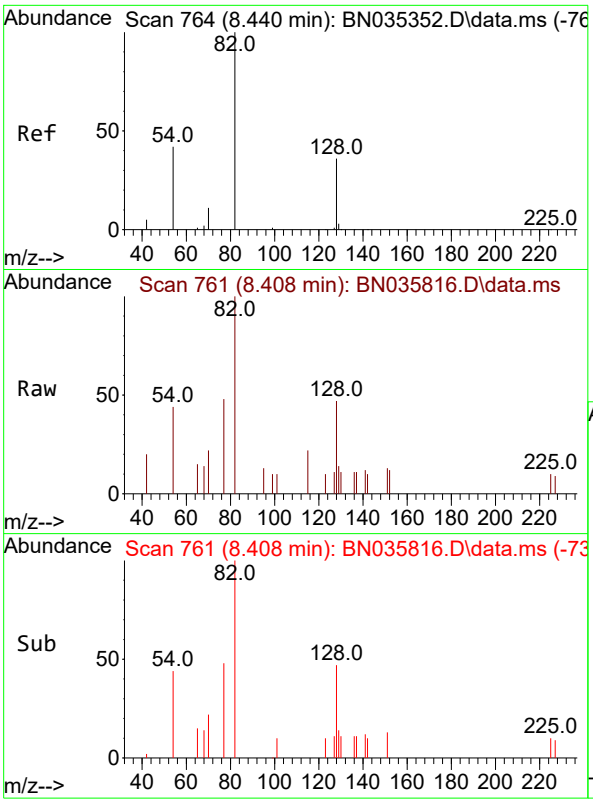


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:136 Resp: 7772

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.3	6.1	9.1
68	7.0	6.4	9.6



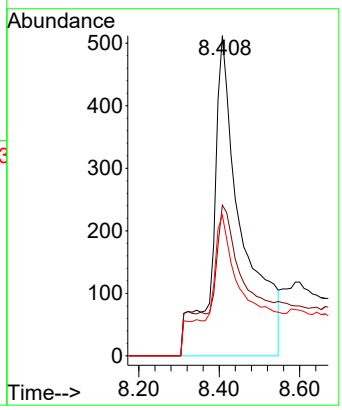


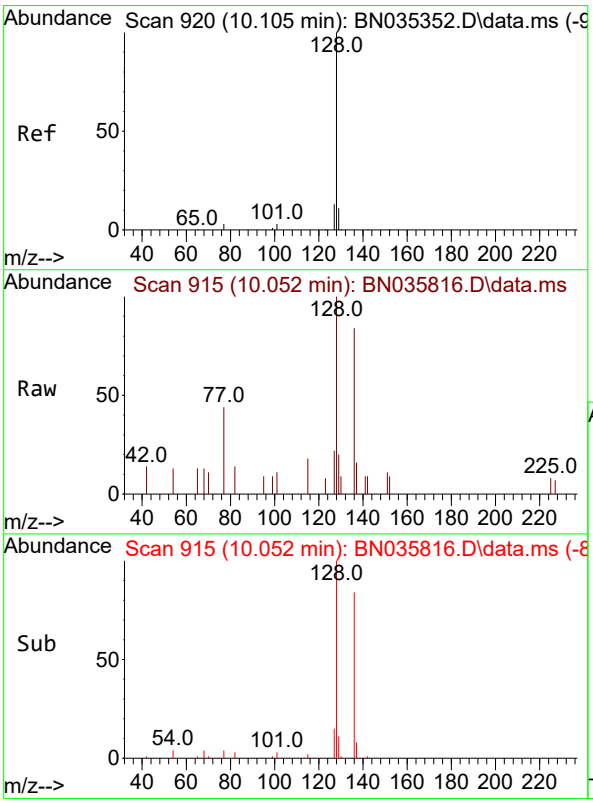
#8
Nitrobenzene-d5
Concen: 0.527 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion: 82 Resp: 2504

Ion	Ratio	Lower	Upper
82	100		
128	47.1	33.4	50.0
54	43.9	36.7	55.1

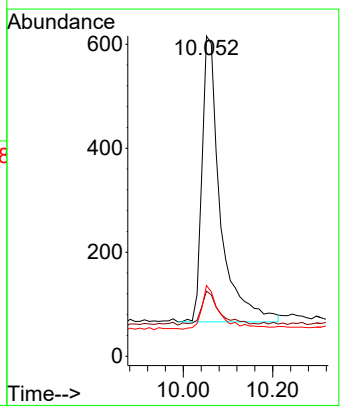


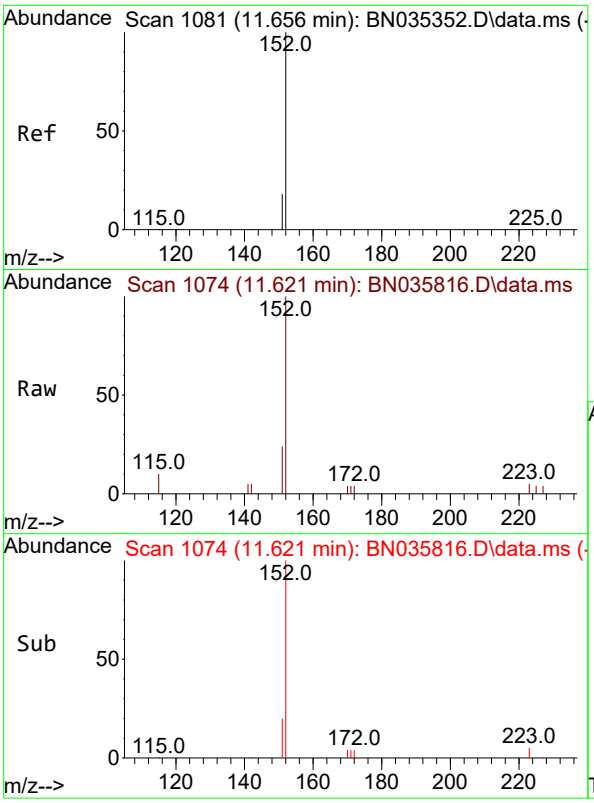


#9
Naphthalene
Concen: 0.076 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:128 Resp: 1561

Ion	Ratio	Lower	Upper
128	100		
129	20.3	9.8	14.6#
127	22.1	11.4	17.2#



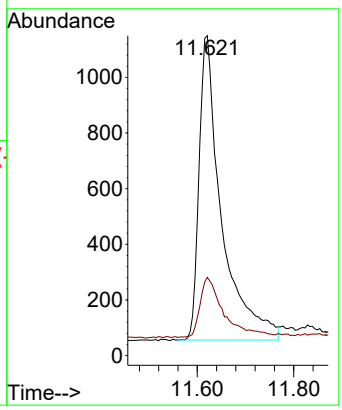


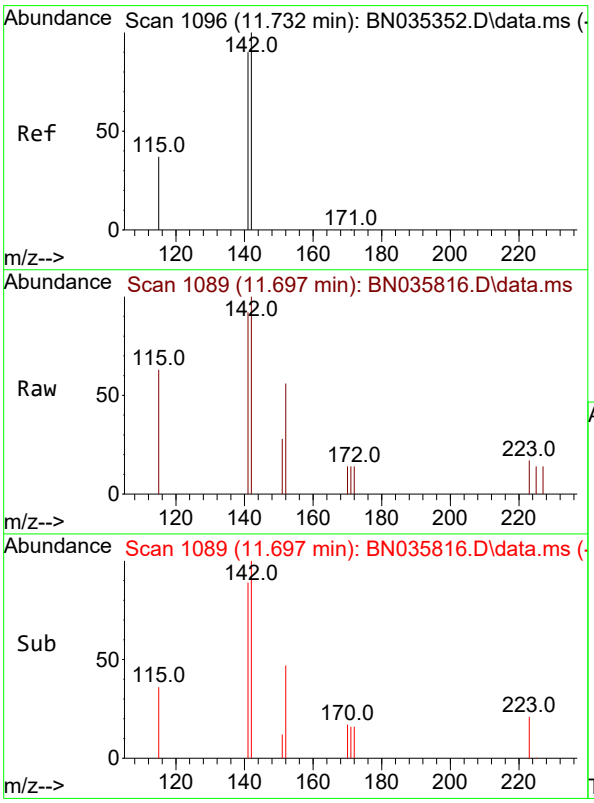
#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 11.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:152 Resp: 3538

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

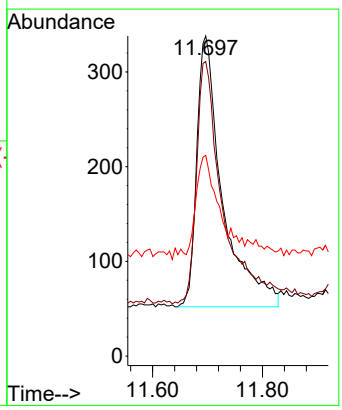


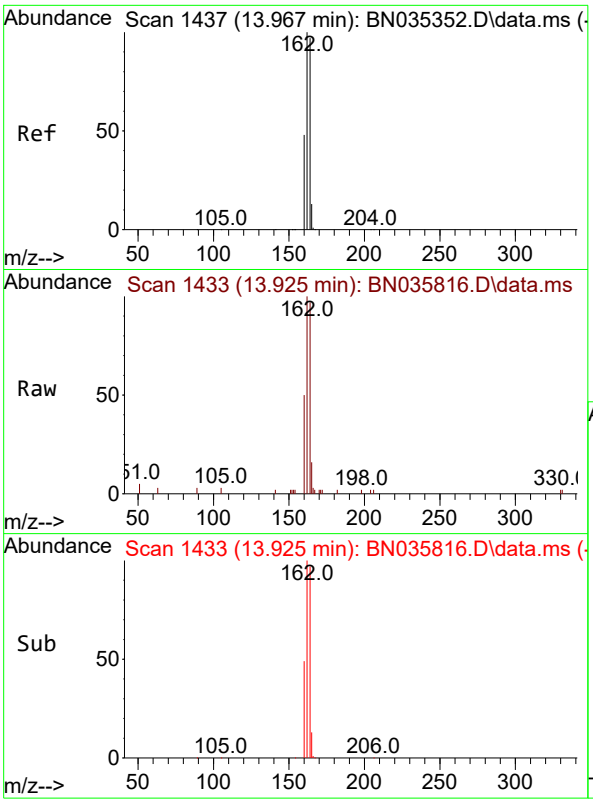


#12
2-Methylnaphthalene
Concen: 0.064 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:142 Resp: 932

Ion	Ratio	Lower	Upper
142	100		
141	92.0	72.2	108.4
115	62.7	31.4	47.0#



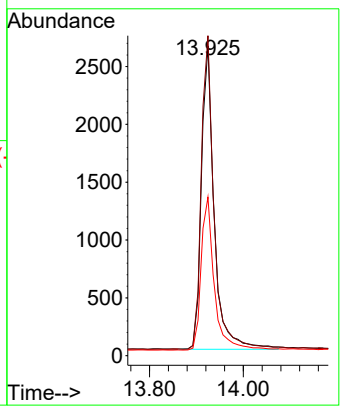


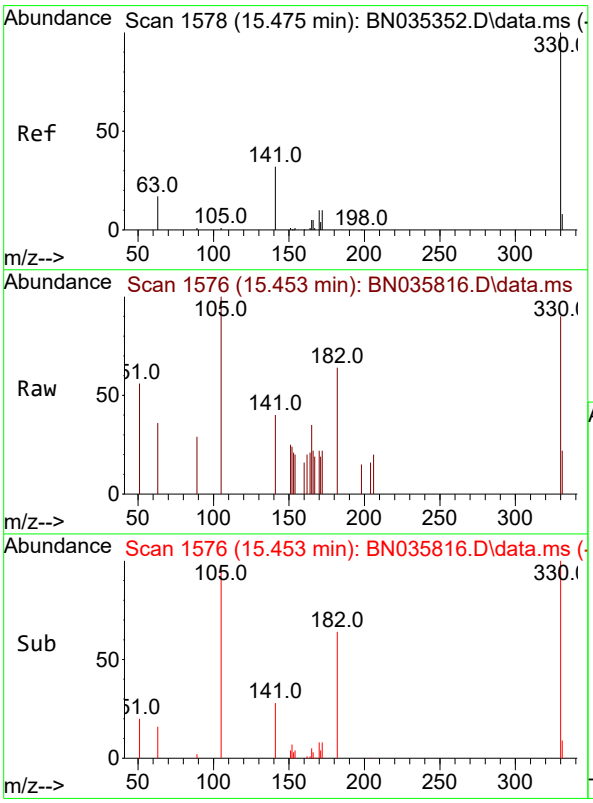
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:164 Resp: 4979

Ion	Ratio	Lower	Upper
164	100		
162	103.3	82.2	123.2
160	51.2	40.1	60.1

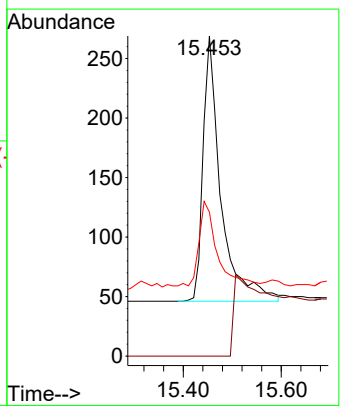


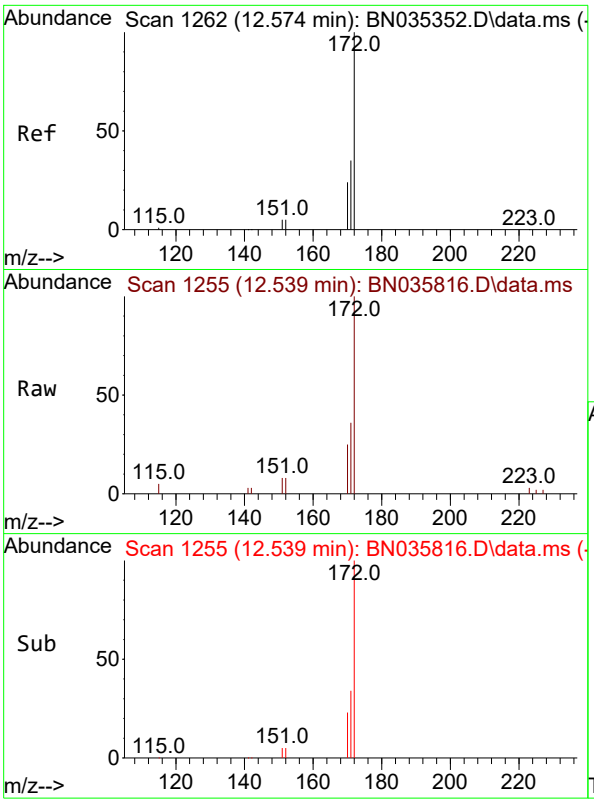


#14
2,4,6-Tribromophenol
Concen: 0.166 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:330 Resp: 586

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.6	26.6	40.0



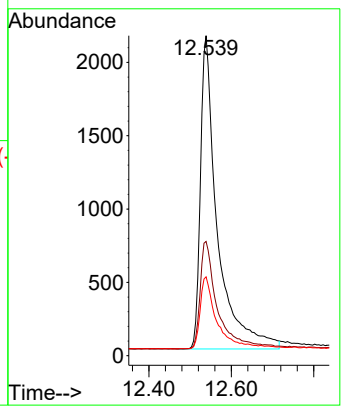


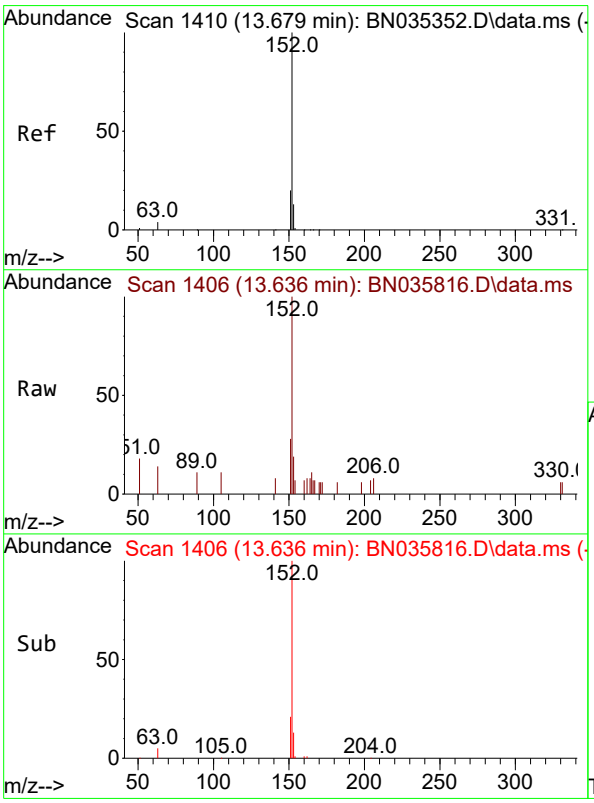
#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:172 Resp: 6110

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.7	19.8	29.8

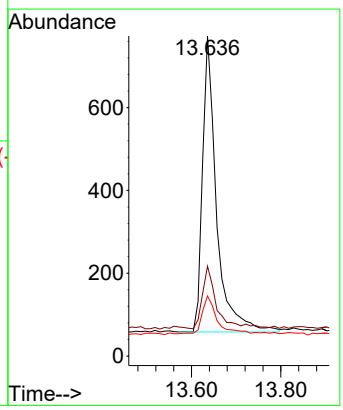


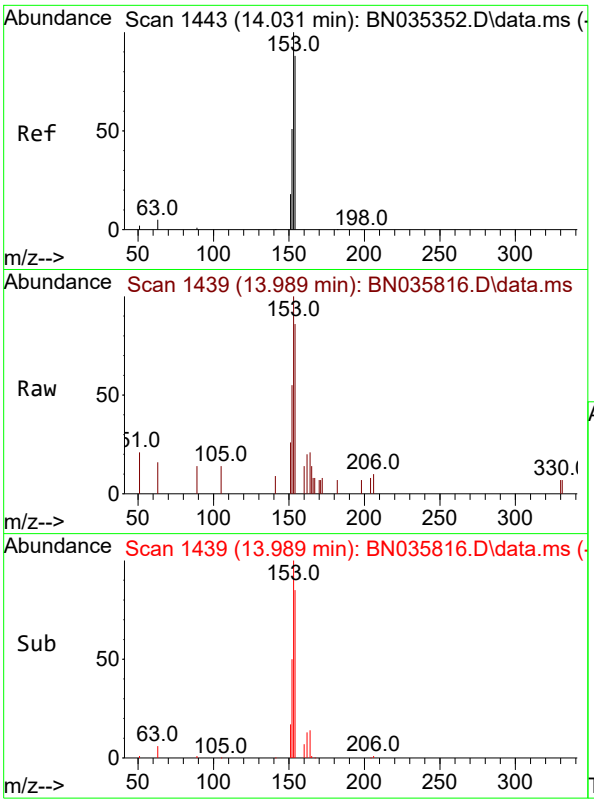


#16
Acenaphthylene
Concen: 0.074 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:152 Resp: 1554

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.2	24.2
153	13.4	10.4	15.6



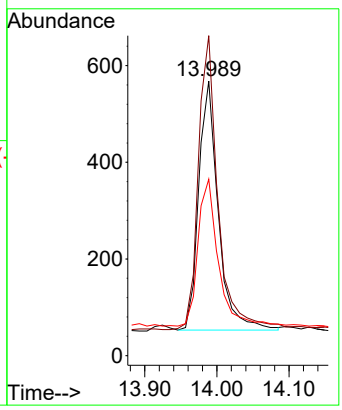


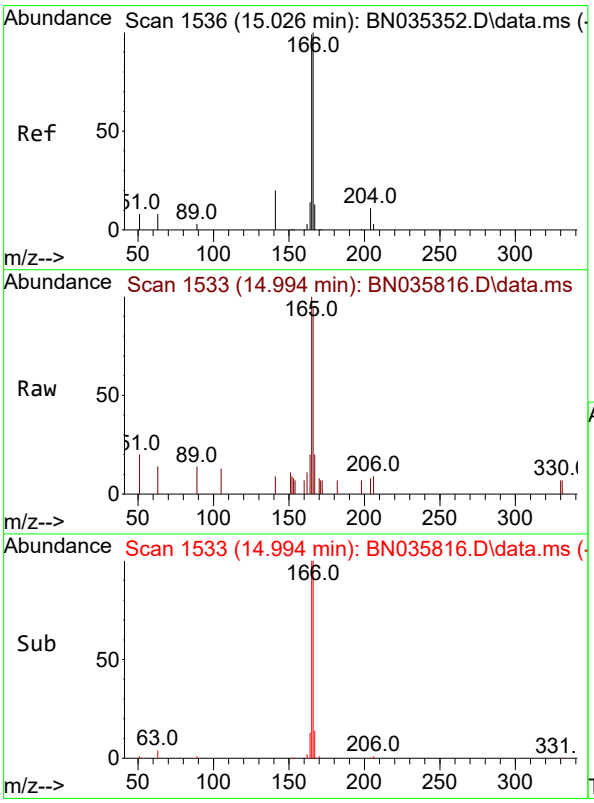
#17
Acenaphthene
Concen: 0.070 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:154 Resp: 972

Ion	Ratio	Lower	Upper
154	100		
153	119.9	92.6	139.0
152	61.5	49.0	73.6

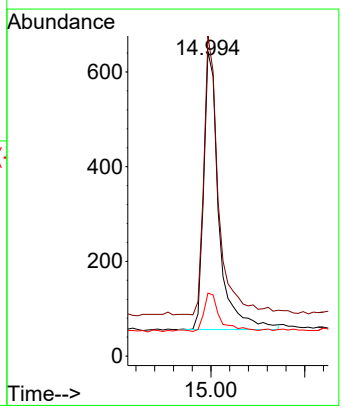


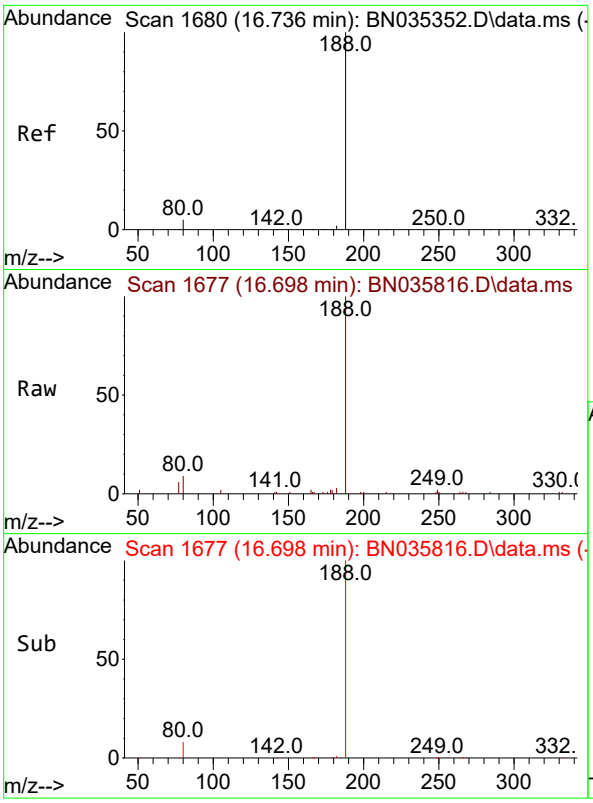


#18
Fluorene
Concen: 0.066 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:166 Resp: 1321

Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.7	119.5
167	14.5	10.8	16.2



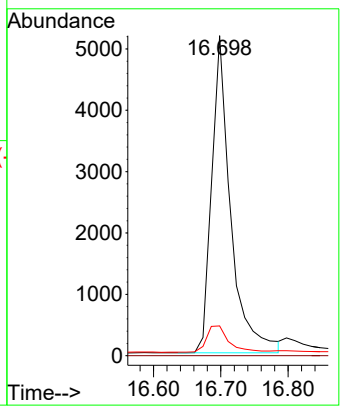


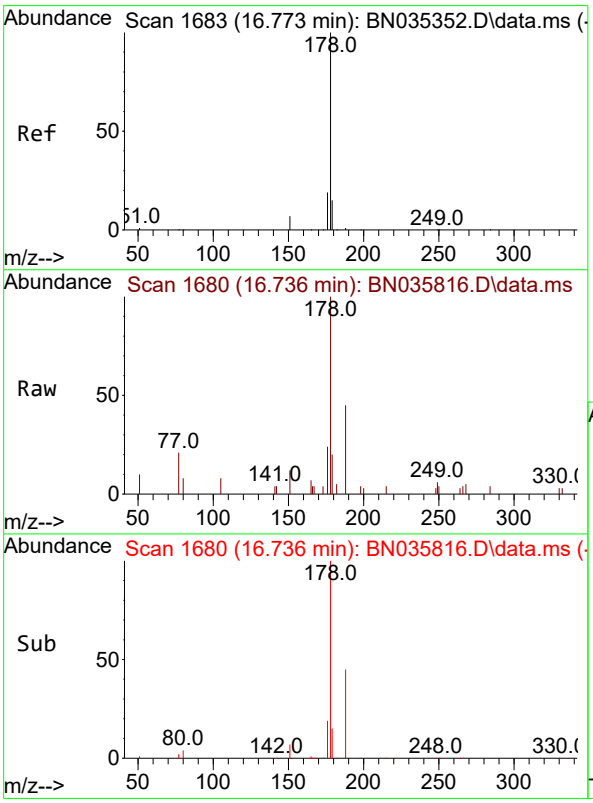
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:188 Resp: 10106

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	4.6	6.8#

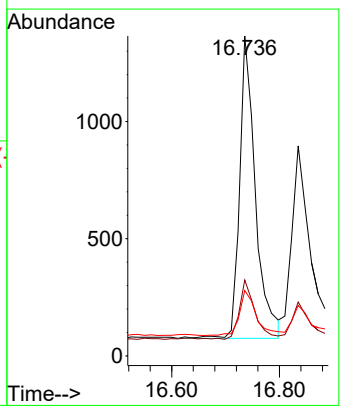


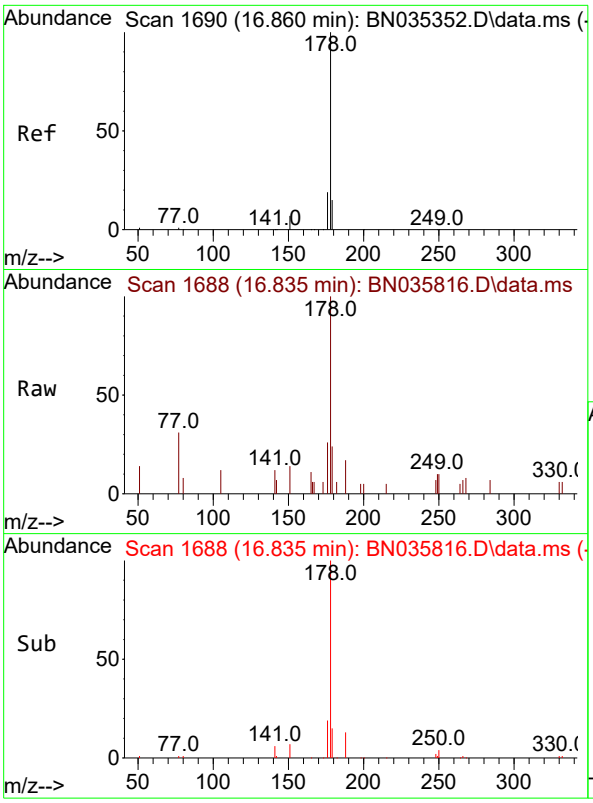


#25
Phenanthrene
Concen: 0.094 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:178 Resp: 2623

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.7	12.3	18.5



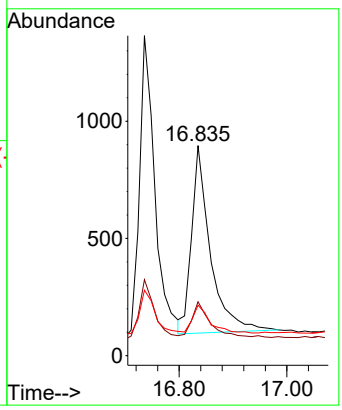


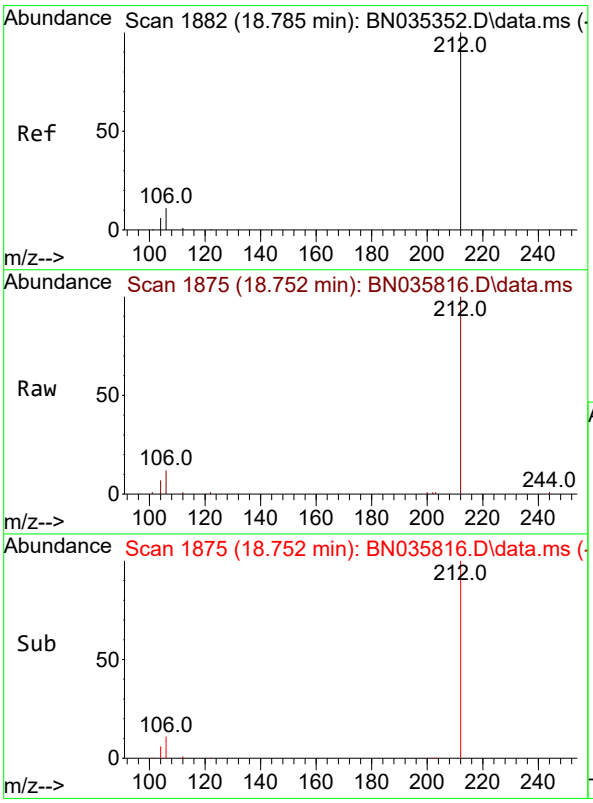
#26
Anthracene
Concen: 0.077 ng
RT: 16.835 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:178 Resp: 1938

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.0	22.6
179	14.3	12.6	18.8

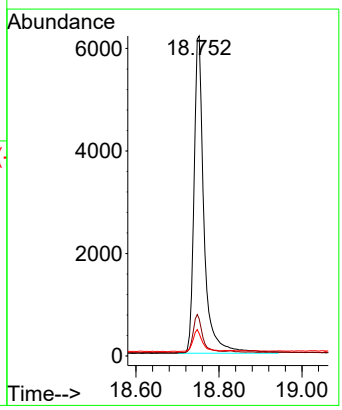


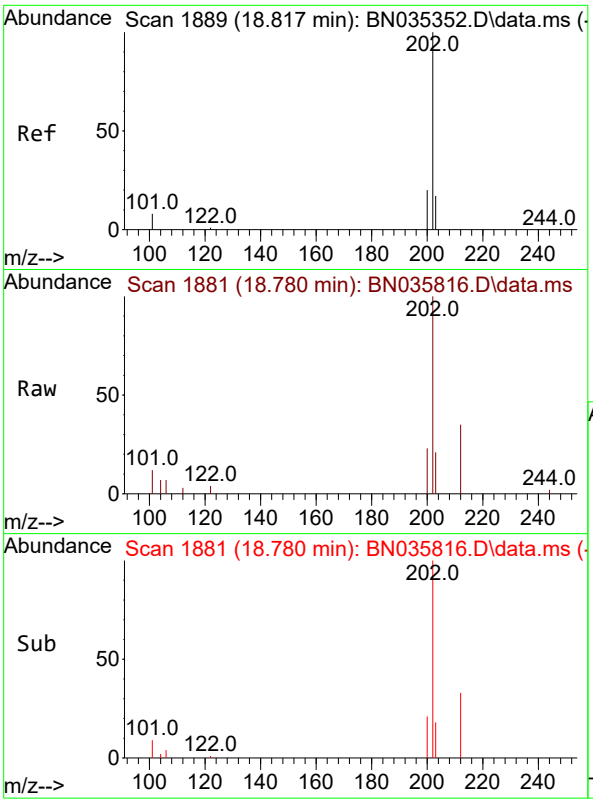


#27
Fluoranthene-d10
Concen: 0.363 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:212 Resp: 10407

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9



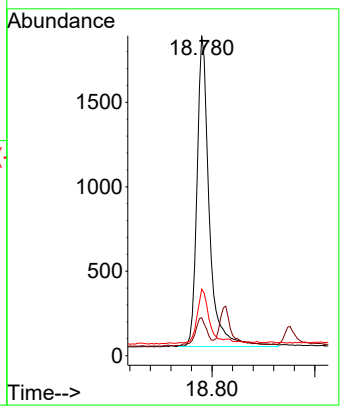


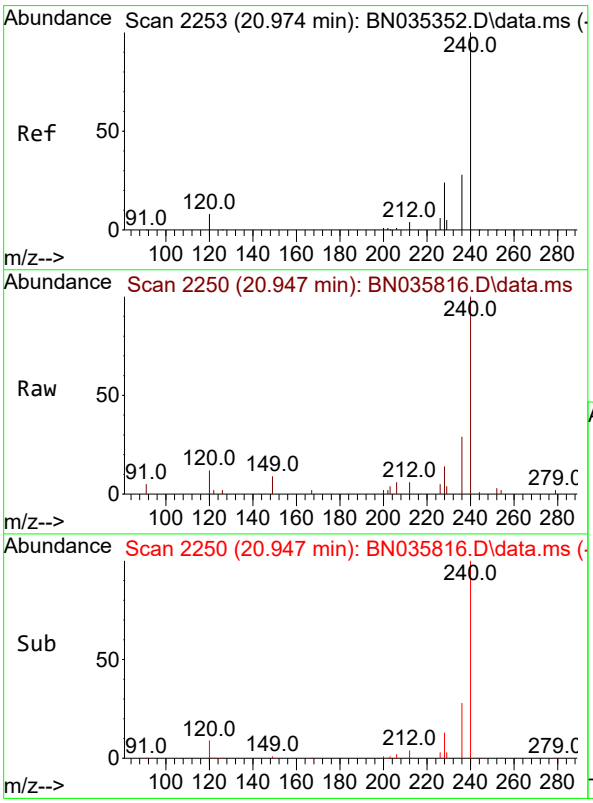
#28
Fluoranthene
Concen: 0.082 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:202 Resp: 3054

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	16.4	13.7	20.5

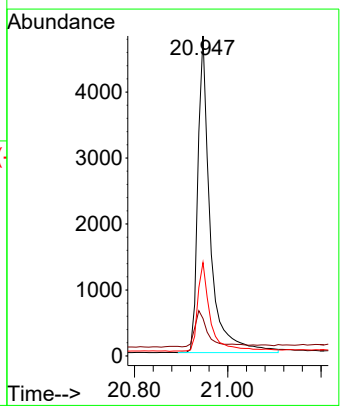


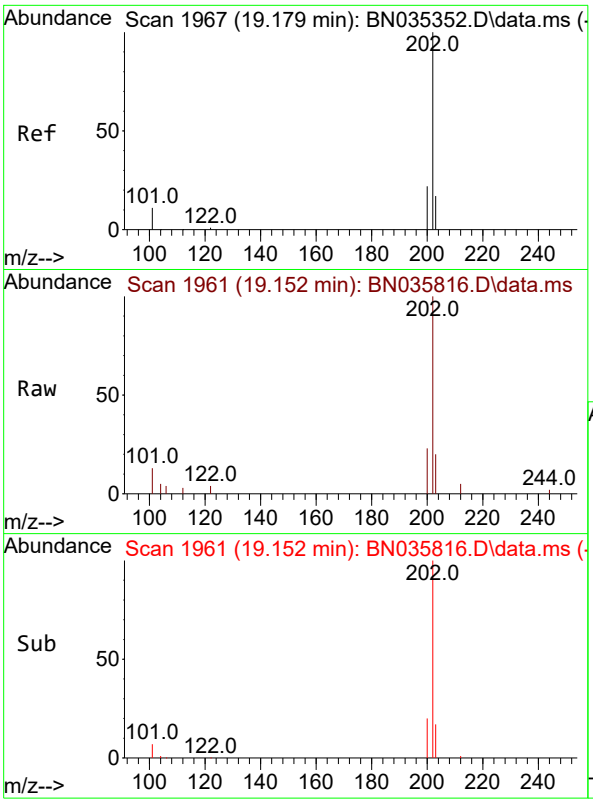


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:240 Resp: 8871

Ion	Ratio	Lower	Upper
240	100		
120	11.7	7.9	11.9
236	29.2	22.9	34.3



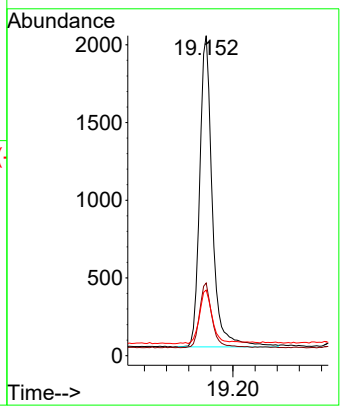


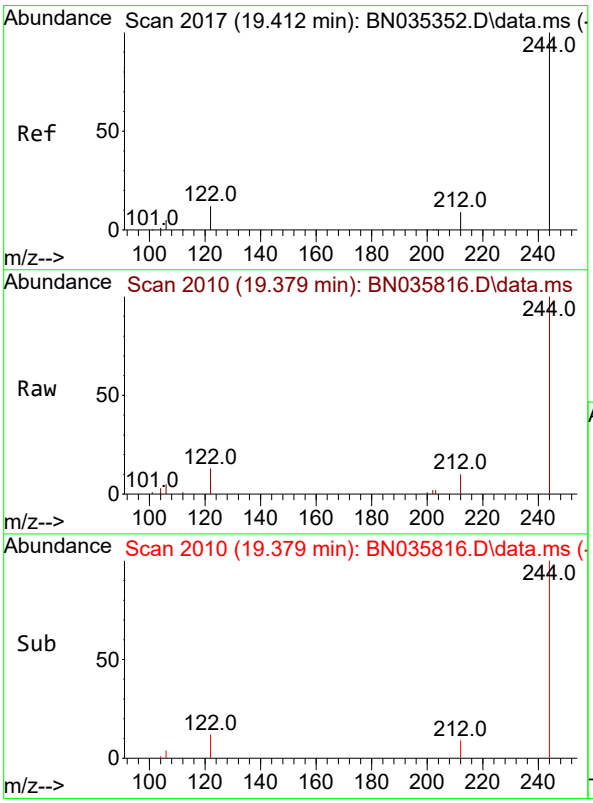
#30
Pyrene
Concen: 0.097 ng
RT: 19.152 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:202 Resp: 3188

Ion	Ratio	Lower	Upper
202	100		
200	20.5	17.0	25.4
203	17.3	14.3	21.5

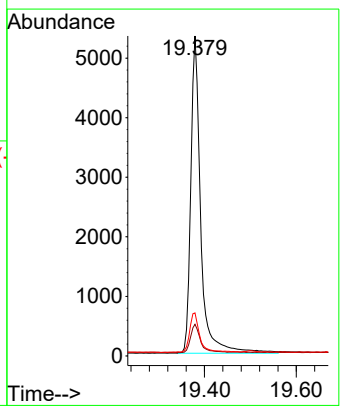


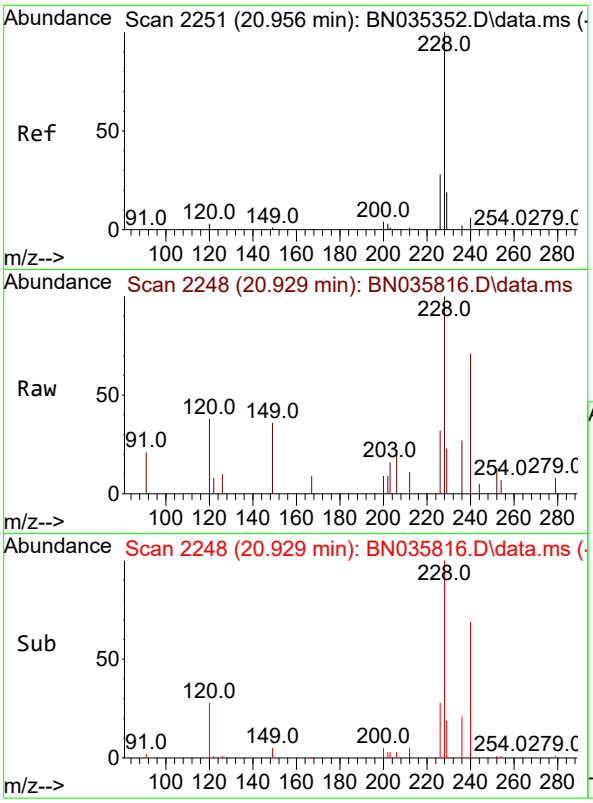


#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:244 Resp: 8030

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.5	10.3	15.5



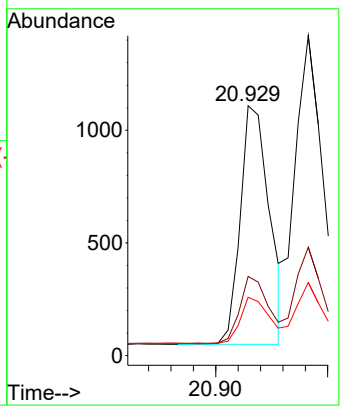


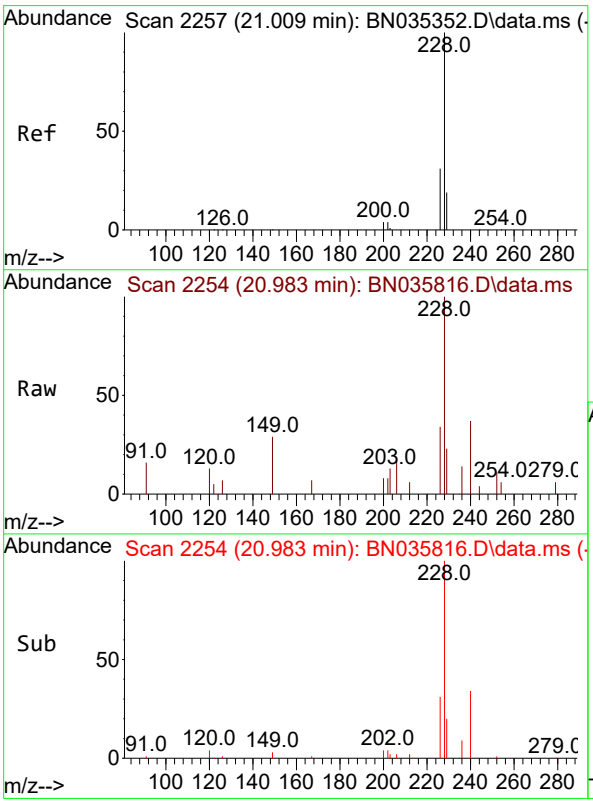
#32
Benzo(a)anthracene
Concen: 0.062 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:228 Resp: 1910

Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.5	33.7
229	23.4	15.8	23.8

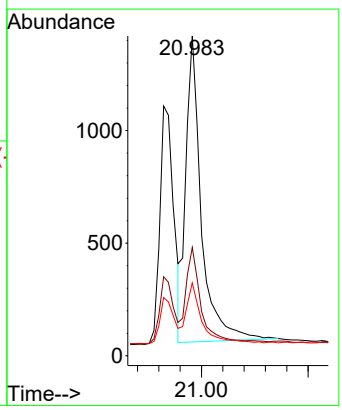


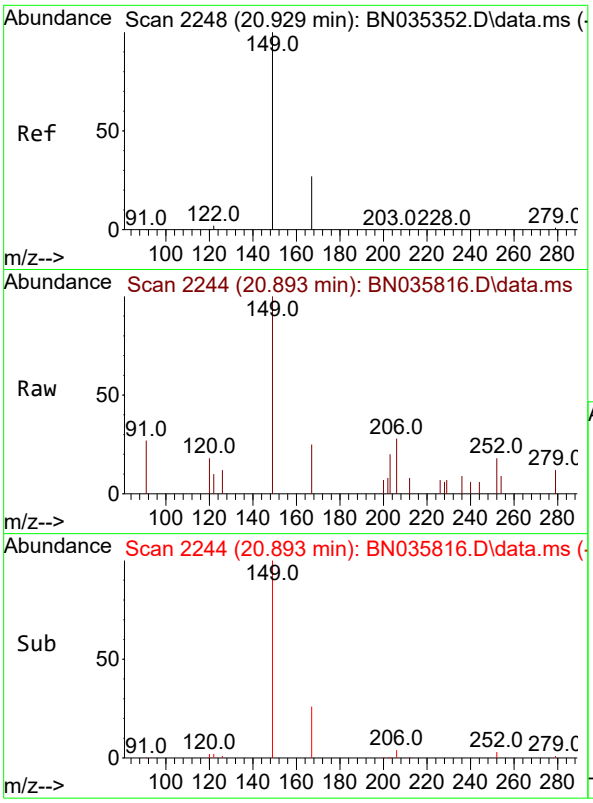


#33
Chrysene
Concen: 0.086 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:228 Resp: 2737

Ion	Ratio	Lower	Upper
228	100		
226	33.9	24.6	37.0
229	22.8	15.9	23.9



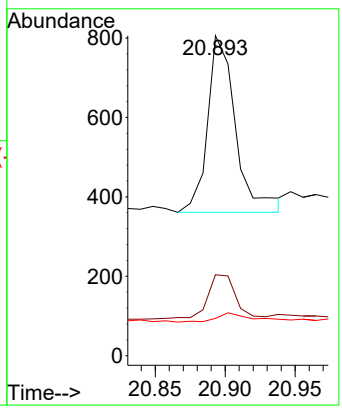


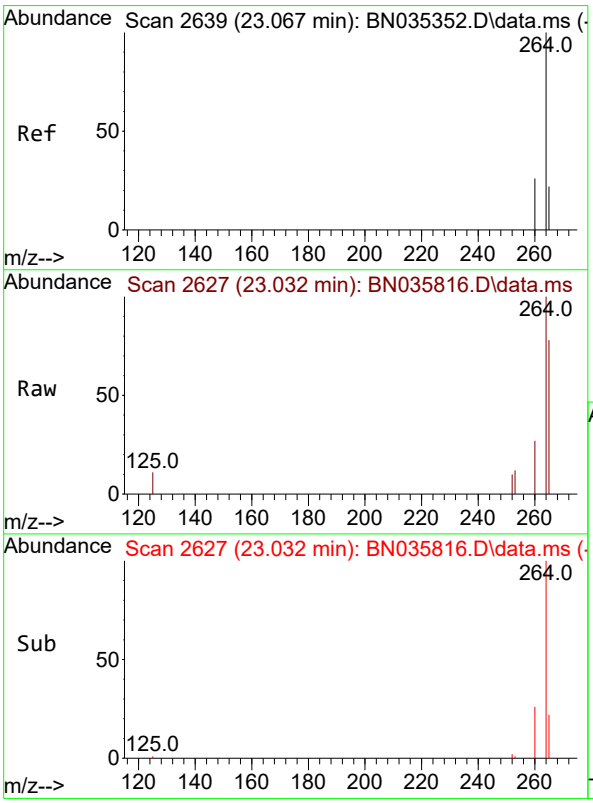
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.051 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:149 Resp: 623

Ion	Ratio	Lower	Upper
149	100		
167	24.7	22.2	33.4
279	6.7	2.7	4.1#

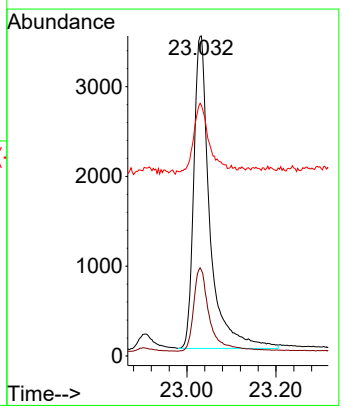


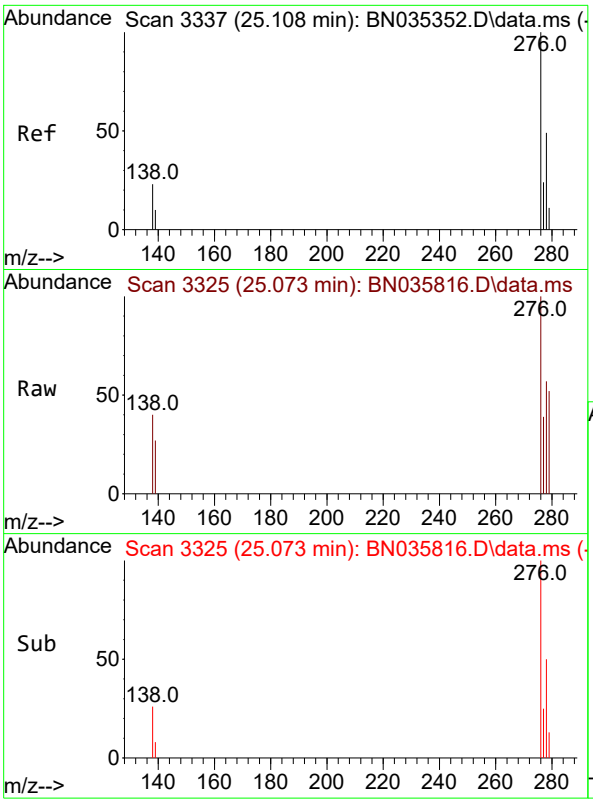


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:264 Resp: 8758

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	78.4	40.2	60.4#



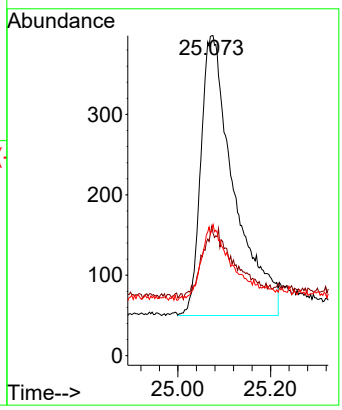


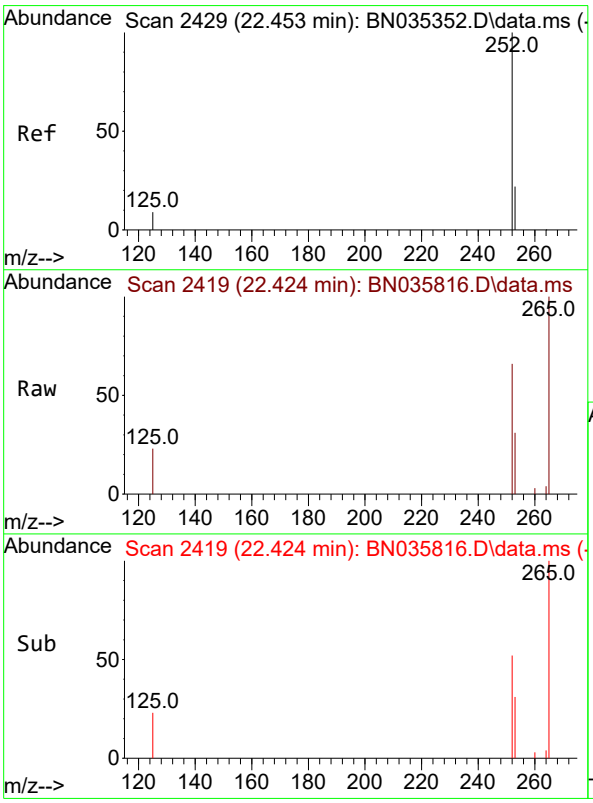
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.050 ng
RT: 25.073 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:276 Resp: 1728

Ion	Ratio	Lower	Upper
276	100		
138	10.1	19.4	29.0#
277	7.3	19.8	29.6#

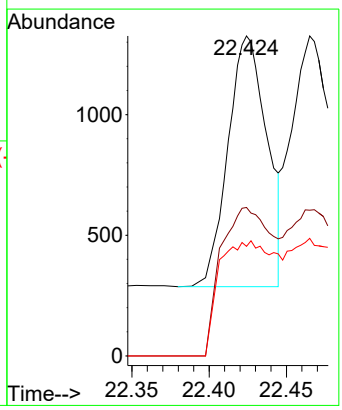


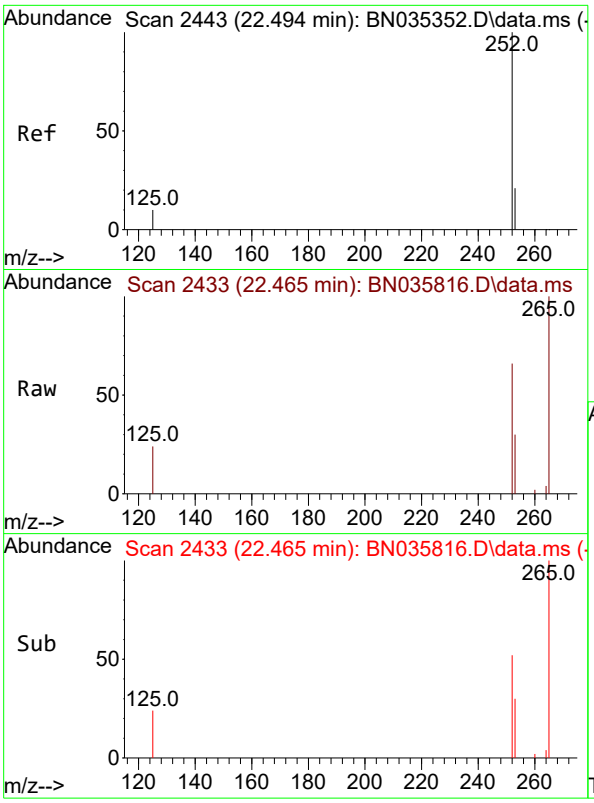


#37
Benzo(b)fluoranthene
Concen: 0.076 ng
RT: 22.424 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 2429

Ion	Ratio	Lower	Upper
252	100		
253	46.4	19.6	29.4#
125	34.2	9.6	14.4#



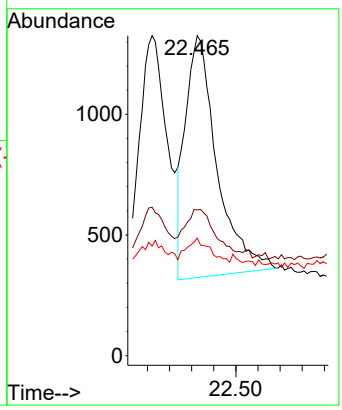


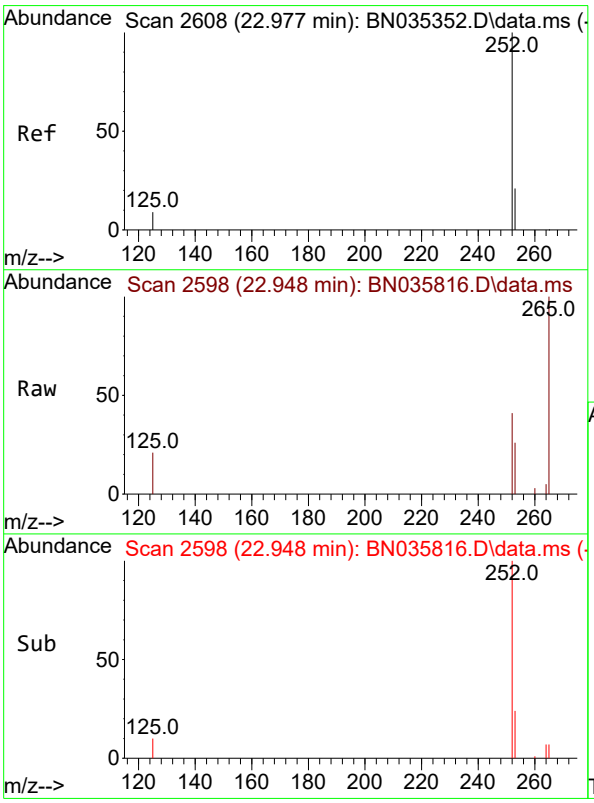
#38
Benzo(k)fluoranthene
Concen: 0.063 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:252 Resp: 1987

Ion	Ratio	Lower	Upper
252	100		
253	45.6	19.5	29.3#
125	36.7	10.2	15.4#

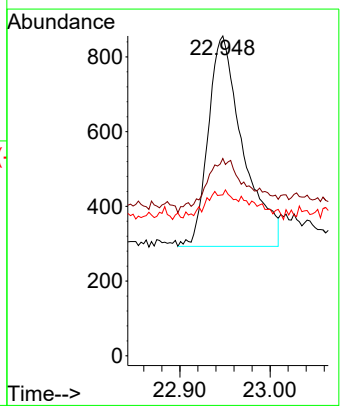


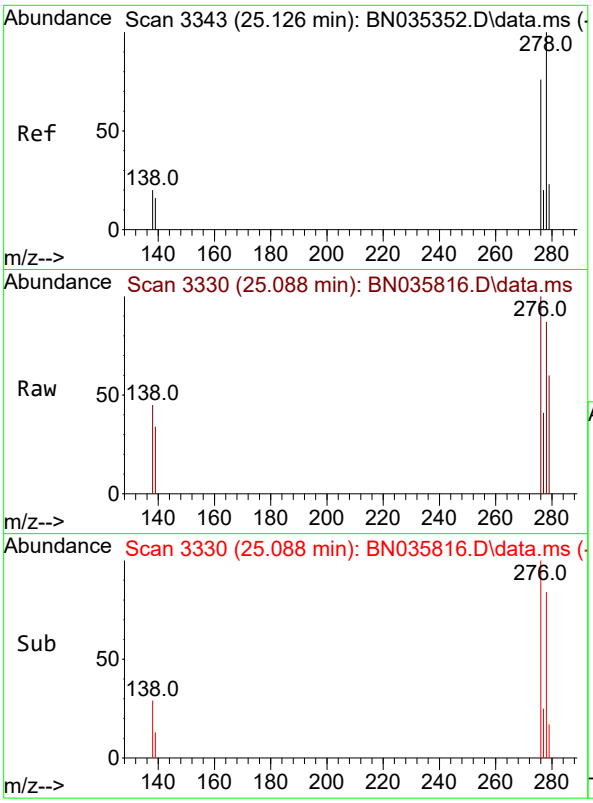


#39
Benzo(a)pyrene
Concen: 0.057 ng
RT: 22.948 min Scan# 2598
Delta R.T. -0.003 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:252 Resp: 1503

Ion	Ratio	Lower	Upper
252	100		
253	61.7	20.2	30.4#
125	50.4	10.9	16.3#



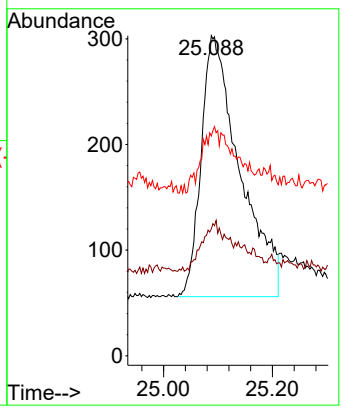


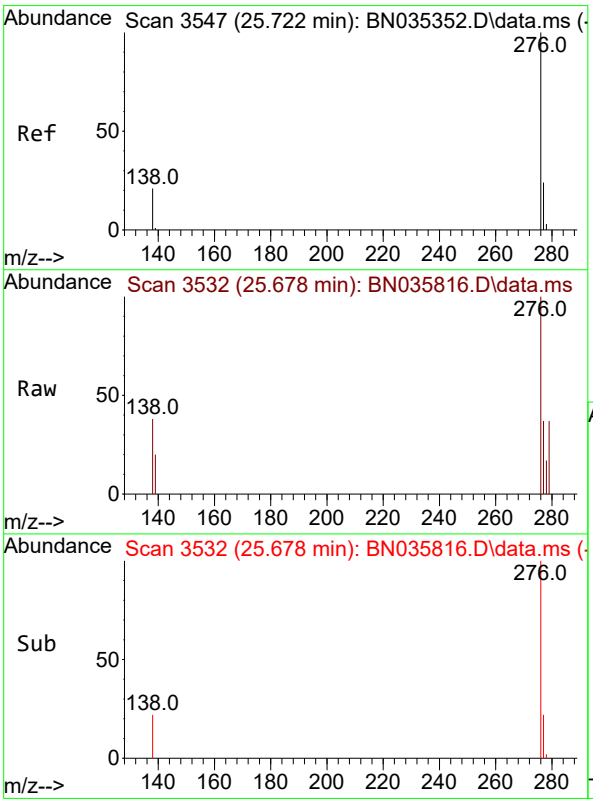
#40
Dibenzo(a,h)anthracene
Concen: 0.045 ng
RT: 25.088 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218

Tgt Ion:278 Resp: 1220

Ion	Ratio	Lower	Upper
278	100		
139	39.6	14.2	21.4#
279	68.6	20.5	30.7#

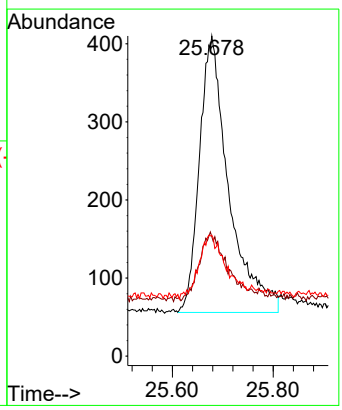




#41
Benzo(g,h,i)perylene
Concen: 0.051 ng
RT: 25.678 min Scan# 3532
Delta R.T. -0.000 min
Lab File: BN035816.D
Acq: 24 Dec 2024 11:57

Tgt Ion:276 Resp: 1434

Ion	Ratio	Lower	Upper
276	100		
277	37.3	19.9	29.9#
138	37.8	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035817.D
Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Quant Time: Dec 24 23:17:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

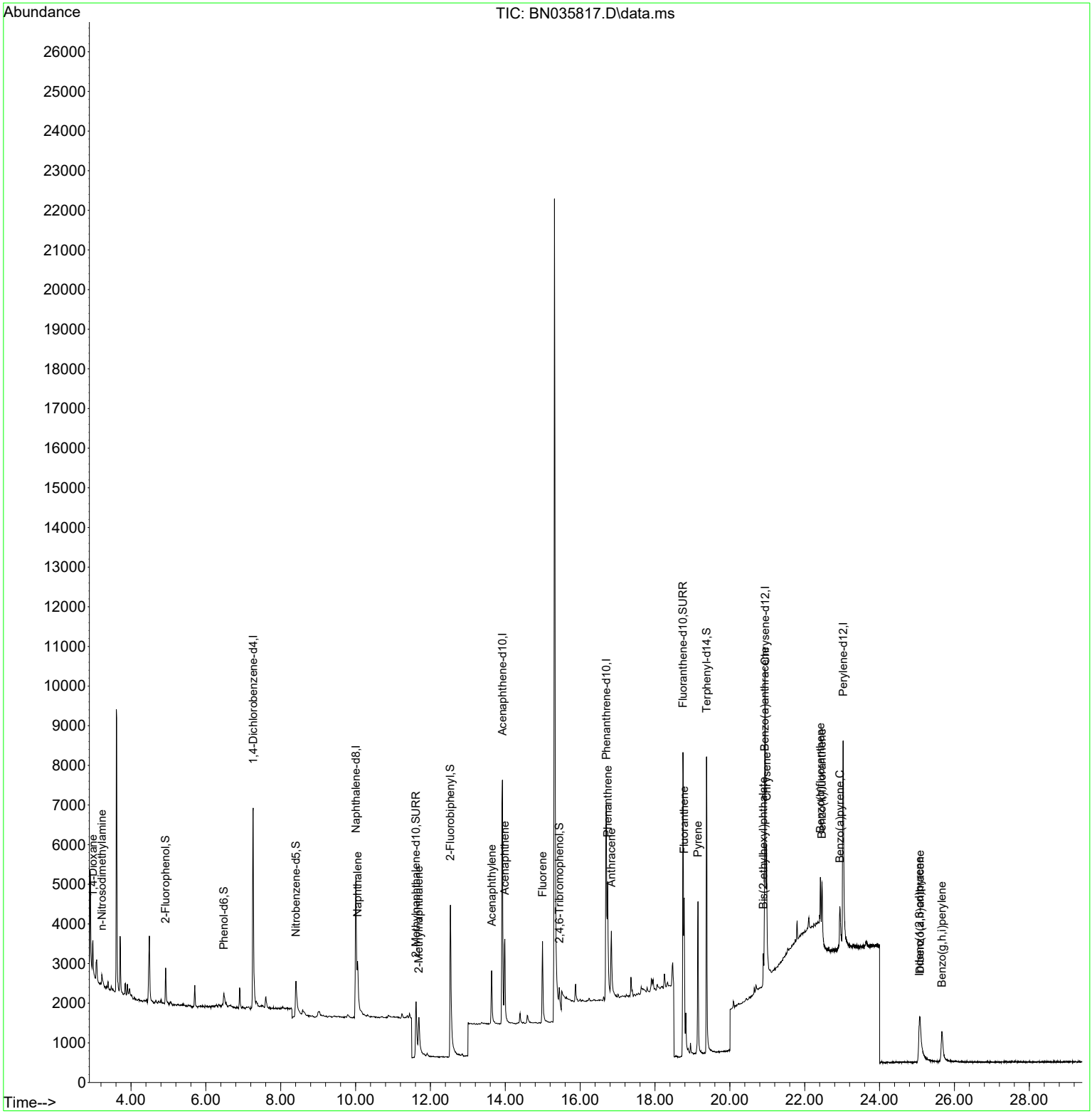
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	2882	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6877	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4352	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9250	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8129	0.400	ng	0.00
35) Perylene-d12	23.027	264	8126	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	816	0.113	ng	-0.01
5) Phenol-d6	6.477	99	466	0.054	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2530	0.602	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	3542	0.329	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	609	0.197	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	5853	0.356	ng	-0.01
27) Fluoranthene-d10	18.748	212	10238	0.390	ng	-0.01
31) Terphenyl-d14	19.379	244	8867	0.553	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	759	0.275	ng	# 85
3) n-Nitrosodimethylamine	3.220	42	64	0.028	ng	# 1
9) Naphthalene	10.052	128	1895	0.104	ng	# 86
12) 2-Methylnaphthalene	11.692	142	1157	0.089	ng	# 90
16) Acenaphthylene	13.636	152	1924	0.105	ng	98
17) Acenaphthene	13.989	154	1204	0.099	ng	99
18) Fluorene	14.994	166	1680	0.097	ng	99
25) Phenanthrene	16.736	178	3237	0.127	ng	100
26) Anthracene	16.835	178	2442	0.106	ng	98
28) Fluoranthene	18.780	202	3731	0.109	ng	99
30) Pyrene	19.147	202	4005	0.133	ng	99
32) Benzo(a)anthracene	20.929	228	2676	0.094	ng	95
33) Chrysene	20.983	228	3497	0.119	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	786	0.070	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.064	276	2211	0.070	ng	99
37) Benzo(b)fluoranthene	22.421	252	3364	0.113	ng	# 65
38) Benzo(k)fluoranthene	22.462	252	2940	0.100	ng	# 60
39) Benzo(a)pyrene	22.942	252	2085	0.085	ng	# 38
40) Dibenzo(a,h)anthracene	25.079	278	1701	0.068	ng	# 44
41) Benzo(g,h,i)perylene	25.667	276	1967	0.075	ng	# 84

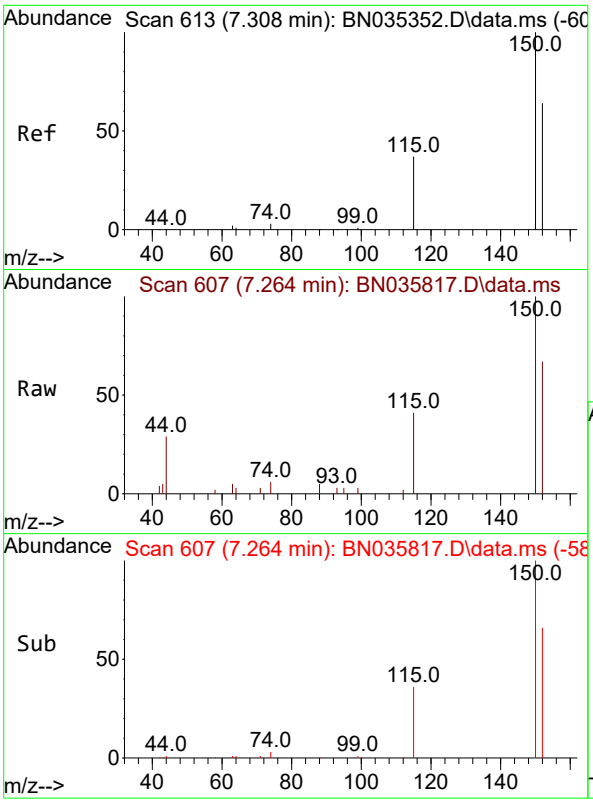
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035817.D
Acq On : 24 Dec 2024 12:33
Operator : RC/JU
Sample : P5376-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Quant Time: Dec 24 23:17:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



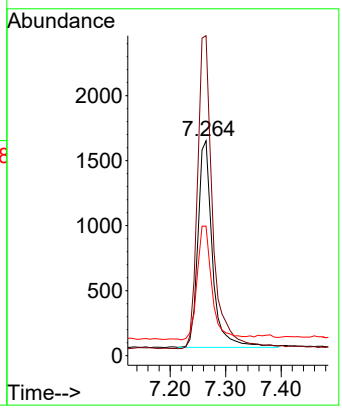


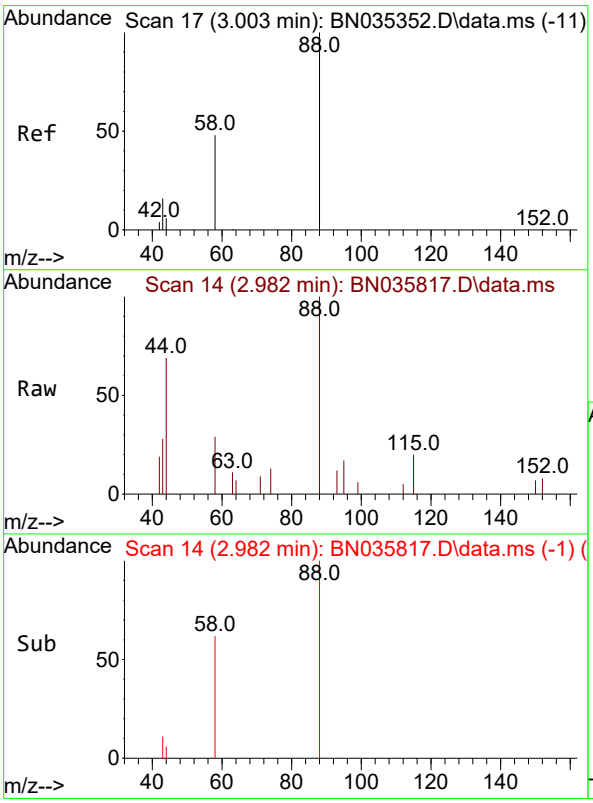
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:152 Resp: 2882

Ion	Ratio	Lower	Upper
152	100		
150	148.9	124.0	186.0
115	60.3	49.6	74.4

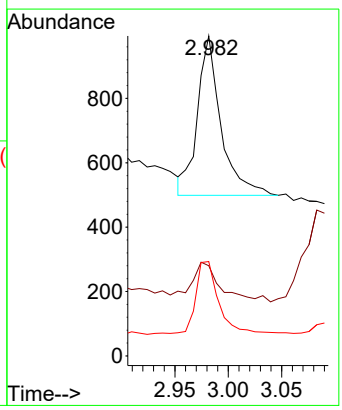


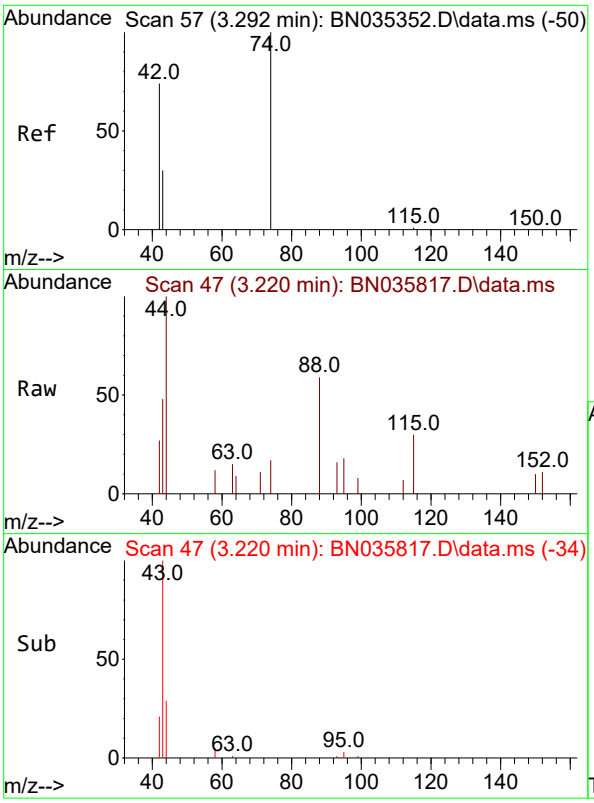


#2
1,4-Dioxane
Concen: 0.275 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion: 88 Resp: 759

Ion	Ratio	Lower	Upper
88	100		
43	31.1	17.2	25.8#
58	45.8	44.5	66.7



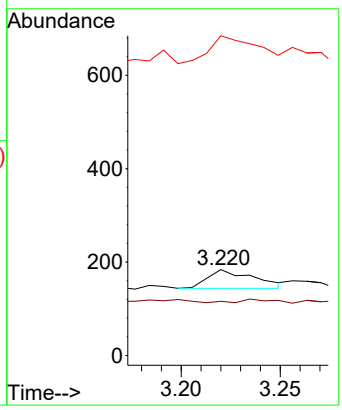


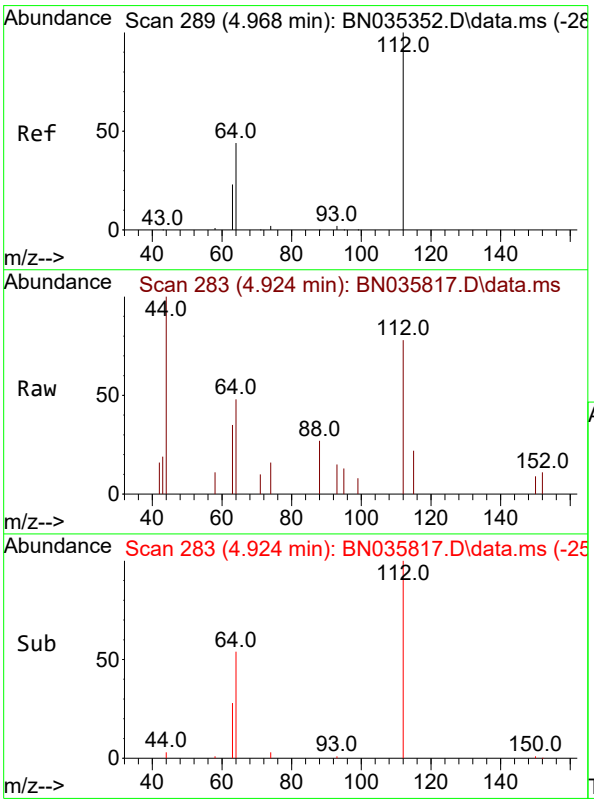
#3
n-Nitrosodimethylamine
Concen: 0.028 ng
RT: 3.220 min Scan# 4
Delta R.T. -0.058 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion: 42 Resp: 64

Ion	Ratio	Lower	Upper
42	100		
74	17.2	124.9	187.3#
44	159.4	2.2	3.4#

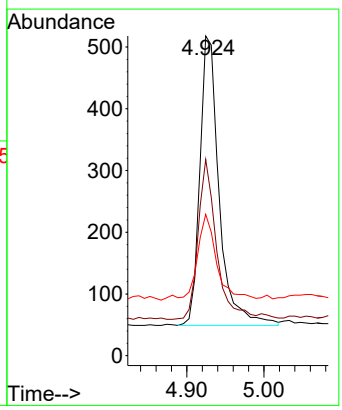


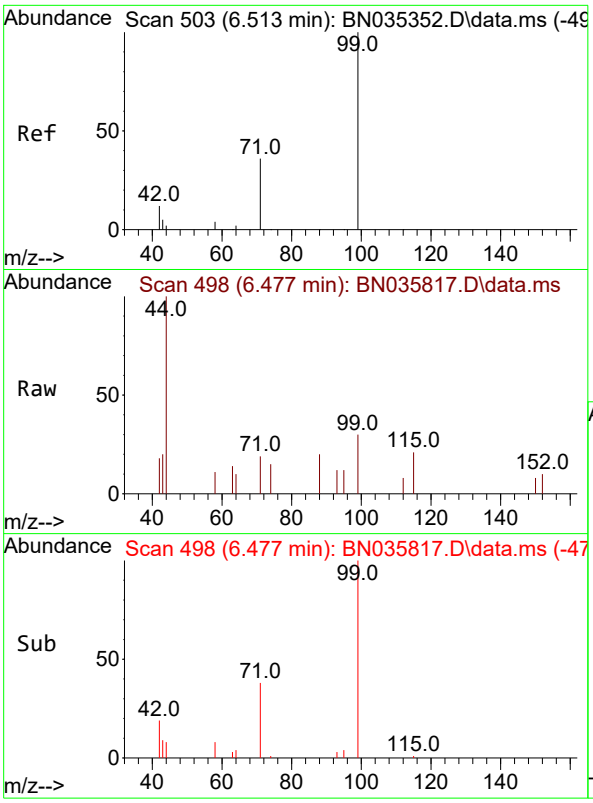


#4
2-Fluorophenol
Concen: 0.113 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:112 Resp: 816

Ion	Ratio	Lower	Upper
112	100		
64	52.1	39.8	59.8
63	30.0	21.0	31.6



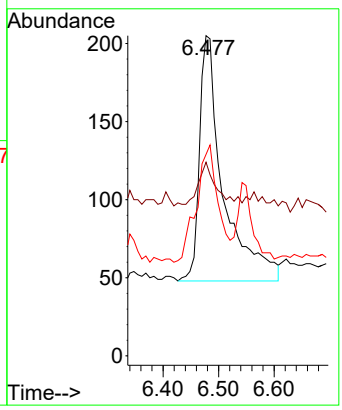


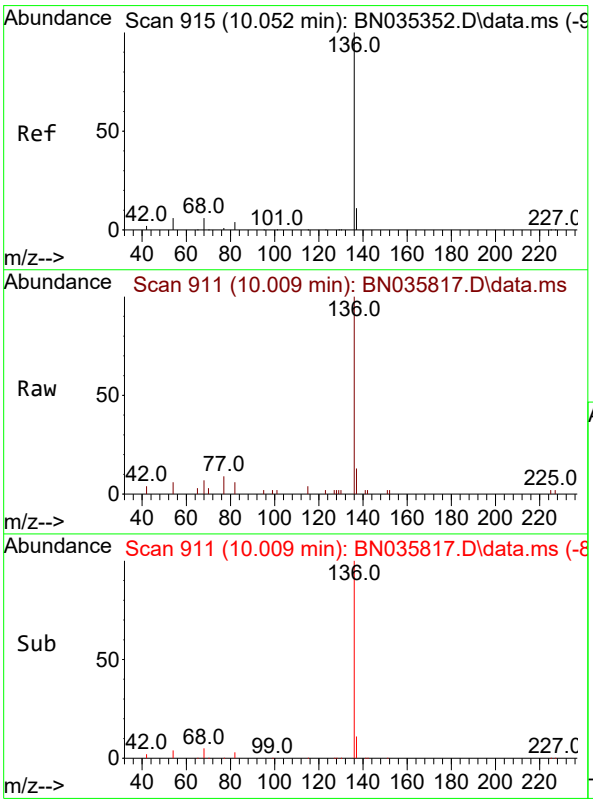
#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion: 99 Resp: 466

Ion	Ratio	Lower	Upper
99	100		
42	12.9	11.4	17.2
71	43.6	29.3	43.9

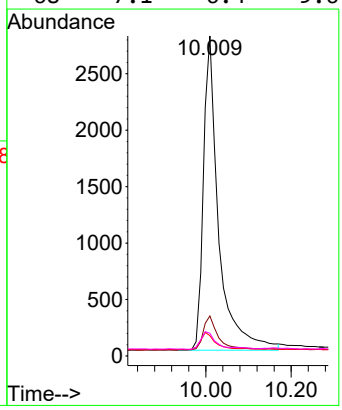


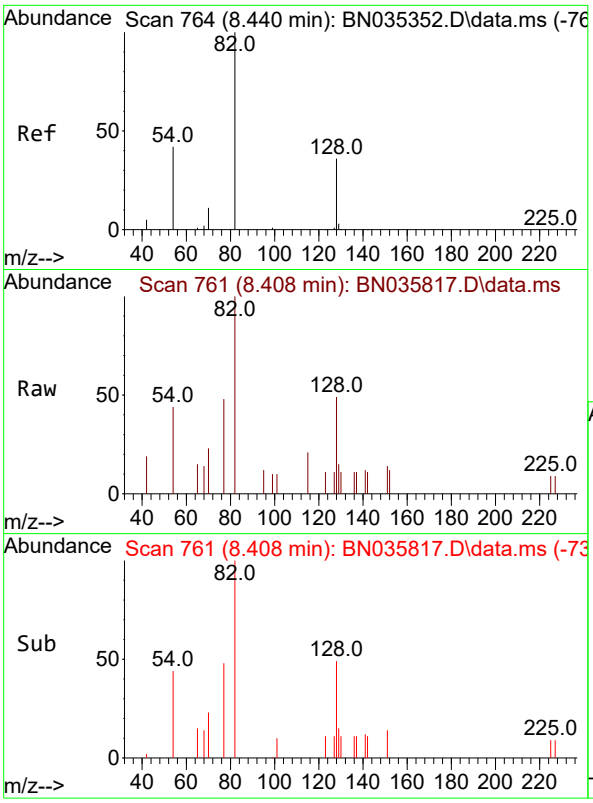


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:136 Resp: 6877

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.3	6.1	9.1
68	7.1	6.4	9.6



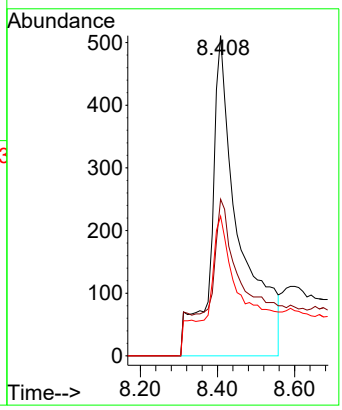


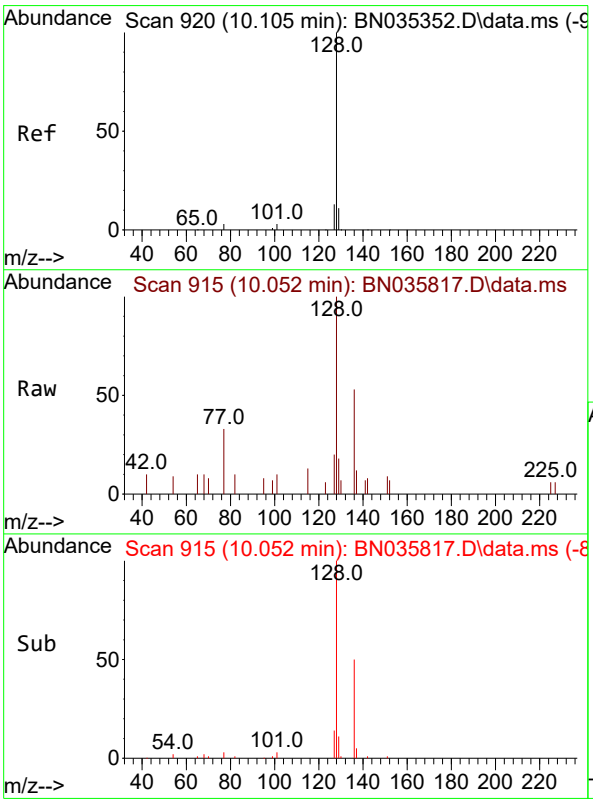
#8
Nitrobenzene-d5
Concen: 0.602 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion: 82 Resp: 2530

Ion	Ratio	Lower	Upper
82	100		
128	48.9	33.4	50.0
54	43.6	36.7	55.1

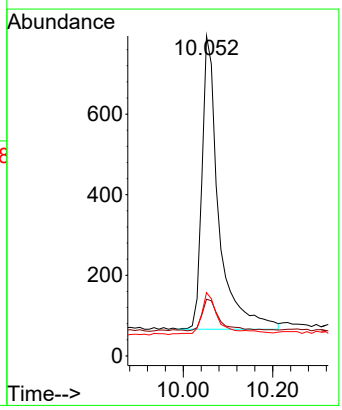


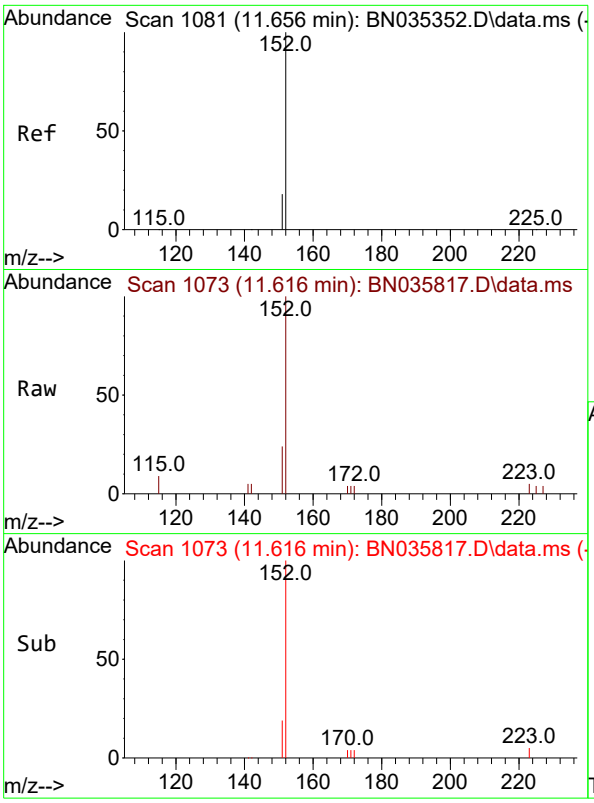


#9
Naphthalene
Concen: 0.104 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:128 Resp: 1895

Ion	Ratio	Lower	Upper
128	100		
129	17.8	9.8	14.6#
127	19.8	11.4	17.2#



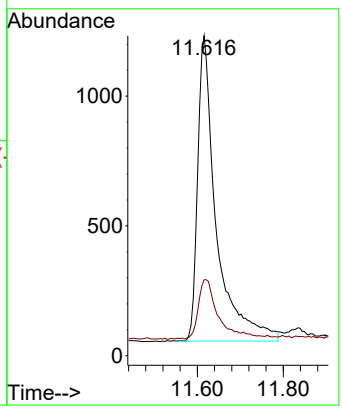


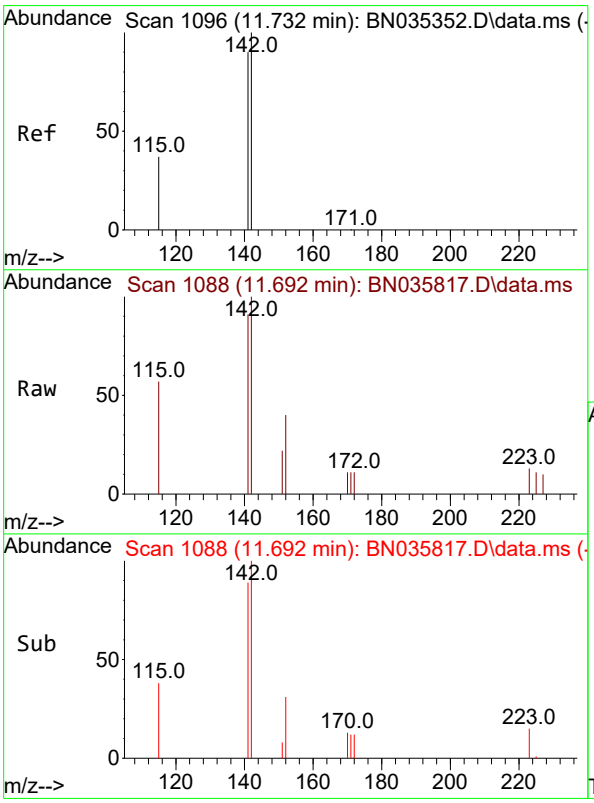
#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:152 Resp: 3542

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

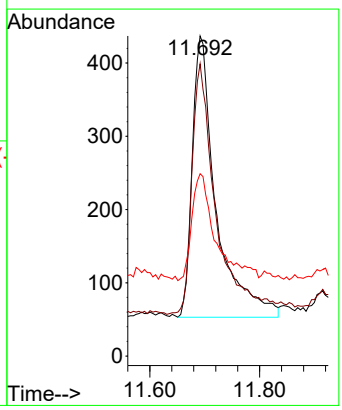


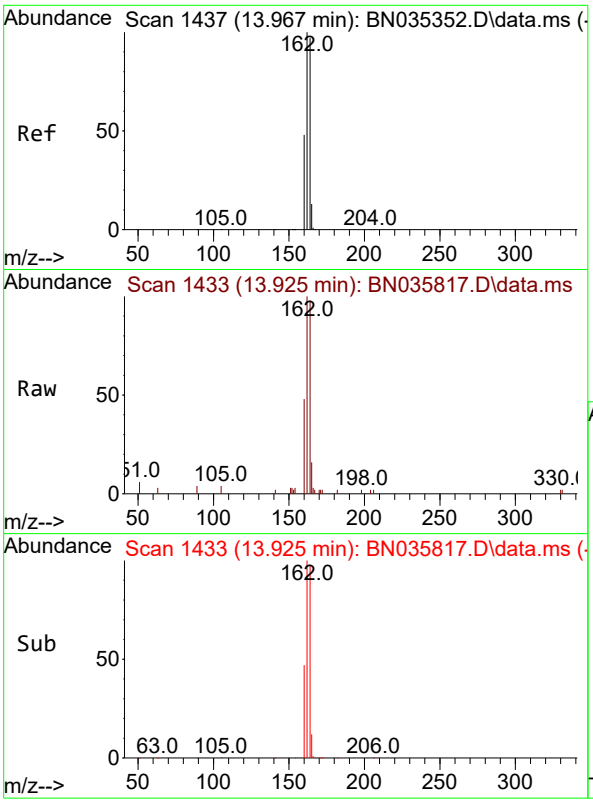


#12
2-Methylnaphthalene
Concen: 0.089 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:142 Resp: 1157

Ion	Ratio	Lower	Upper
142	100		
141	91.3	72.2	108.4
115	57.0	31.4	47.0#



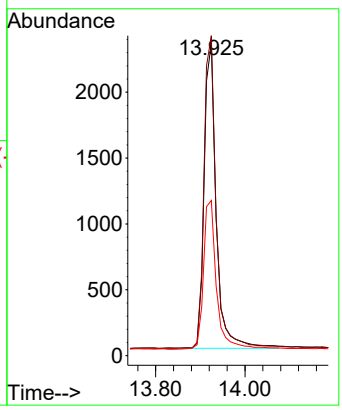


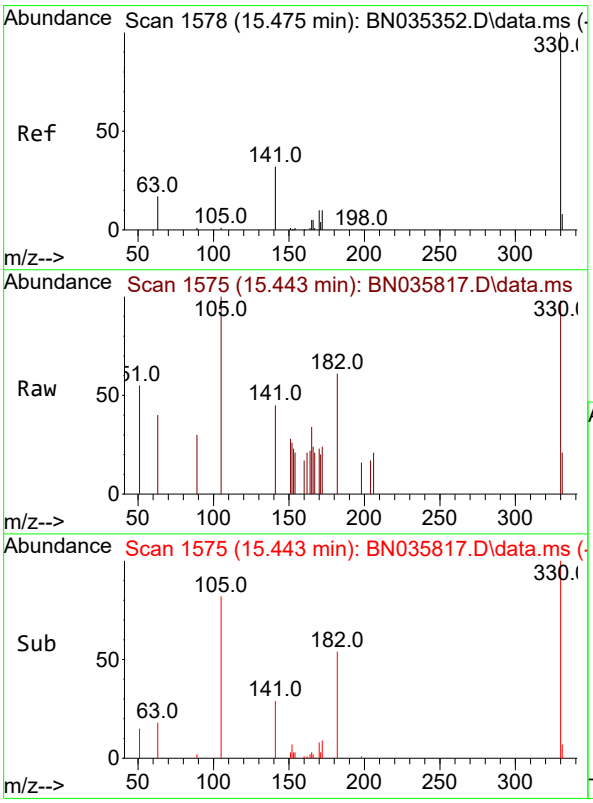
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:164 Resp: 4352

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.6	40.1	60.1

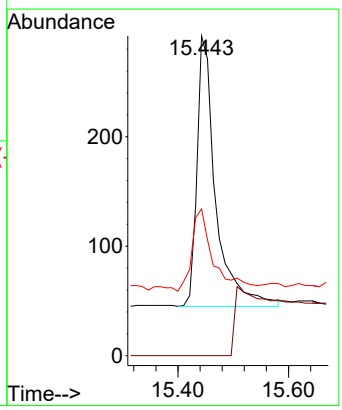


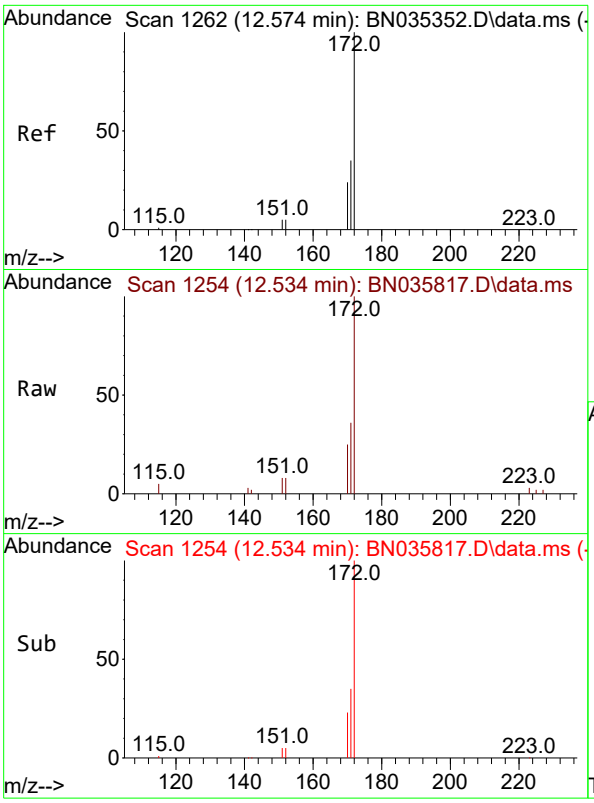


#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:330 Resp: 609

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.3	26.6	40.0



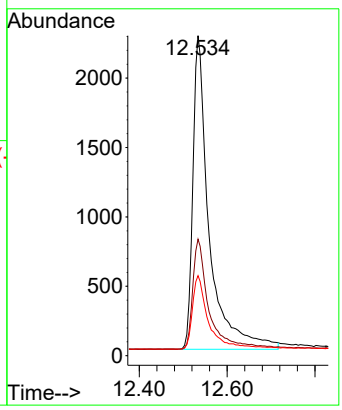


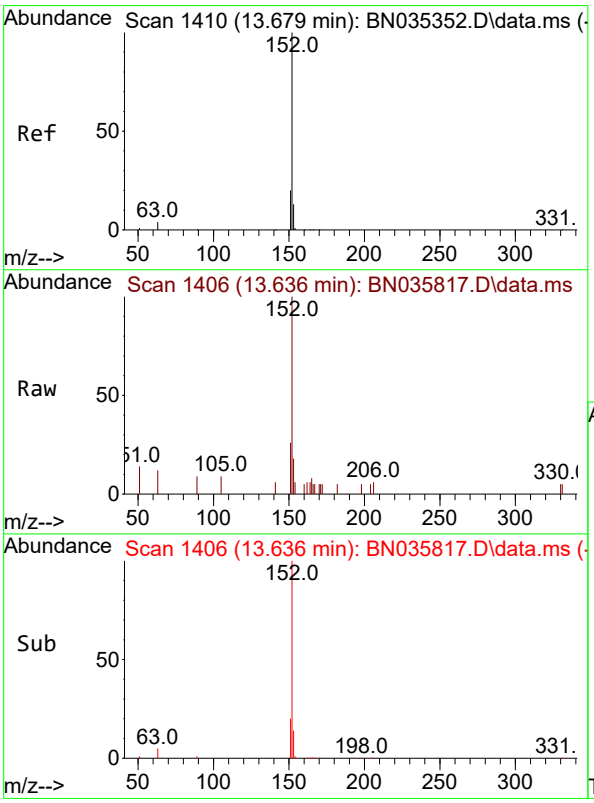
#15
2-Fluorobiphenyl
Concen: 0.356 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:172 Resp: 5853

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	25.0	19.8	29.8

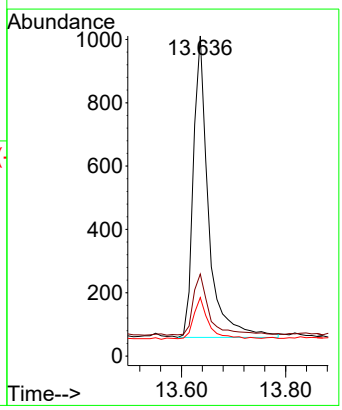


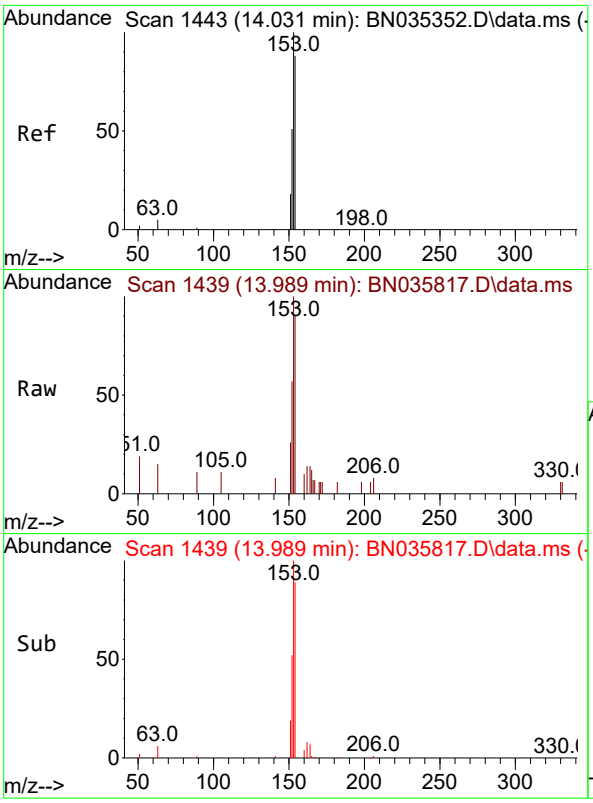


#16
Acenaphthylene
Concen: 0.105 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:152 Resp: 1924

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.2	24.2
153	14.4	10.4	15.6



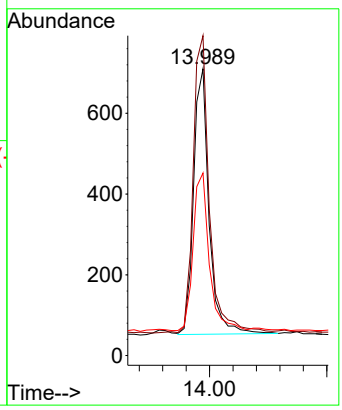


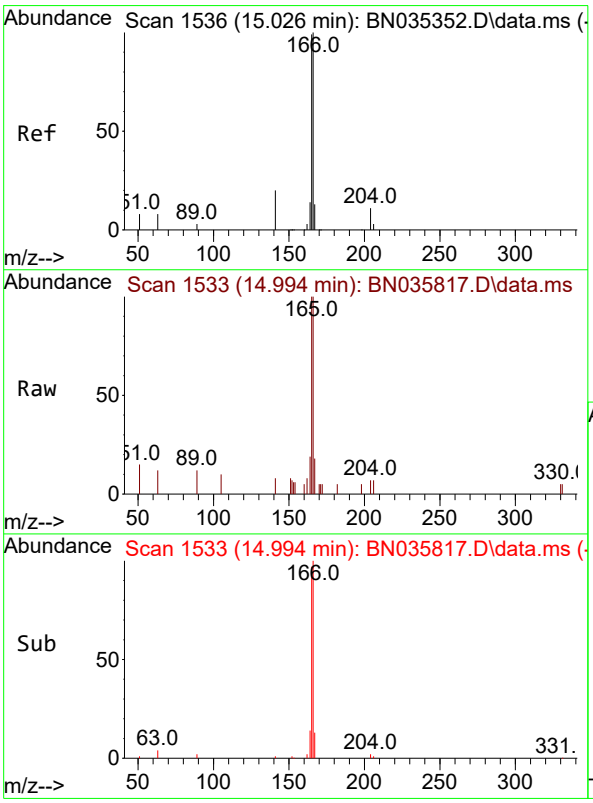
#17
Acenaphthene
Concen: 0.099 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:154 Resp: 1204

Ion	Ratio	Lower	Upper
154	100		
153	117.5	92.6	139.0
152	62.0	49.0	73.6

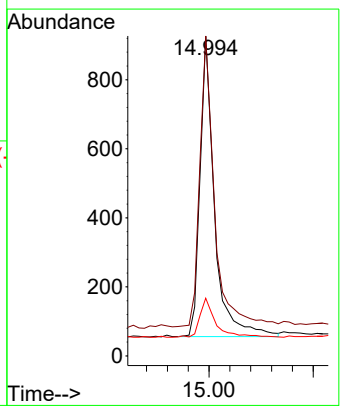


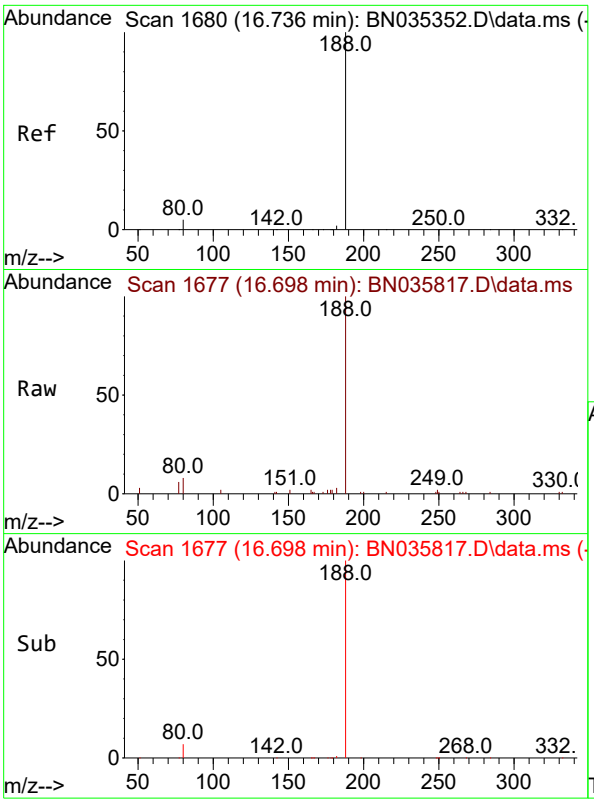


#18
Fluorene
Concen: 0.097 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:166 Resp: 1680

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.7	119.5
167	14.3	10.8	16.2



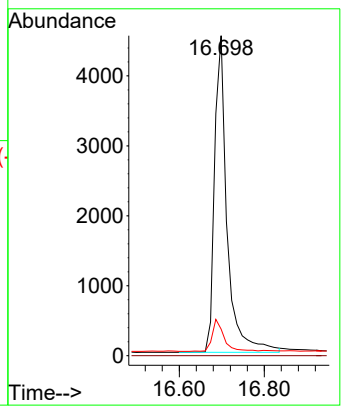


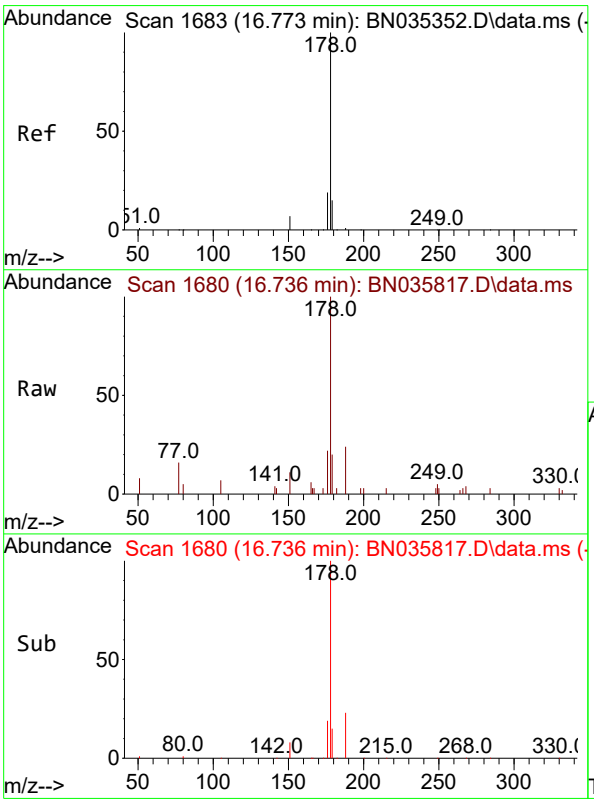
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:188 Resp: 9250

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	4.6	6.8#

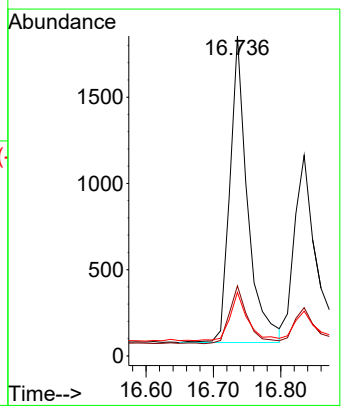


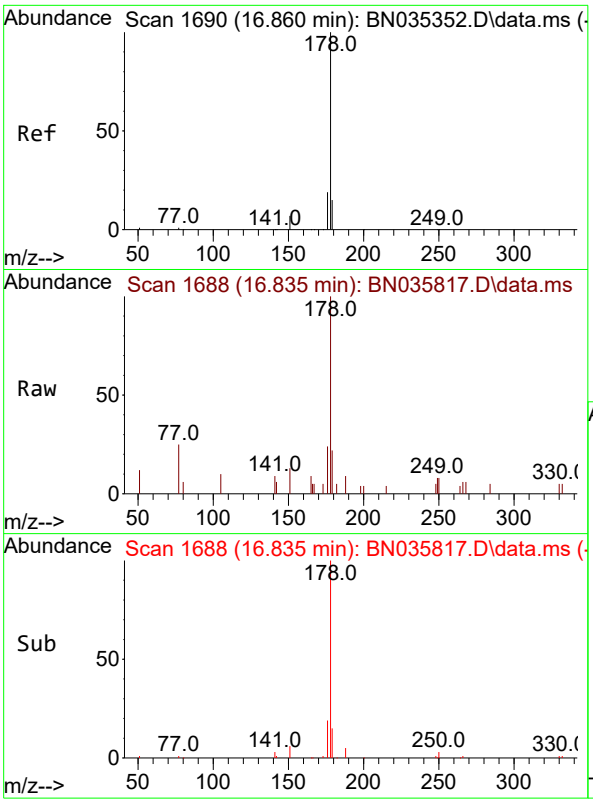


#25
Phenanthrene
Concen: 0.127 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:178 Resp: 3237

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.6	12.3	18.5



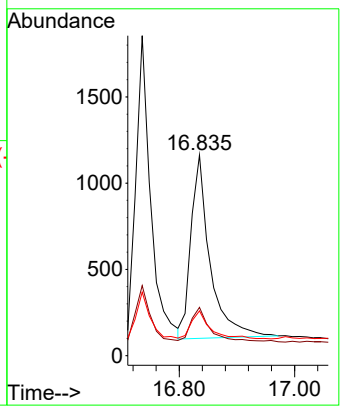


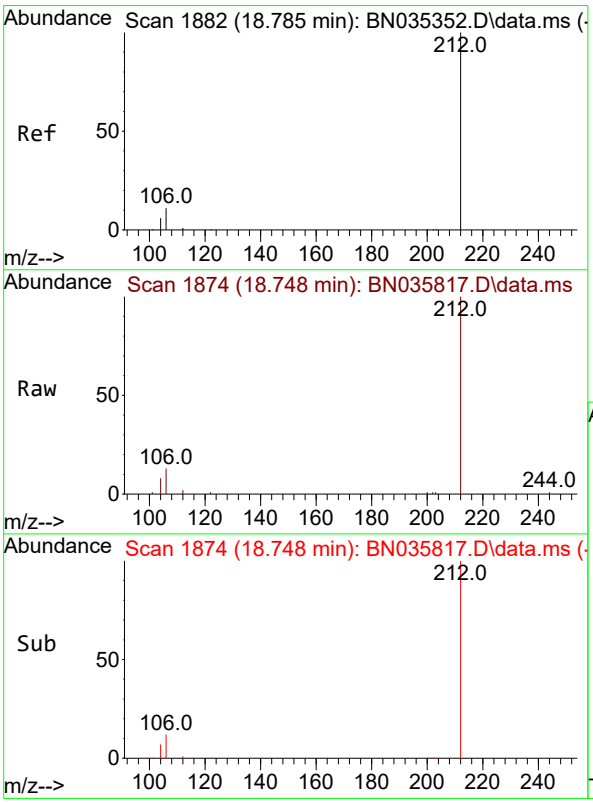
#26
Anthracene
Concen: 0.106 ng
RT: 16.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:178 Resp: 2442

Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.0	22.6
179	16.1	12.6	18.8

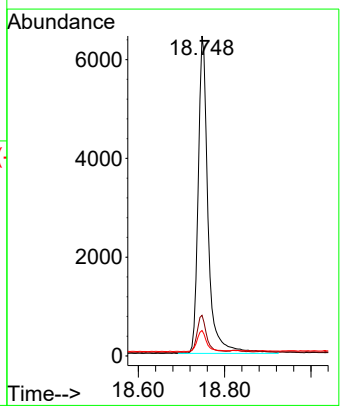


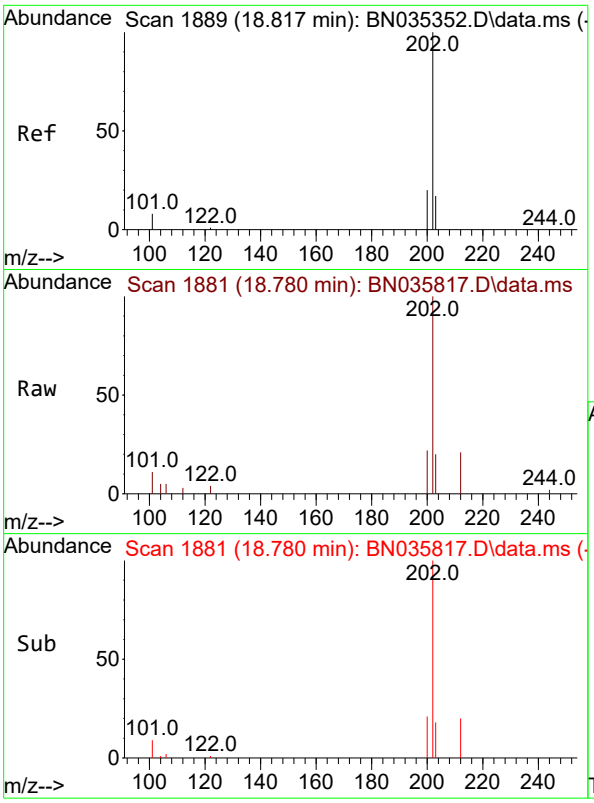


#27
Fluoranthene-d10
Concen: 0.390 ng
RT: 18.748 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:212 Resp: 10238

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9



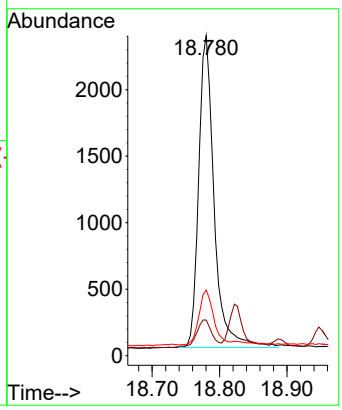


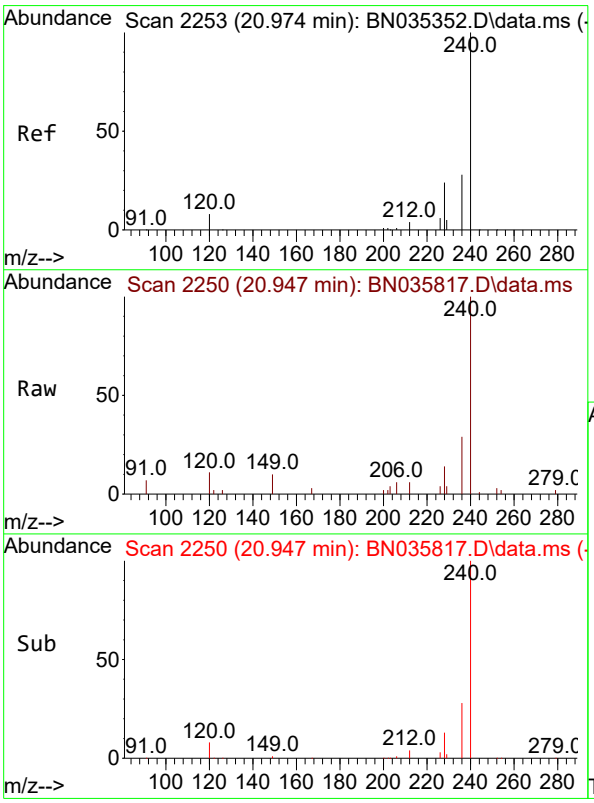
#28
Fluoranthene
Concen: 0.109 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:202 Resp: 3731

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	16.6	13.7	20.5

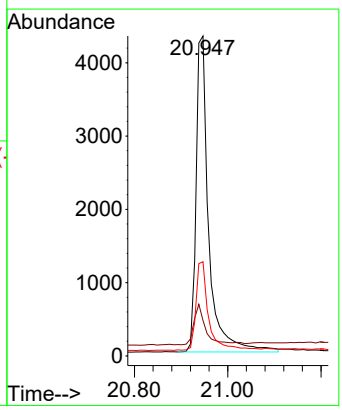


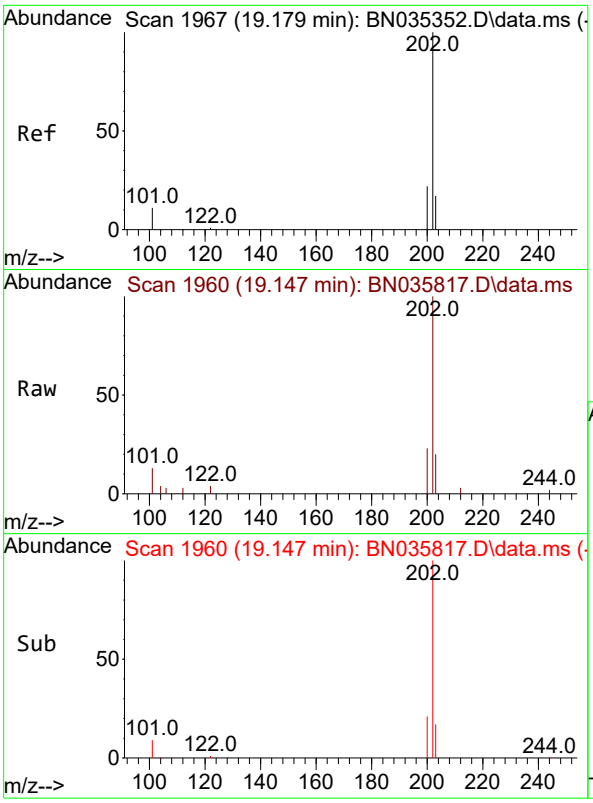


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:240 Resp: 8129

Ion	Ratio	Lower	Upper
240	100		
120	11.1	7.9	11.9
236	29.4	22.9	34.3



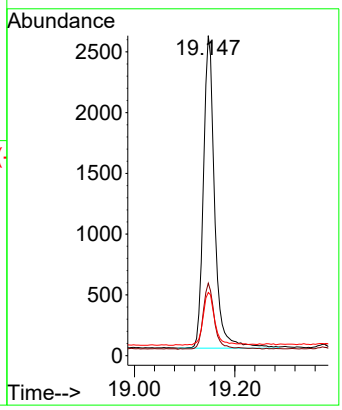


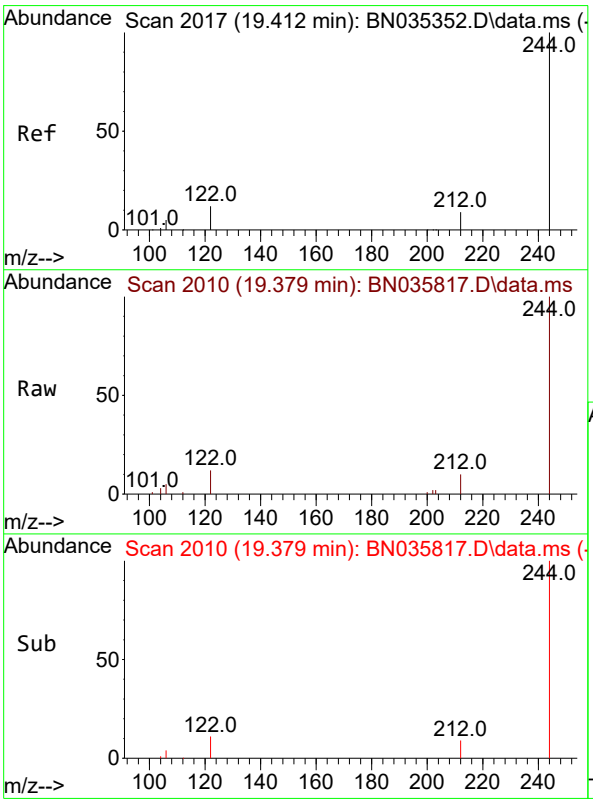
#30
Pyrene
Concen: 0.133 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:202 Resp: 4005

Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.4
203	17.4	14.3	21.5

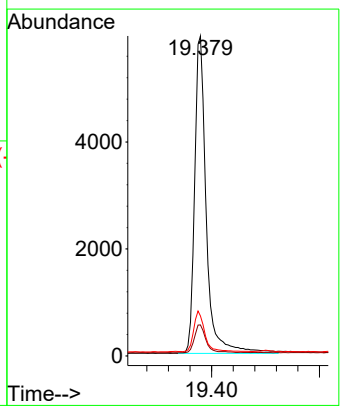


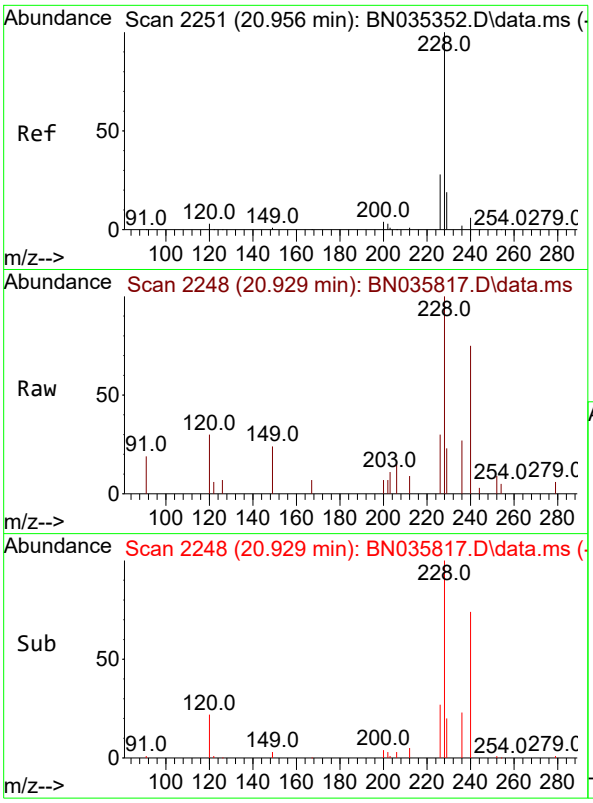


#31
Terphenyl-d14
Concen: 0.553 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:244 Resp: 8867

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.5	10.3	15.5



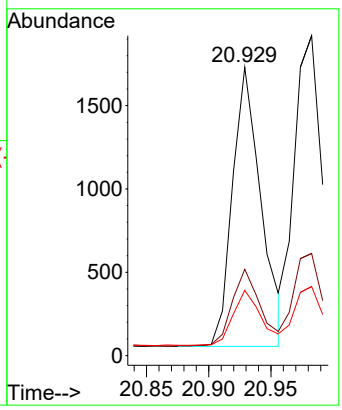


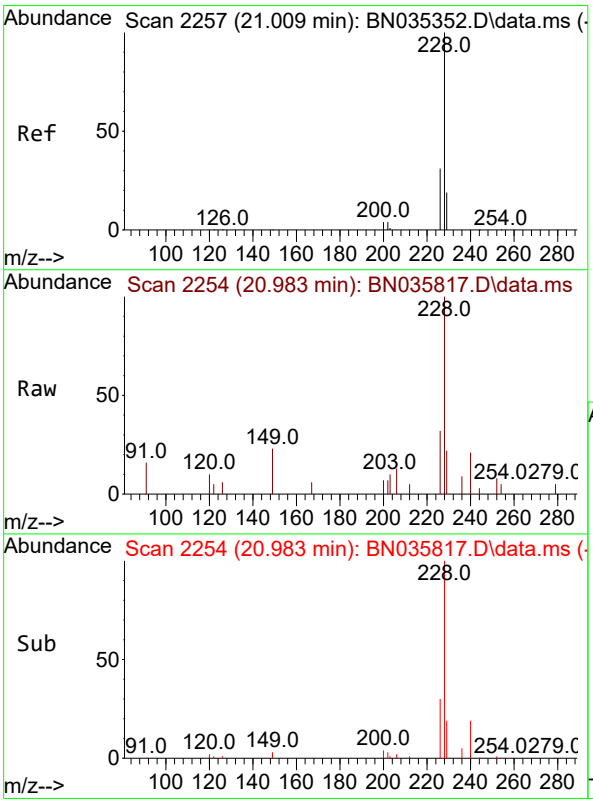
#32
Benzo(a)anthracene
Concen: 0.094 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:228 Resp: 2676

Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.5	33.7
229	22.6	15.8	23.8

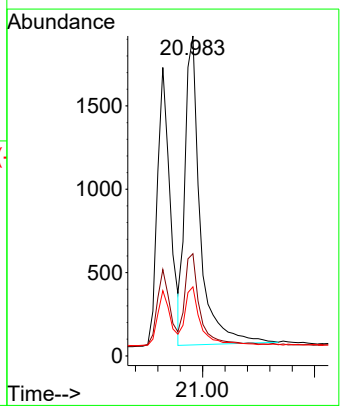


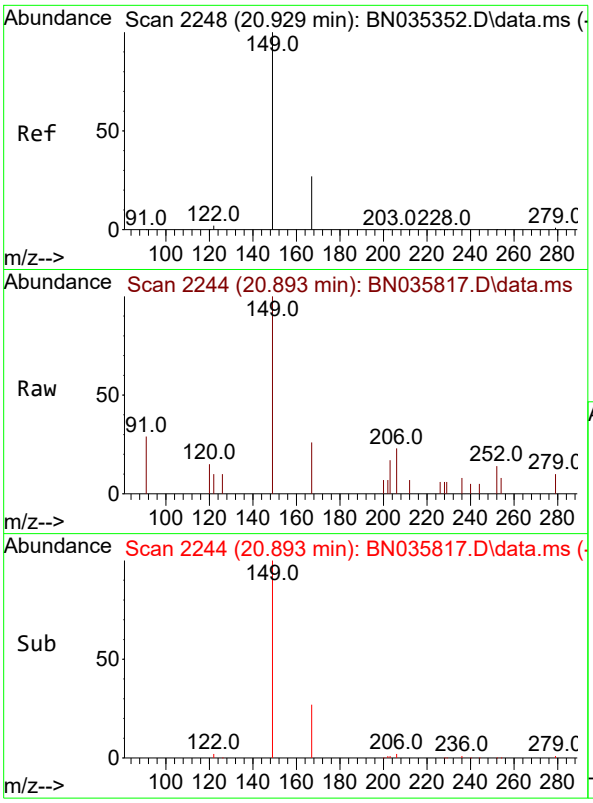


#33
Chrysene
Concen: 0.119 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:228 Resp: 3497

Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.6	37.0
229	21.6	15.9	23.9



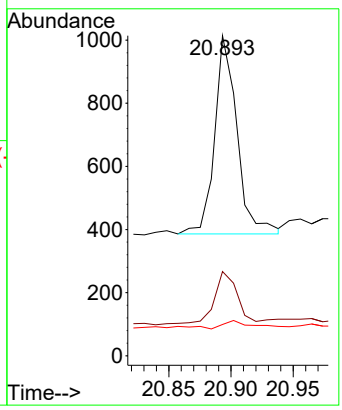


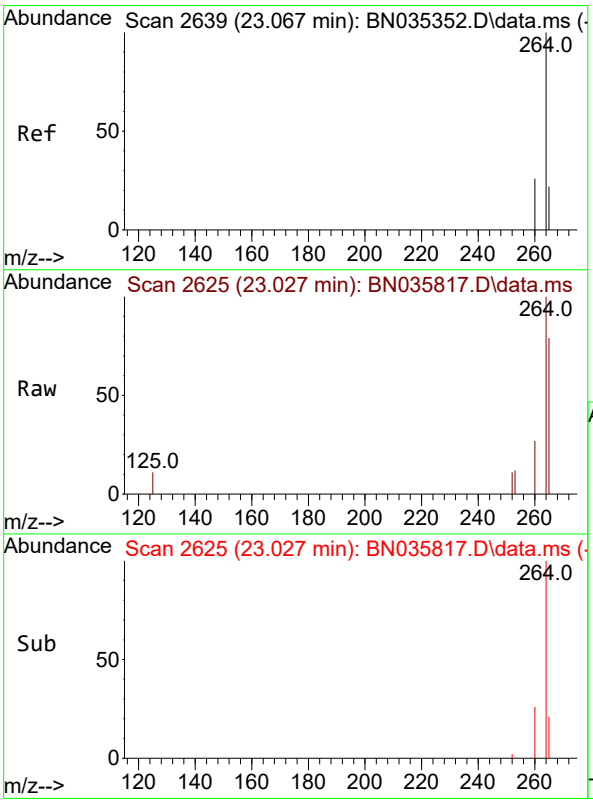
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.070 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:149 Resp: 786

Ion	Ratio	Lower	Upper
149	100		
167	27.0	22.2	33.4
279	6.1	2.7	4.1#

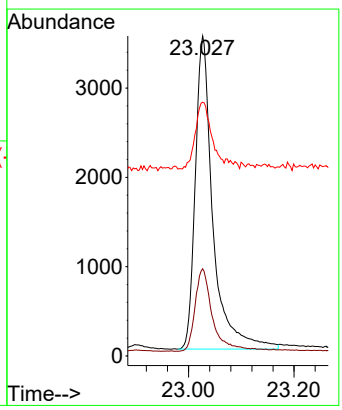


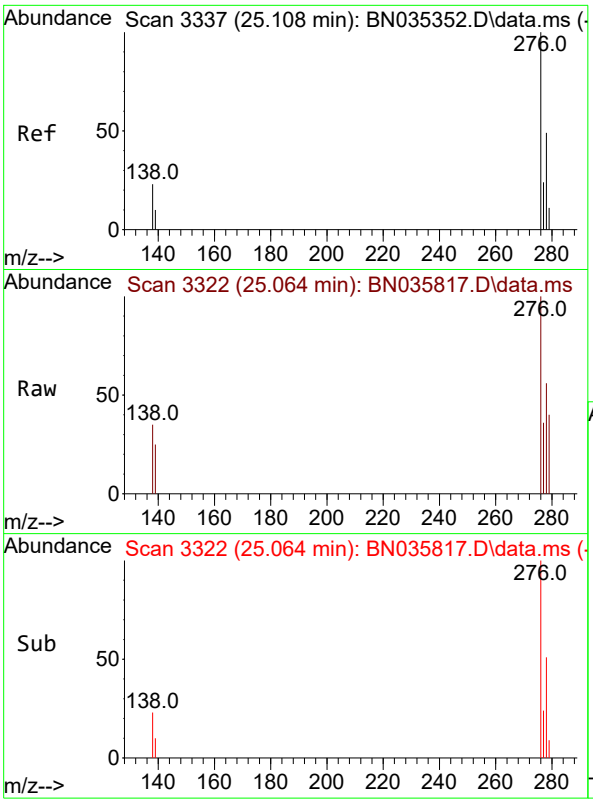


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.027 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:264 Resp: 8126

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	79.3	40.2	60.4#



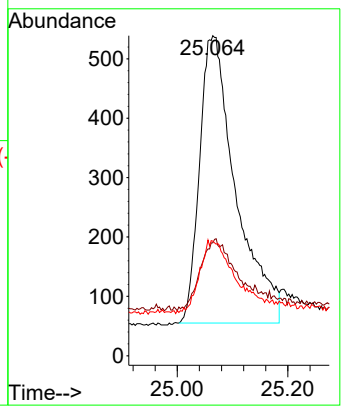


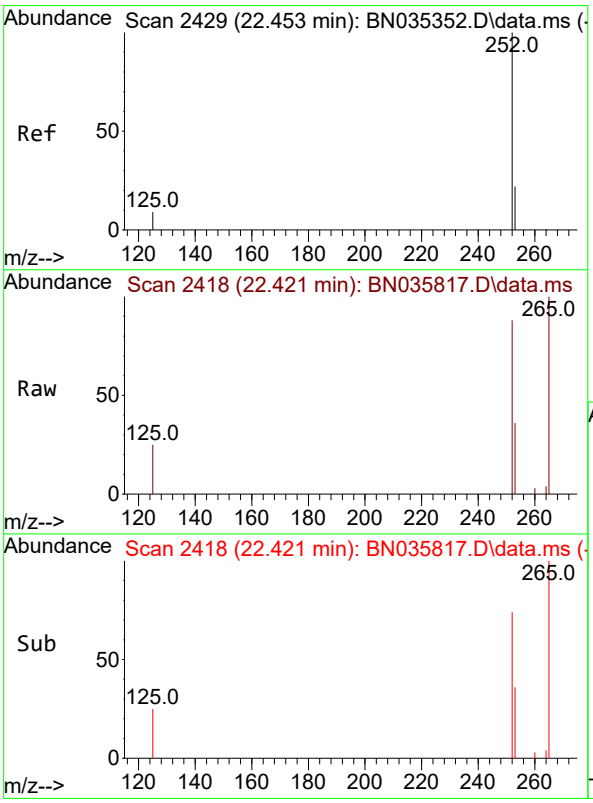
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.070 ng
RT: 25.064 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:276 Resp: 2211

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	25.1	19.8	29.6

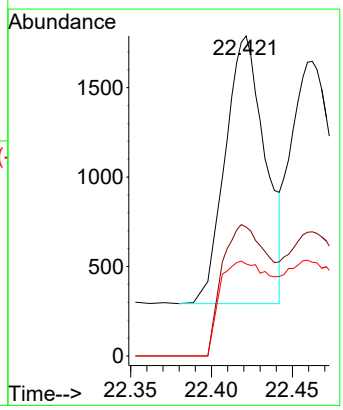


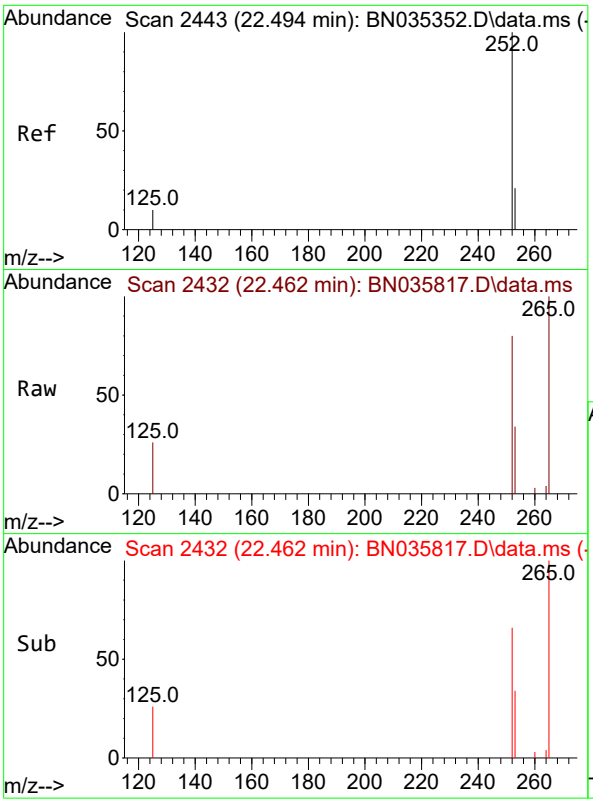


#37
Benzo(b)fluoranthene
Concen: 0.113 ng
RT: 22.421 min Scan# 2418
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 3364

Ion	Ratio	Lower	Upper
252	100		
253	40.3	19.6	29.4#
125	28.7	9.6	14.4#



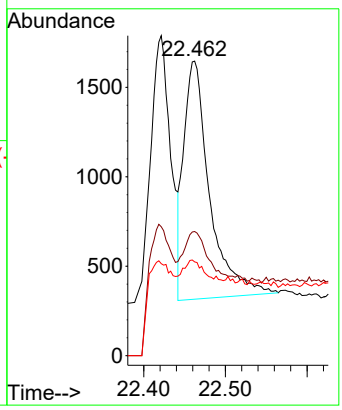


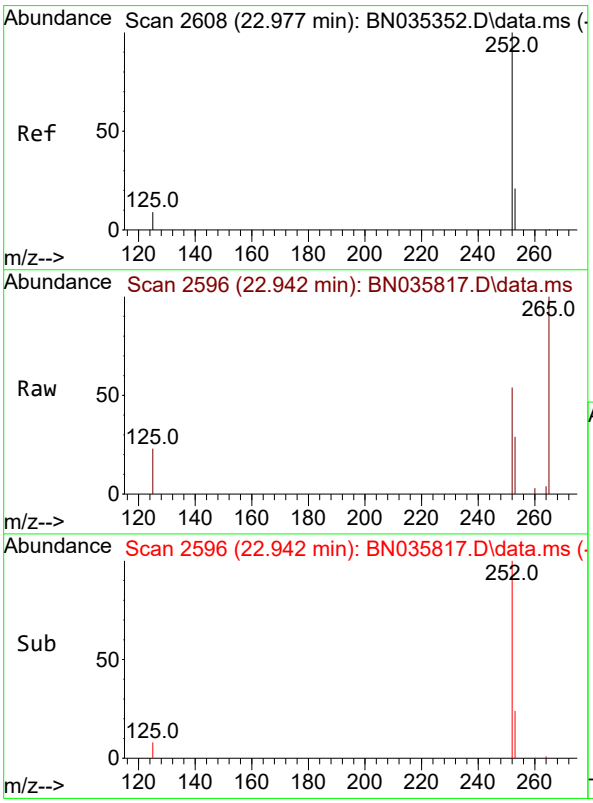
#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:252 Resp: 2940

Ion	Ratio	Lower	Upper
252	100		
253	42.1	19.5	29.3#
125	31.8	10.2	15.4#

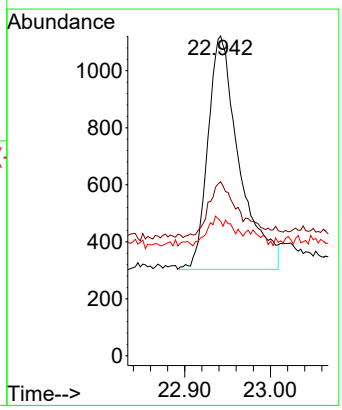


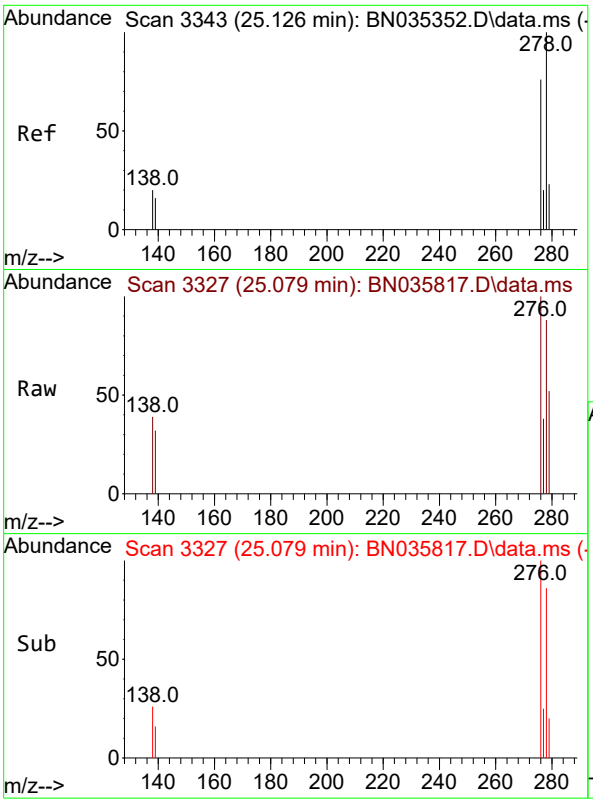


#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.942 min Scan# 2596
Delta R.T. -0.009 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:252 Resp: 2085

Ion	Ratio	Lower	Upper
252	100		
253	54.5	20.2	30.4#
125	42.1	10.9	16.3#



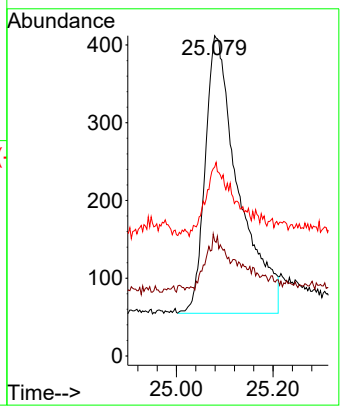


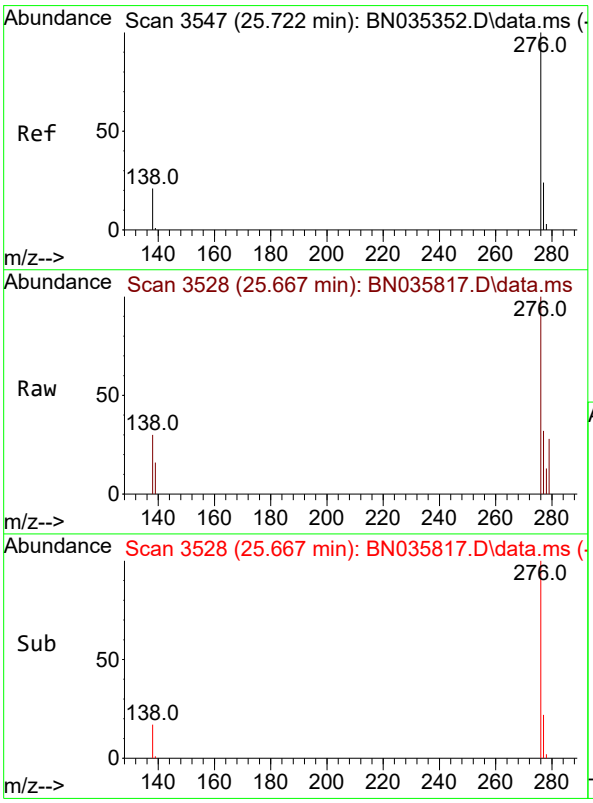
#40
Dibenzo(a,h)anthracene
Concen: 0.068 ng
RT: 25.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Instrument :
BNA_N
ClientSampleId :
TT149S1-20241218

Tgt Ion:278 Resp: 1701

Ion	Ratio	Lower	Upper
278	100		
139	35.9	14.2	21.4#
279	59.0	20.5	30.7#

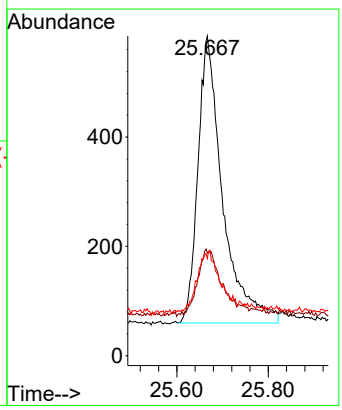




#41
Benzo(g,h,i)perylene
Concen: 0.075 ng
RT: 25.667 min Scan# 3528
Delta R.T. -0.012 min
Lab File: BN035817.D
Acq: 24 Dec 2024 12:33

Tgt Ion:276 Resp: 1967

Ion	Ratio	Lower	Upper
276	100		
277	32.1	19.9	29.9#
138	30.4	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Quant Time: Dec 24 23:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3045	0.400	ng		-0.01
7) Naphthalene-d8	10.009	136	7417	0.400	ng		#-0.01
13) Acenaphthene-d10	13.925	164	4769	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	10054	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8730	0.400	ng		0.00
35) Perylene-d12	23.026	264	8948	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	828	0.109	ng		-0.01
5) Phenol-d6	6.477	99	491	0.054	ng		-0.01
8) Nitrobenzene-d5	8.408	82	1989	0.439	ng		0.00
11) 2-Methylnaphthalene-d10	11.611	152	4011	0.346	ng		-0.01
14) 2,4,6-Tribromophenol	15.443	330	736	0.217	ng		-0.01
15) 2-Fluorobiphenyl	12.534	172	6868	0.381	ng		-0.01
27) Fluoranthene-d10	18.747	212	11709	0.411	ng		-0.01
31) Terphenyl-d14	19.379	244	9932	0.577	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	761	0.261	ng		89
9) Naphthalene	10.052	128	2140	0.109	ng	#	90
12) 2-Methylnaphthalene	11.687	142	1347	0.096	ng	#	92
16) Acenaphthylene	13.636	152	2222	0.111	ng		98
17) Acenaphthene	13.978	154	1464	0.110	ng		99
18) Fluorene	14.994	166	2023	0.106	ng		99
24) Pentachlorophenol	16.363	266	64	0.021	ng	#	69
25) Phenanthrene	16.736	178	3999	0.145	ng		98
26) Anthracene	16.835	178	3041	0.122	ng		99
28) Fluoranthene	18.780	202	4605	0.124	ng		98
30) Pyrene	19.147	202	4782	0.148	ng		99
32) Benzo(a)anthracene	20.929	228	3217	0.105	ng		95
33) Chrysene	20.983	228	4153	0.132	ng		98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1111	0.092	ng		99
36) Indeno(1,2,3-cd)pyrene	25.064	276	2885	0.082	ng		97
37) Benzo(b)fluoranthene	22.418	252	5898	0.180	ng	#	67
38) Benzo(k)fluoranthene	22.459	252	3643	0.113	ng	#	65
39) Benzo(a)pyrene	22.942	252	2686	0.100	ng	#	49
40) Dibenzo(a,h)anthracene	25.085	278	2103	0.076	ng	#	58
41) Benzo(g,h,i)perylene	25.667	276	2516	0.087	ng	#	83

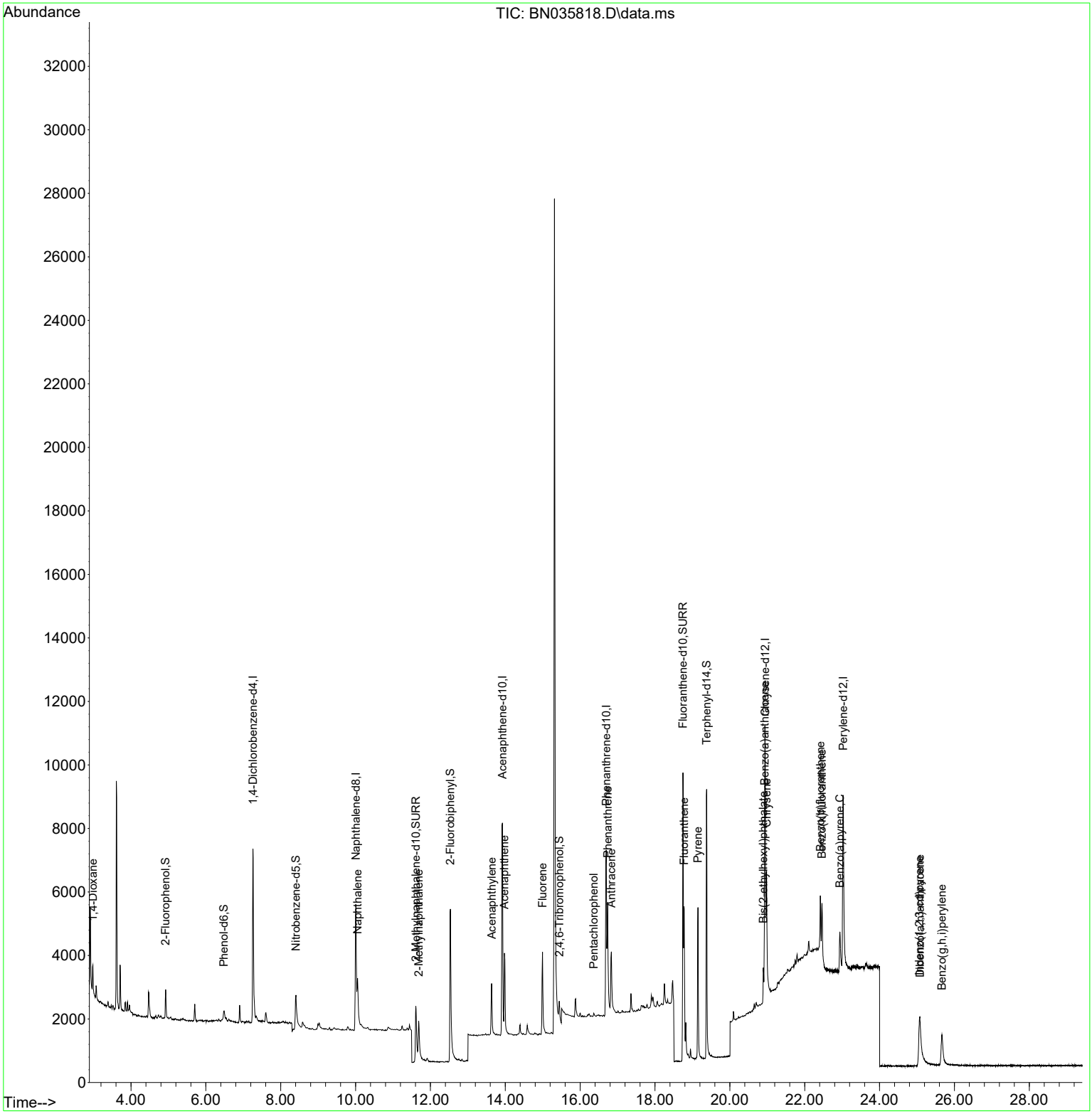
(#) = qualifier out of range (m) = manual integration (+) = signals summed

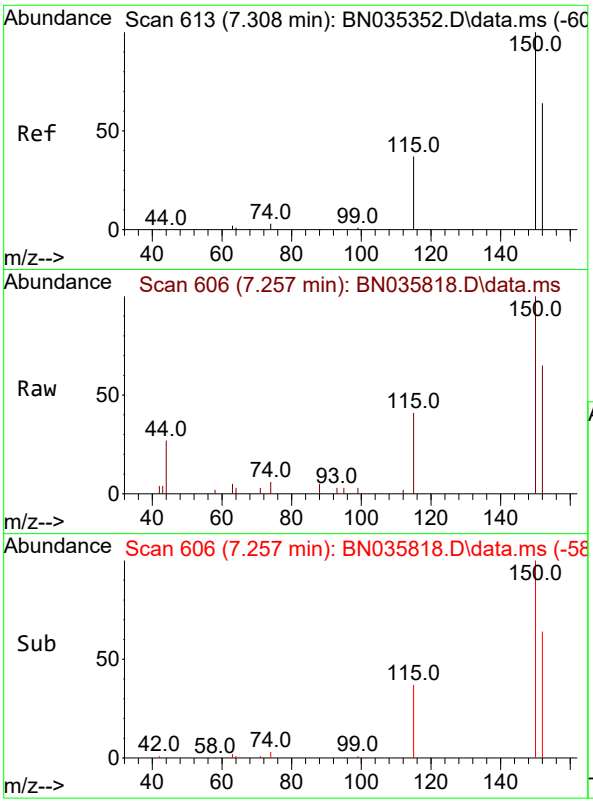
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035818.D
Acq On : 24 Dec 2024 13:08
Operator : RC/JU
Sample : P5376-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Quant Time: Dec 24 23:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



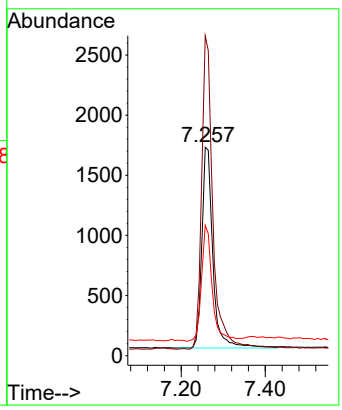


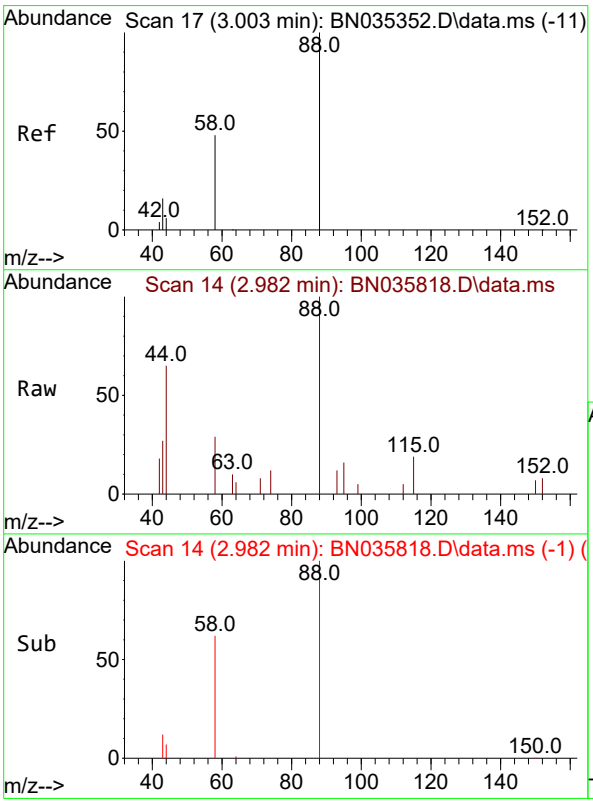
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:152 Resp: 3045

Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.0	186.0
115	62.5	49.6	74.4

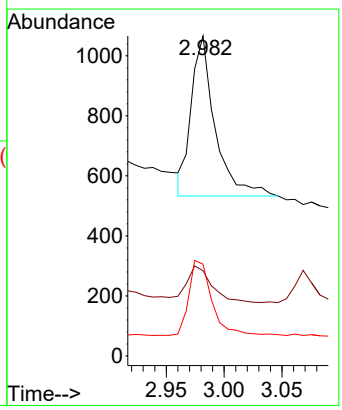


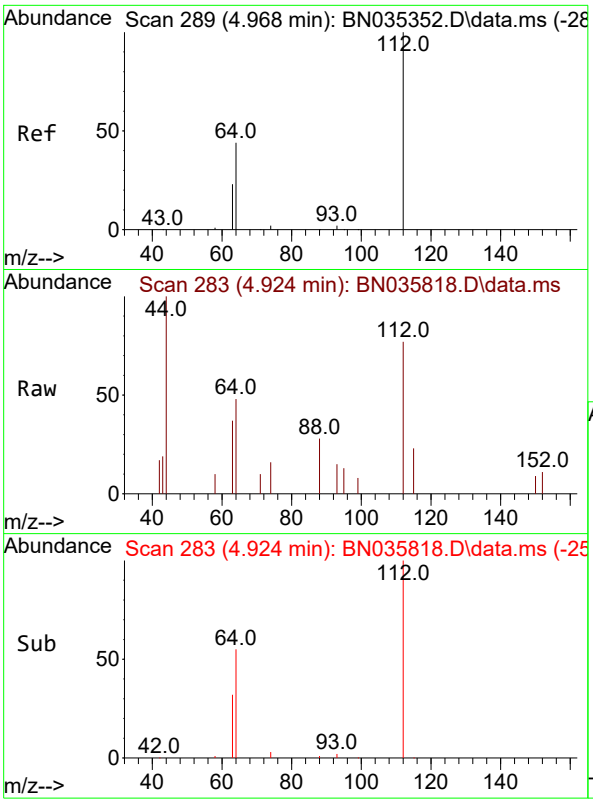


#2
1,4-Dioxane
Concen: 0.261 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 88 Resp: 761

Ion	Ratio	Lower	Upper
88	100		
43	24.3	17.2	25.8
58	45.9	44.5	66.7



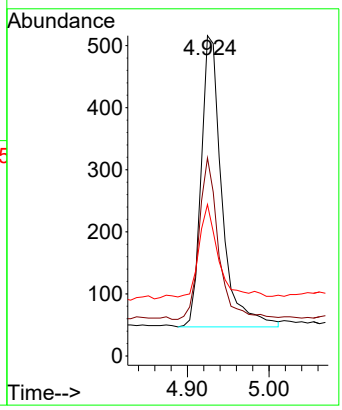


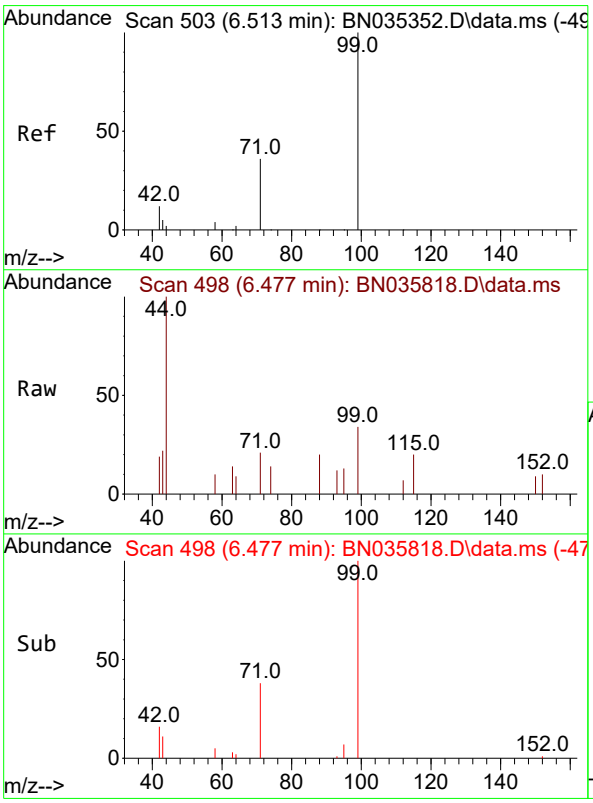
#4
2-Fluorophenol
Concen: 0.109 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:112 Resp: 828

Ion	Ratio	Lower	Upper
112	100		
64	52.1	39.8	59.8
63	31.0	21.0	31.6

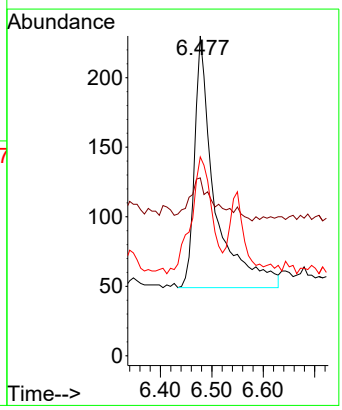


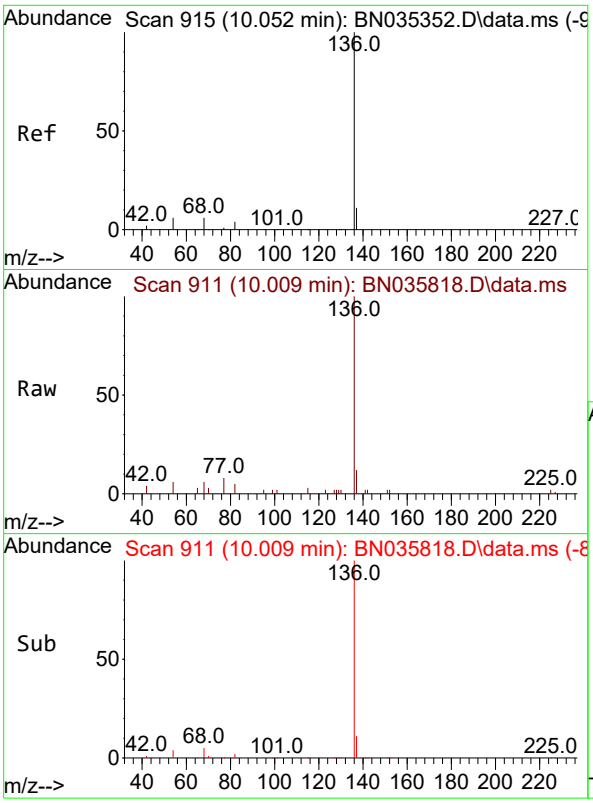


#5
Phenol-d6
Concen: 0.054 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 99 Resp: 491

Ion	Ratio	Lower	Upper
99	100		
42	23.8	11.4	17.2#
71	47.9	29.3	43.9#



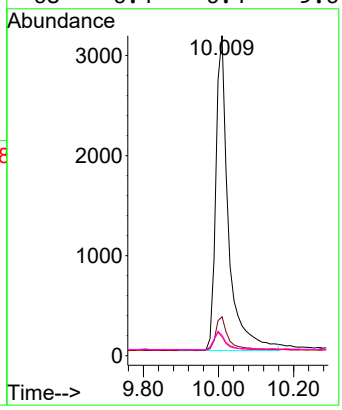


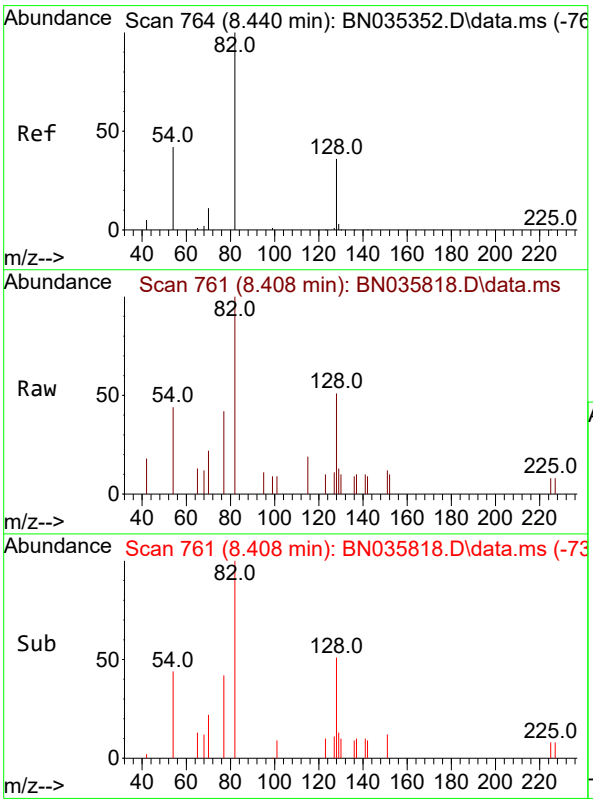
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:136 Resp: 7417

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	5.9	6.1	9.1#
68	6.4	6.4	9.6

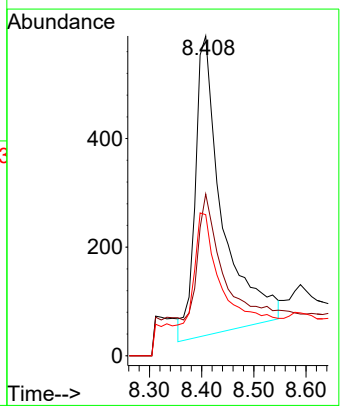


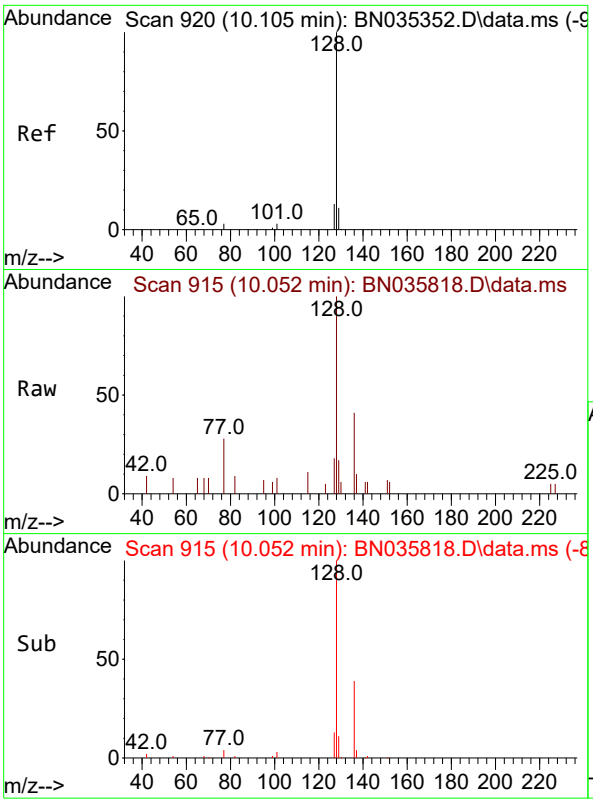


#8
Nitrobenzene-d5
Concen: 0.439 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion: 82 Resp: 1989

Ion	Ratio	Lower	Upper
82	100		
128	50.6	33.4	50.0#
54	44.1	36.7	55.1



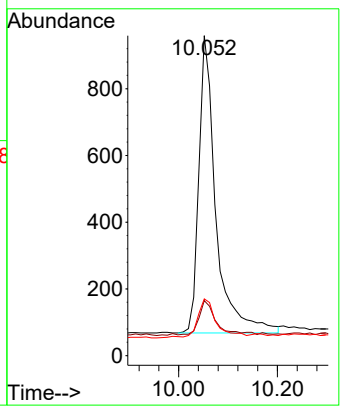


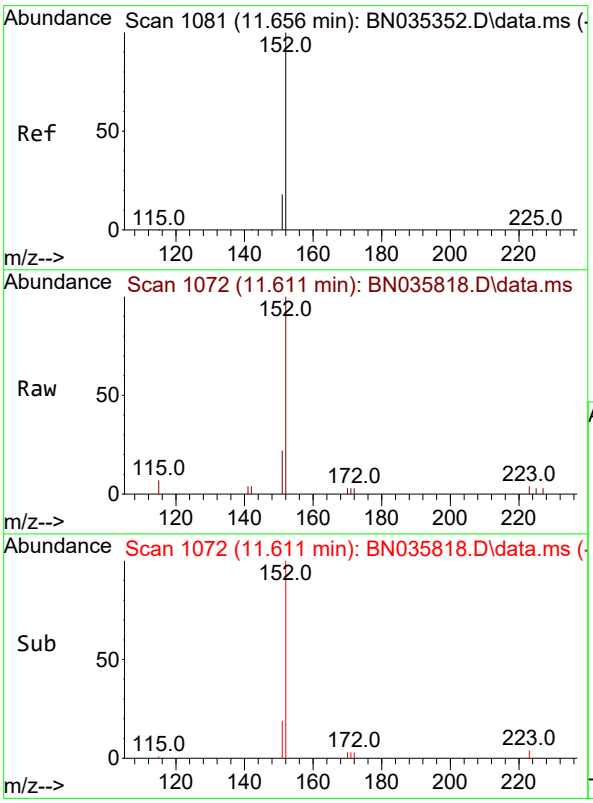
#9
Naphthalene
Concen: 0.109 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:128 Resp: 2140

Ion	Ratio	Lower	Upper
128	100		
129	17.2	9.8	14.6#
127	17.7	11.4	17.2#

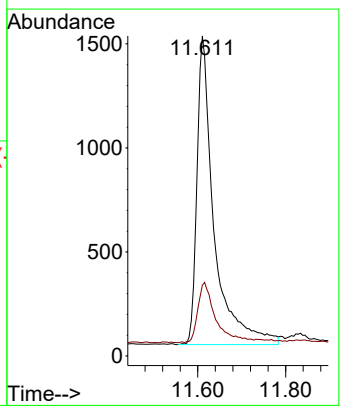


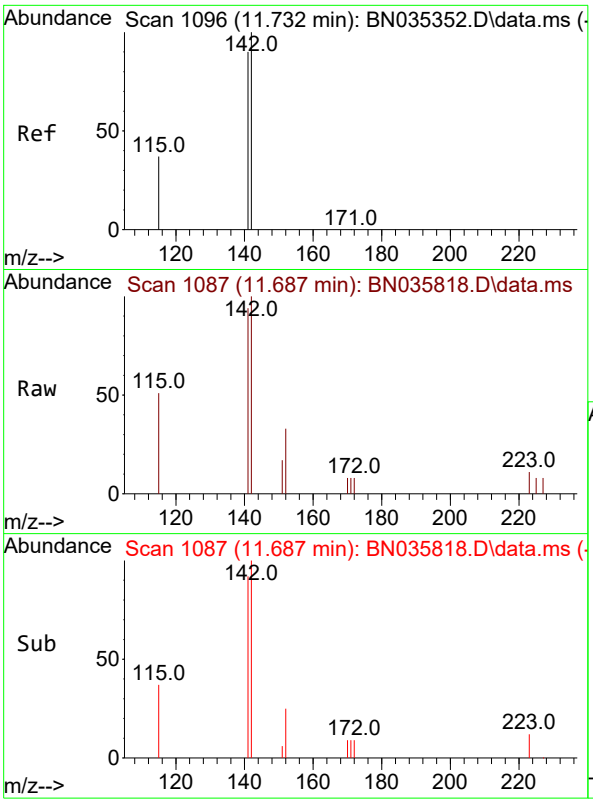


#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:152 Resp: 4011

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	25.0



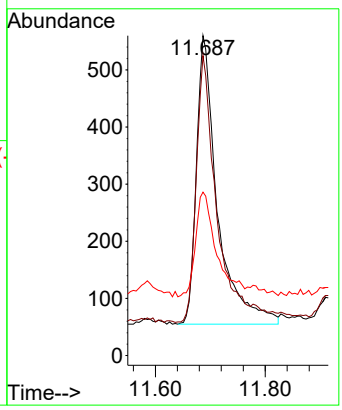


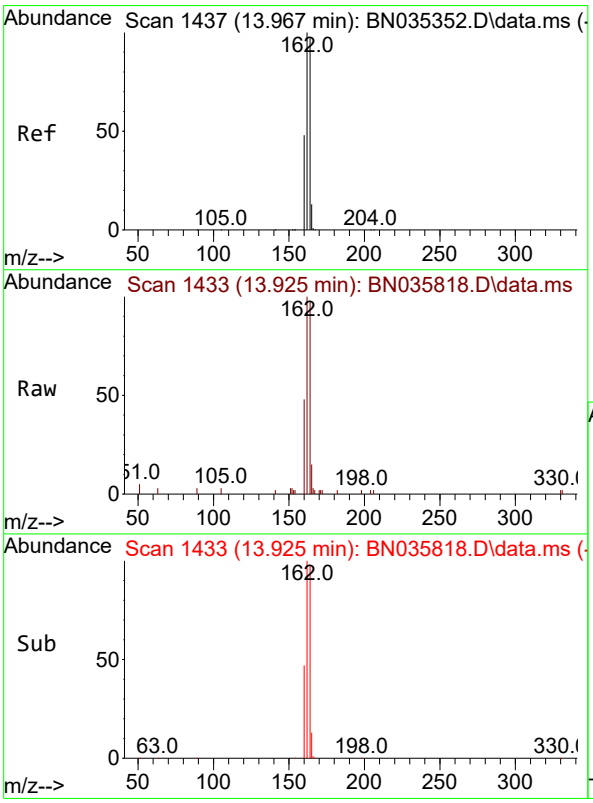
#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.687 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:142 Resp: 1347

Ion	Ratio	Lower	Upper
142	100		
141	93.8	72.2	108.4
115	51.1	31.4	47.0#

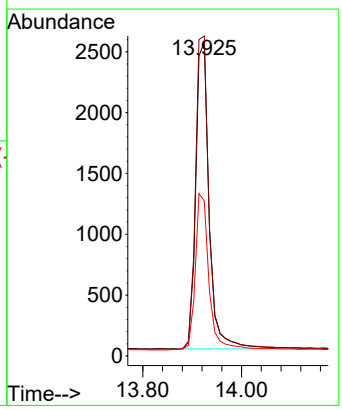


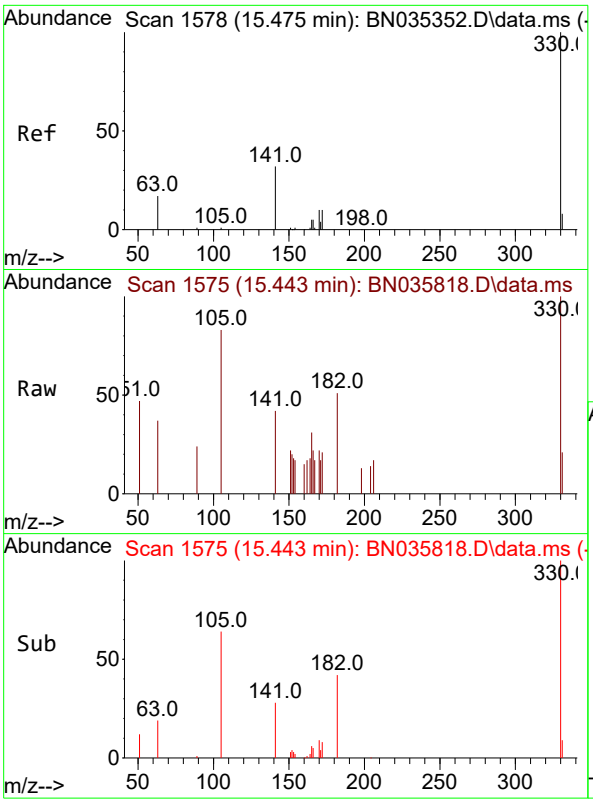


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:164 Resp: 4769

Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.2	123.2
160	49.4	40.1	60.1



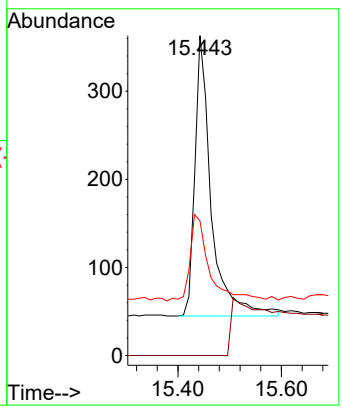


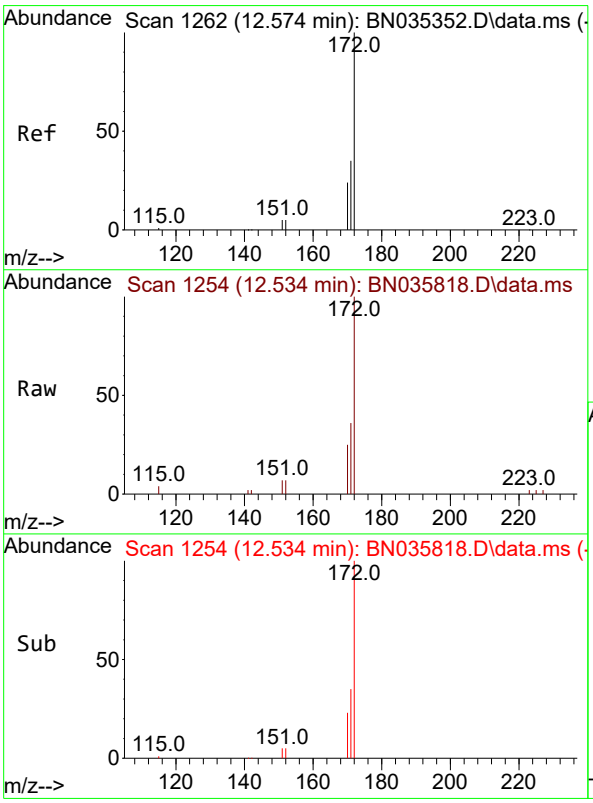
#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:330 Resp: 736

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.9	26.6	40.0

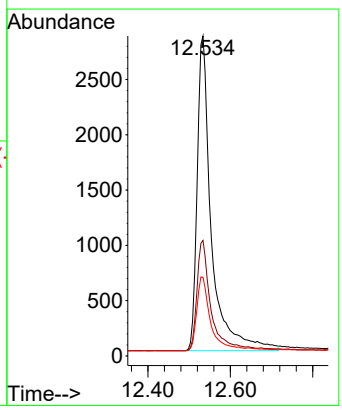


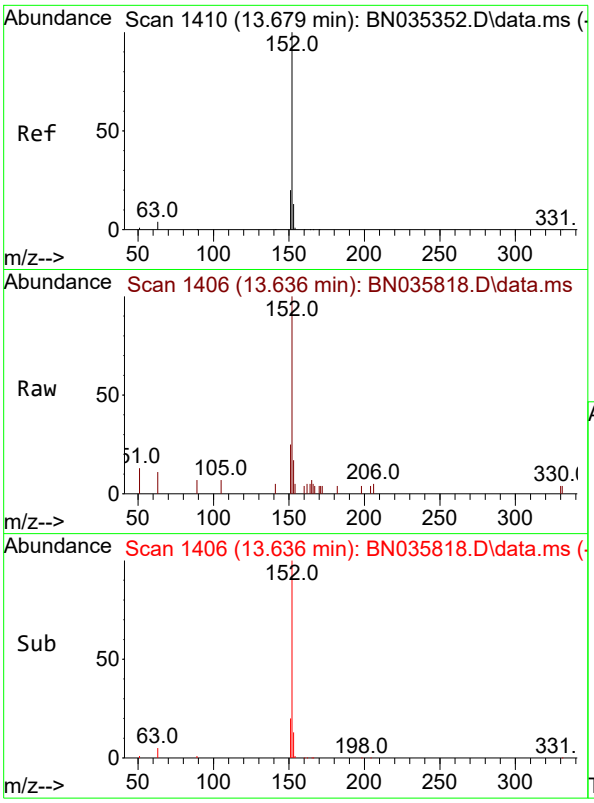


#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:172 Resp: 6868

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.6	19.8	29.8



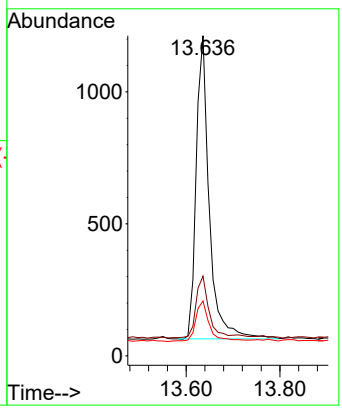


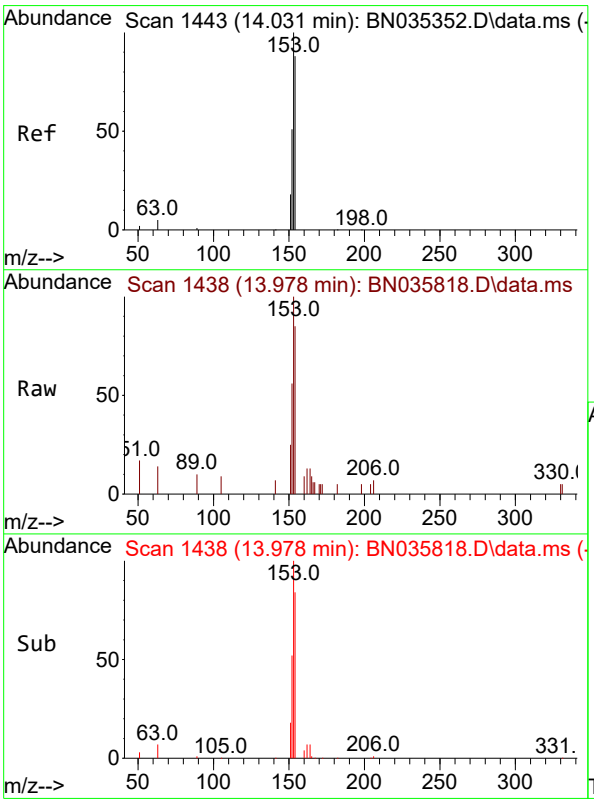
#16
Acenaphthylene
Concen: 0.111 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:152 Resp: 2222

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	14.4	10.4	15.6

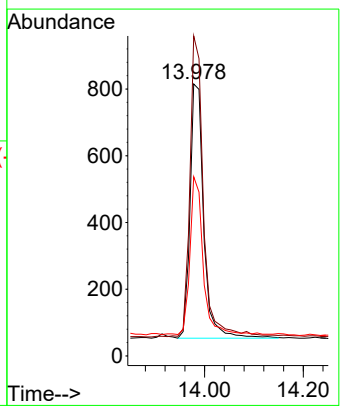


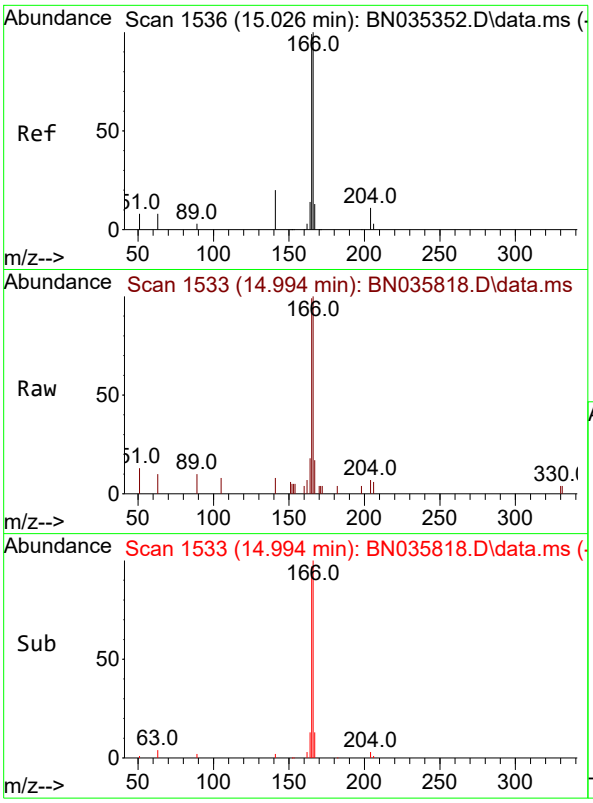


#17
Acenaphthene
Concen: 0.110 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:154 Resp: 1464

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	58.9	49.0	73.6



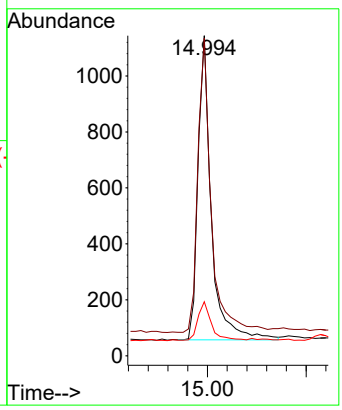


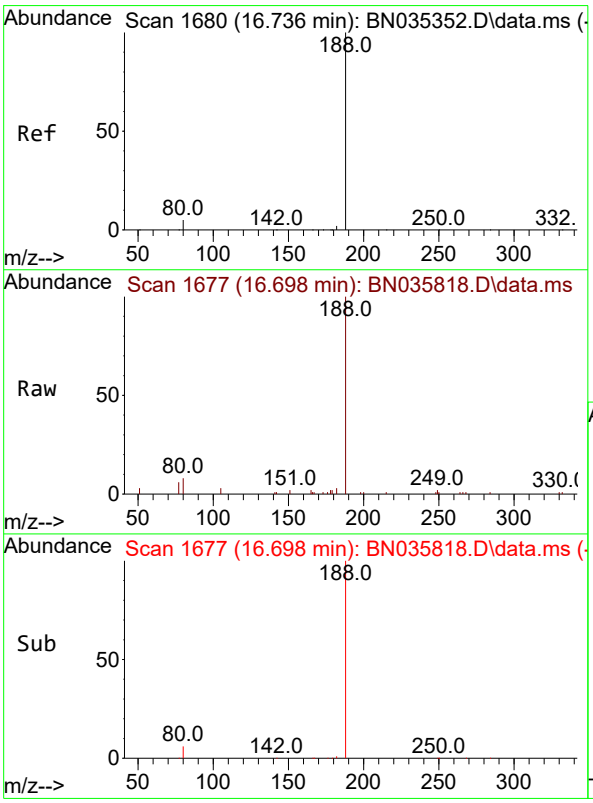
#18
Fluorene
Concen: 0.106 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:166 Resp: 2023

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.7	119.5
167	13.4	10.8	16.2

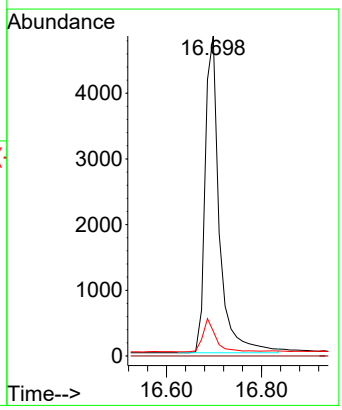


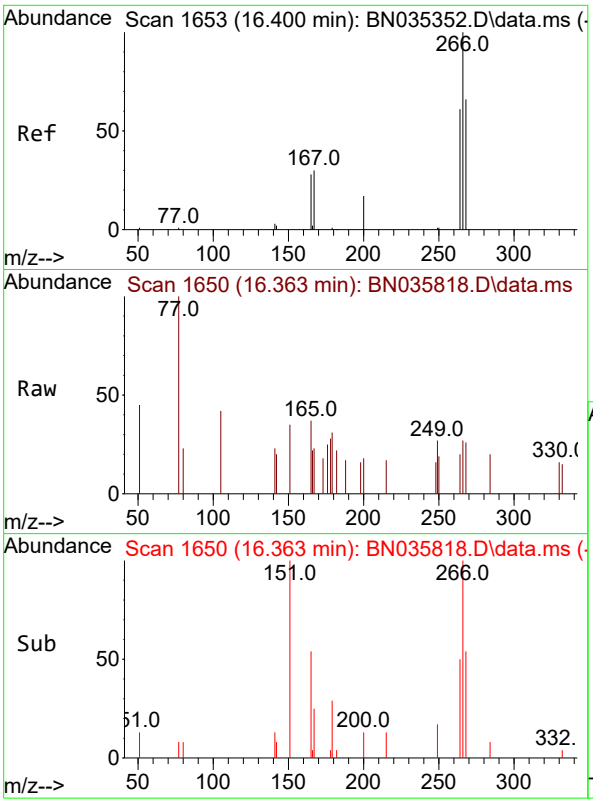


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:188 Resp: 10054

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#



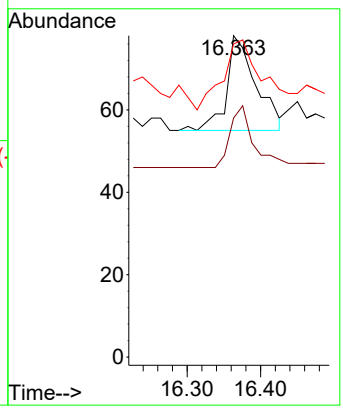


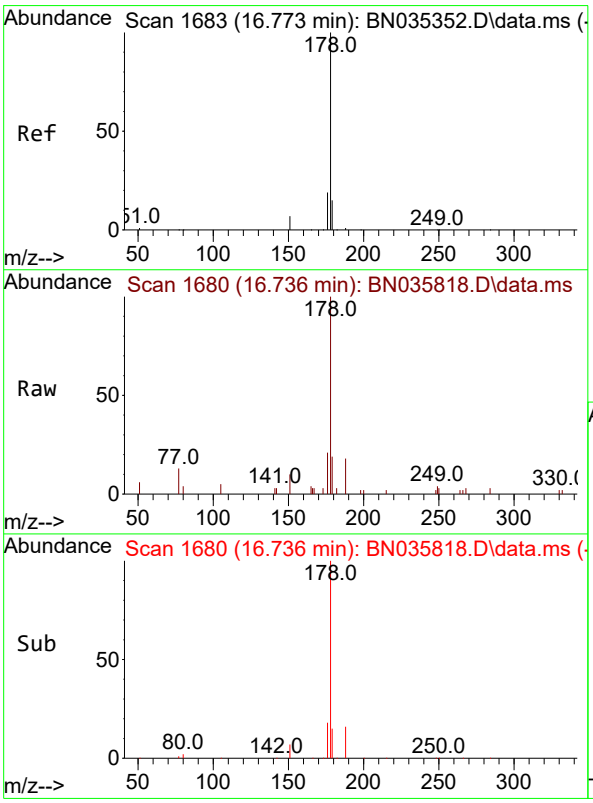
#24
Pentachlorophenol
Concen: 0.021 ng
RT: 16.363 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:266 Resp: 64

Ion	Ratio	Lower	Upper
266	100		
264	53.1	42.3	63.5
268	98.4	43.3	64.9#

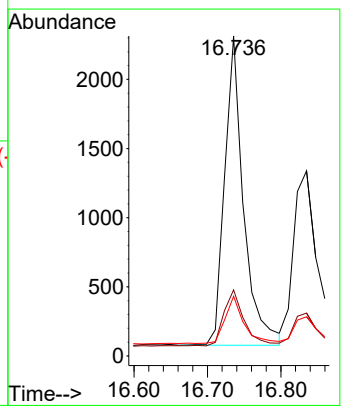


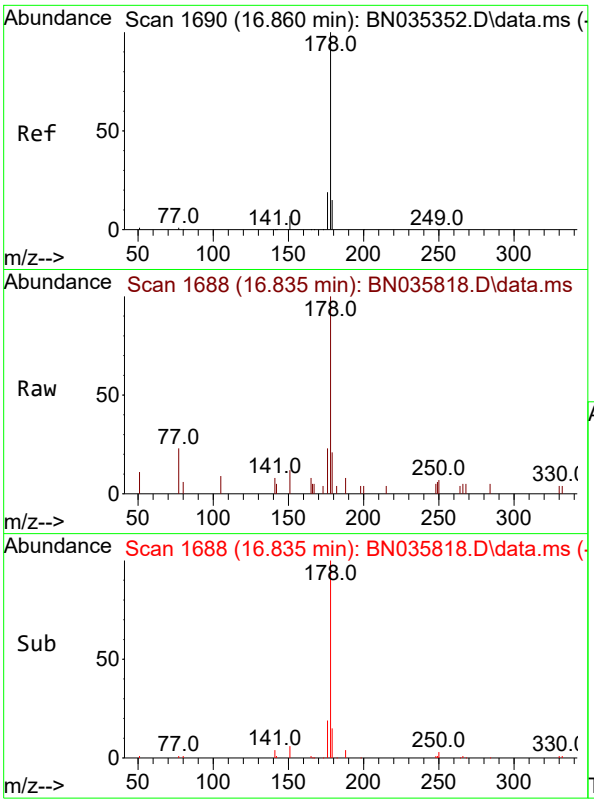


#25
Phenanthrene
Concen: 0.145 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:178 Resp: 3999

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.4	23.2
179	16.2	12.3	18.5



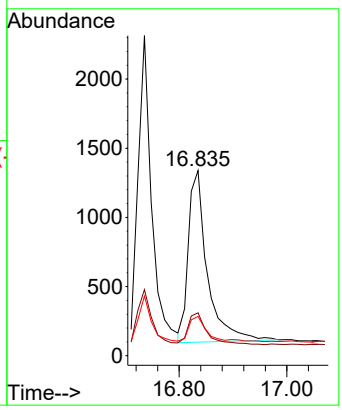


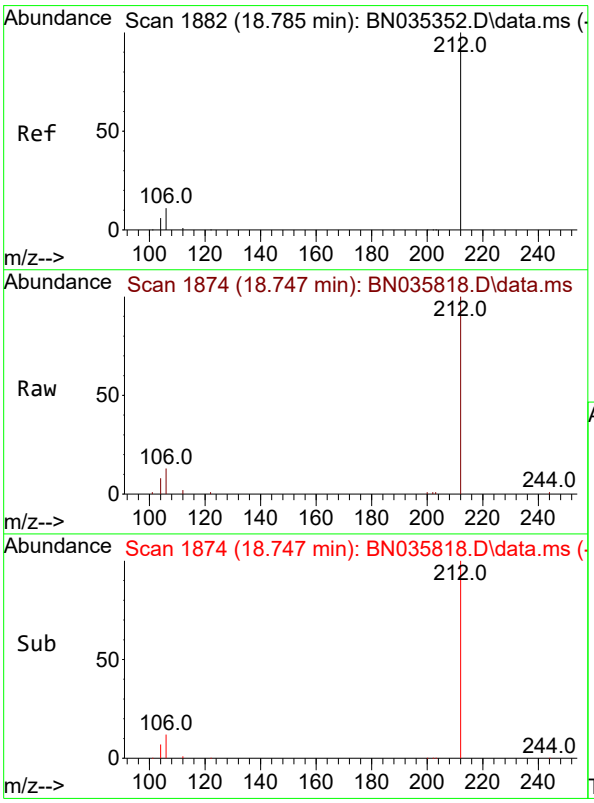
#26
Anthracene
Concen: 0.122 ng
RT: 16.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:178 Resp: 3041

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.2	12.6	18.8

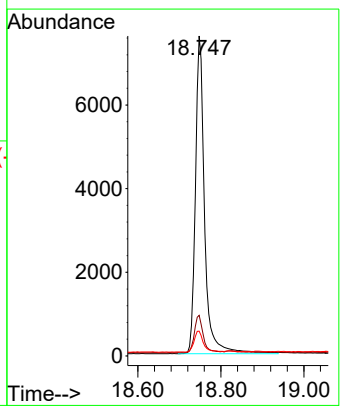


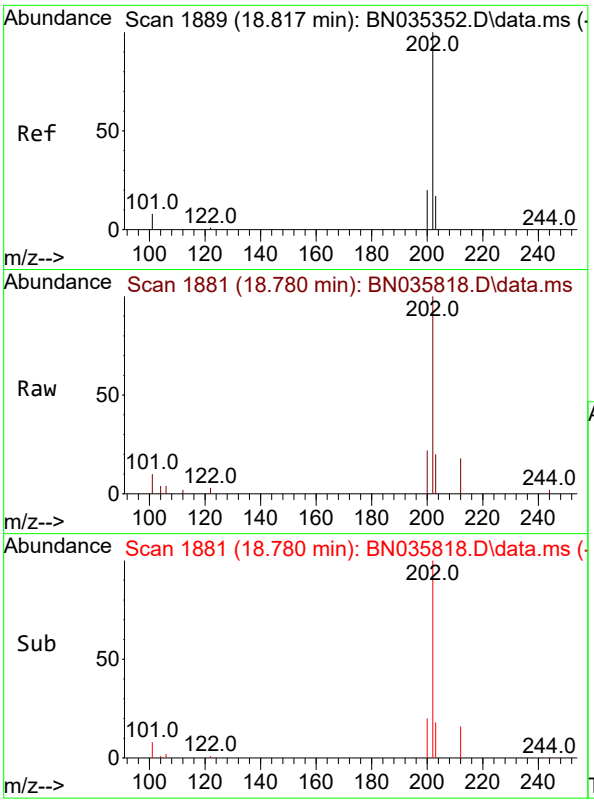


#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:212 Resp: 11709

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.8	5.3	7.9



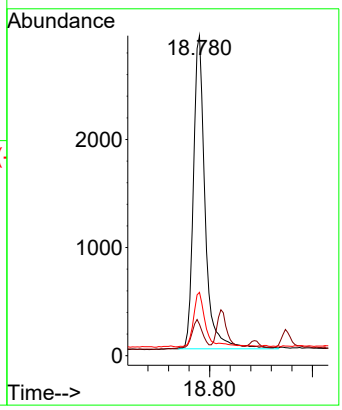


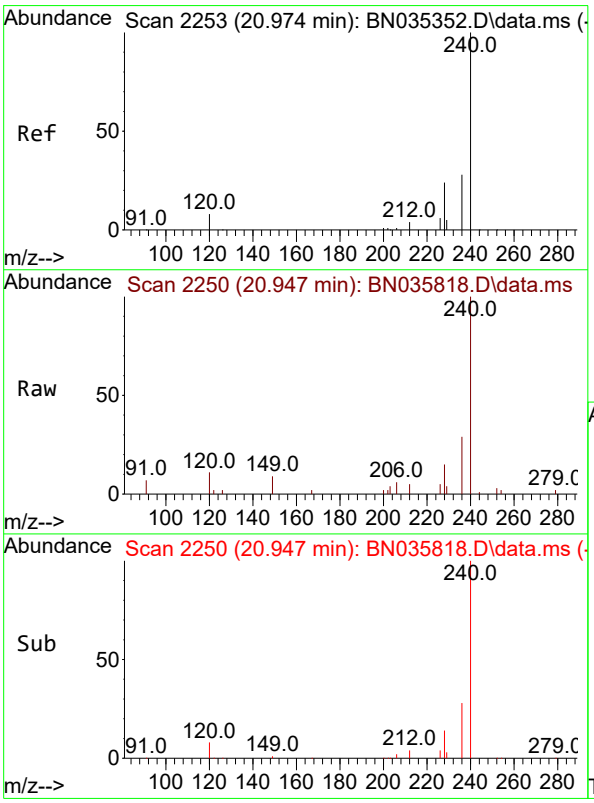
#28
Fluoranthene
Concen: 0.124 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:202 Resp: 4605

Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.4	11.0
203	18.0	13.7	20.5

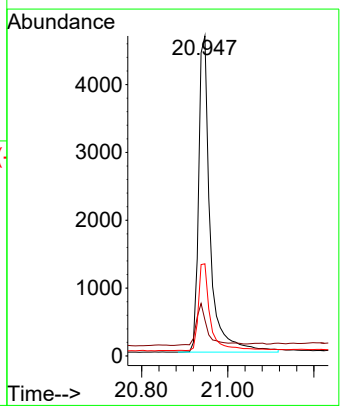


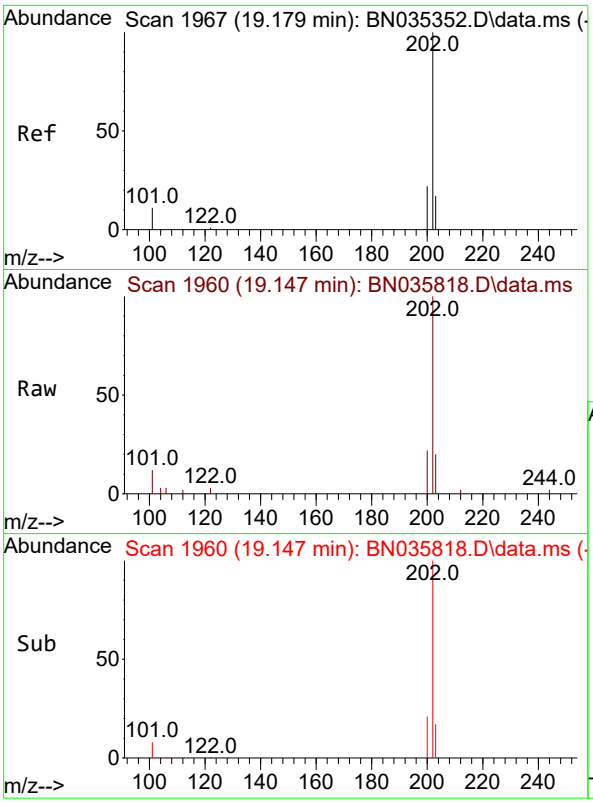


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:240 Resp: 8730

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3



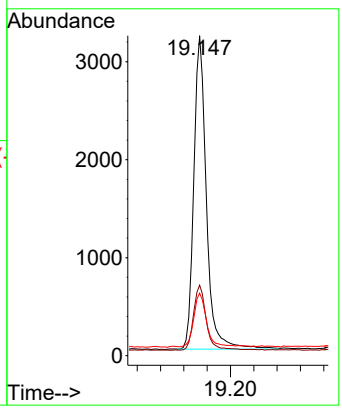


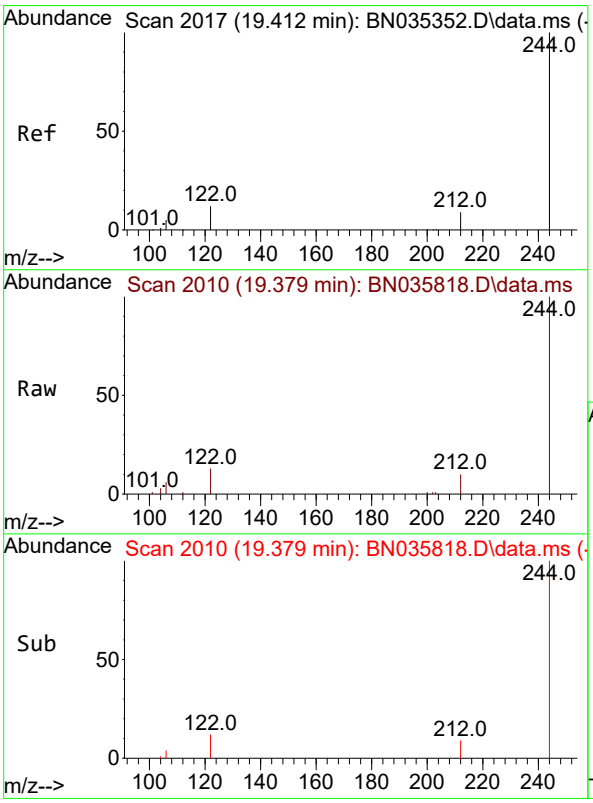
#30
Pyrene
Concen: 0.148 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:202 Resp: 4782

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.1	14.3	21.5

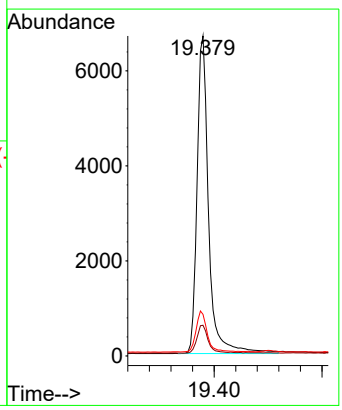


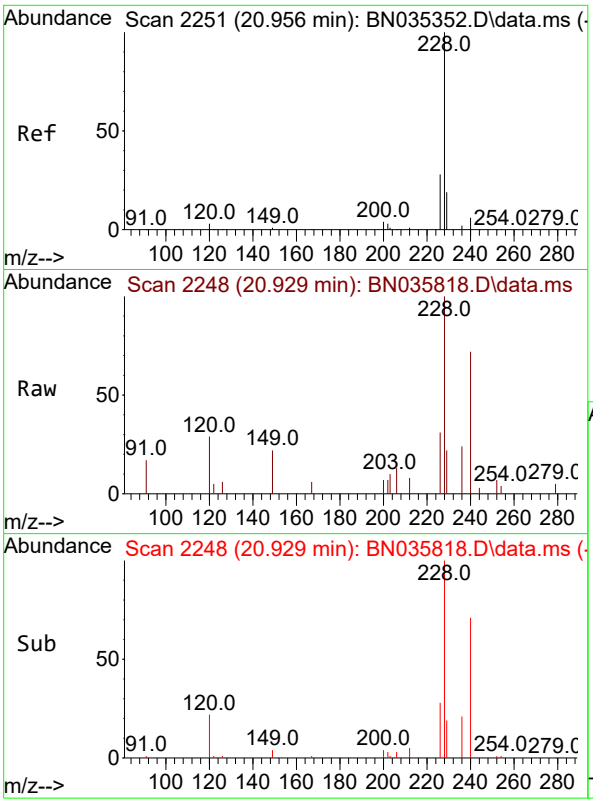


#31
Terphenyl-d14
Concen: 0.577 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:244 Resp: 9932

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.0	10.3	15.5



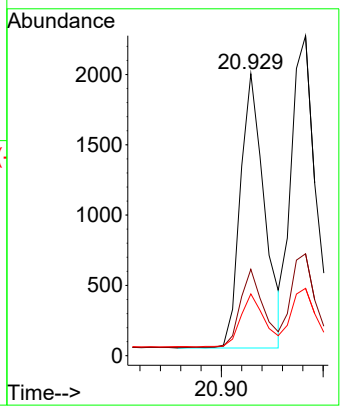


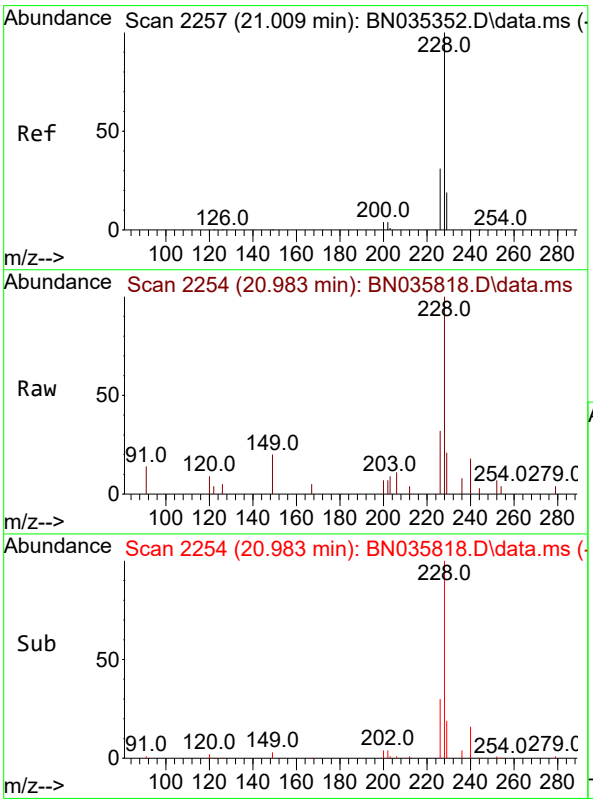
#32
Benzo(a)anthracene
Concen: 0.105 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:228 Resp: 3217

Ion	Ratio	Lower	Upper
228	100		
226	30.7	22.5	33.7
229	21.9	15.8	23.8

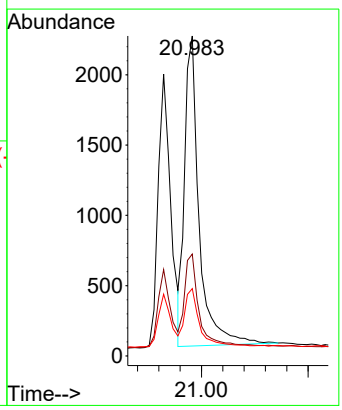


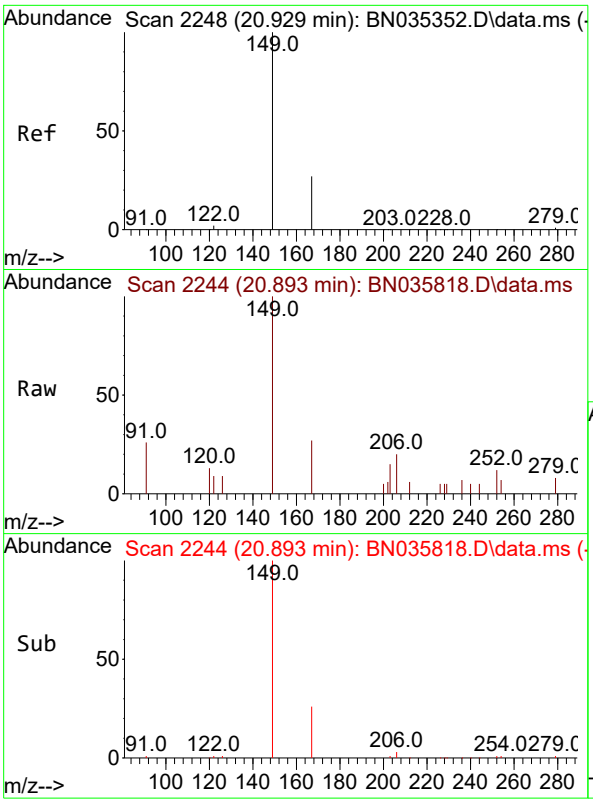


#33
Chrysene
Concen: 0.132 ng
RT: 20.983 min Scan# 2254
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:228 Resp: 4153

Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.6	37.0
229	21.0	15.9	23.9



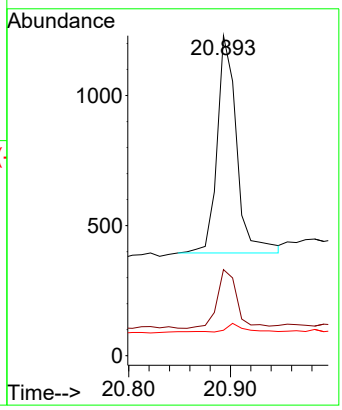


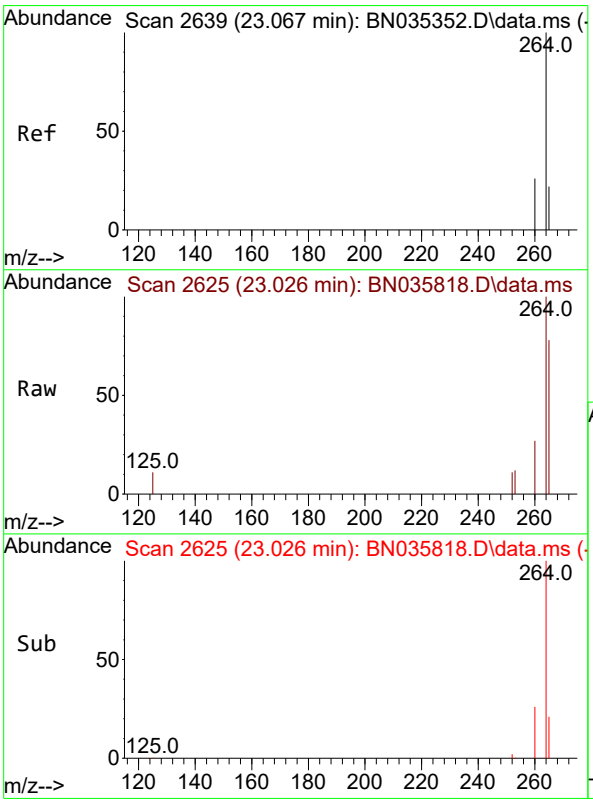
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.092 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:149 Resp: 1111

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.2	2.7	4.1

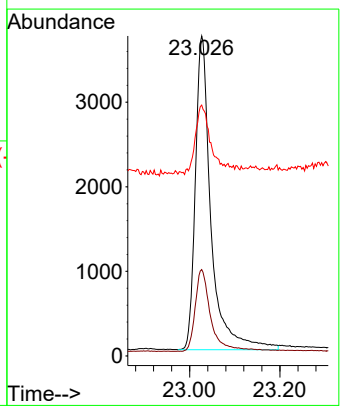


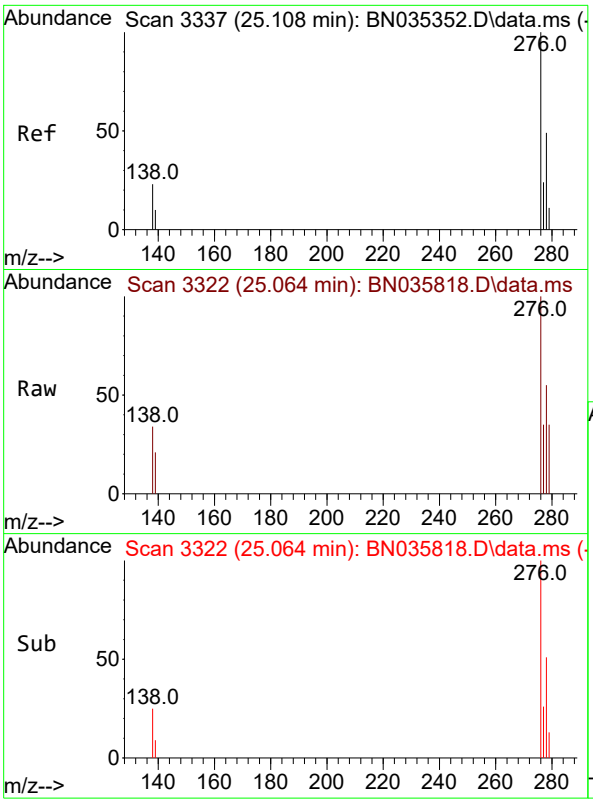


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:264 Resp: 8948

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	78.4	40.2	60.4#



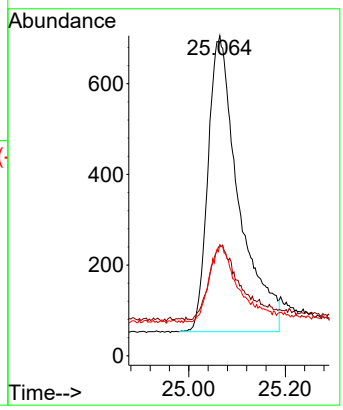


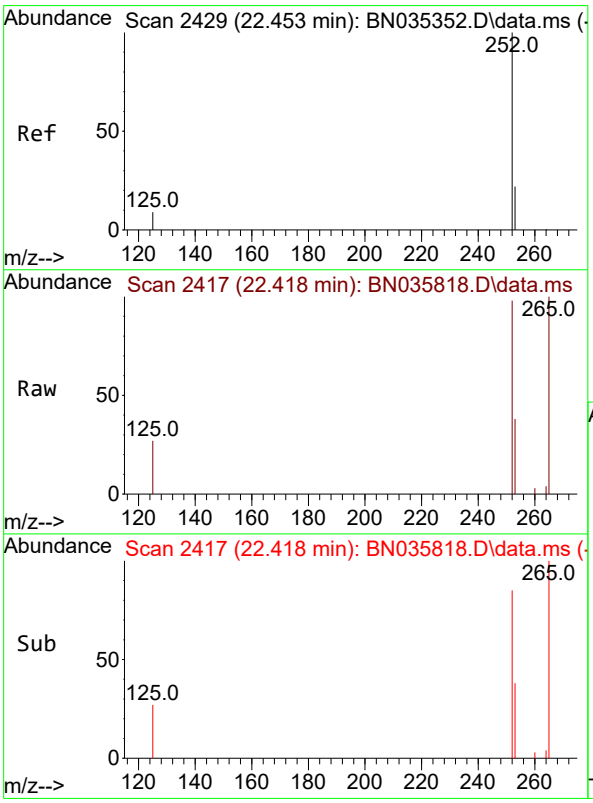
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.082 ng
RT: 25.064 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:276 Resp: 2885

Ion	Ratio	Lower	Upper
276	100		
138	24.9	19.4	29.0
277	22.5	19.8	29.6

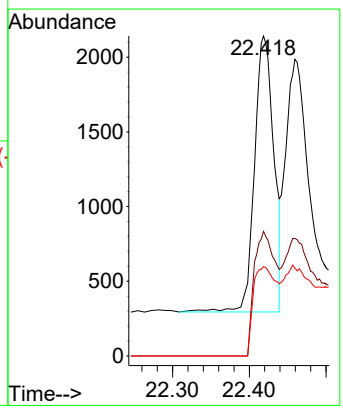


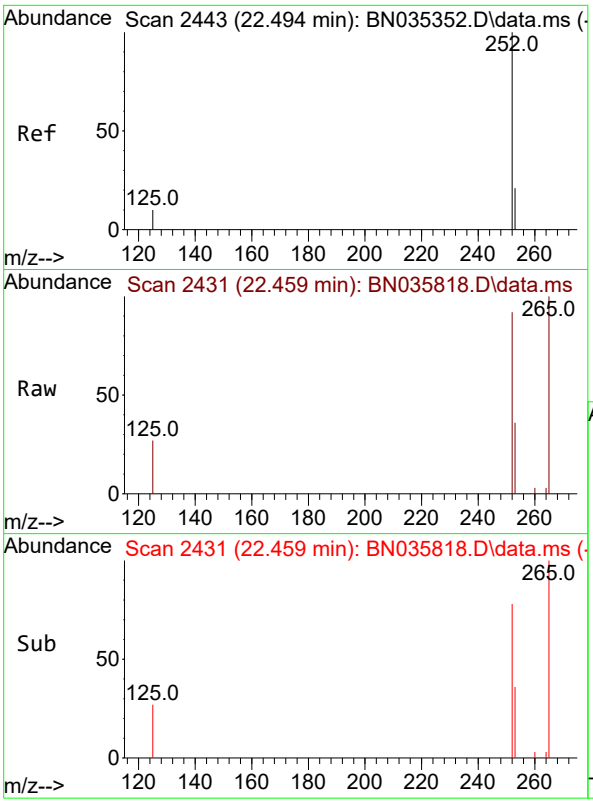


#37
Benzo(b)fluoranthene
Concen: 0.180 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 5898

Ion	Ratio	Lower	Upper
252	100		
253	38.9	19.6	29.4#
125	27.9	9.6	14.4#



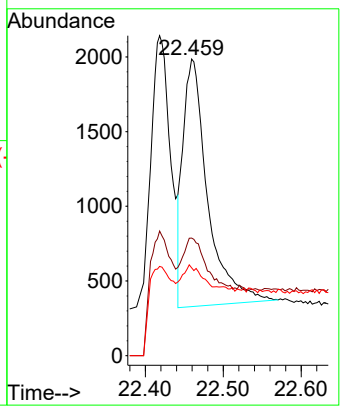


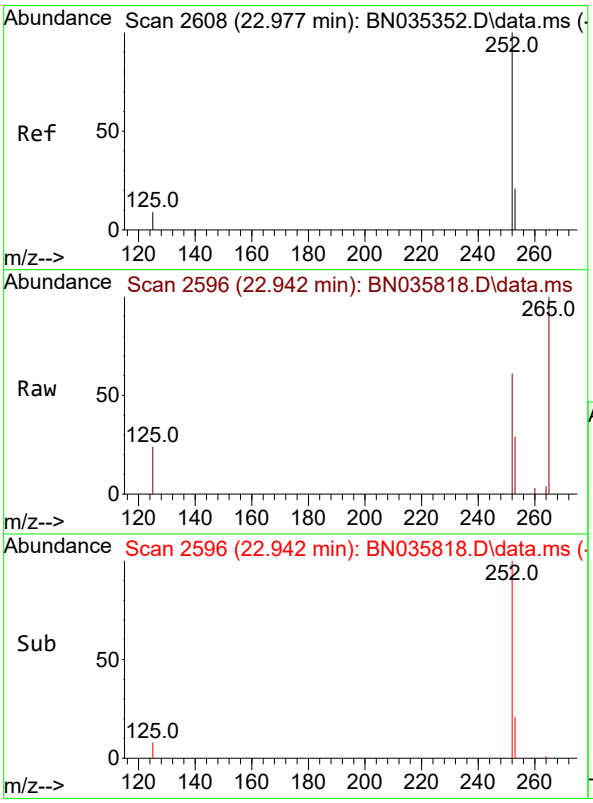
#38
Benzo(k)fluoranthene
Concen: 0.113 ng
RT: 22.459 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:252 Resp: 3643

Ion	Ratio	Lower	Upper
252	100		
253	39.6	19.5	29.3#
125	29.6	10.2	15.4#

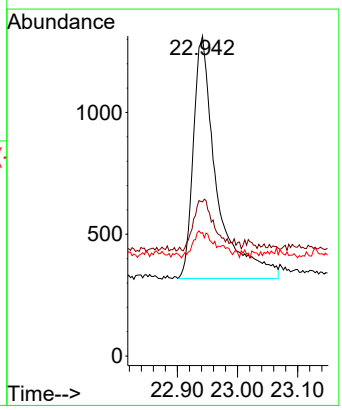


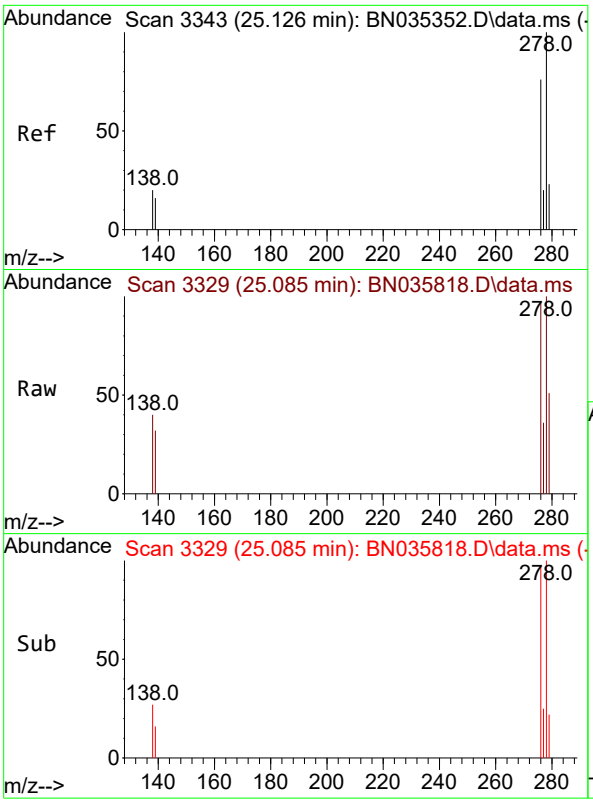


#39
Benzo(a)pyrene
Concen: 0.100 ng
RT: 22.942 min Scan# 2596
Delta R.T. -0.009 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:252 Resp: 2686

Ion	Ratio	Lower	Upper
252	100		
253	48.2	20.2	30.4#
125	38.6	10.9	16.3#



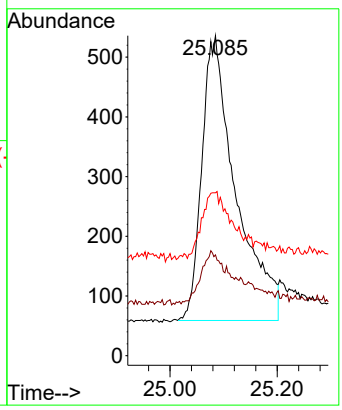


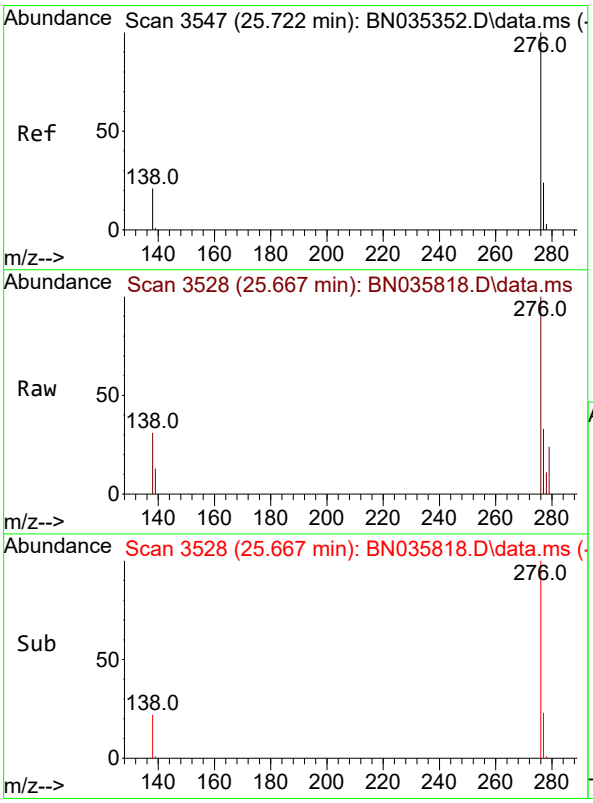
#40
Dibenzo(a,h)anthracene
Concen: 0.076 ng
RT: 25.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Instrument :
BNA_N
ClientSampleId :
DUP-07-20241218

Tgt Ion:278 Resp: 2103

Ion	Ratio	Lower	Upper
278	100		
139	31.5	14.2	21.4#
279	50.9	20.5	30.7#

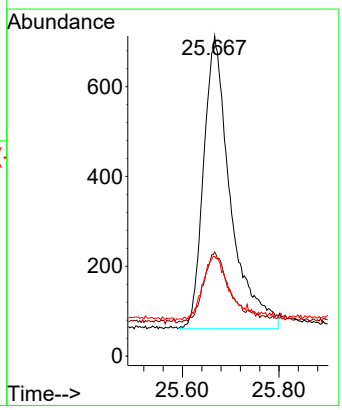




#41
Benzo(g,h,i)perylene
Concen: 0.087 ng
RT: 25.667 min Scan# 3528
Delta R.T. -0.012 min
Lab File: BN035818.D
Acq: 24 Dec 2024 13:08

Tgt Ion:276 Resp: 2516

Ion	Ratio	Lower	Upper
276	100		
277	32.5	19.9	29.9#
138	31.1	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

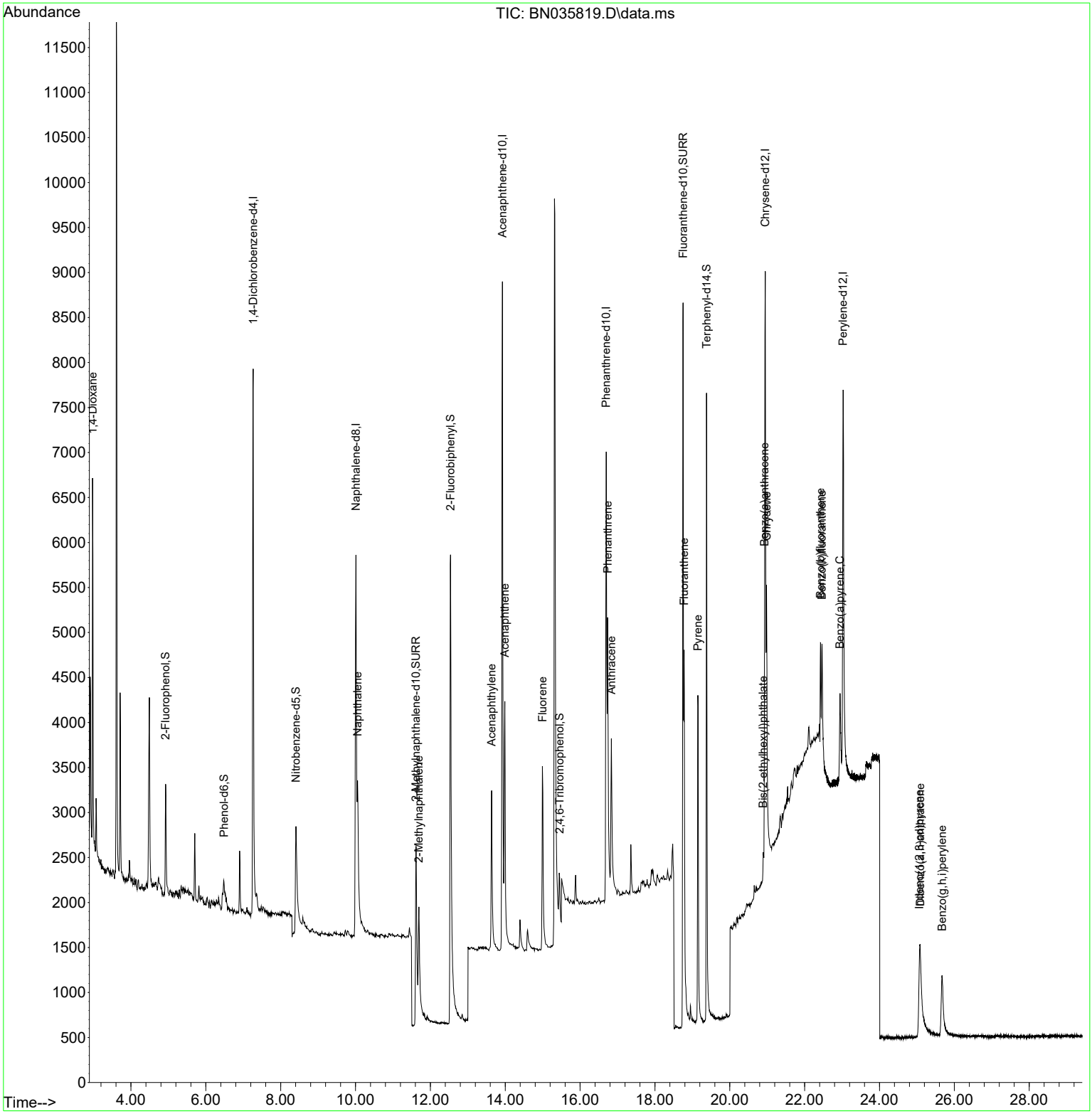
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3689	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	8470	0.400	ng		-0.01
13) Acenaphthene-d10	13.924	164	5265	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	9421	0.400	ng	#	0.00
29) Chrysene-d12	20.947	240	7347	0.400	ng	#	0.00
35) Perylene-d12	23.026	264	7210	0.400	ng	#	-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	1128	0.122	ng		-0.01
5) Phenol-d6	6.484	99	578	0.052	ng		0.00
8) Nitrobenzene-d5	8.407	82	3126	0.604	ng		0.00
11) 2-Methylnaphthalene-d10	11.615	152	4896	0.369	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	747	0.200	ng		0.00
15) 2-Fluorobiphenyl	12.538	172	8403	0.422	ng		0.00
27) Fluoranthene-d10	18.752	212	11207	0.420	ng		0.00
31) Terphenyl-d14	19.379	244	8308	0.573	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	2834	0.804	ng		99
9) Naphthalene	10.052	128	2295	0.103	ng	#	90
12) 2-Methylnaphthalene	11.691	142	1434	0.090	ng	#	92
16) Acenaphthylene	13.636	152	2575	0.116	ng		99
17) Acenaphthene	13.988	154	1536	0.105	ng		96
18) Fluorene	14.993	166	1937	0.092	ng		99
25) Phenanthrene	16.735	178	3558	0.137	ng		99
26) Anthracene	16.835	178	2627	0.112	ng		99
28) Fluoranthene	18.780	202	3772	0.108	ng		99
30) Pyrene	19.147	202	3996	0.147	ng		100
32) Benzo(a)anthracene	20.929	228	2328	0.091	ng		95
33) Chrysene	20.982	228	3355	0.127	ng		96
34) Bis(2-ethylhexyl)phtha...	20.893	149	357	0.035	ng	#	96
36) Indeno(1,2,3-cd)pyrene	25.067	276	2032	0.072	ng	#	86
37) Benzo(b)fluoranthene	22.421	252	3012	0.114	ng	#	58
38) Benzo(k)fluoranthene	22.462	252	2589	0.100	ng	#	56
39) Benzo(a)pyrene	22.944	252	1842	0.085	ng	#	32
40) Dibenzo(a,h)anthracene	25.090	278	1565	0.070	ng	#	43
41) Benzo(g,h,i)perylene	25.672	276	1852	0.080	ng	#	78

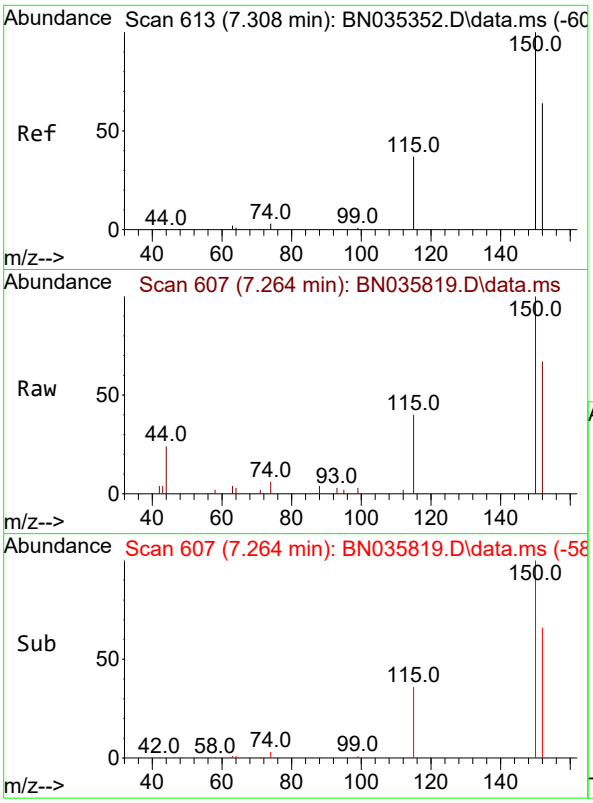
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035819.D
Acq On : 24 Dec 2024 13:44
Operator : RC/JU
Sample : P5376-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Quant Time: Dec 24 23:18:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



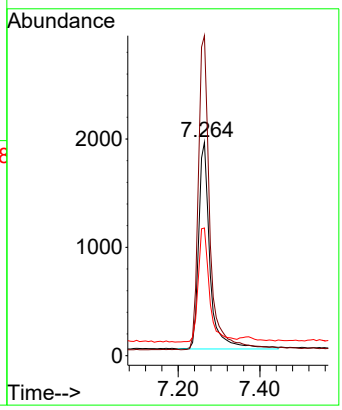


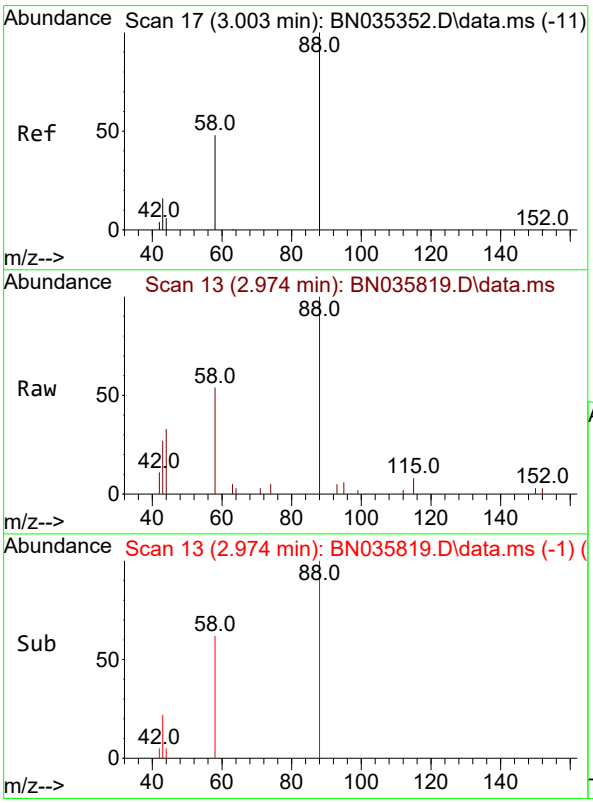
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:152 Resp: 3689

Ion	Ratio	Lower	Upper
152	100		
150	150.0	124.0	186.0
115	59.8	49.6	74.4

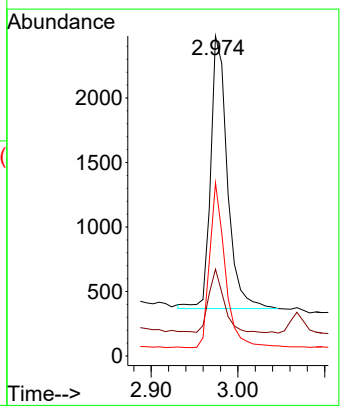


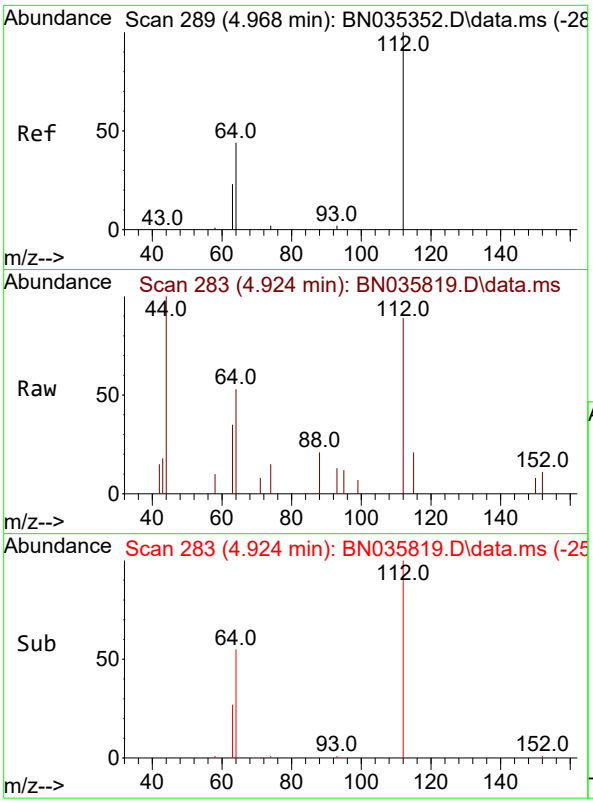


#2
1,4-Dioxane
Concen: 0.804 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 88 Resp: 2834

Ion	Ratio	Lower	Upper
88	100		
43	21.2	17.2	25.8
58	56.3	44.5	66.7



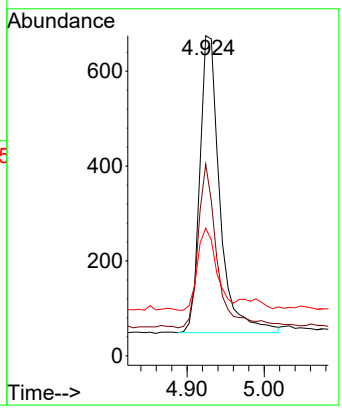


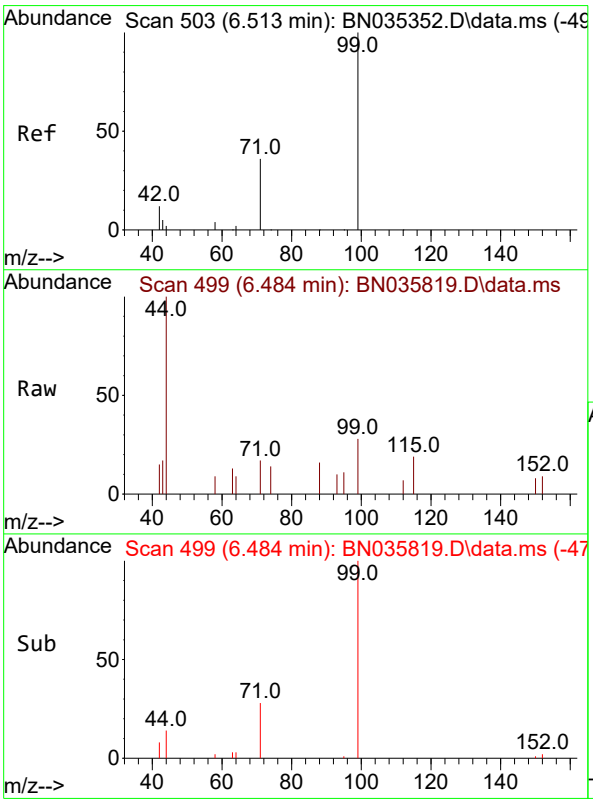
#4
2-Fluorophenol
Concen: 0.122 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Tgt Ion:112 Resp: 1128

Ion	Ratio	Lower	Upper
112	100		
64	53.3	39.8	59.8
63	26.3	21.0	31.6

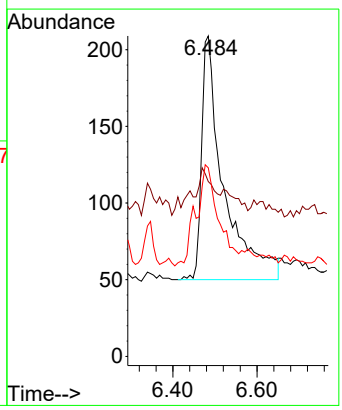


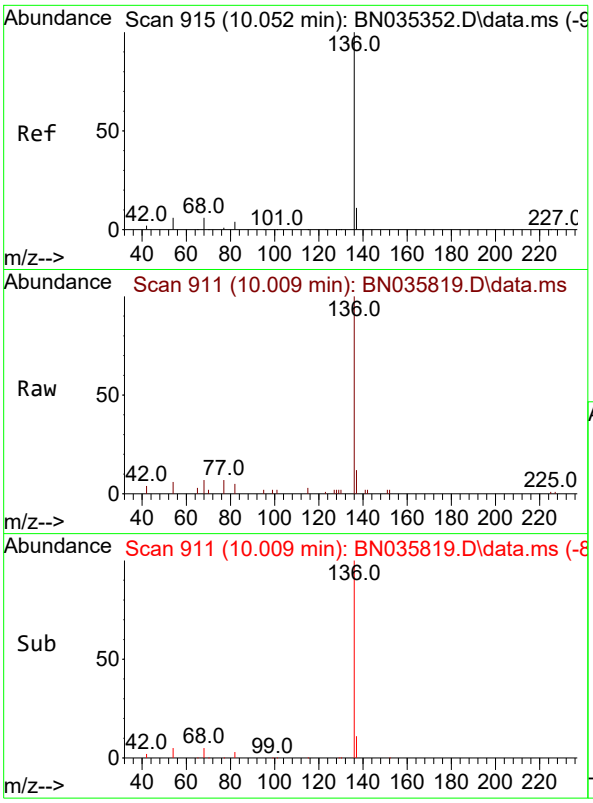


#5
Phenol-d6
Concen: 0.052 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 99 Resp: 578

Ion	Ratio	Lower	Upper
99	100		
42	5.5	11.4	17.2#
71	42.2	29.3	43.9



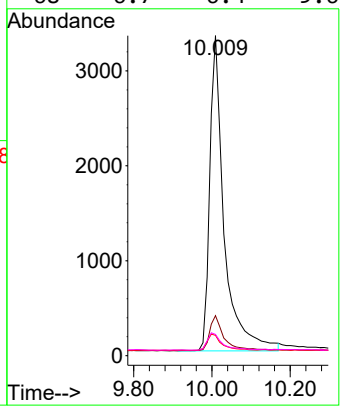


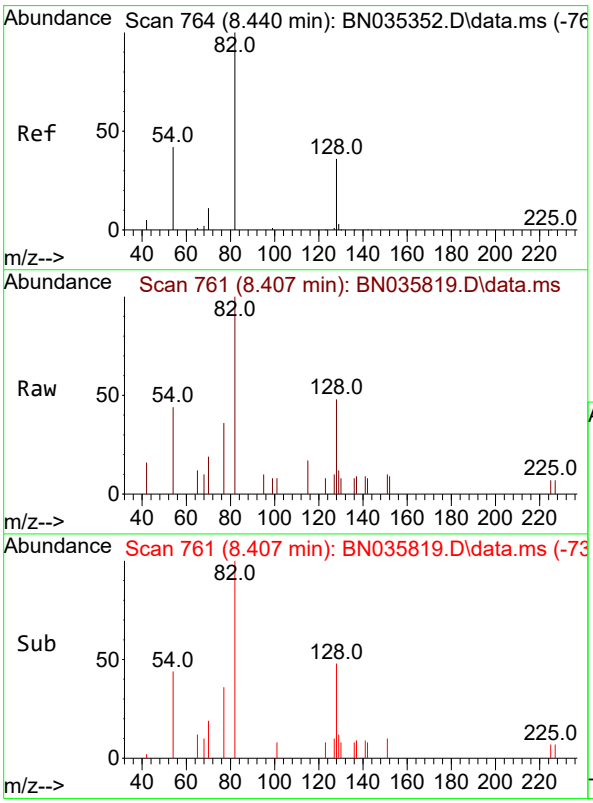
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:136 Resp: 8470

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.4	6.1	9.1
68	6.7	6.4	9.6

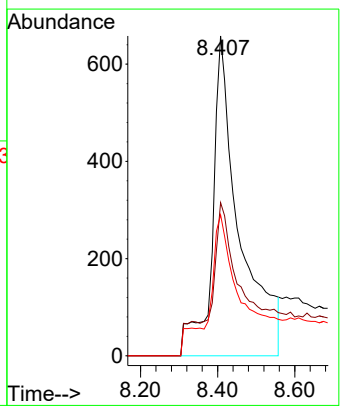


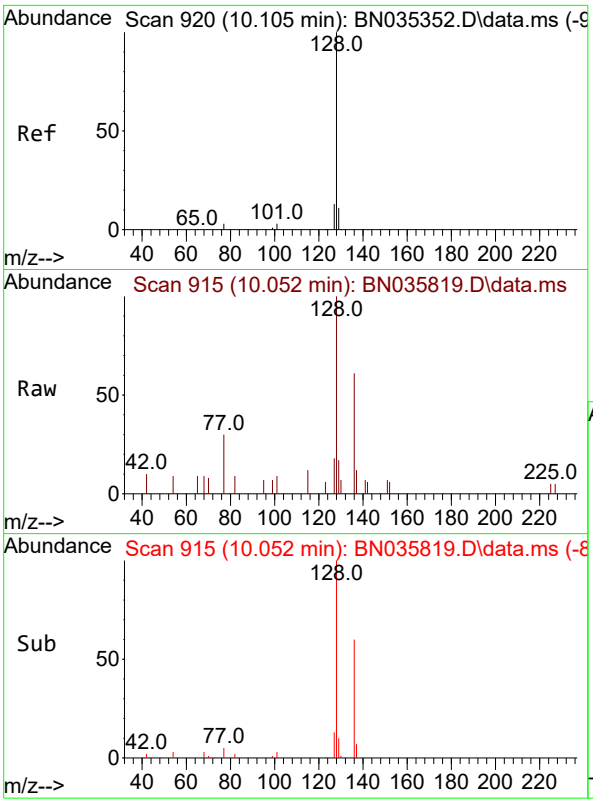


#8
Nitrobenzene-d5
Concen: 0.604 ng
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion: 82 Resp: 3126

Ion	Ratio	Lower	Upper
82	100		
128	47.9	33.4	50.0
54	44.1	36.7	55.1



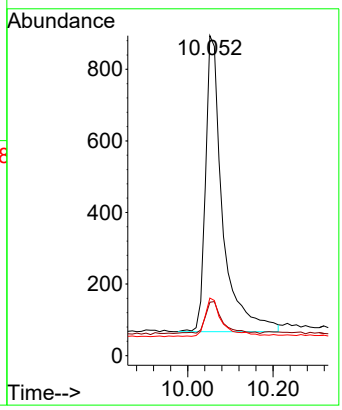


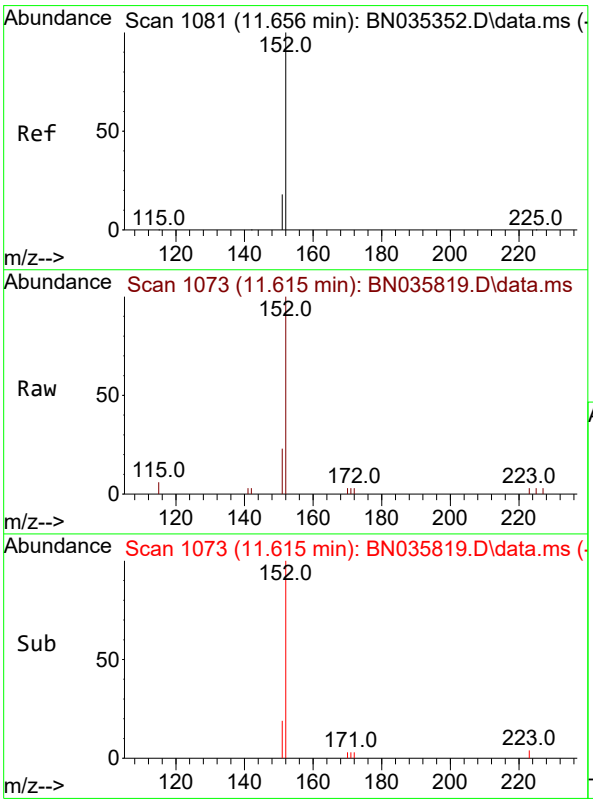
#9
Naphthalene
Concen: 0.103 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:128 Resp: 2295

Ion	Ratio	Lower	Upper
128	100		
129	16.7	9.8	14.6#
127	18.0	11.4	17.2#

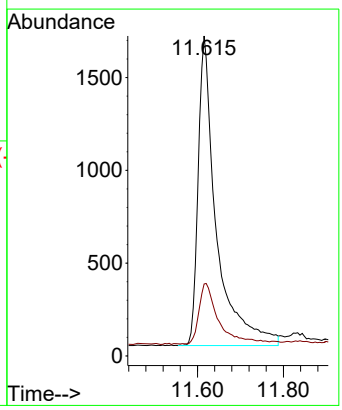


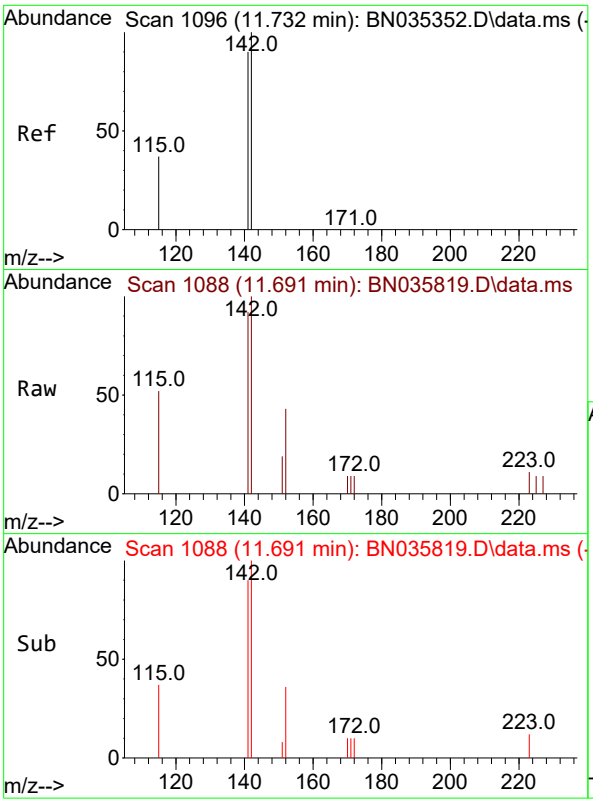


#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:152 Resp: 4896

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0



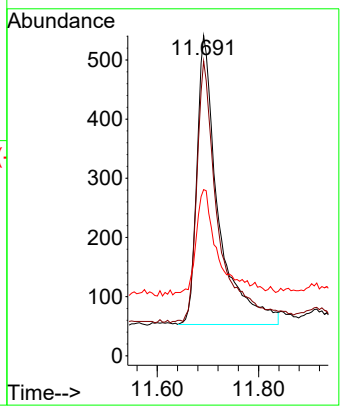


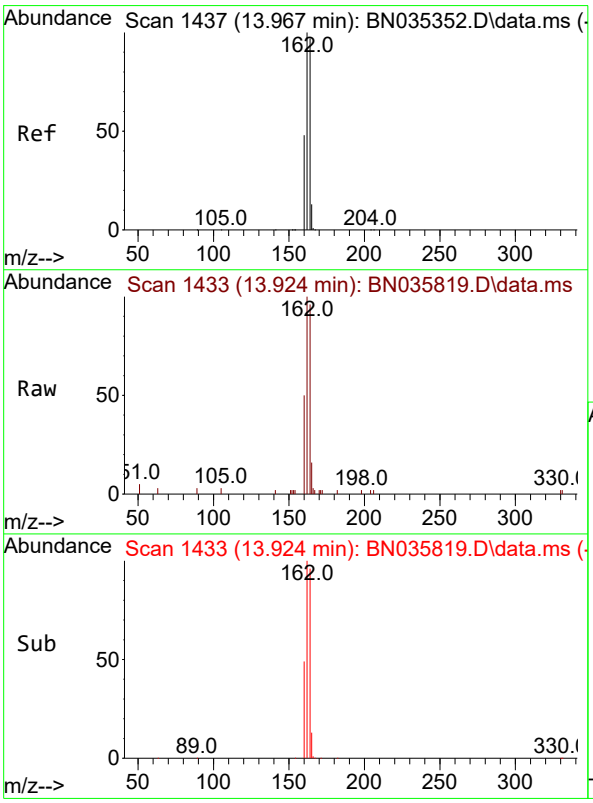
#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 11.691 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:142 Resp: 1434

Ion	Ratio	Lower	Upper
142	100		
141	92.1	72.2	108.4
115	51.9	31.4	47.0#

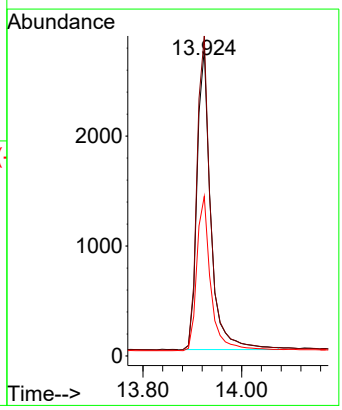


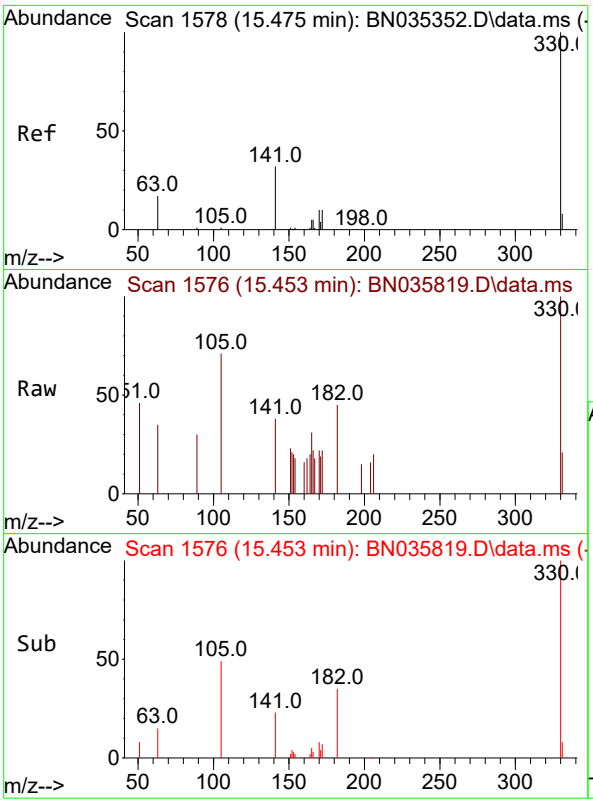


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:164 Resp: 5265

Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.2
160	52.0	40.1	60.1



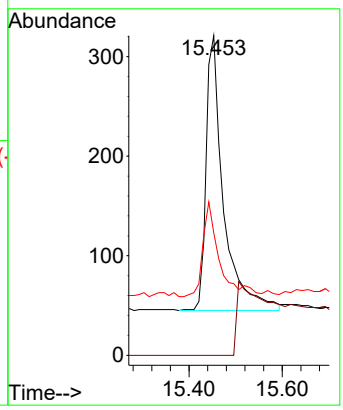


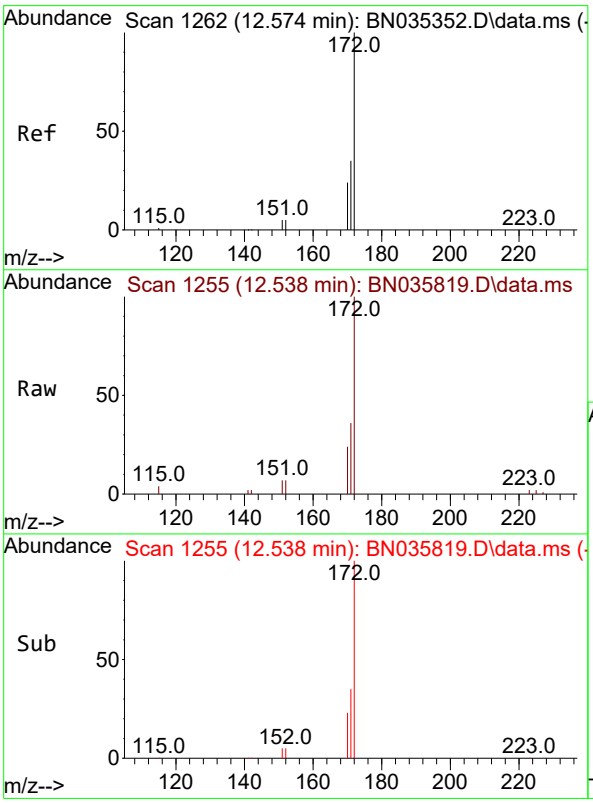
#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:330 Resp: 747

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.3	26.6	40.0

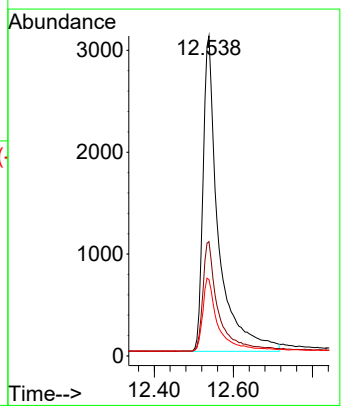


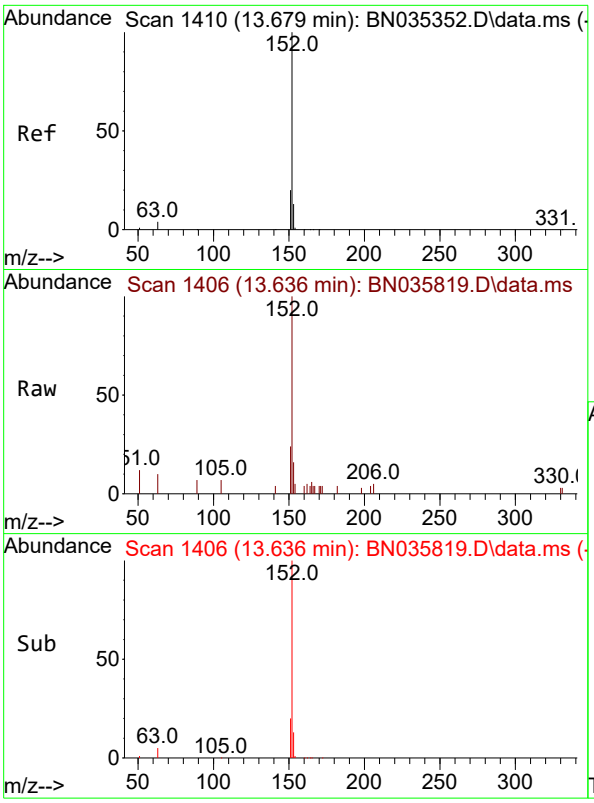


#15
2-Fluorobiphenyl
Concen: 0.422 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:172 Resp: 8403

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	23.8	19.8	29.8



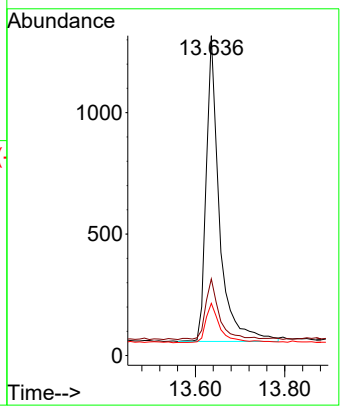


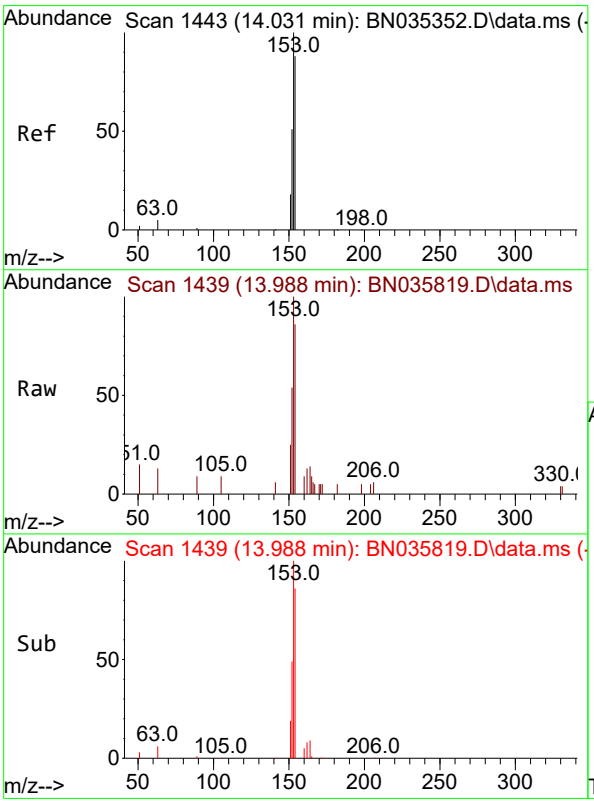
#16
Acenaphthylene
Concen: 0.116 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:152 Resp: 2575

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.2
153	13.3	10.4	15.6

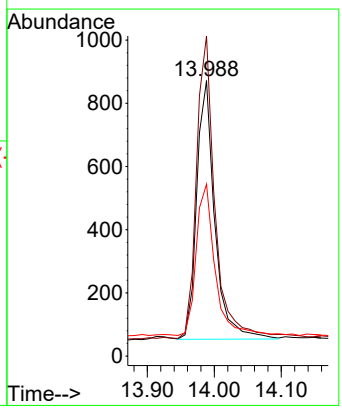


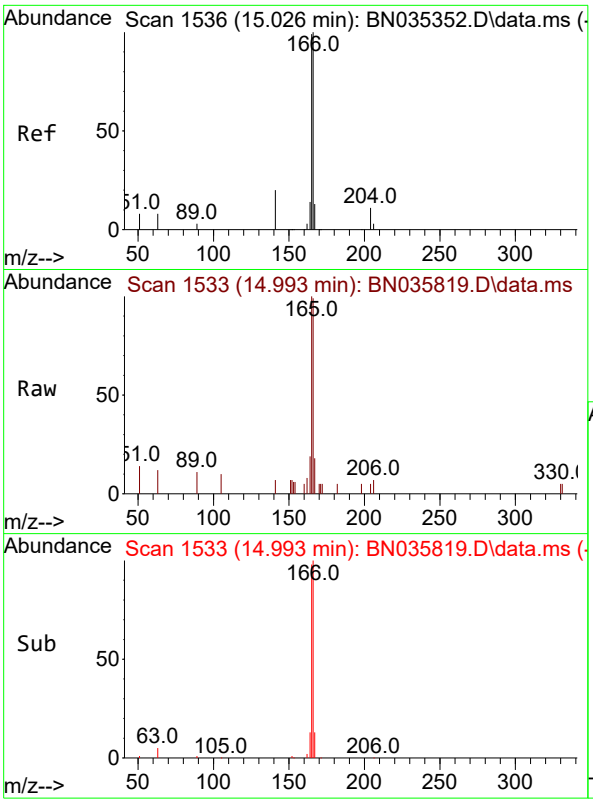


#17
Acenaphthene
Concen: 0.105 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:154 Resp: 1536

Ion	Ratio	Lower	Upper
154	100		
153	122.4	92.6	139.0
152	61.7	49.0	73.6



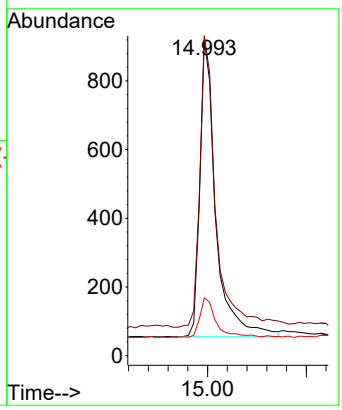


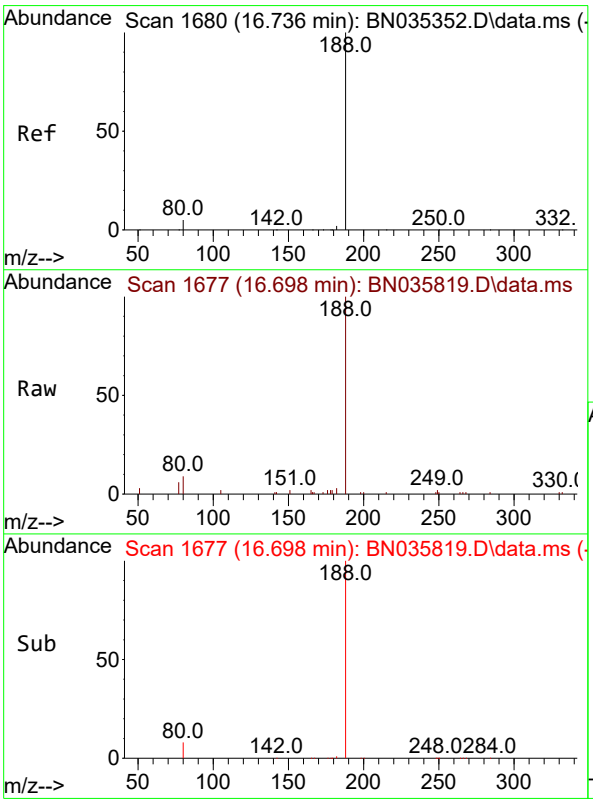
#18
Fluorene
Concen: 0.092 ng
RT: 14.993 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:166 Resp: 1937

Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.7	119.5
167	13.8	10.8	16.2

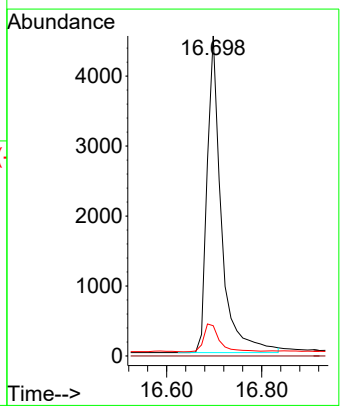


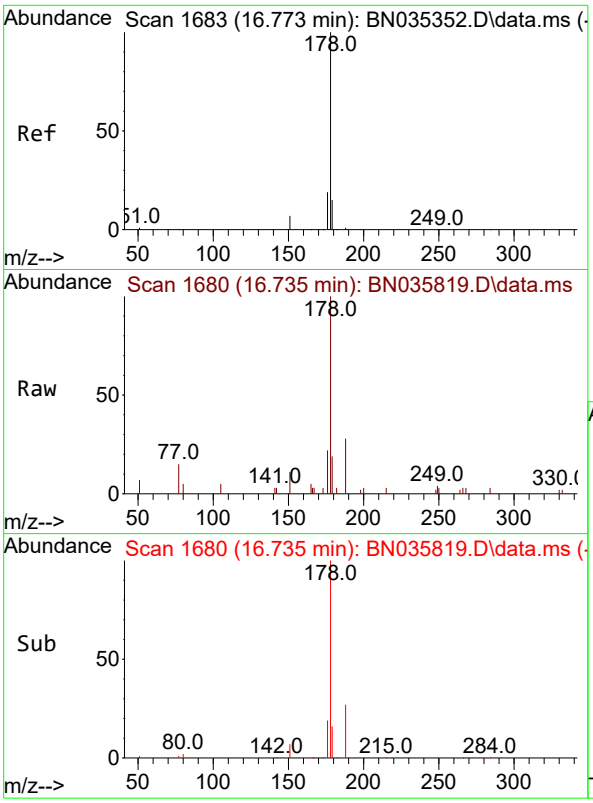


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:188 Resp: 9421

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.4	4.6	6.8#



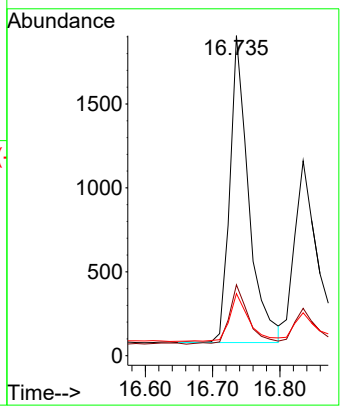


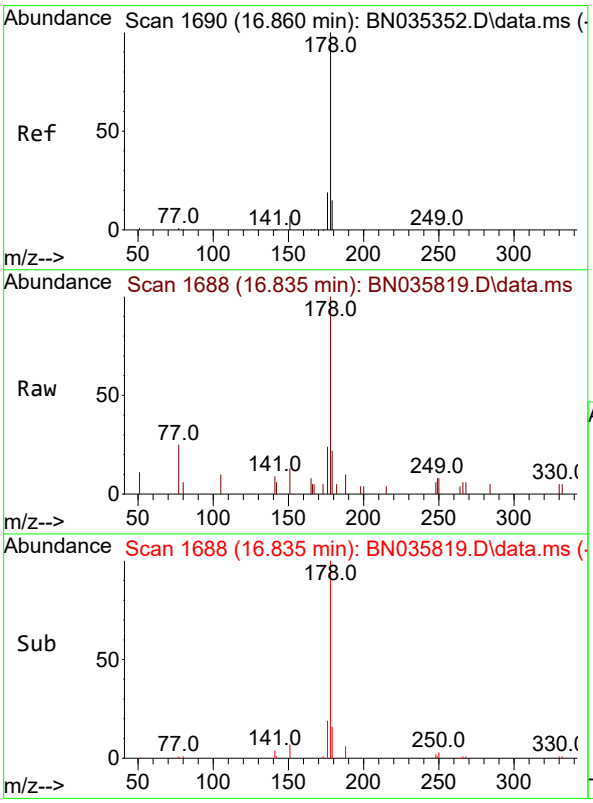
#25
Phenanthrene
Concen: 0.137 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:178 Resp: 3558

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.2
179	16.1	12.3	18.5

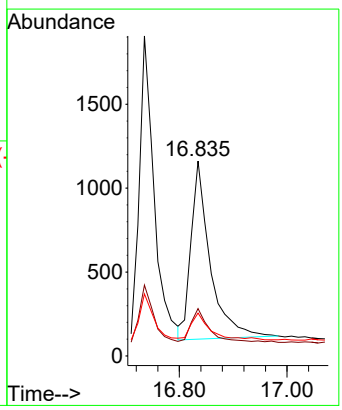


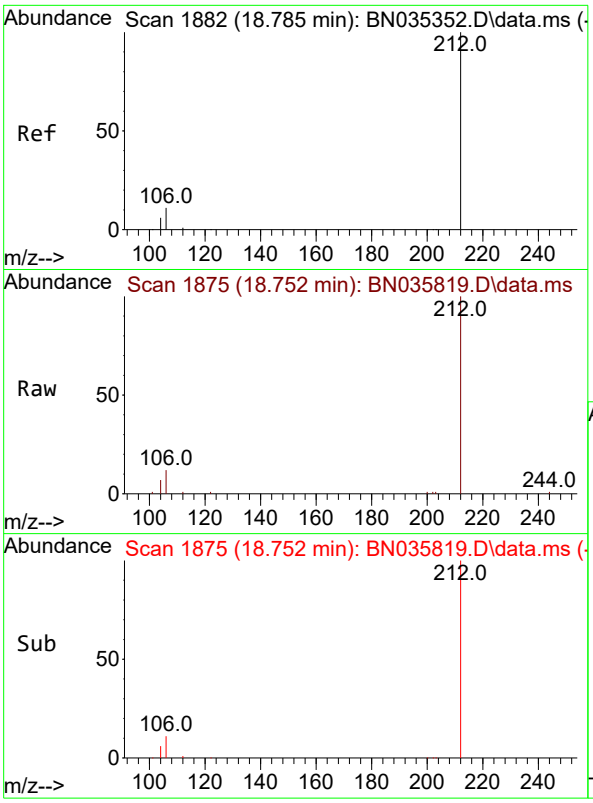


#26
Anthracene
Concen: 0.112 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:178 Resp: 2627

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.0	22.6
179	15.8	12.6	18.8



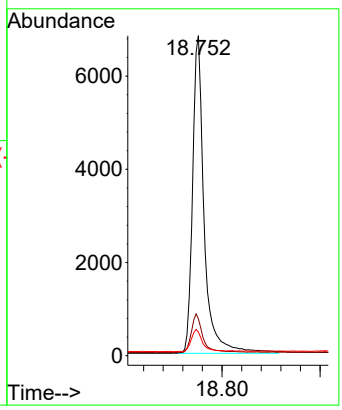


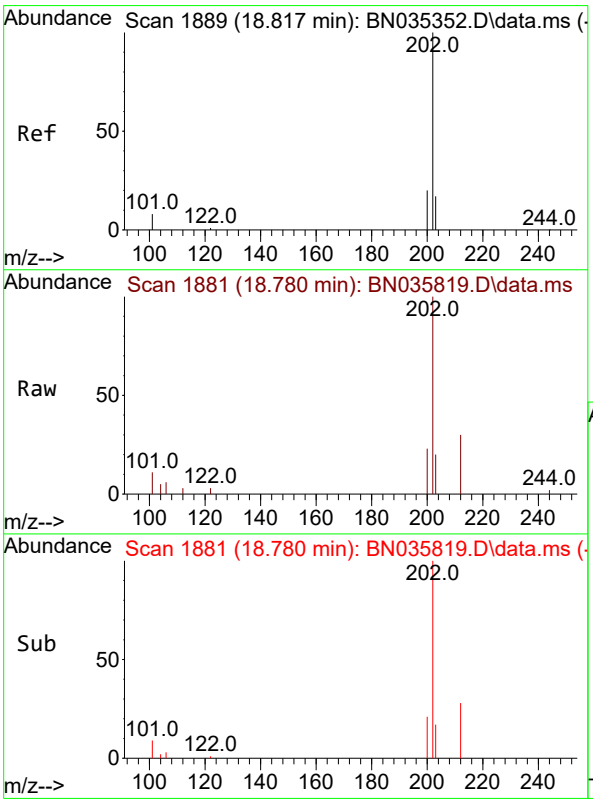
#27
Fluoranthene-d10
Concen: 0.420 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:212 Resp: 11207

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	6.8	5.3	7.9

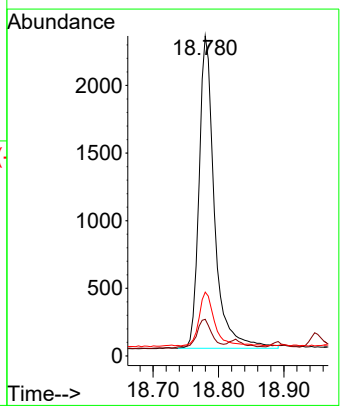


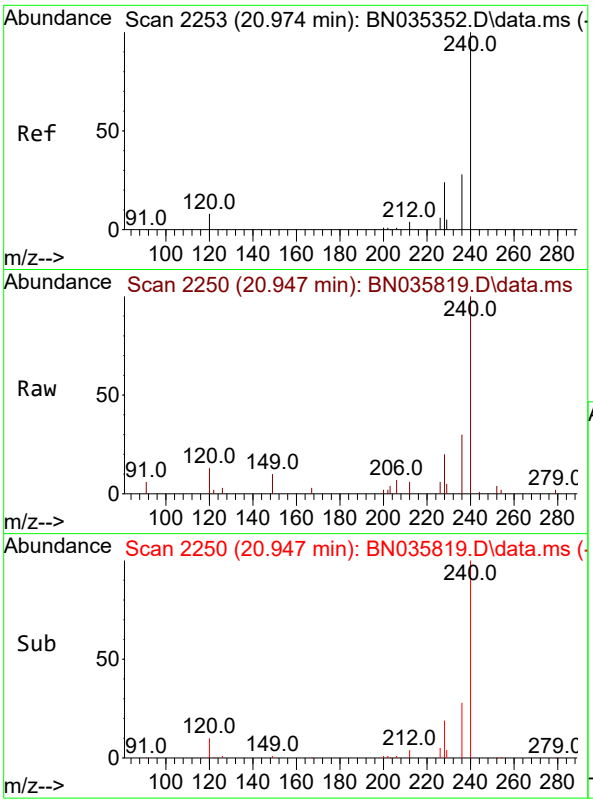


#28
Fluoranthene
Concen: 0.108 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3772

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.9	13.7	20.5



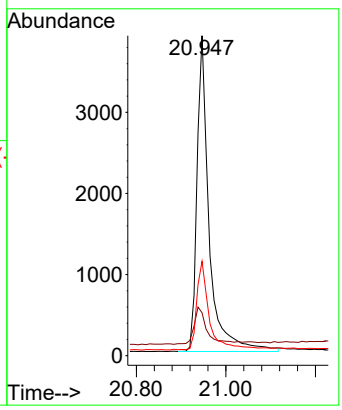


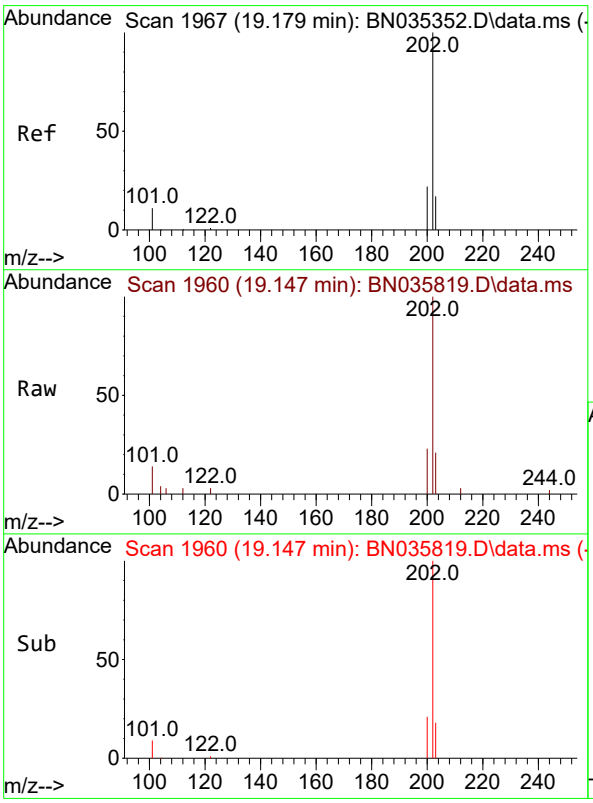
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:240 Resp: 7347

Ion	Ratio	Lower	Upper
240	100		
120	13.4	7.9	11.9#
236	29.5	22.9	34.3

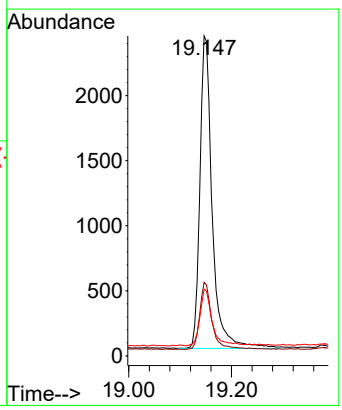


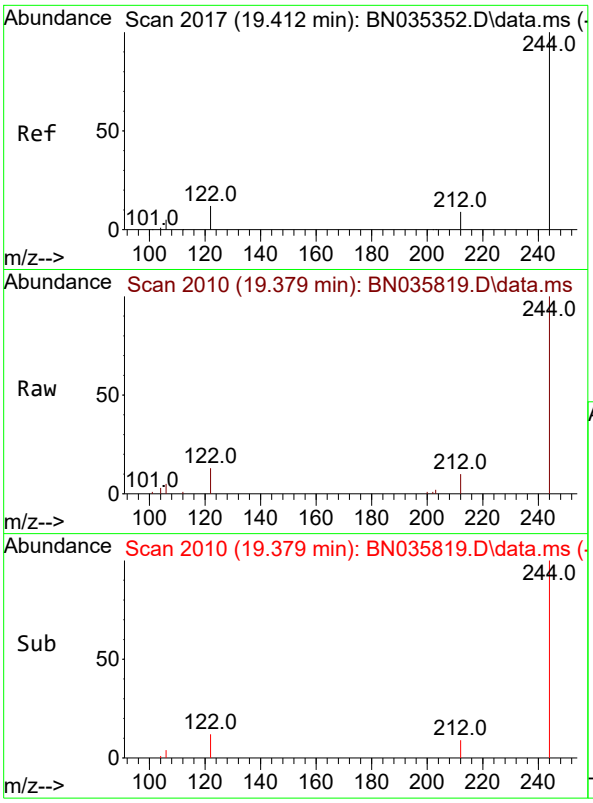


#30
Pyrene
Concen: 0.147 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:202 Resp: 3996

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.7	14.3	21.5



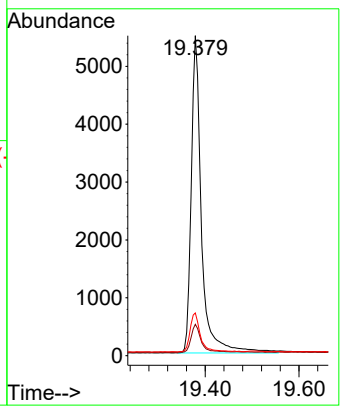


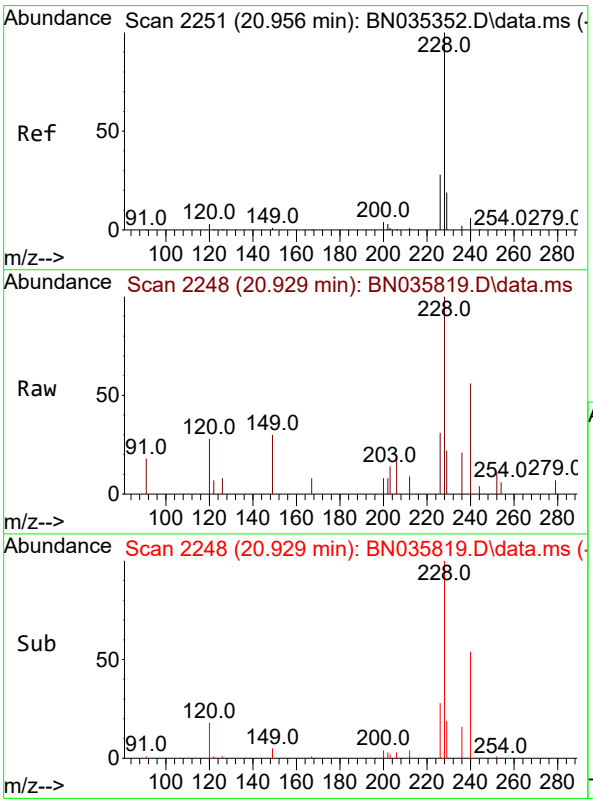
#31
Terphenyl-d14
Concen: 0.573 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:244 Resp: 8308

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	13.3	10.3	15.5

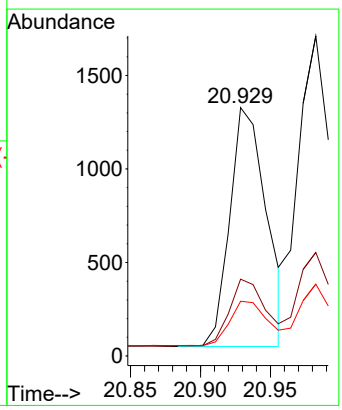


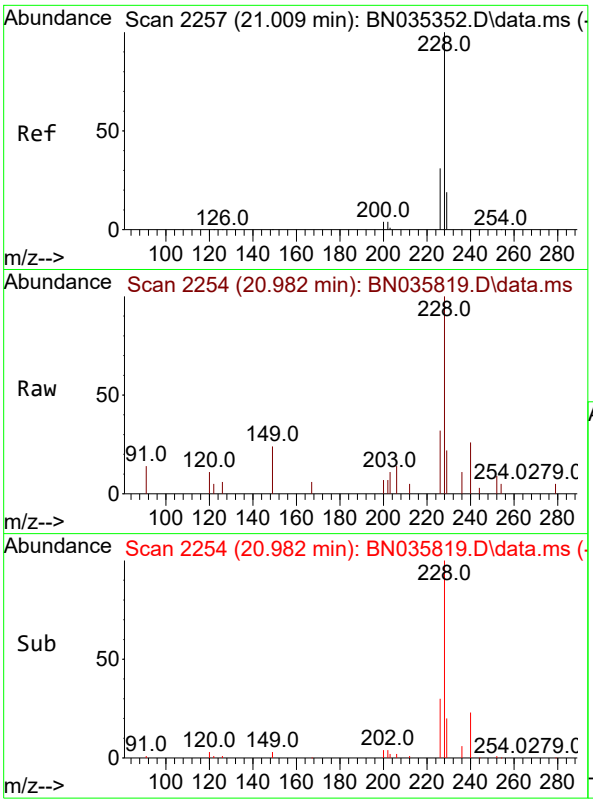


#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:228 Resp: 2328

Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.5	33.7
229	22.1	15.8	23.8



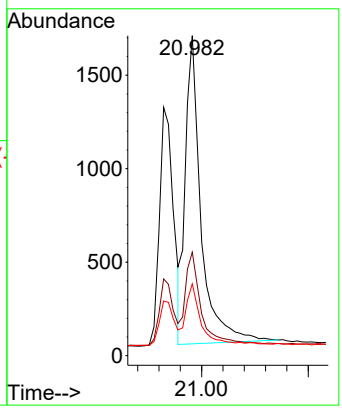


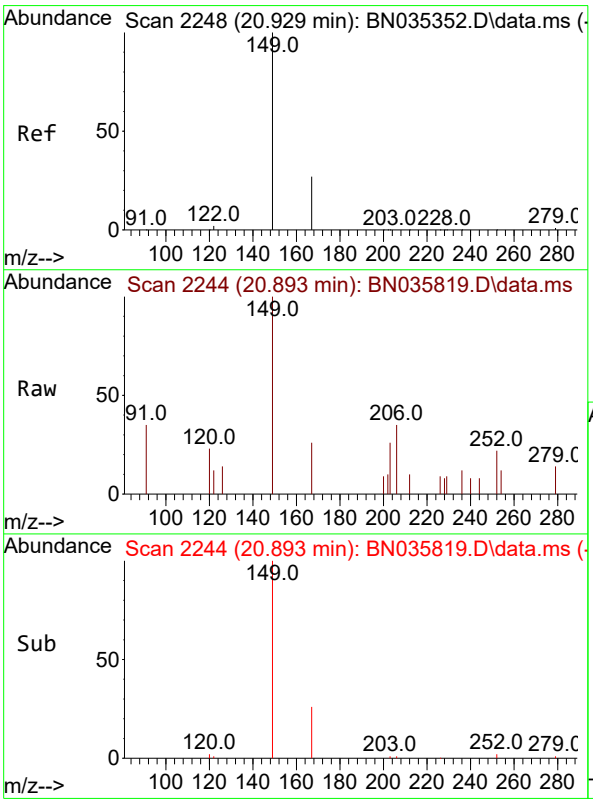
#33
Chrysene
Concen: 0.127 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:228 Resp: 3355

Ion	Ratio	Lower	Upper
228	100		
226	32.4	24.6	37.0
229	22.4	15.9	23.9

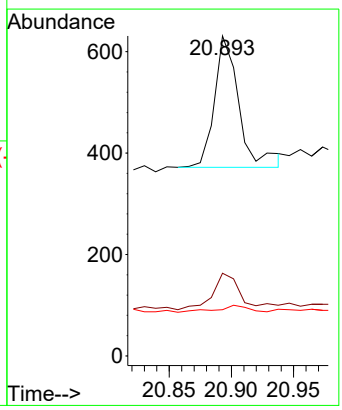


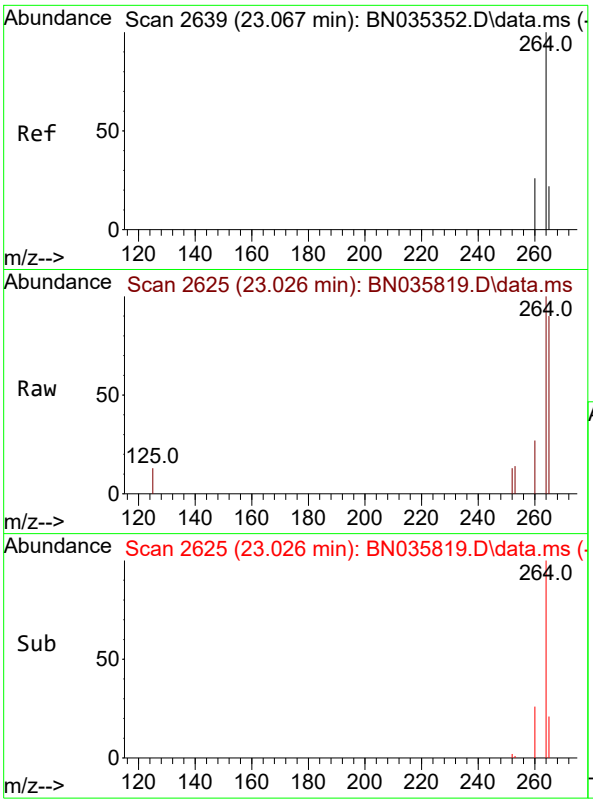


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.035 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:149 Resp: 357

Ion	Ratio	Lower	Upper
149	100		
167	29.4	22.2	33.4
279	6.7	2.7	4.1#



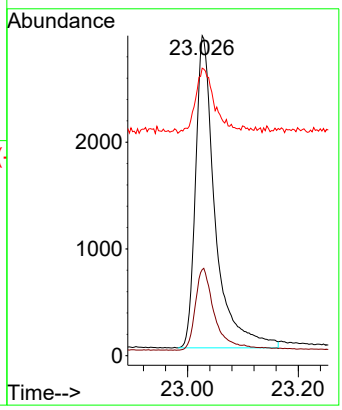


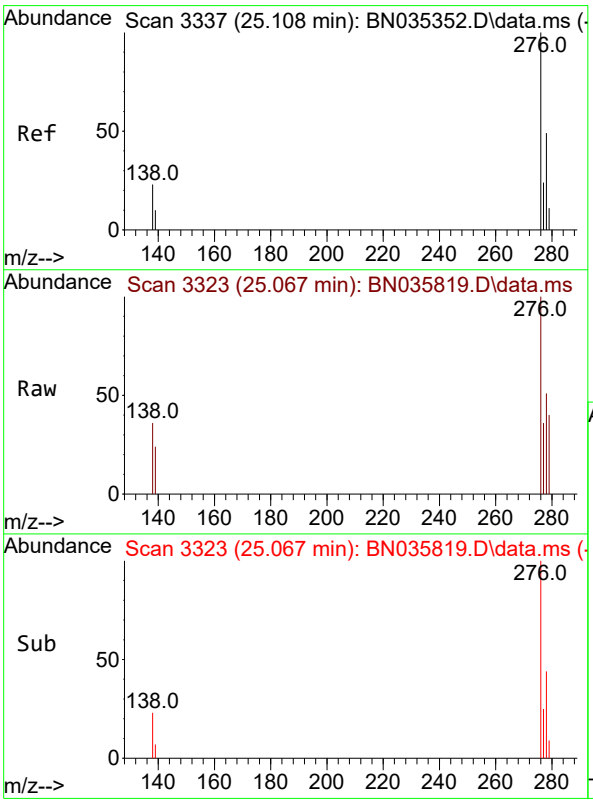
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Tgt Ion:264 Resp: 7210

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	89.9	40.2	60.4#

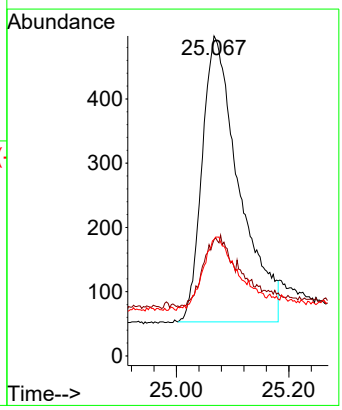


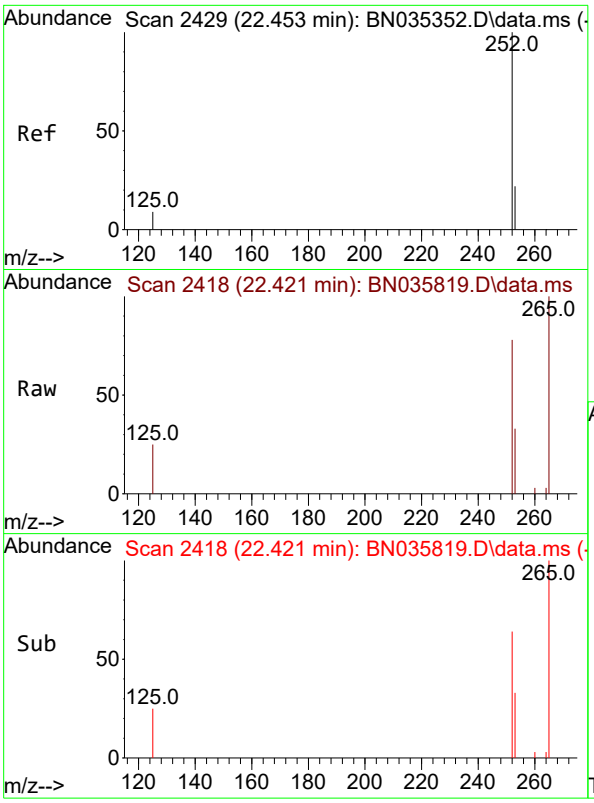


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.072 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:276 Resp: 2032

Ion	Ratio	Lower	Upper
276	100		
138	10.6	19.4	29.0#
277	24.9	19.8	29.6



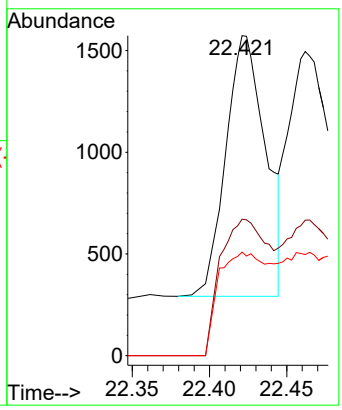


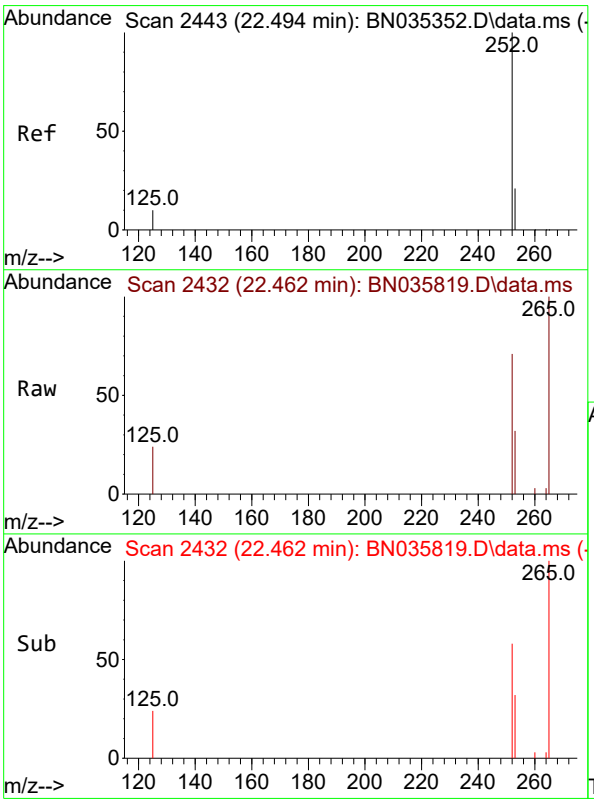
#37
Benzo(b)fluoranthene
Concen: 0.114 ng
RT: 22.421 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174l1-20241218

Tgt Ion:252 Resp: 3012

Ion	Ratio	Lower	Upper
252	100		
253	42.7	19.6	29.4#
125	32.4	9.6	14.4#

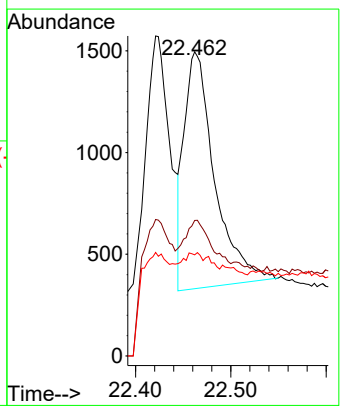


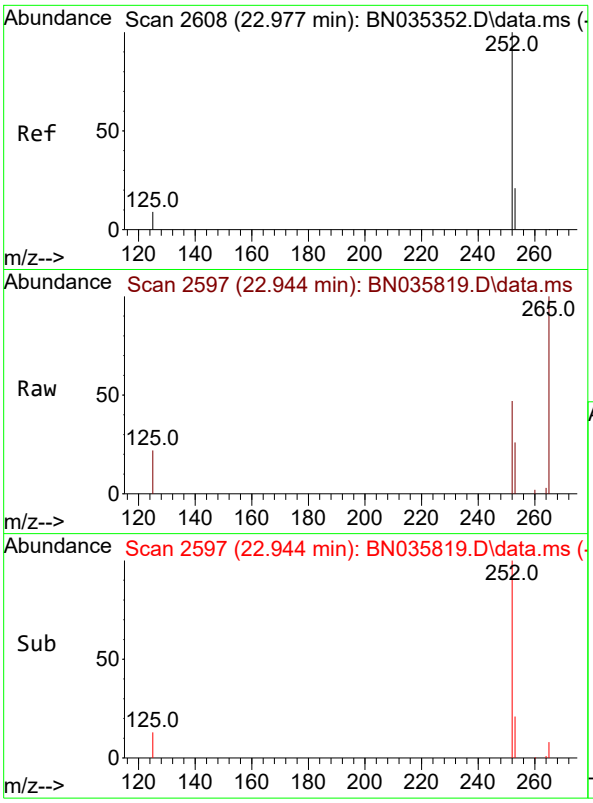


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:252 Resp: 2589

Ion	Ratio	Lower	Upper
252	100		
253	44.5	19.5	29.3#
125	33.2	10.2	15.4#



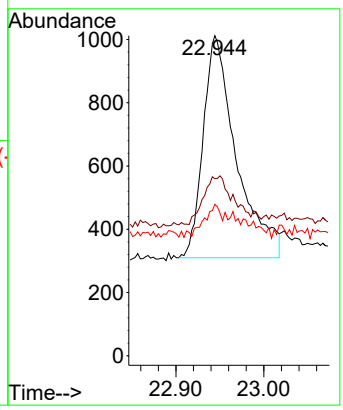


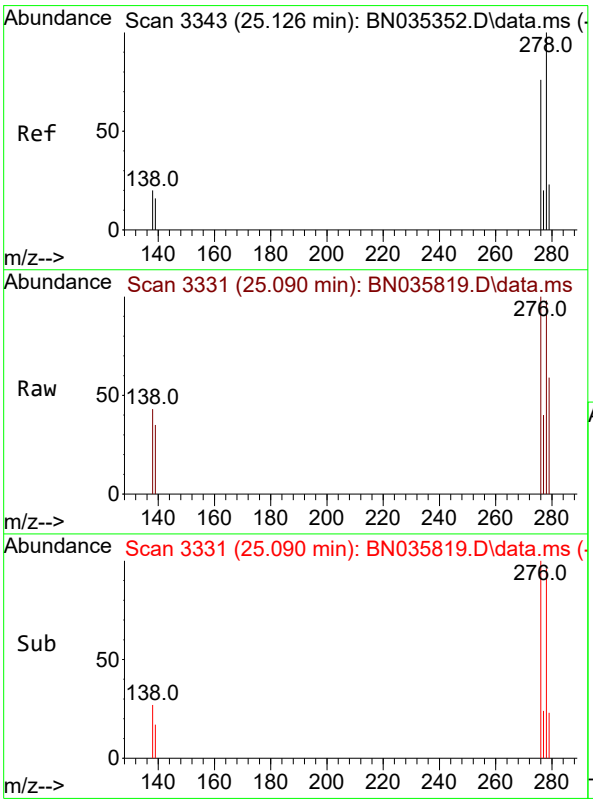
#39
Benzo(a)pyrene
Concen: 0.085 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Tgt Ion:252 Resp: 1842

Ion	Ratio	Lower	Upper
252	100		
253	55.3	20.2	30.4#
125	47.3	10.9	16.3#

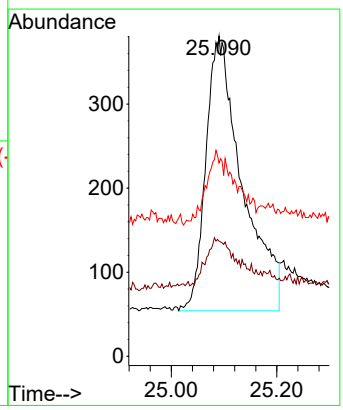


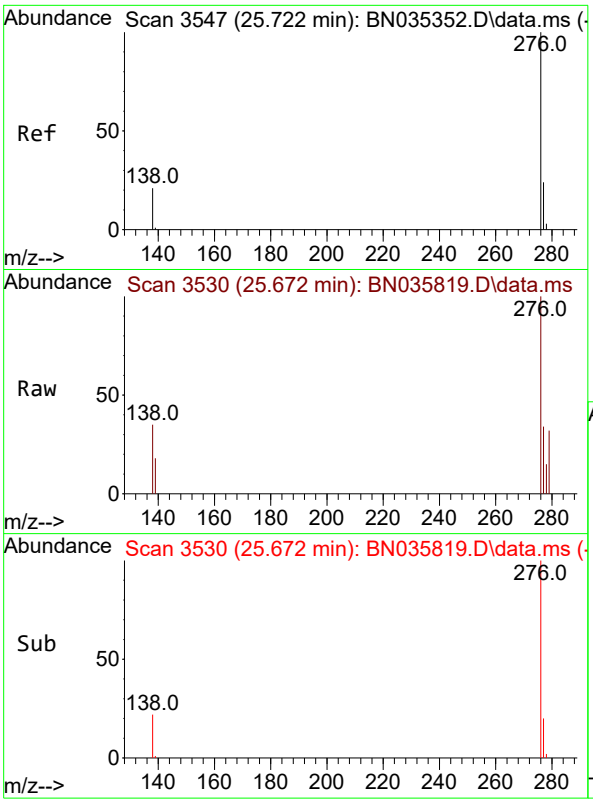


#40
Dibenzo(a,h)anthracene
Concen: 0.070 ng
RT: 25.090 min Scan# 3331
Delta R.T. 0.008 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Tgt Ion:278 Resp: 1565

Ion	Ratio	Lower	Upper
278	100		
139	36.0	14.2	21.4#
279	60.4	20.5	30.7#



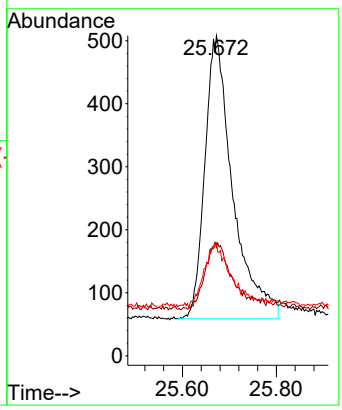


#41
Benzo(g,h,i)perylene
Concen: 0.080 ng
RT: 25.672 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035819.D
Acq: 24 Dec 2024 13:44

Instrument :
BNA_N
ClientSampleId :
TT174I1-20241218

Tgt Ion:276 Resp: 1852

Ion	Ratio	Lower	Upper
276	100		
277	33.9	19.9	29.9#
138	35.2	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035820.D
Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

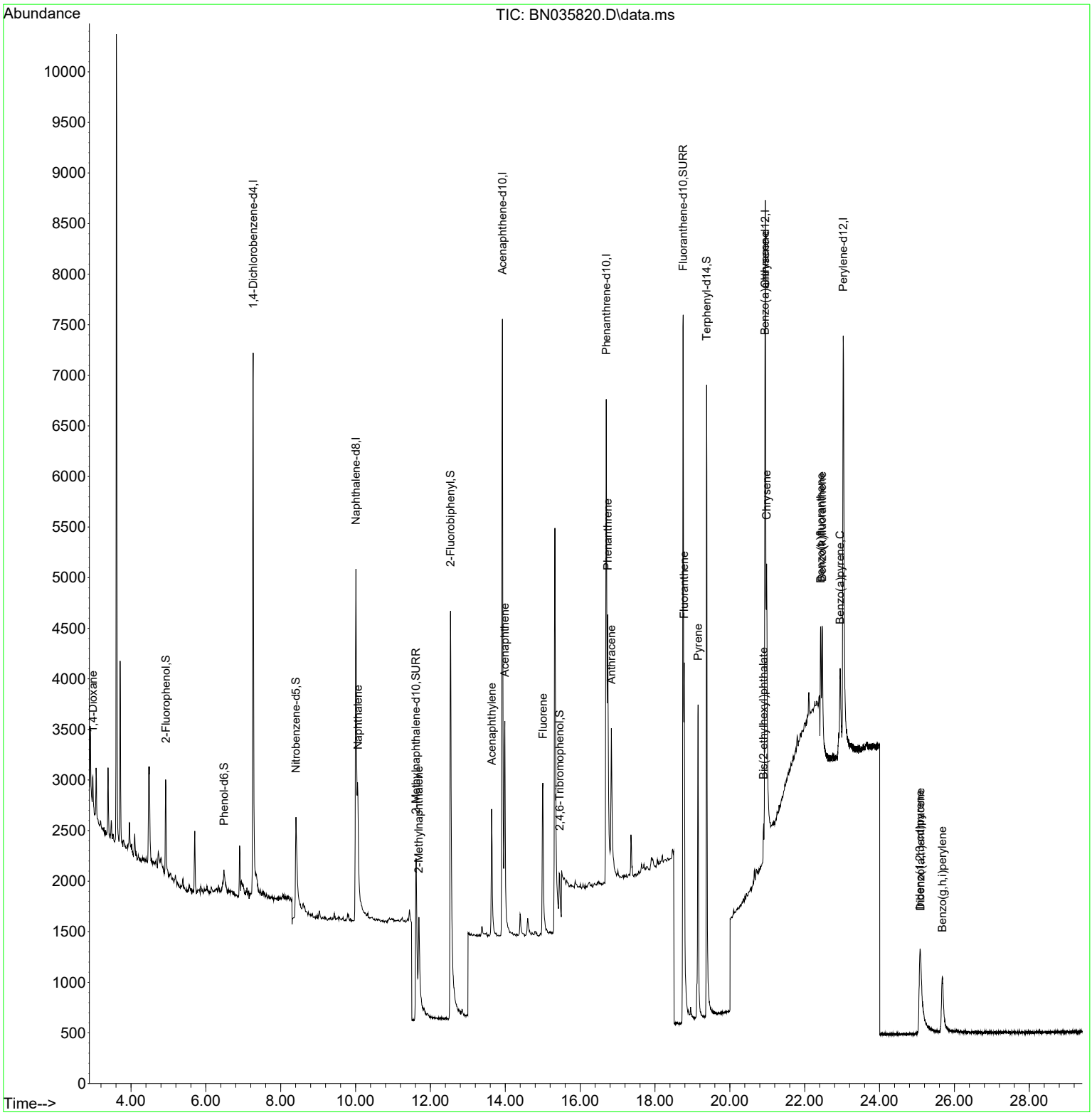
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3143	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7176	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4458	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8922	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7054	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6962	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.931	112	917	0.117	ng	0.00
5) Phenol-d6	6.484	99	441	0.047	ng	0.00
8) Nitrobenzene-d5	8.408	82	2026	0.462	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	4238	0.377	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	621	0.196	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6805	0.404	ng	0.00
27) Fluoranthene-d10	18.752	212	10147	0.401	ng	0.00
31) Terphenyl-d14	19.379	244	7626	0.548	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	288	0.096	ng	# 82
9) Naphthalene	10.062	128	1741	0.092	ng	# 85
12) 2-Methylnaphthalene	11.692	142	1119	0.083	ng	# 90
16) Acenaphthylene	13.636	152	1929	0.103	ng	99
17) Acenaphthene	13.988	154	1200	0.097	ng	99
18) Fluorene	15.004	166	1564	0.088	ng	100
25) Phenanthrene	16.735	178	2911	0.119	ng	98
26) Anthracene	16.835	178	2107	0.095	ng	97
28) Fluoranthene	18.780	202	3244	0.098	ng	100
30) Pyrene	19.151	202	3281	0.126	ng	99
32) Benzo(a)anthracene	20.938	228	2057	0.083	ng	94
33) Chrysene	20.982	228	2719	0.107	ng	95
34) Bis(2-ethylhexyl)phtha...	20.902	149	426	0.044	ng	# 88
36) Indeno(1,2,3-cd)pyrene	25.076	276	1756	0.065	ng	# 79
37) Benzo(b)fluoranthene	22.427	252	2679	0.105	ng	# 52
38) Benzo(k)fluoranthene	22.465	252	2384	0.095	ng	# 51
39) Benzo(a)pyrene	22.947	252	1551	0.074	ng	# 24
40) Dibenzo(a,h)anthracene	25.093	278	1312	0.061	ng	# 29
41) Benzo(g,h,i)perylene	25.675	276	1511	0.067	ng	# 72

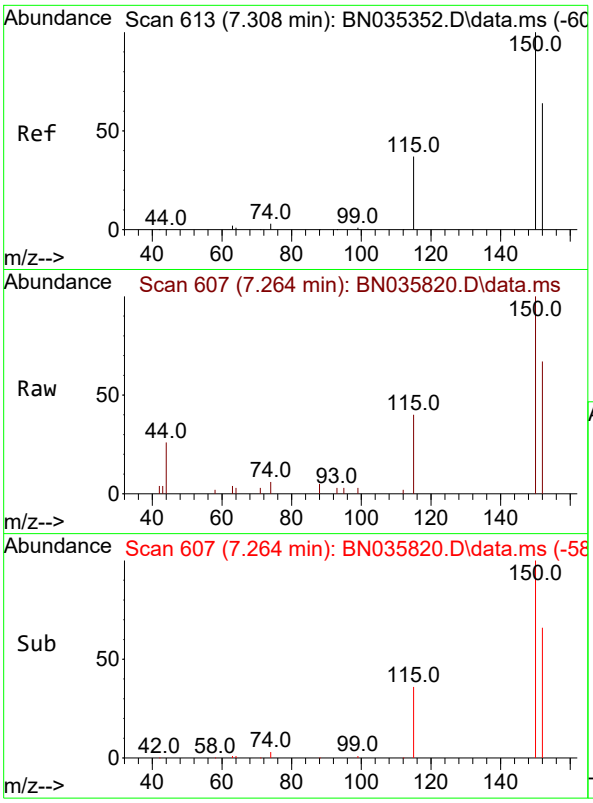
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035820.D
Acq On : 24 Dec 2024 14:19
Operator : RC/JU
Sample : P5376-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Quant Time: Dec 24 23:18:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



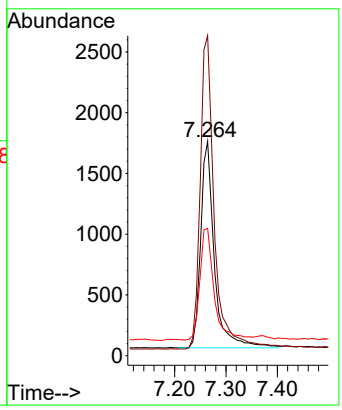


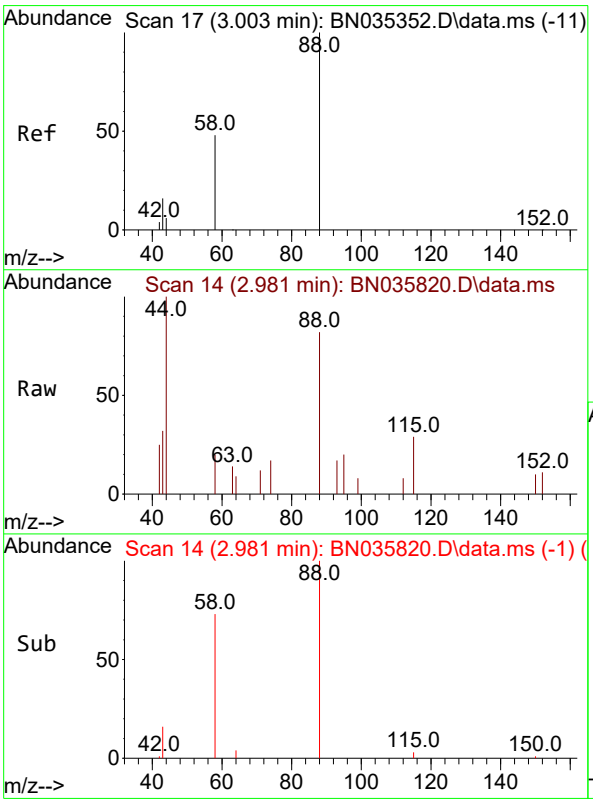
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:152 Resp: 3143

Ion	Ratio	Lower	Upper
152	100		
150	149.4	124.0	186.0
115	59.5	49.6	74.4

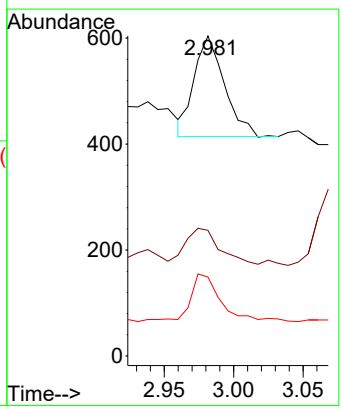


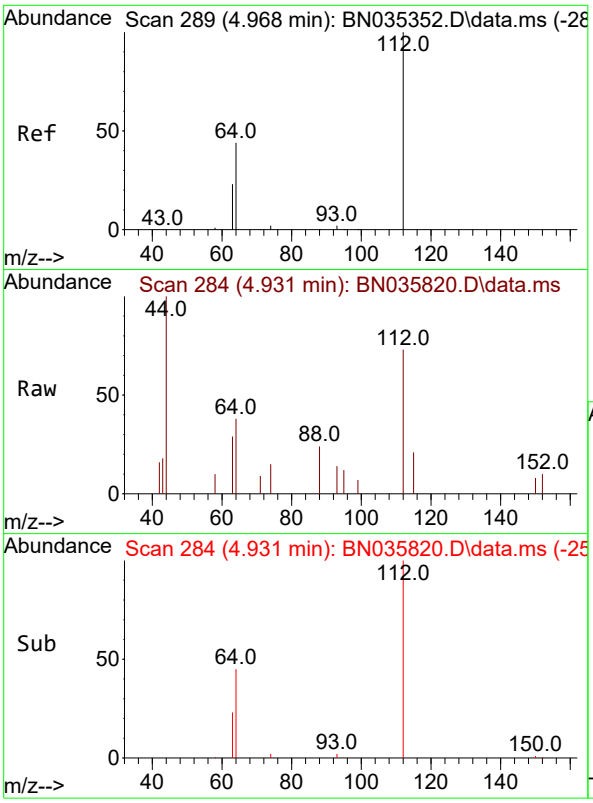


#2
1,4-Dioxane
Concen: 0.096 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 88 Resp: 288

Ion	Ratio	Lower	Upper
88	100		
43	39.6	17.2	25.8#
58	48.3	44.5	66.7



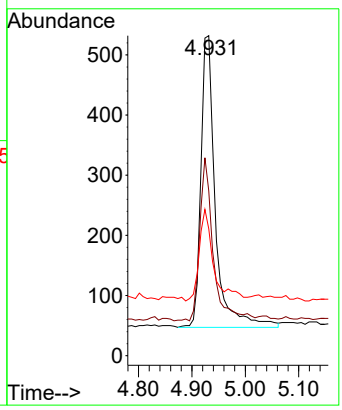


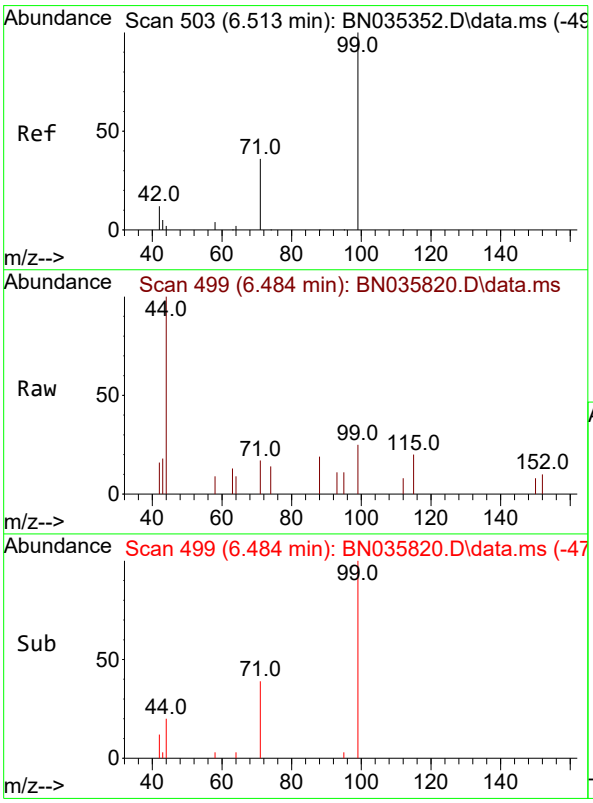
#4
2-Fluorophenol
Concen: 0.117 ng
RT: 4.931 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:112 Resp: 917

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	31.2	21.0	31.6

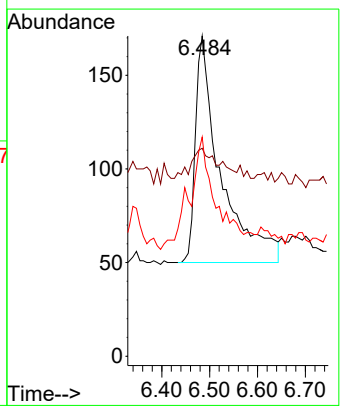


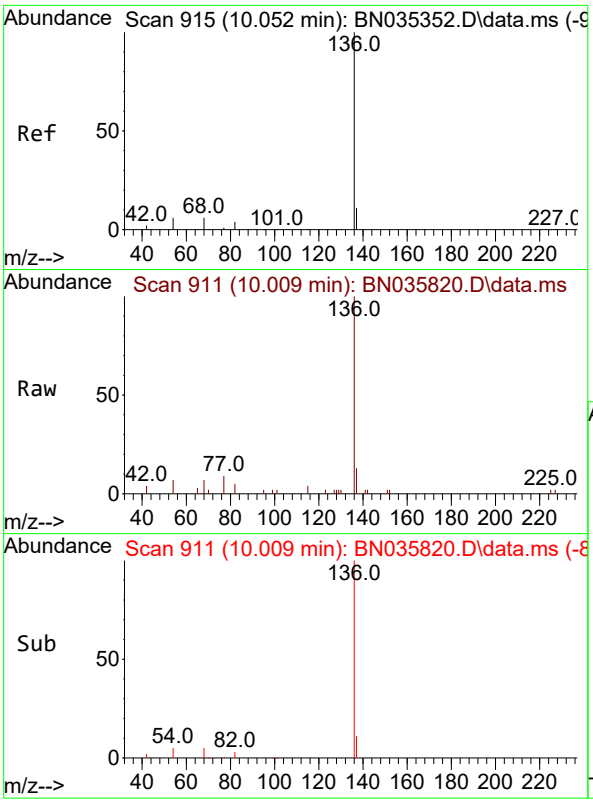


#5
Phenol-d6
Concen: 0.047 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 99 Resp: 441

Ion	Ratio	Lower	Upper
99	100		
42	13.8	11.4	17.2
71	54.9	29.3	43.9#



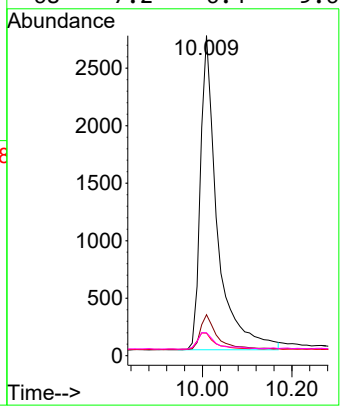


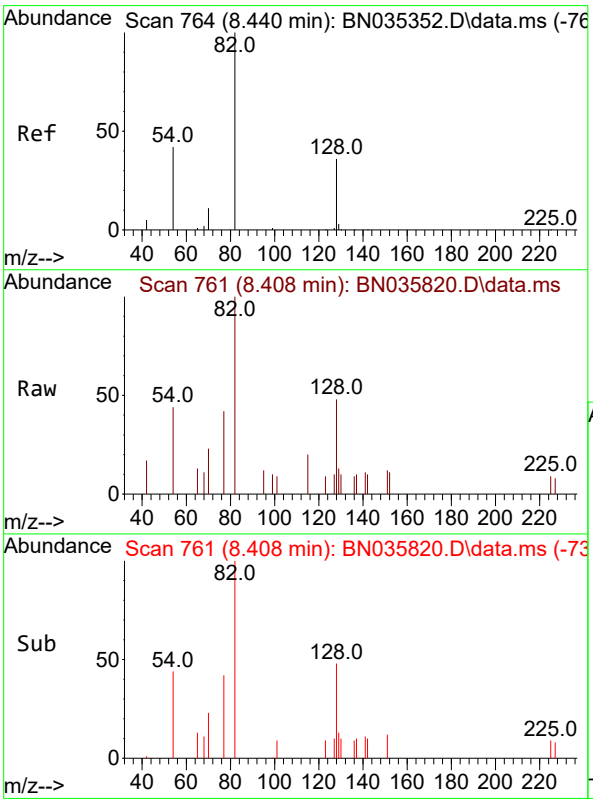
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:136 Resp: 7176

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	7.1	6.1	9.1
68	7.2	6.4	9.6

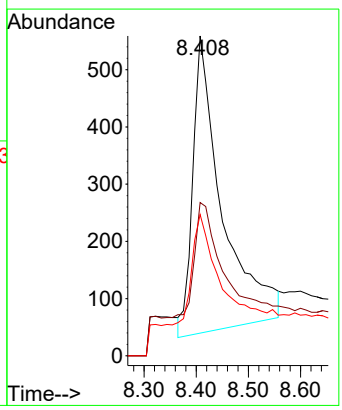


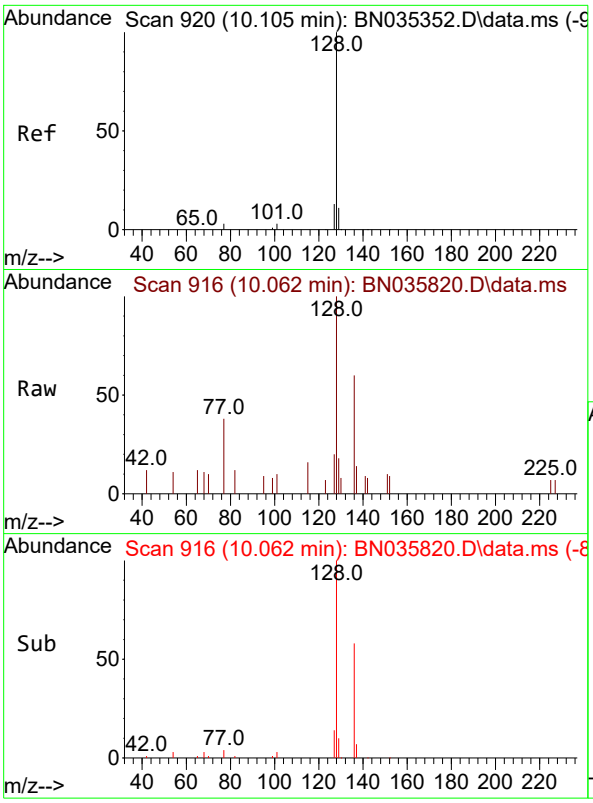


#8
Nitrobenzene-d5
Concen: 0.462 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion: 82 Resp: 2026

Ion	Ratio	Lower	Upper
82	100		
128	47.9	33.4	50.0
54	44.2	36.7	55.1



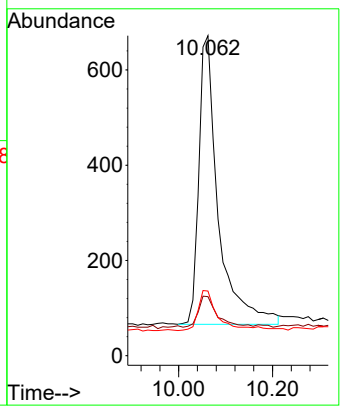


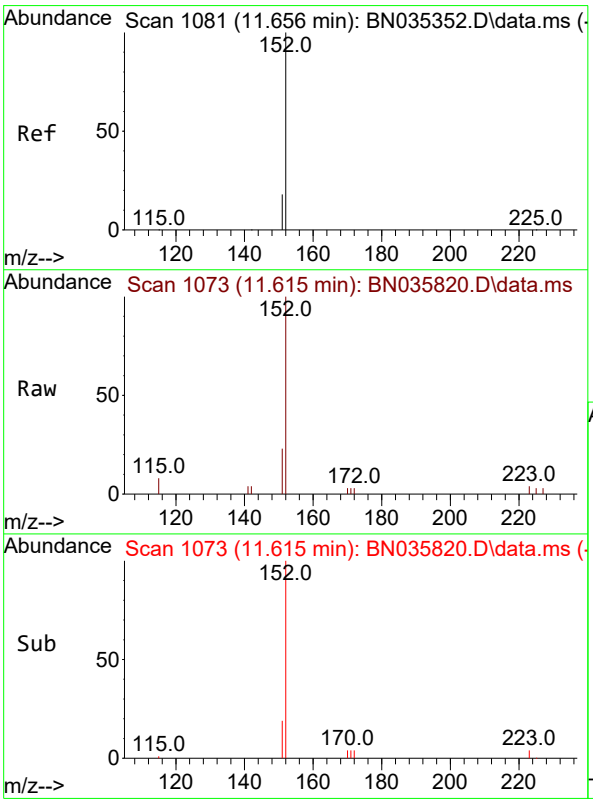
#9
Naphthalene
Concen: 0.092 ng
RT: 10.062 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:128 Resp: 1741

Ion	Ratio	Lower	Upper
128	100		
129	18.5	9.8	14.6#
127	20.2	11.4	17.2#

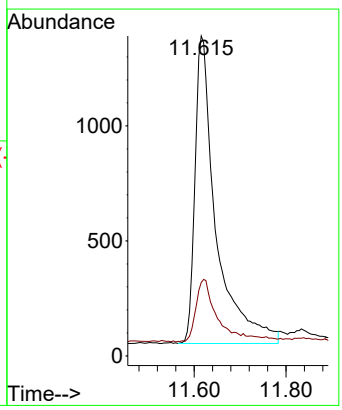


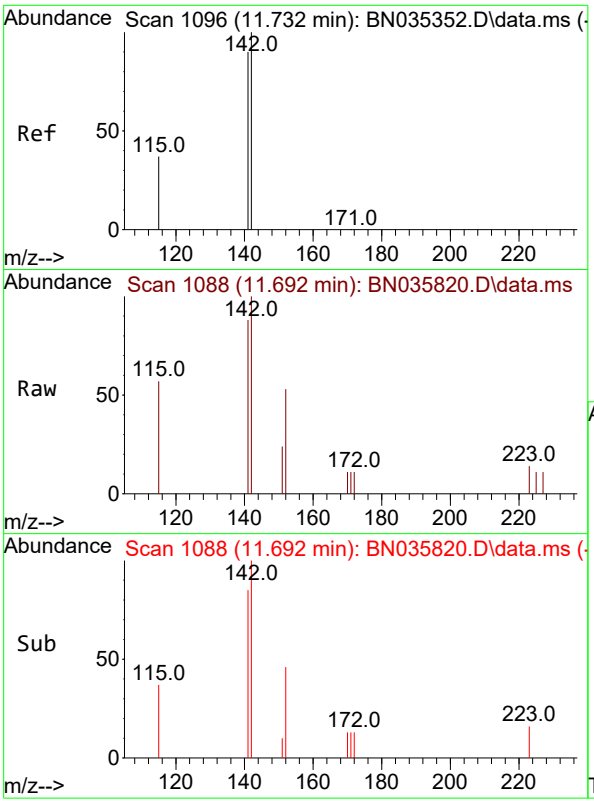


#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 11.615 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:152 Resp: 4238

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	25.0



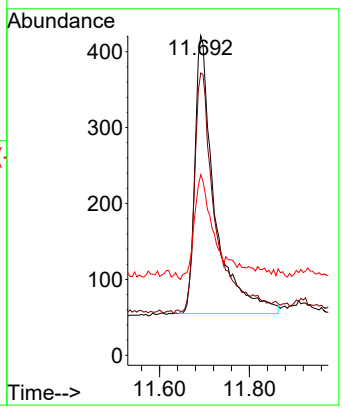


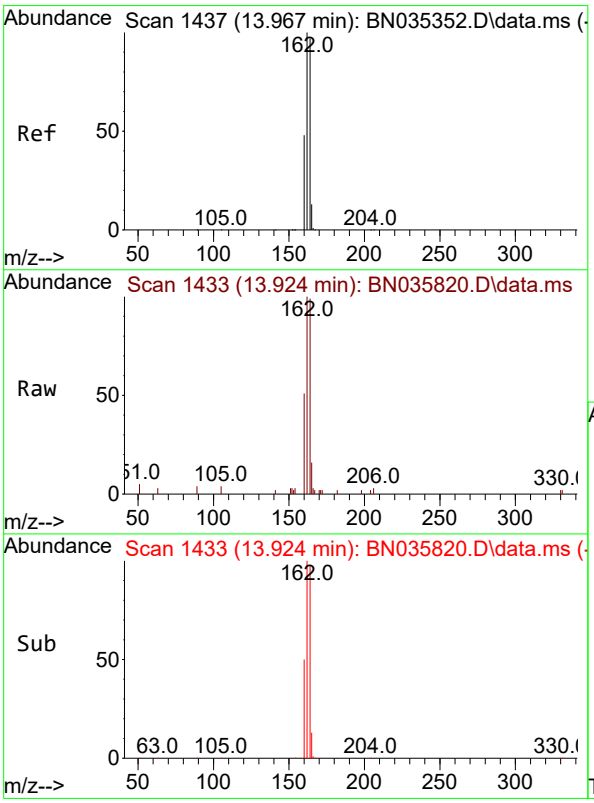
#12
2-Methylnaphthalene
Concen: 0.083 ng
RT: 11.692 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:142 Resp: 1119

Ion	Ratio	Lower	Upper
142	100		
141	88.4	72.2	108.4
115	56.5	31.4	47.0#

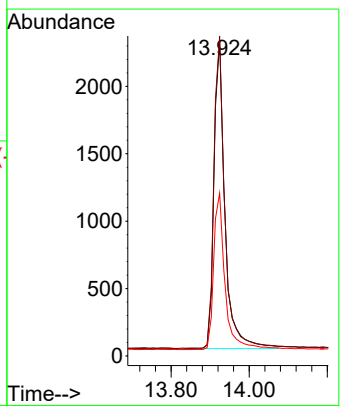


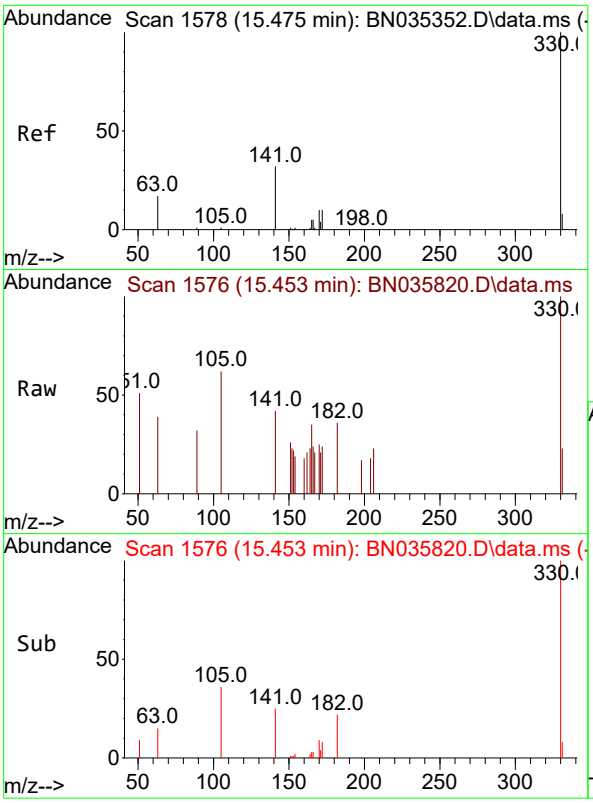


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:164 Resp: 4458

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	51.7	40.1	60.1



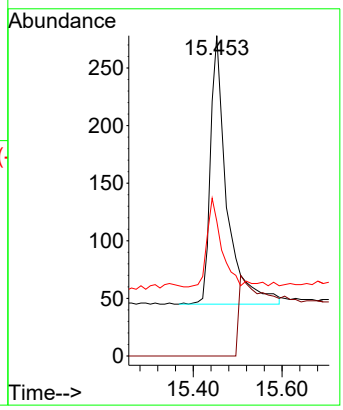


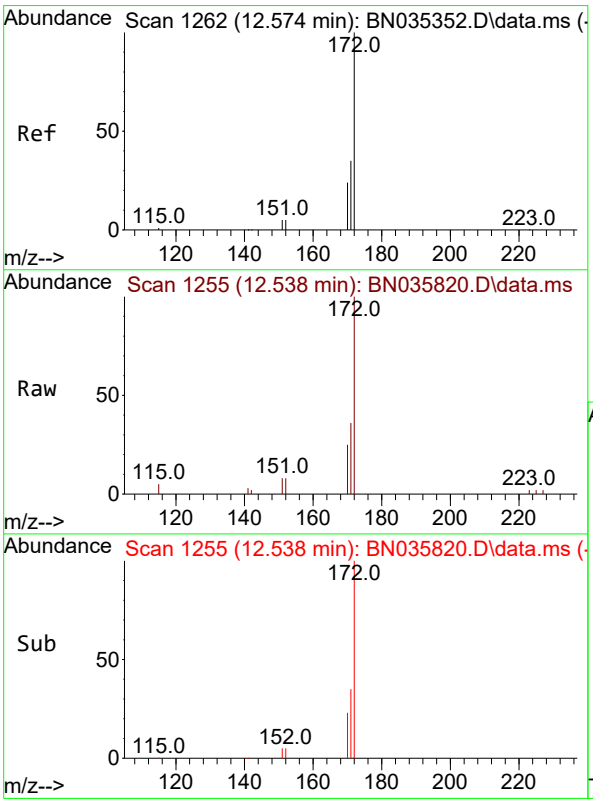
#14
2,4,6-Tribromophenol
Concen: 0.196 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:330 Resp: 621

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.7	26.6	40.0

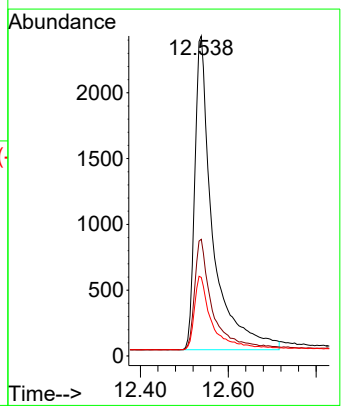


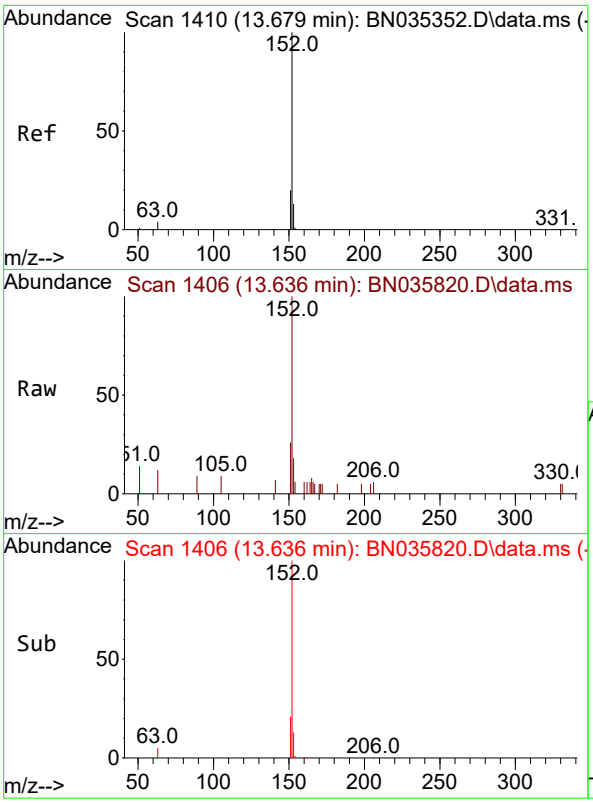


#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.538 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:172 Resp: 6805

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.5	19.8	29.8



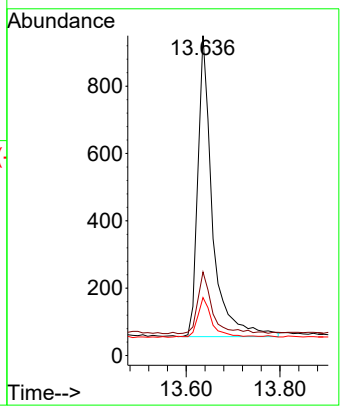


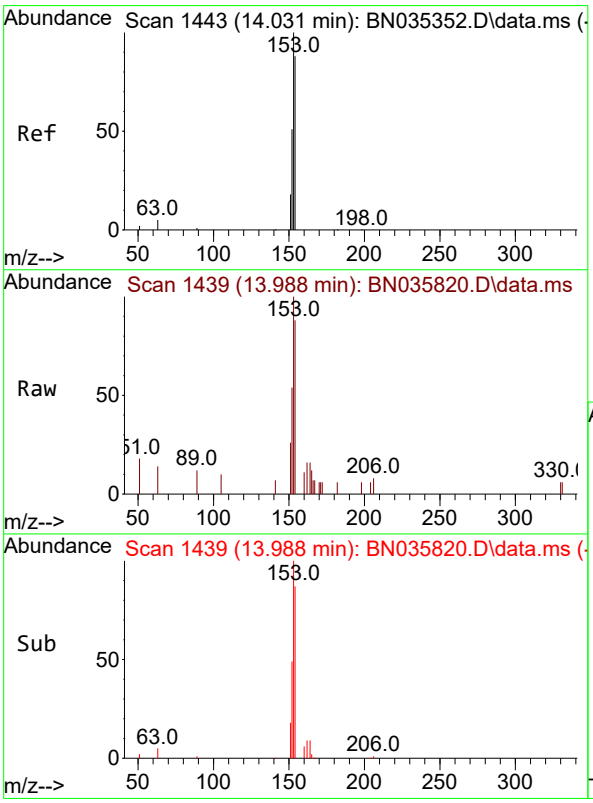
#16
Acenaphthylene
Concen: 0.103 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:152 Resp: 1929

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.3	10.4	15.6

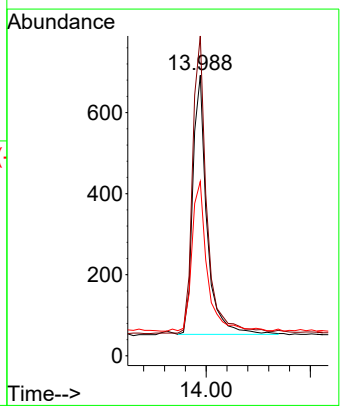


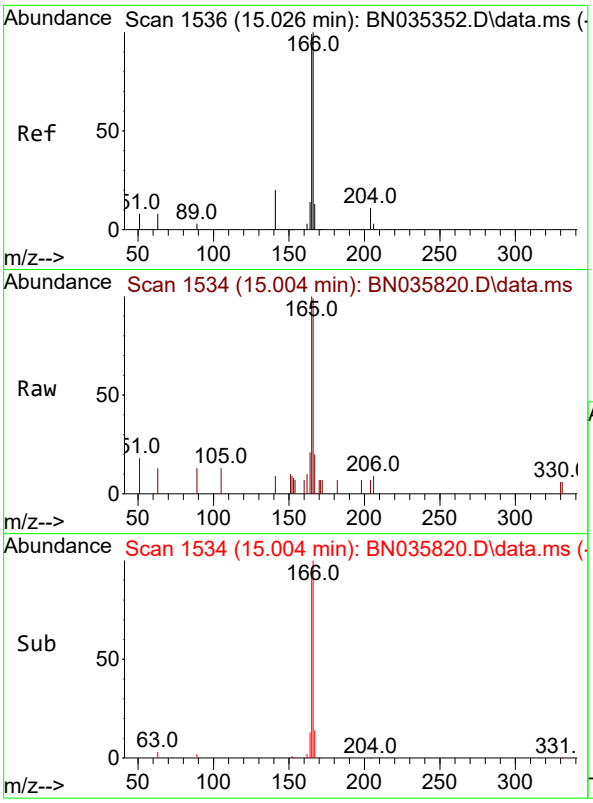


#17
Acenaphthene
Concen: 0.097 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:154 Resp: 1200

Ion	Ratio	Lower	Upper
154	100		
153	115.5	92.6	139.0
152	62.3	49.0	73.6



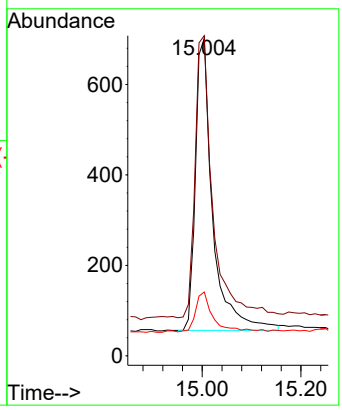


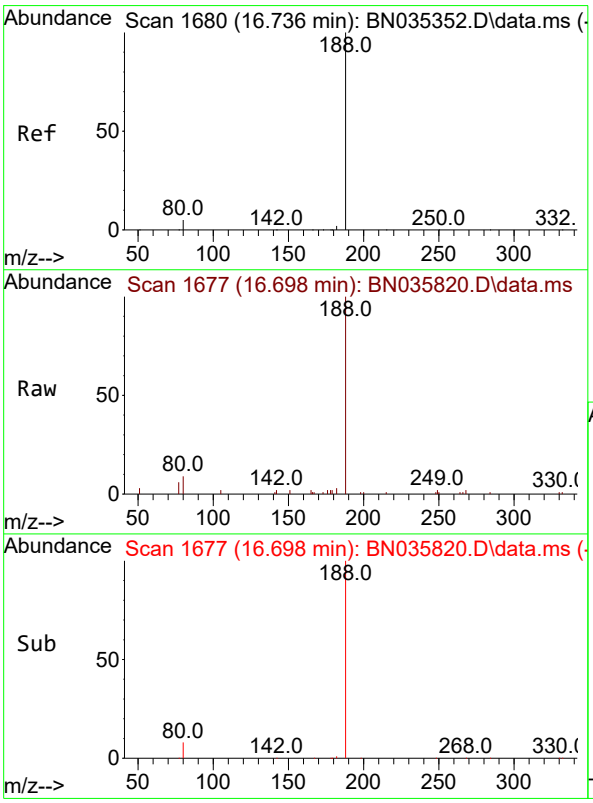
#18
Fluorene
Concen: 0.088 ng
RT: 15.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:166 Resp: 1564

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.7	119.5
167	13.8	10.8	16.2

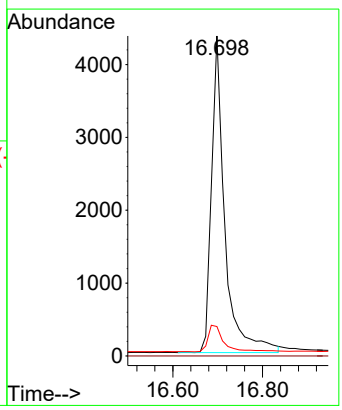


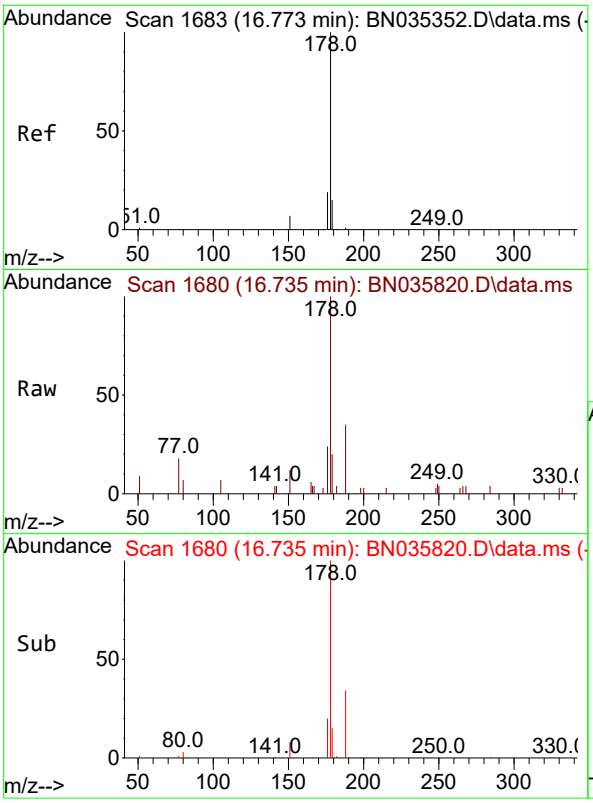


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:188 Resp: 8922

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8#



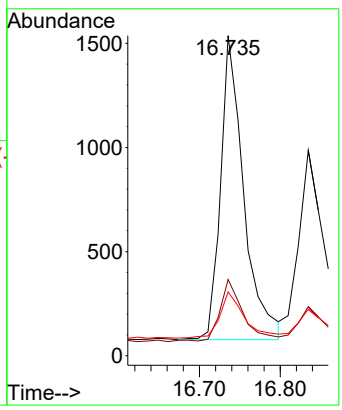


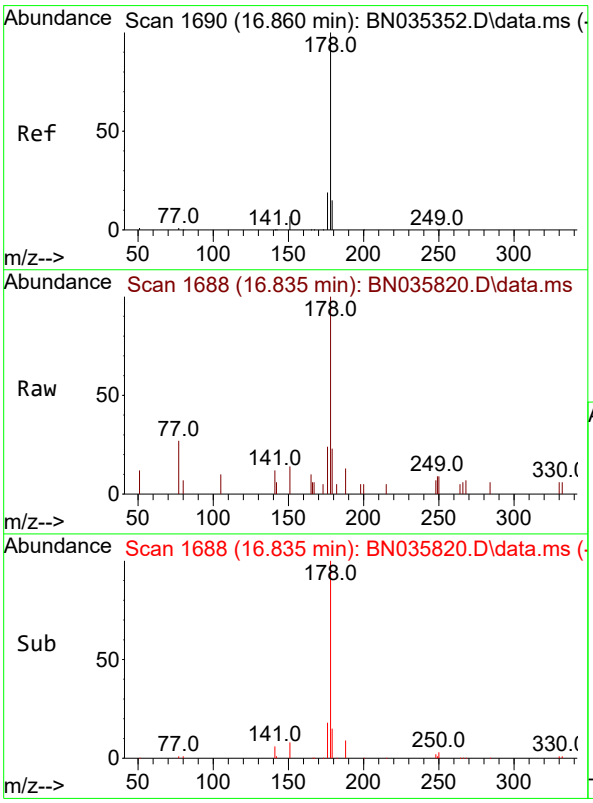
#25
Phenanthrene
Concen: 0.119 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:178 Resp: 2911

Ion	Ratio	Lower	Upper
178	100		
176	20.8	15.4	23.2
179	15.9	12.3	18.5

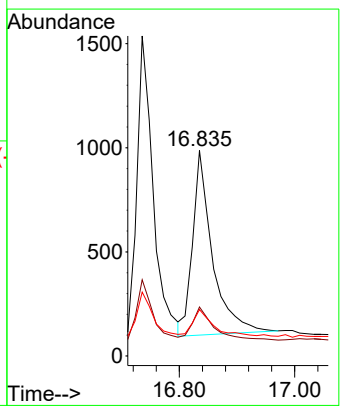


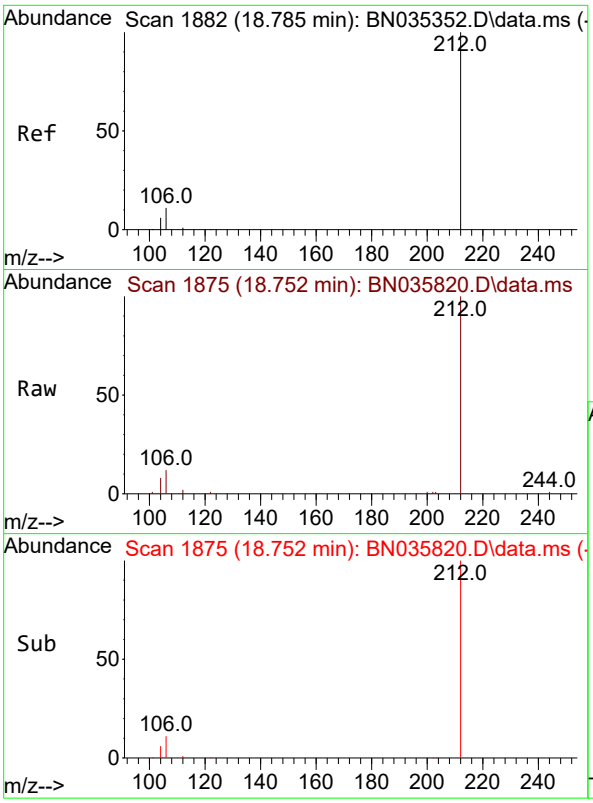


#26
Anthracene
Concen: 0.095 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:178 Resp: 2107

Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.0	22.6
179	16.5	12.6	18.8



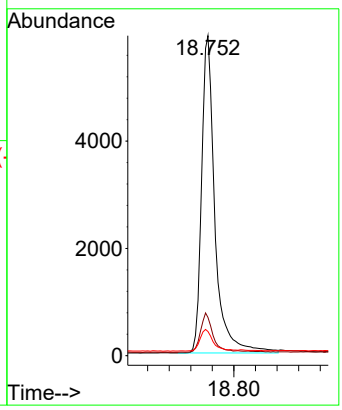


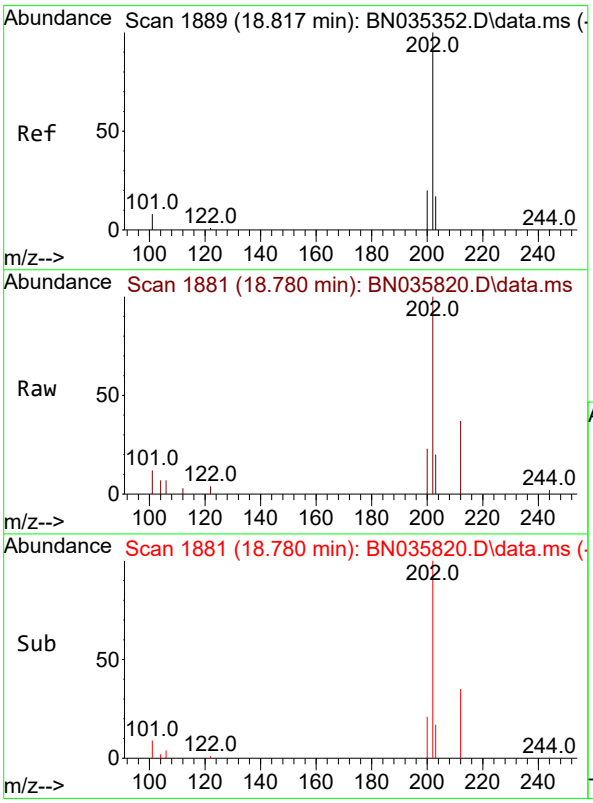
#27
Fluoranthene-d10
Concen: 0.401 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:212 Resp: 10147

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	6.6	5.3	7.9

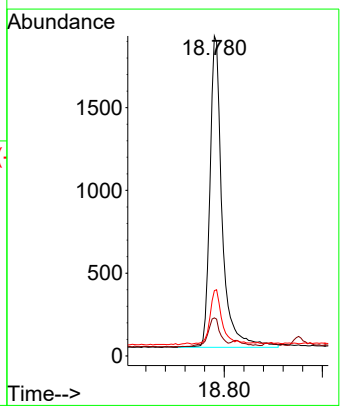


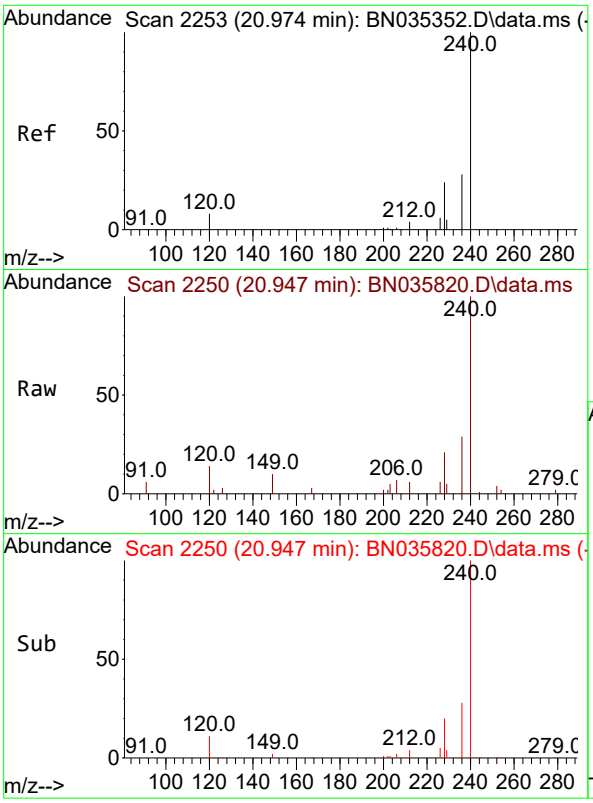


#28
Fluoranthene
Concen: 0.098 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:202 Resp: 3244

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.2	13.7	20.5



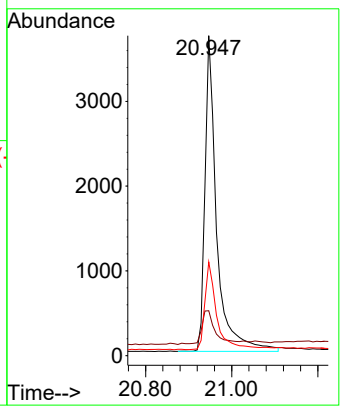


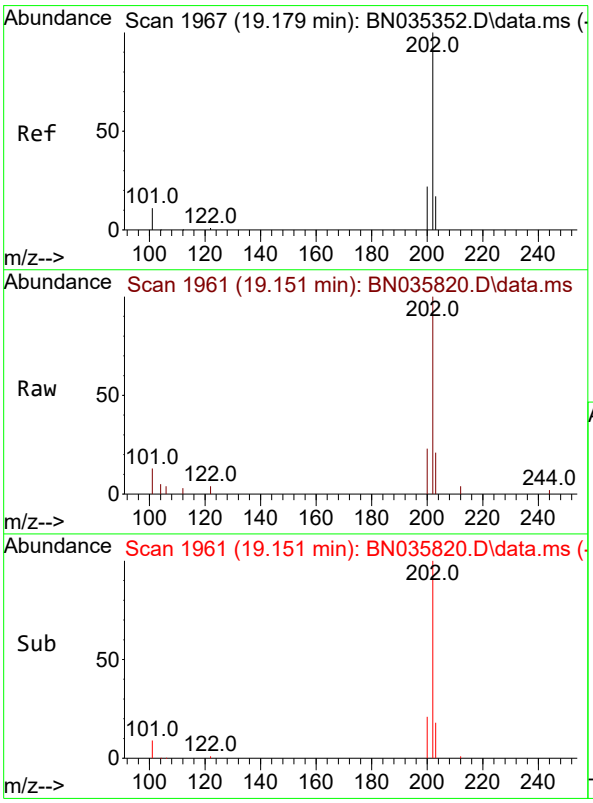
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:240 Resp: 7054

Ion	Ratio	Lower	Upper
240	100		
120	14.1	7.9	11.9#
236	29.3	22.9	34.3

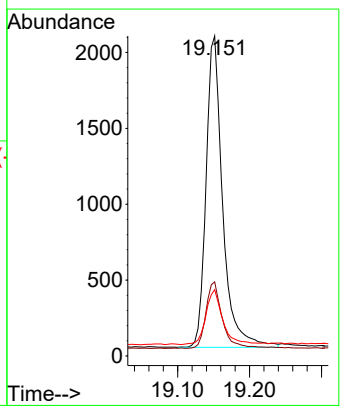


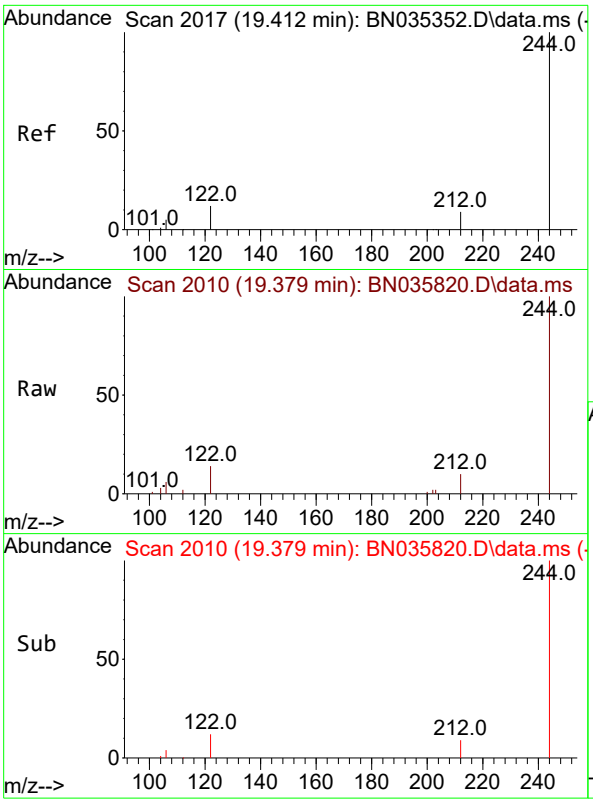


#30
Pyrene
Concen: 0.126 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:202 Resp: 3281

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.1	14.3	21.5



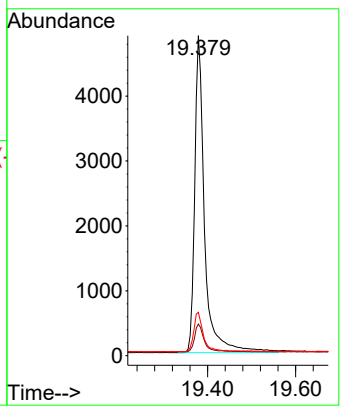


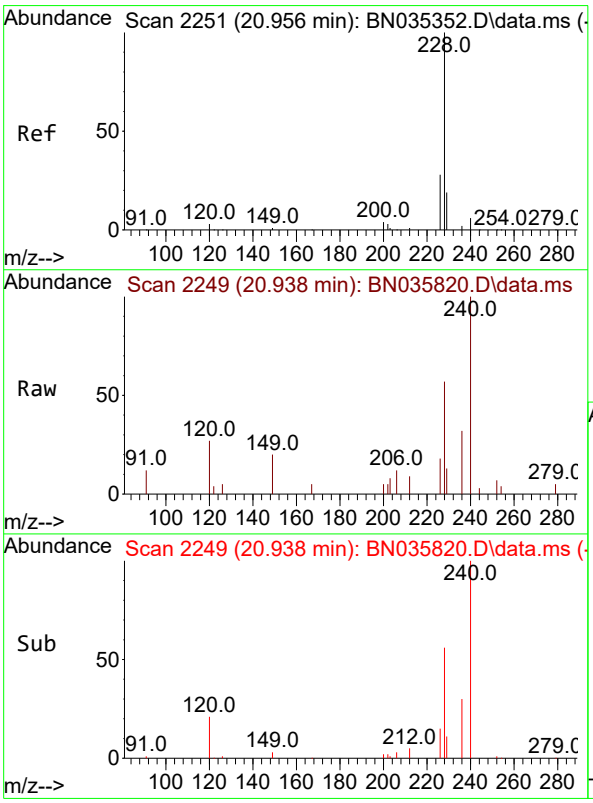
#31
Terphenyl-d14
Concen: 0.548 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:244 Resp: 7626

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.5	10.3	15.5

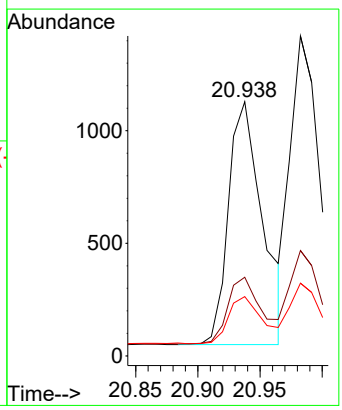


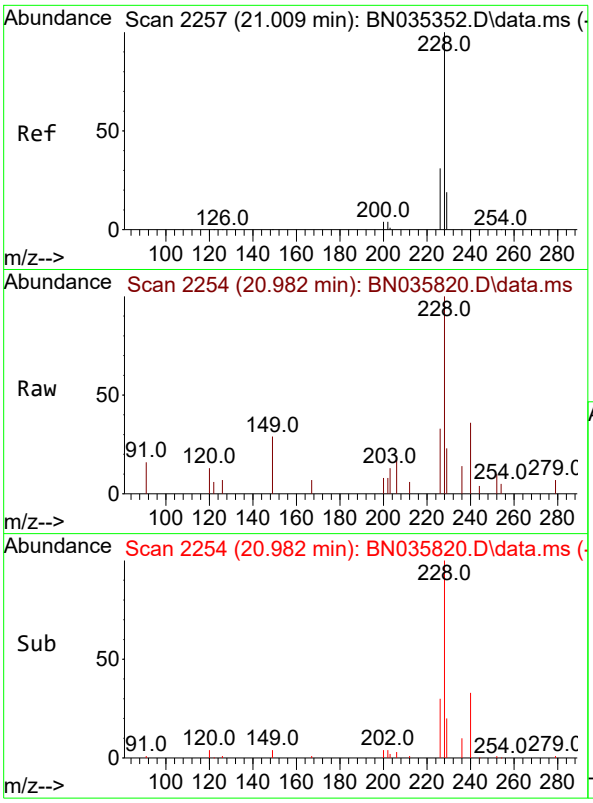


#32
Benzo(a)anthracene
Concen: 0.083 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:228 Resp: 2057

Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.5	33.7
229	23.3	15.8	23.8



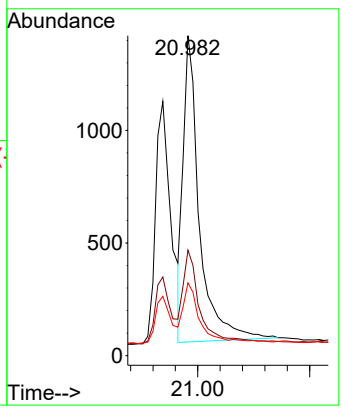


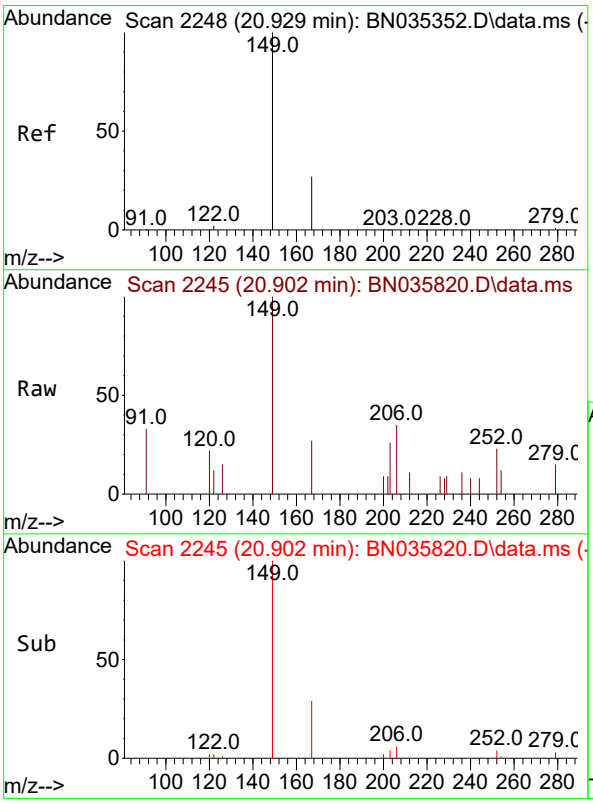
#33
Chrysene
Concen: 0.107 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:228 Resp: 2719

Ion	Ratio	Lower	Upper
228	100		
226	32.9	24.6	37.0
229	22.7	15.9	23.9

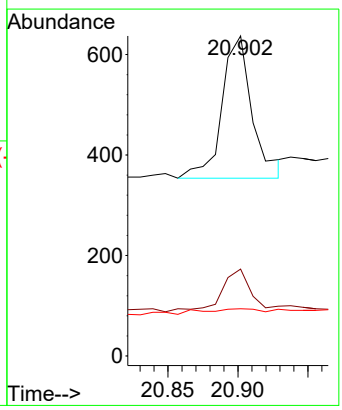


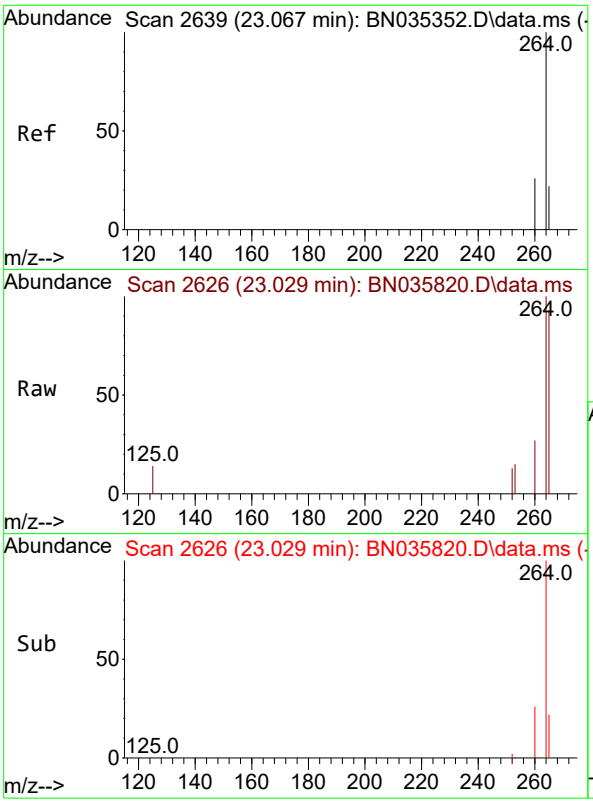


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.044 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:149 Resp: 426

Ion	Ratio	Lower	Upper
149	100		
167	34.0	22.2	33.4#
279	7.3	2.7	4.1#



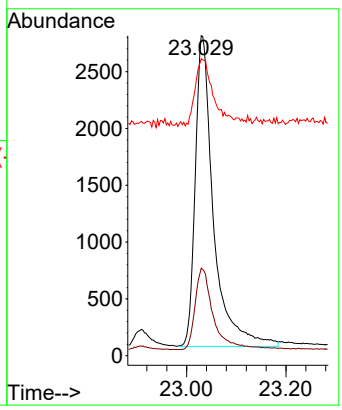


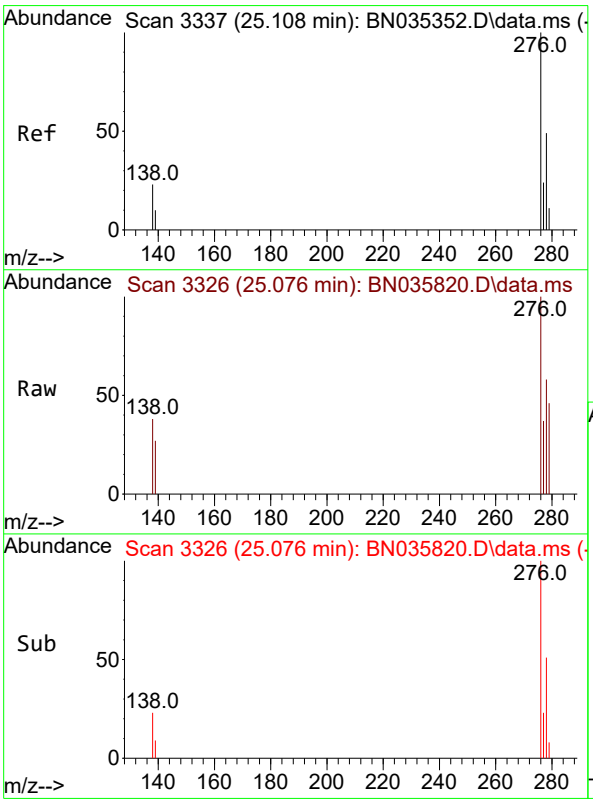
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:264 Resp: 6962

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.4	32.2
265	92.8	40.2	60.4#

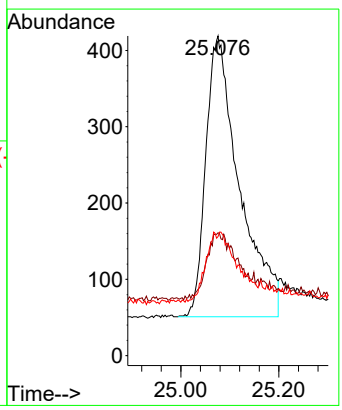


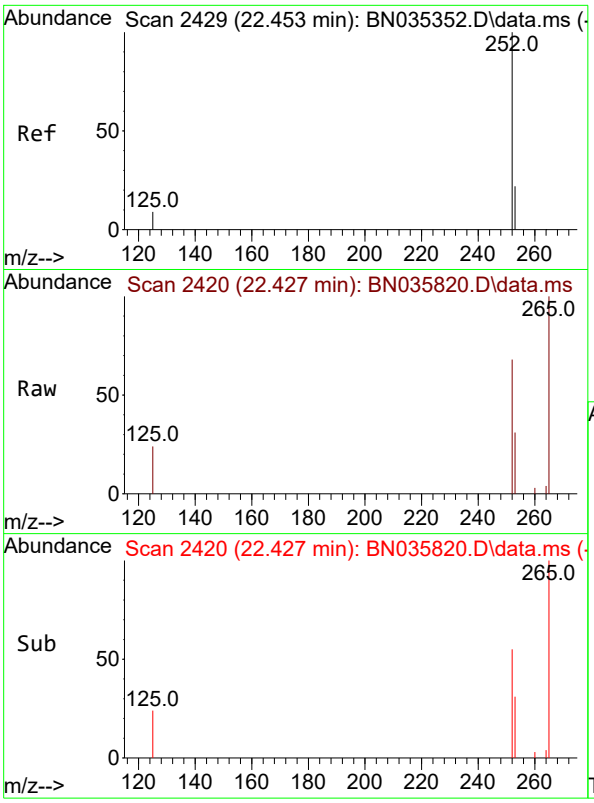


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.065 ng
RT: 25.076 min Scan# 3326
Delta R.T. 0.009 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:276 Resp: 1756

Ion	Ratio	Lower	Upper
276	100		
138	20.6	19.4	29.0
277	7.7	19.8	29.6#



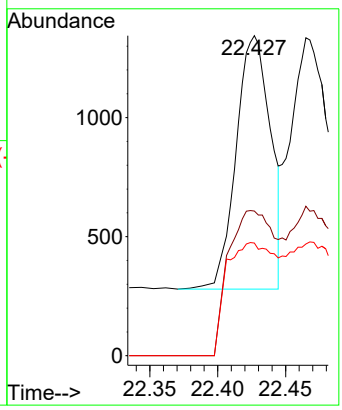


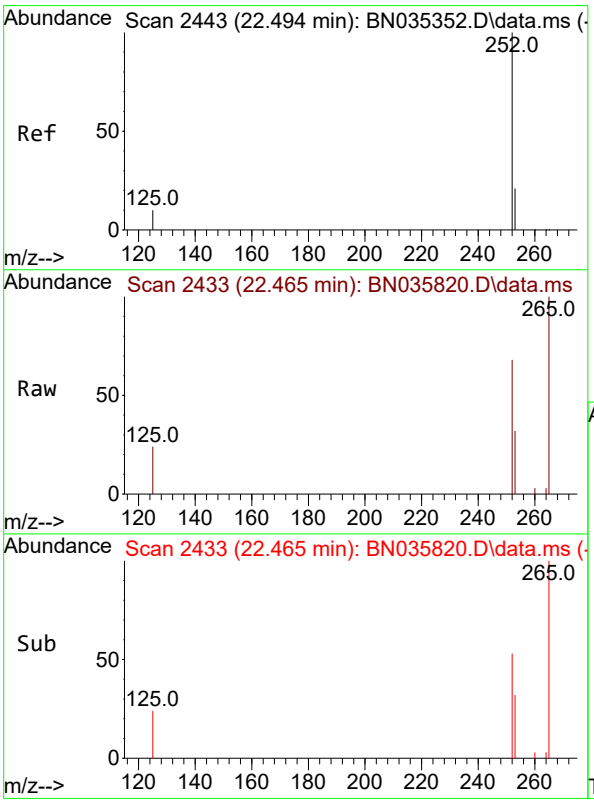
#37
Benzo(b)fluoranthene
Concen: 0.105 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:252 Resp: 2679

Ion	Ratio	Lower	Upper
252	100		
253	45.2	19.6	29.4#
125	35.2	9.6	14.4#

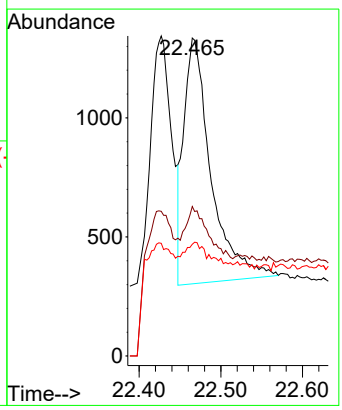


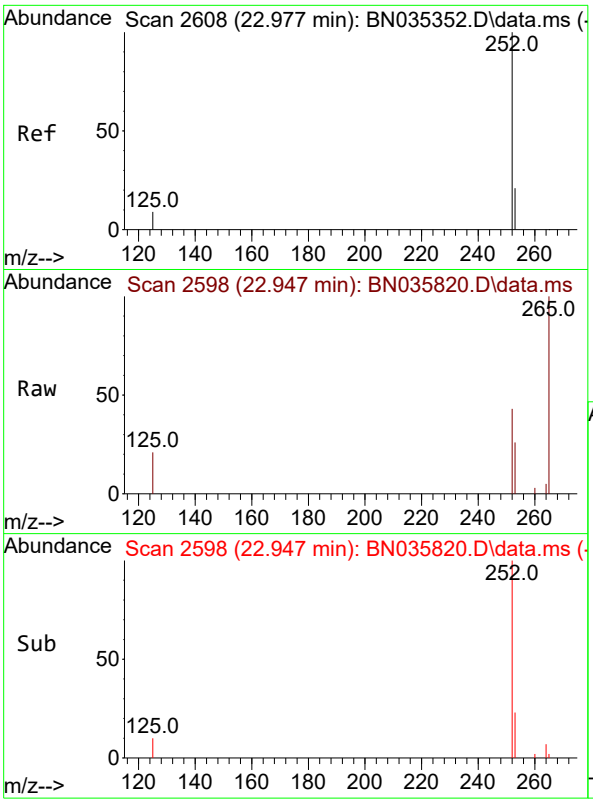


#38
Benzo(k)fluoranthene
Concen: 0.095 ng
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:252 Resp: 2384

Ion	Ratio	Lower	Upper
252	100		
253	47.0	19.5	29.3#
125	35.1	10.2	15.4#



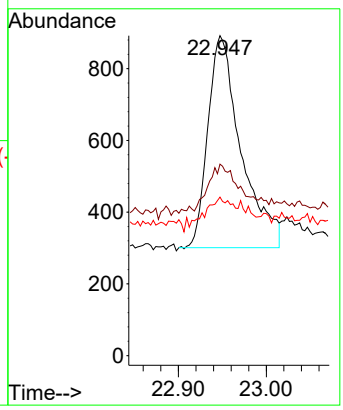


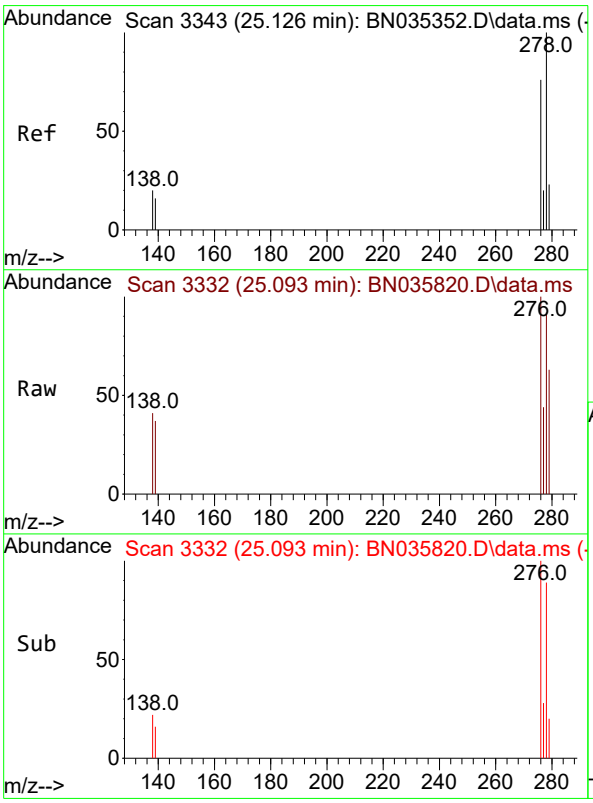
#39
Benzo(a)pyrene
Concen: 0.074 ng
RT: 22.947 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:252 Resp: 1551

Ion	Ratio	Lower	Upper
252	100		
253	59.9	20.2	30.4#
125	49.6	10.9	16.3#

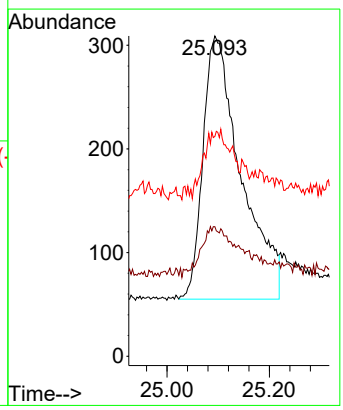


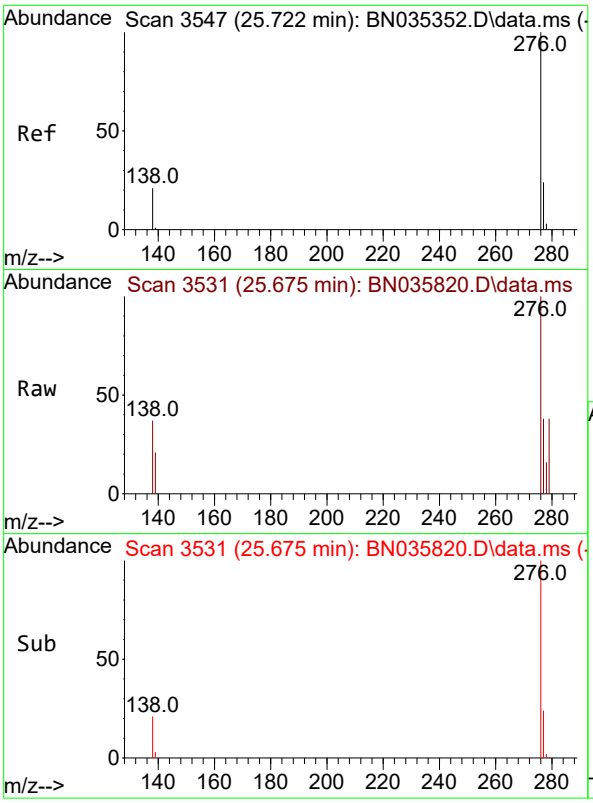


#40
Dibenzo(a,h)anthracene
Concen: 0.061 ng
RT: 25.093 min Scan# 3332
Delta R.T. 0.011 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Tgt Ion:278 Resp: 1312

Ion	Ratio	Lower	Upper
278	100		
139	40.5	14.2	21.4#
279	68.6	20.5	30.7#



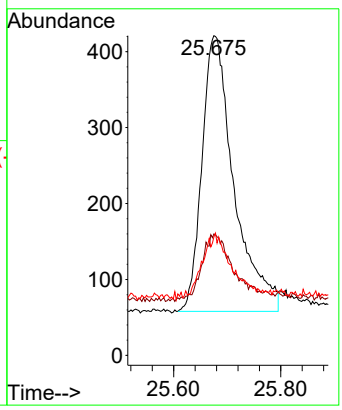


#41
Benzo(g,h,i)perylene
Concen: 0.067 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035820.D
Acq: 24 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218

Tgt Ion:276 Resp: 1511

Ion	Ratio	Lower	Upper
276	100		
277	38.0	19.9	29.9#
138	37.1	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3131	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	7403	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4434	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9040	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	8798	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	9479	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	943	0.120	ng	0.00
5) Phenol-d6	6.477	99	545	0.058	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2211	0.489	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	4950	0.427	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	691	0.220	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6280	0.375	ng	-0.02
27) Fluoranthene-d10	18.747	212	10896	0.425	ng	-0.01
31) Terphenyl-d14	19.379	244	8459	0.487	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	909	0.304	ng	# 85
3) n-Nitrosodimethylamine	3.270	42	393	0.158	ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	2329	0.294	ng	98
9) Naphthalene	10.052	128	7736	0.396	ng	99
10) Hexachlorobutadiene	10.340	225	1471	0.327	ng	# 100
12) 2-Methylnaphthalene	11.681	142	5119	0.366	ng	99
16) Acenaphthylene	13.625	152	8059	0.433	ng	99
17) Acenaphthene	13.978	154	5206	0.421	ng	99
18) Fluorene	14.983	166	6975	0.394	ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	266	0.299	ng	# 39
21) 4-Bromophenyl-phenylether	15.891	248	1959	0.370	ng	# 75
22) Hexachlorobenzene	16.003	284	2633	0.424	ng	98
23) Atrazine	16.189	200	1523	0.405	ng	96
24) Pentachlorophenol	16.363	266	1863	0.690	ng	# 86
25) Phenanthrene	16.735	178	12002	0.483	ng	100
26) Anthracene	16.822	178	10344	0.461	ng	99
28) Fluoranthene	18.780	202	14906	0.445	ng	99
30) Pyrene	19.147	202	15976	0.492	ng	99
32) Benzo(a)anthracene	20.929	228	13869	0.451	ng	99
33) Chrysene	20.983	228	16049	0.506	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6067	0.499	ng	98
36) Indeno(1,2,3-cd)pyrene	25.052	276	15853	0.428	ng	98
37) Benzo(b)fluoranthene	22.418	252	20643	0.595	ng	# 94
38) Benzo(k)fluoranthene	22.459	252	16743	0.491	ng	# 94
39) Benzo(a)pyrene	22.939	252	13748	0.481	ng	# 89
40) Dibenzo(a,h)anthracene	25.067	278	11568	0.396	ng	94
41) Benzo(g,h,i)perylene	25.658	276	13235	0.433	ng	98

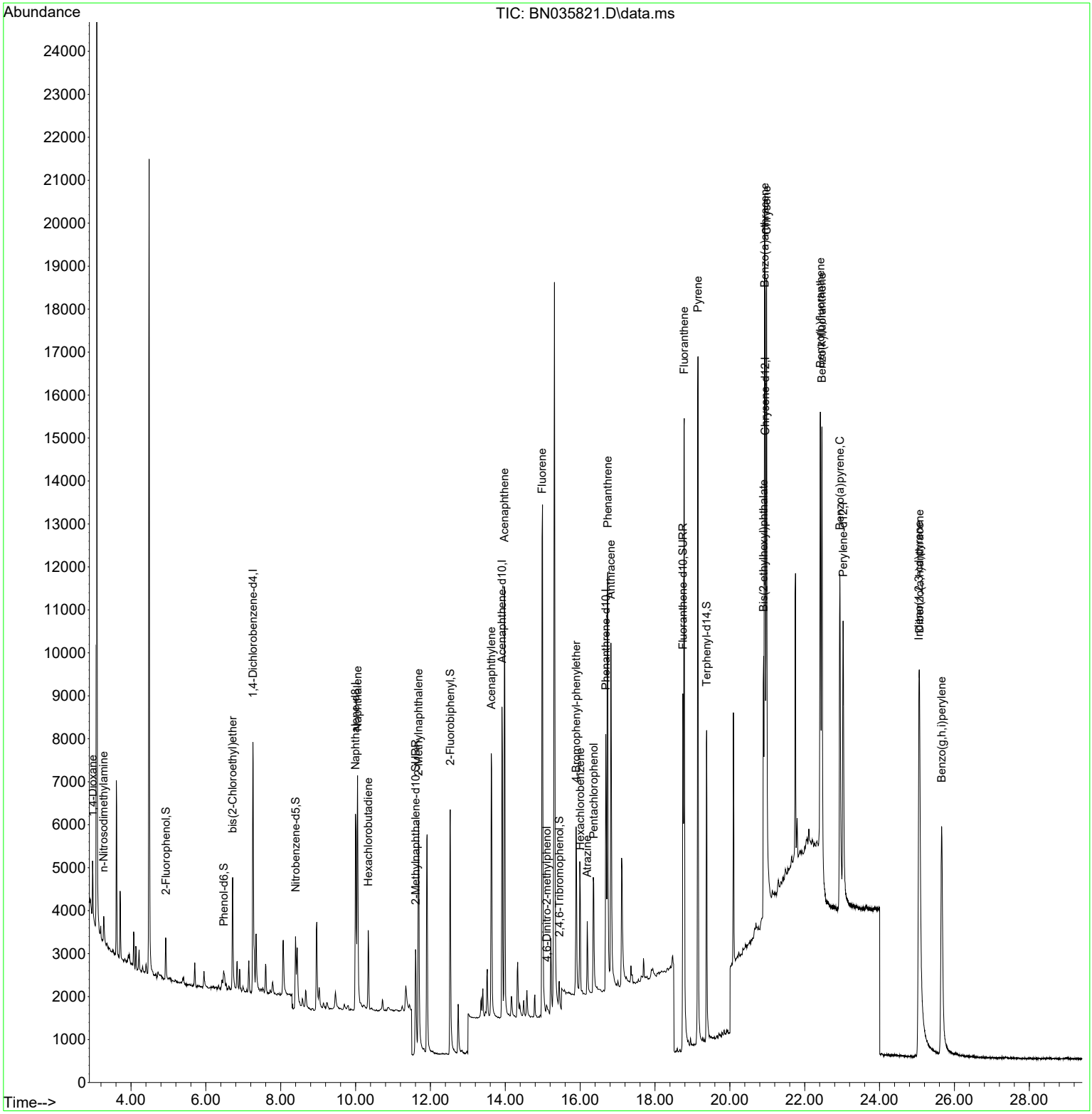
(#) = qualifier out of range (m) = manual integration (+) = signals summed

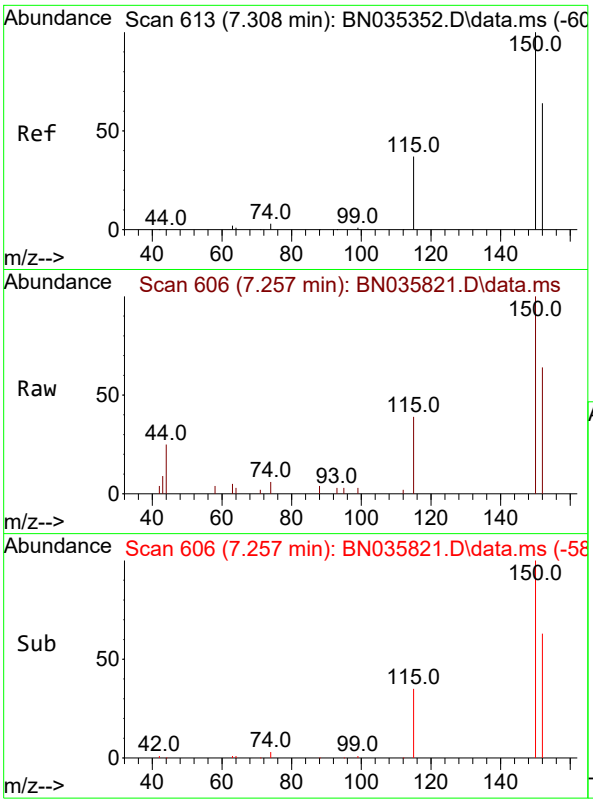
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



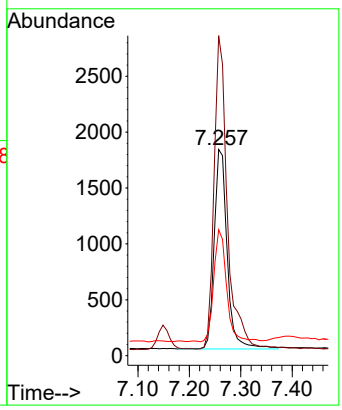


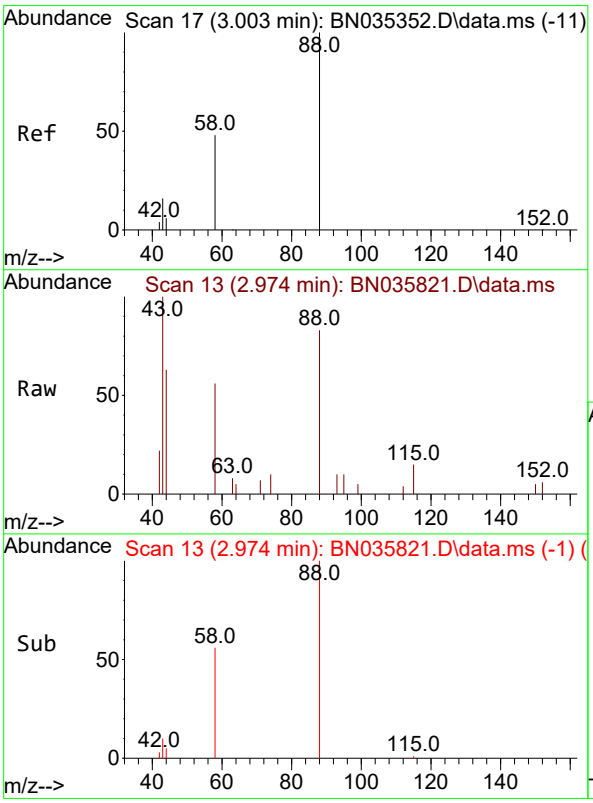
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:152 Resp: 3131

Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.0	186.0
115	61.0	49.6	74.4

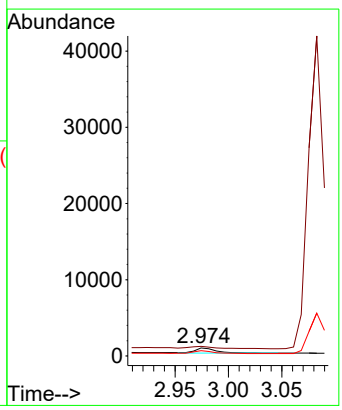


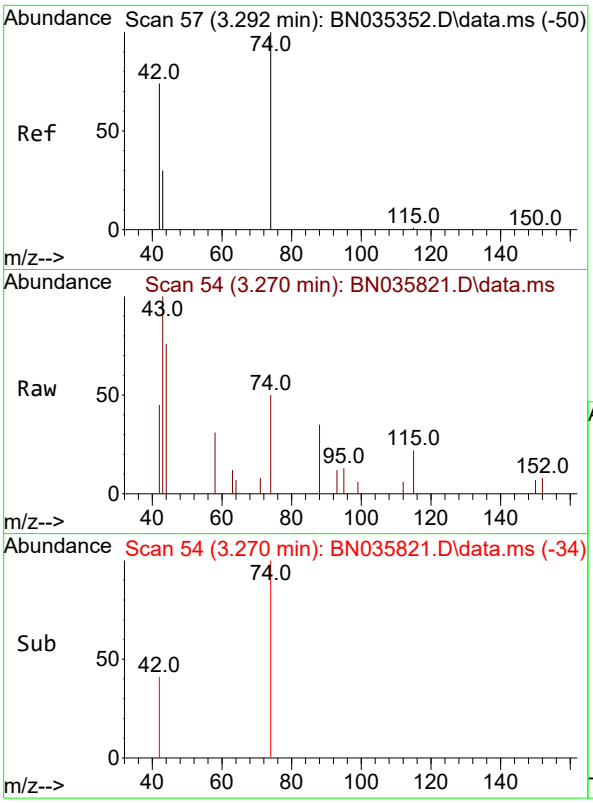


#2
1,4-Dioxane
Concen: 0.304 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 88 Resp: 909

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.2	25.8#
58	58.4	44.5	66.7



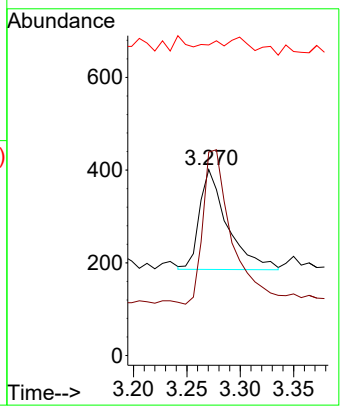


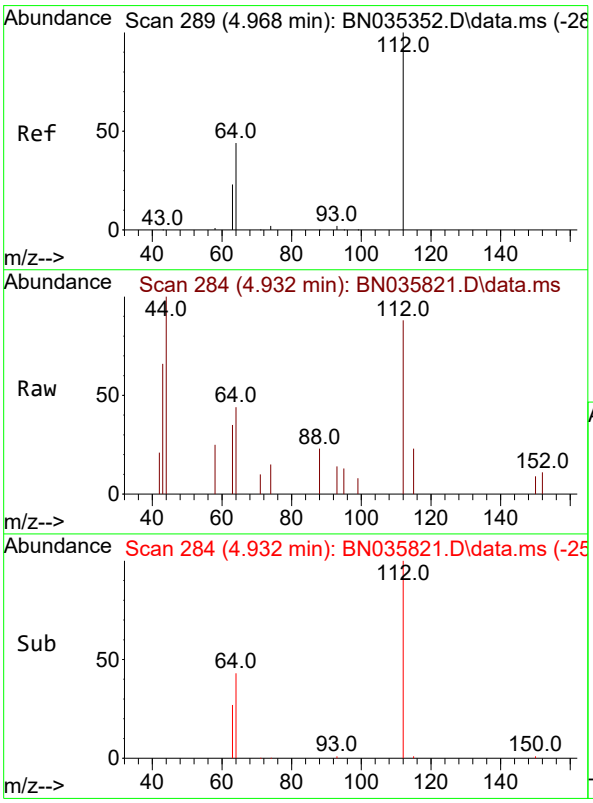
#3
n-Nitrosodimethylamine
Concen: 0.158 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion: 42 Resp: 393

Ion	Ratio	Lower	Upper
42	100		
74	172.0	124.9	187.3
44	0.0	2.2	3.4#

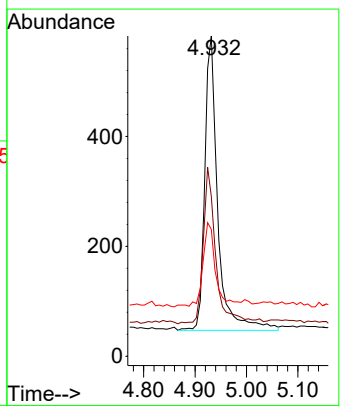


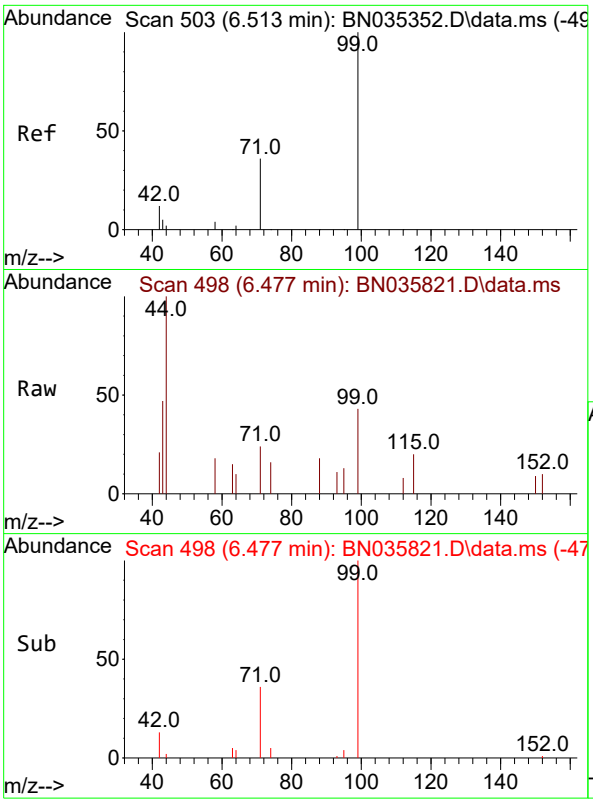


#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:112 Resp: 943

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	28.2	21.0	31.6



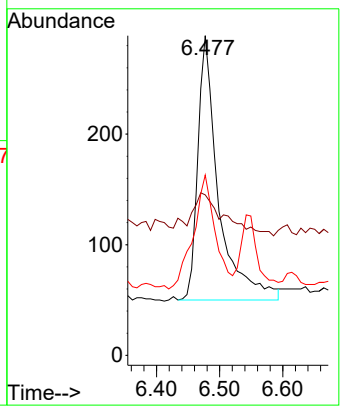


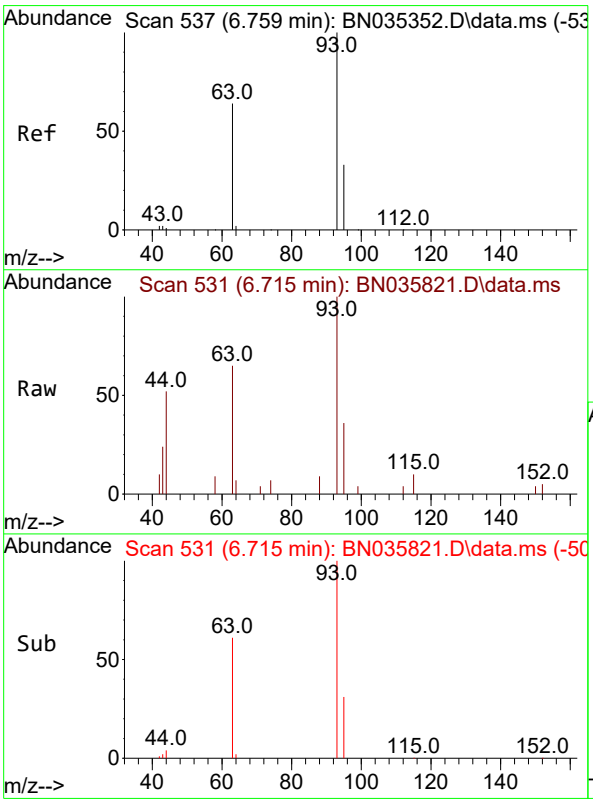
#5
Phenol-d6
Concen: 0.058 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion: 99 Resp: 545

Ion	Ratio	Lower	Upper
99	100		
42	26.8	11.4	17.2#
71	45.9	29.3	43.9#

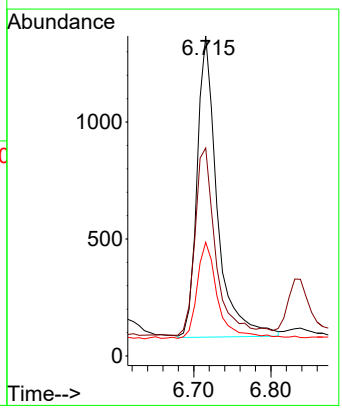


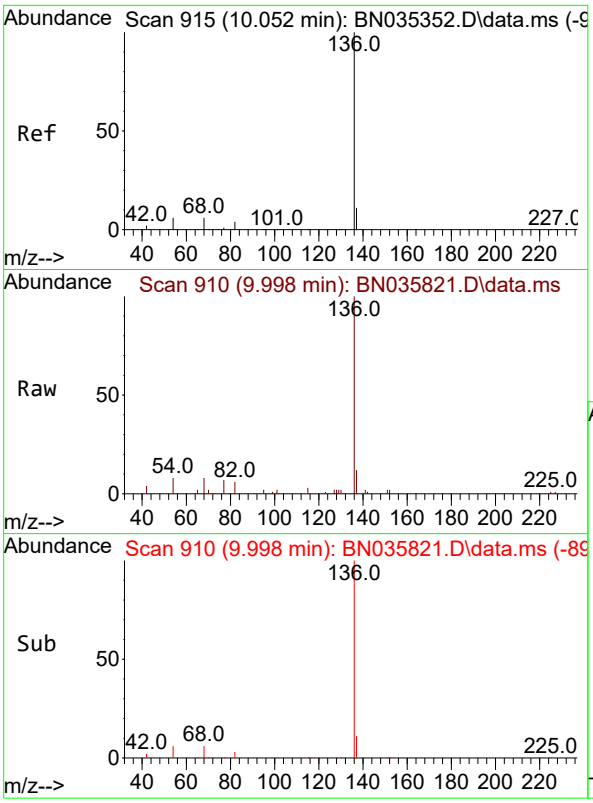


#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 93 Resp: 2329

Ion	Ratio	Lower	Upper
93	100		
63	65.2	50.4	75.6
95	32.6	25.7	38.5



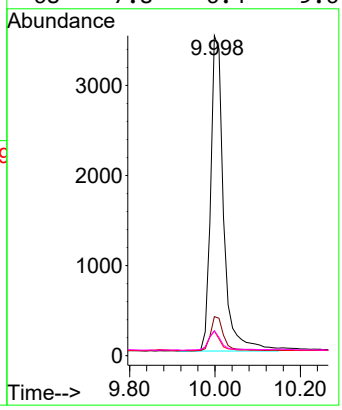


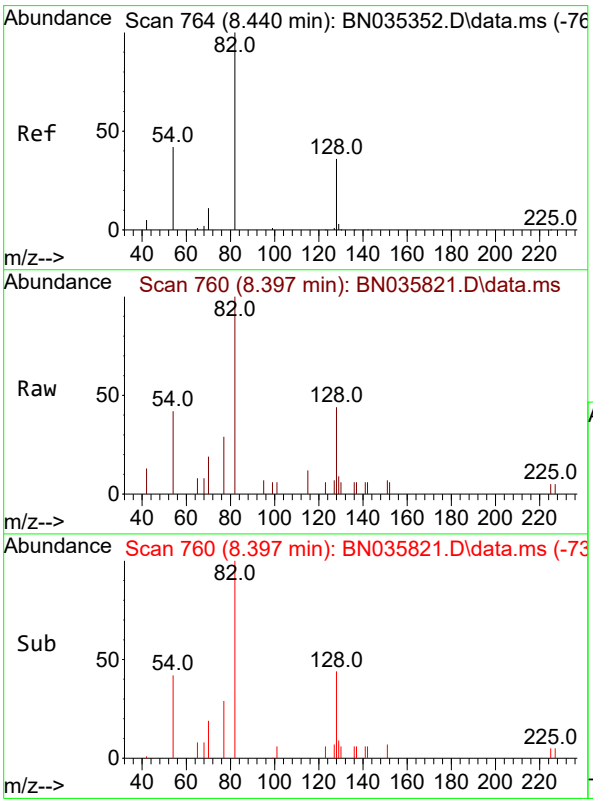
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:136 Resp: 7403

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6

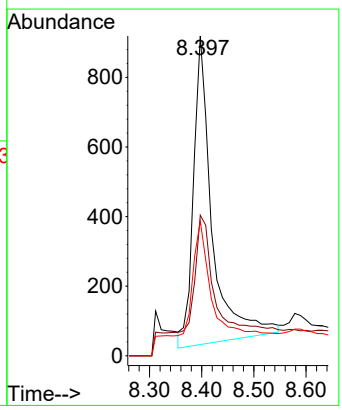


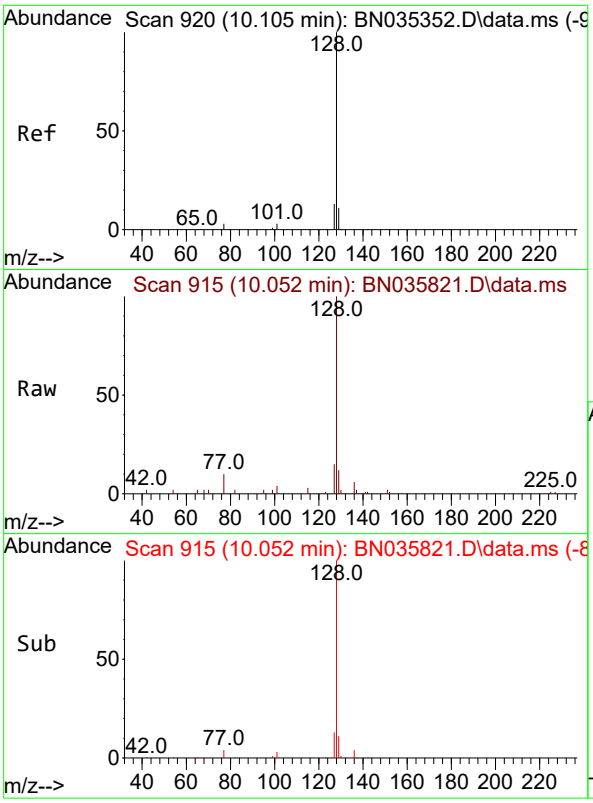


#8
Nitrobenzene-d5
Concen: 0.489 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 82 Resp: 2211

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.4	50.0
54	42.1	36.7	55.1



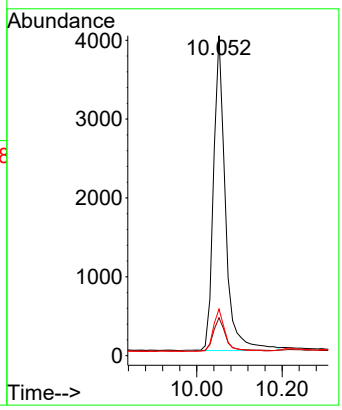


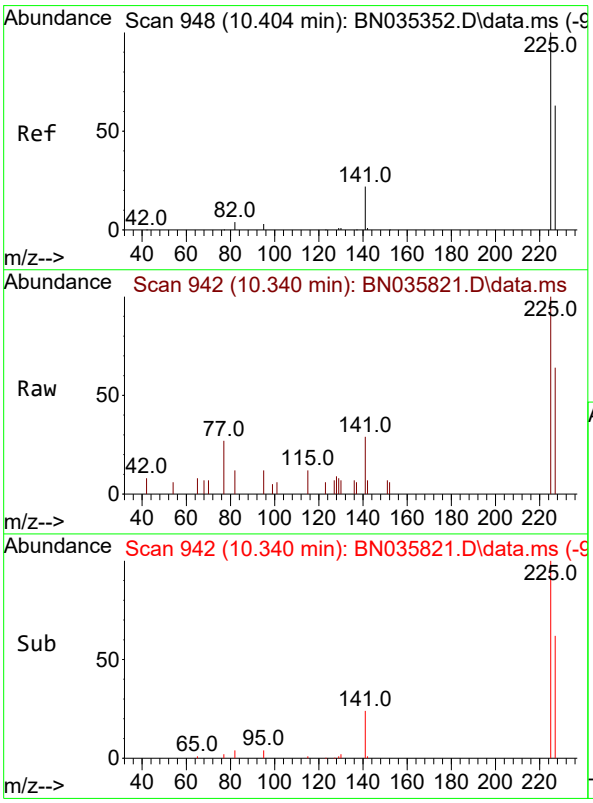
#9
Naphthalene
Concen: 0.396 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:128 Resp: 7736

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.8	14.6
127	14.5	11.4	17.2

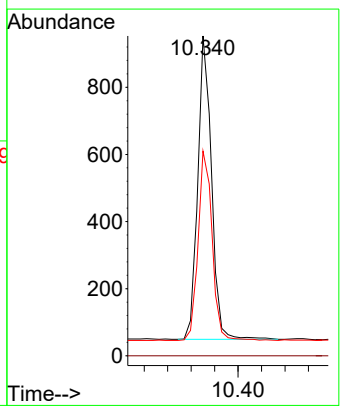


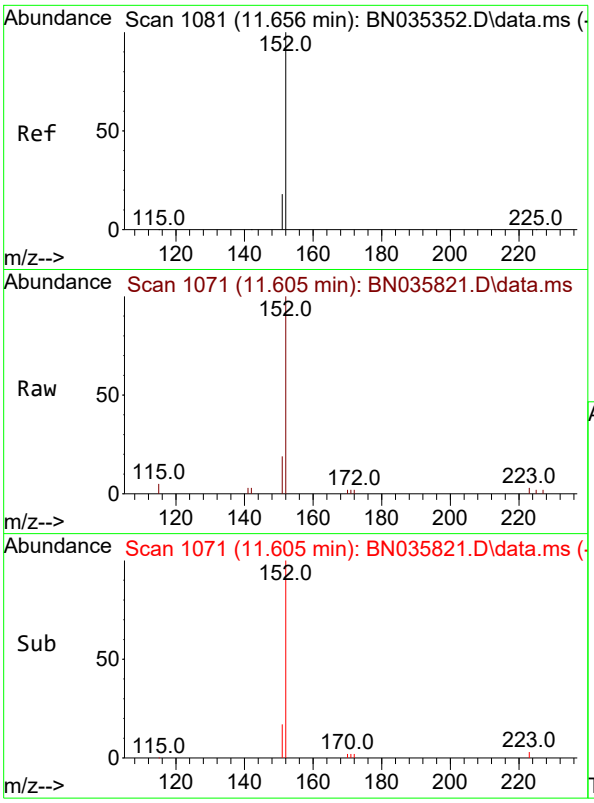


#10
Hexachlorobutadiene
Concen: 0.327 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:225 Resp: 1471

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.3	76.9



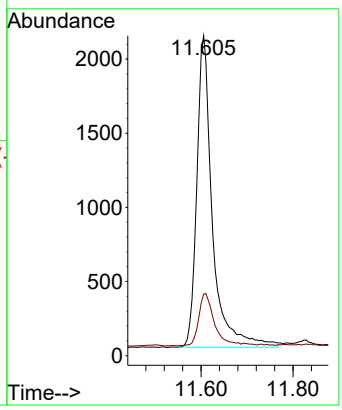


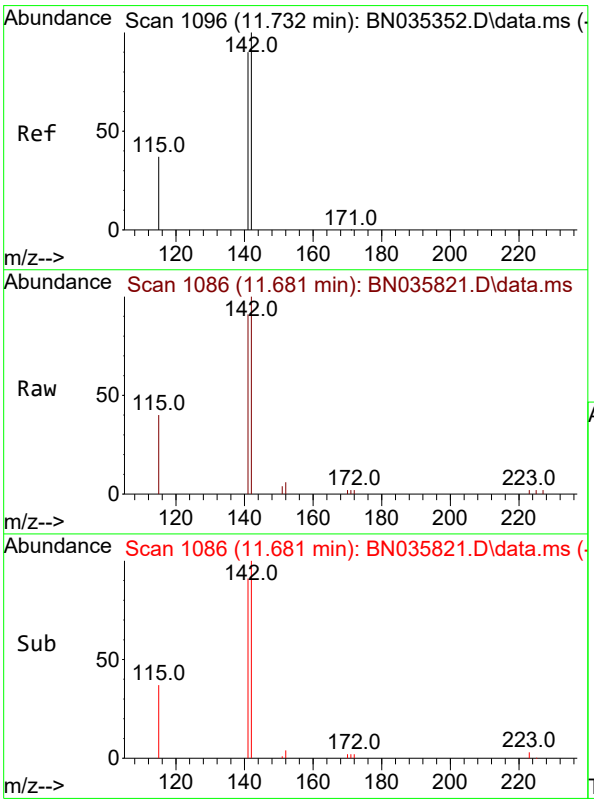
#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:152 Resp: 4950

Ion	Ratio	Lower	Upper
152	100		
151	16.7	16.6	25.0

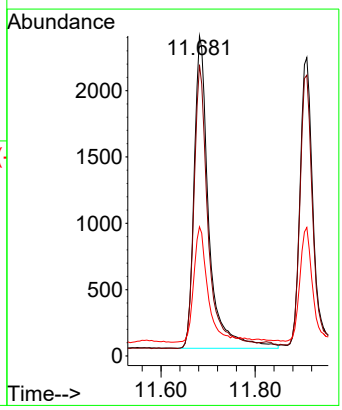


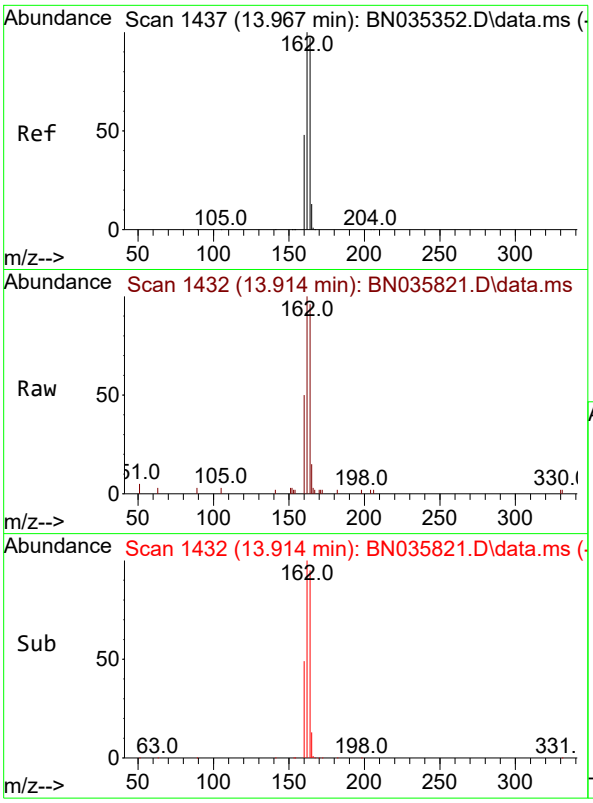


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:142 Resp: 5119

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	40.3	31.4	47.0



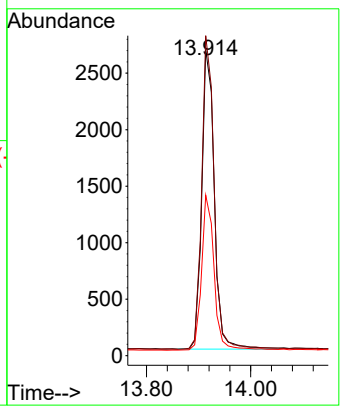


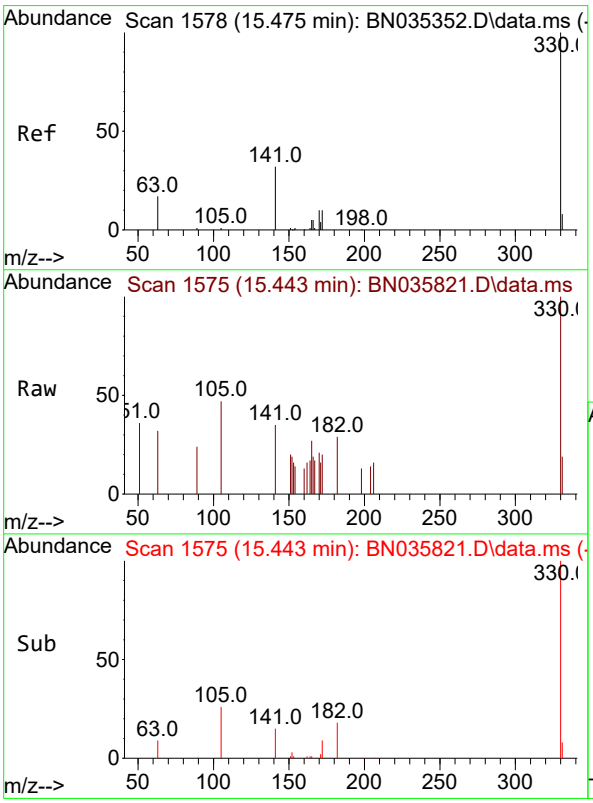
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:164 Resp: 4434

Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.2	123.2
160	52.4	40.1	60.1

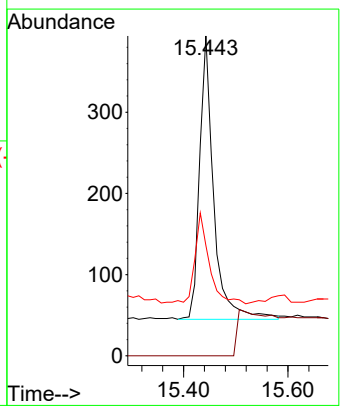


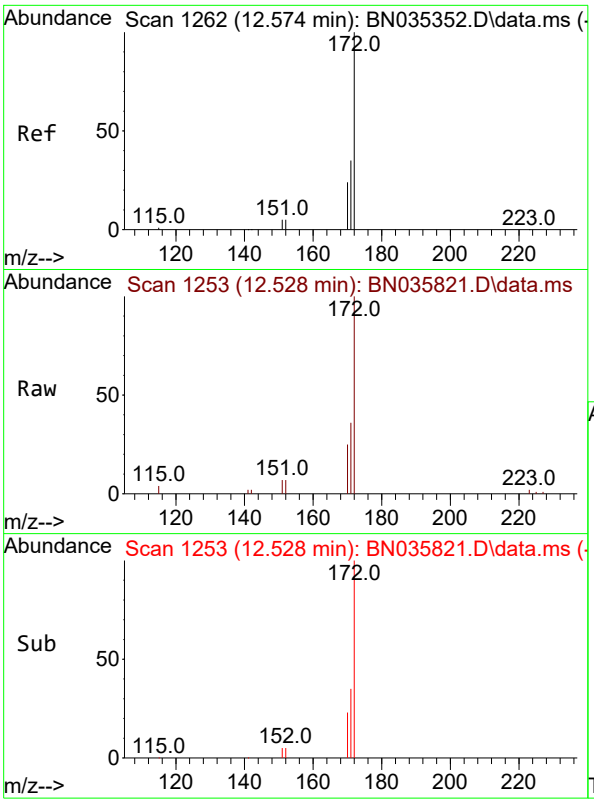


#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:330 Resp: 691

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.1	26.6	40.0



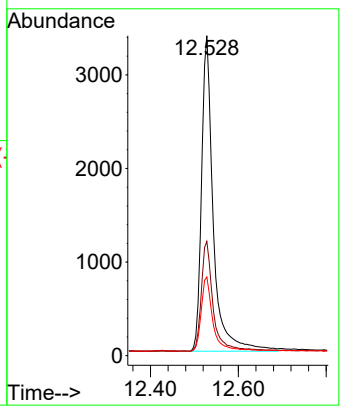


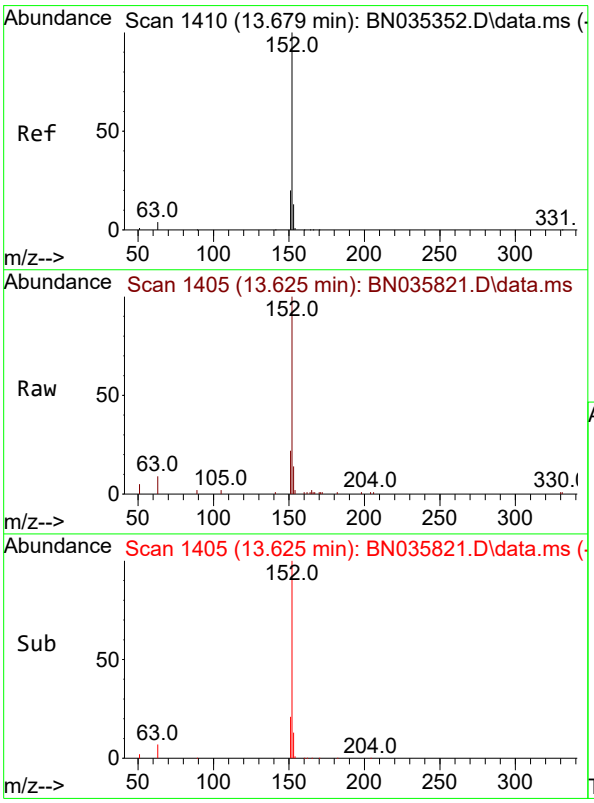
#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:172 Resp: 6280

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.6	19.8	29.8

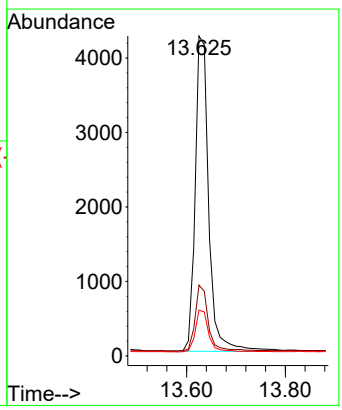


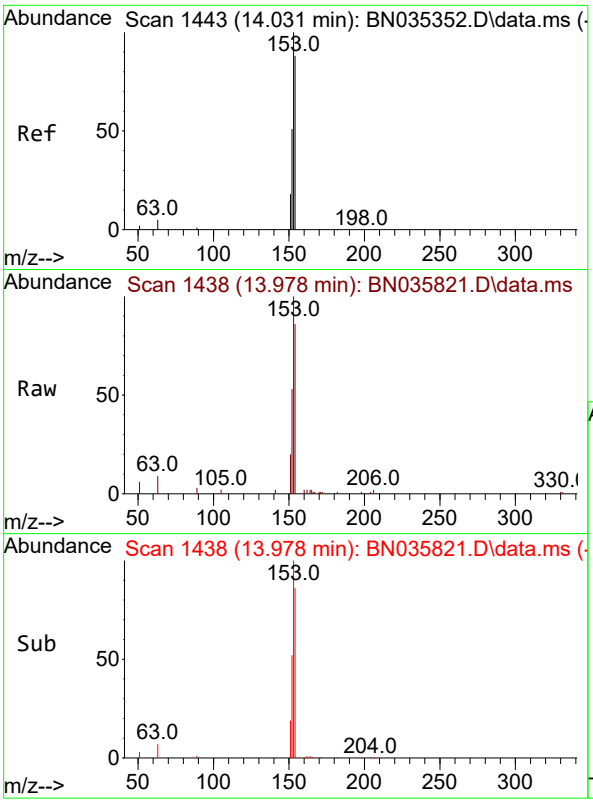


#16
Acenaphthylene
Concen: 0.433 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 8059

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	13.4	10.4	15.6



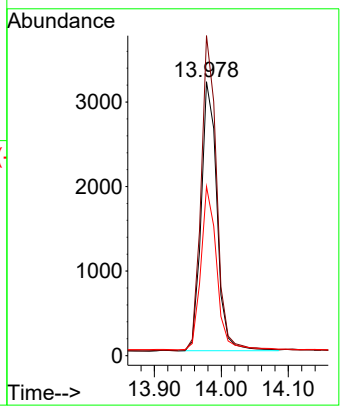


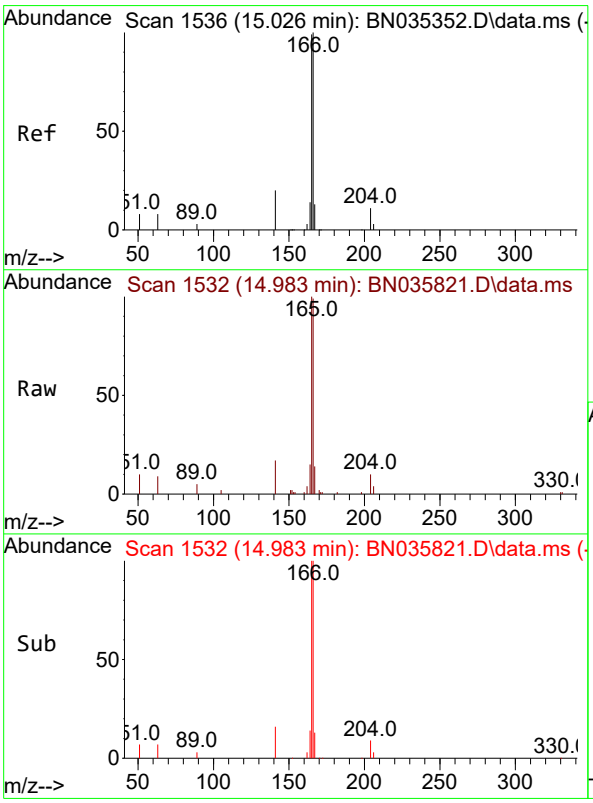
#17
Acenaphthene
Concen: 0.421 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:154 Resp: 5206

Ion	Ratio	Lower	Upper
154	100		
153	116.9	92.6	139.0
152	60.7	49.0	73.6

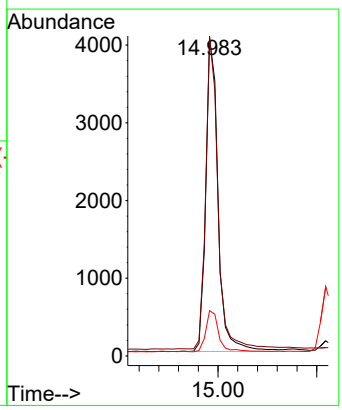


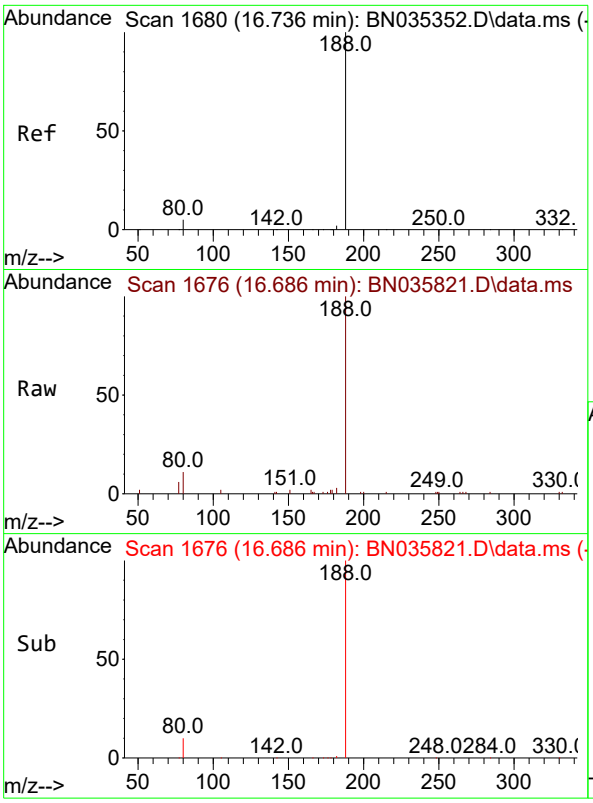


#18
Fluorene
Concen: 0.394 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:166 Resp: 6975

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	14.0	10.8	16.2



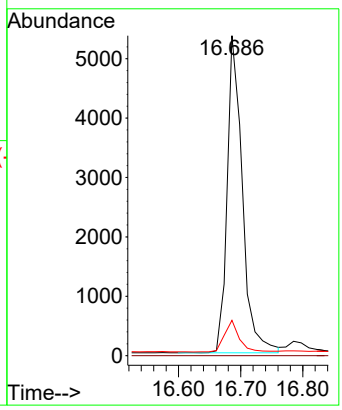


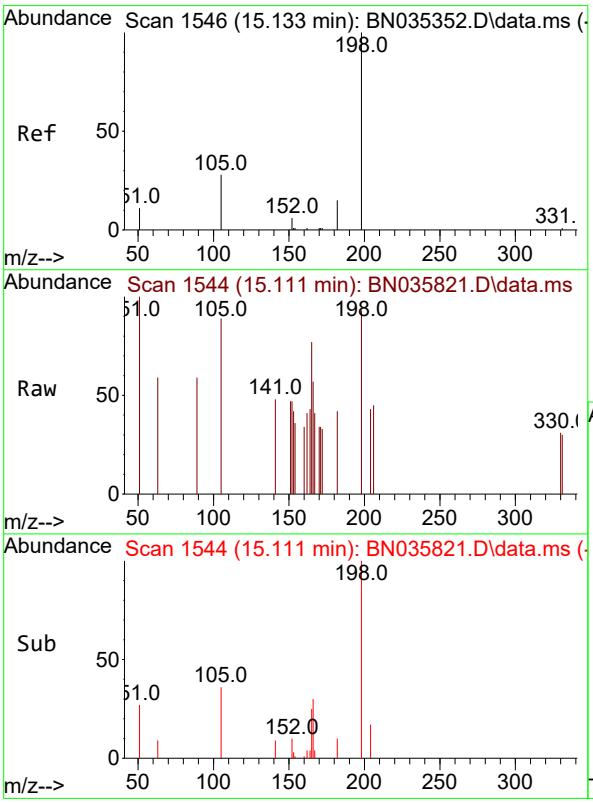
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:188 Resp: 9040

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	4.6	6.8#

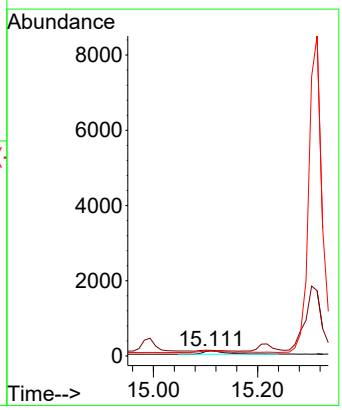


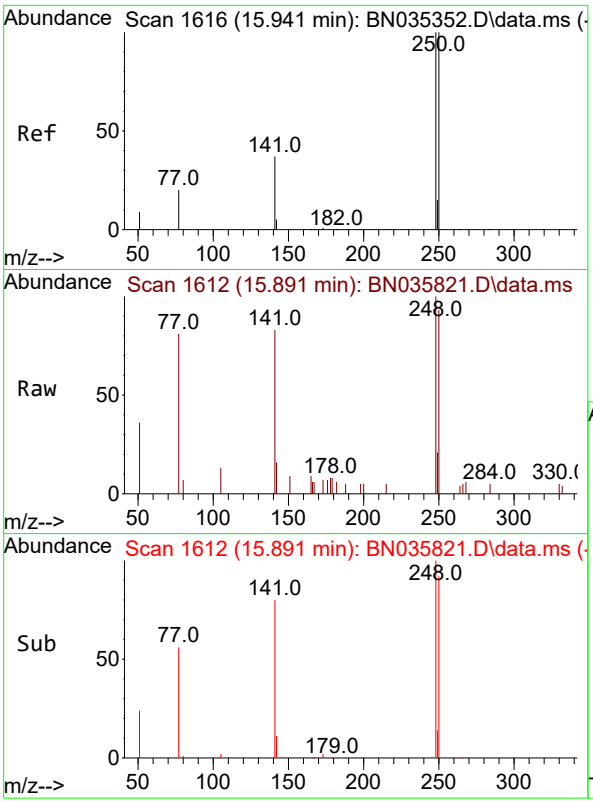


#20
4,6-Dinitro-2-methylphenol
Concen: 0.299 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:198 Resp: 266

Ion	Ratio	Lower	Upper
198	100		
51	108.0	46.5	69.7#
105	96.4	45.3	67.9#



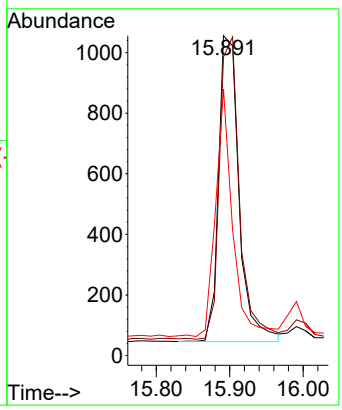


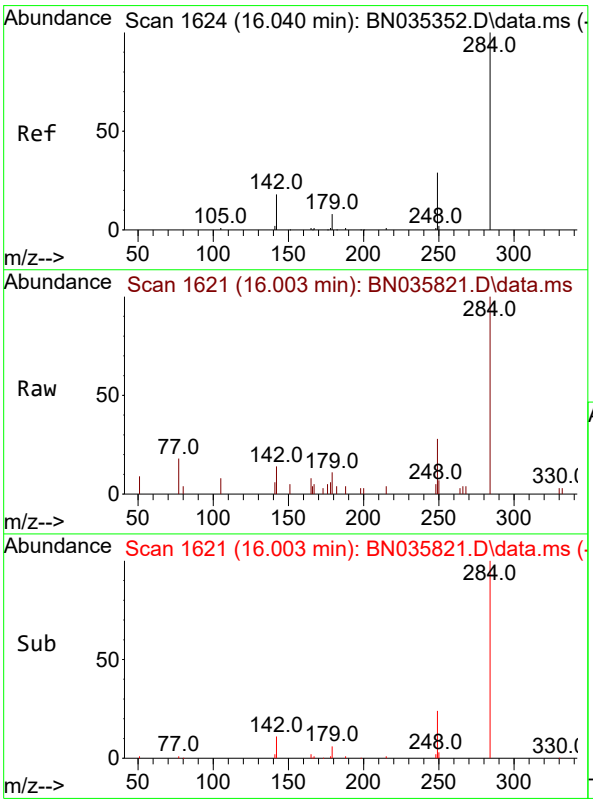
#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:248 Resp: 1959

Ion	Ratio	Lower	Upper
248	100		
250	93.4	80.6	120.8
141	83.3	31.5	47.3#

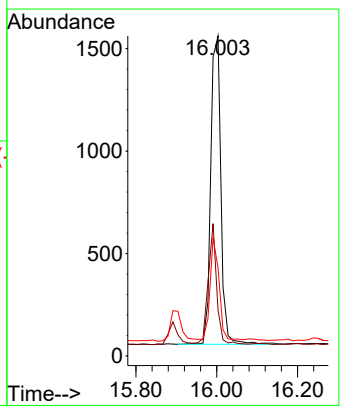


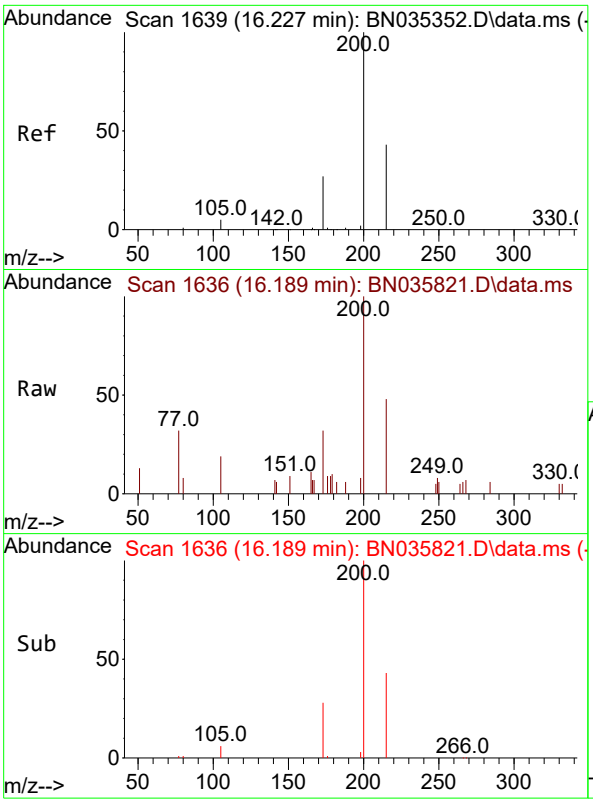


#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:284 Resp: 2633

Ion	Ratio	Lower	Upper
284	100		
142	32.3	26.7	40.1
249	29.1	24.6	36.8



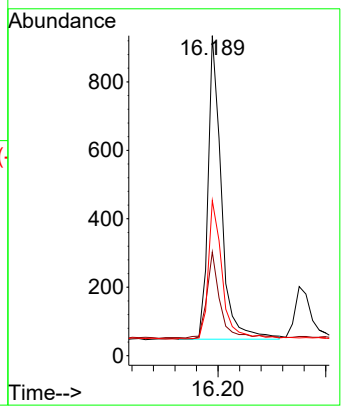


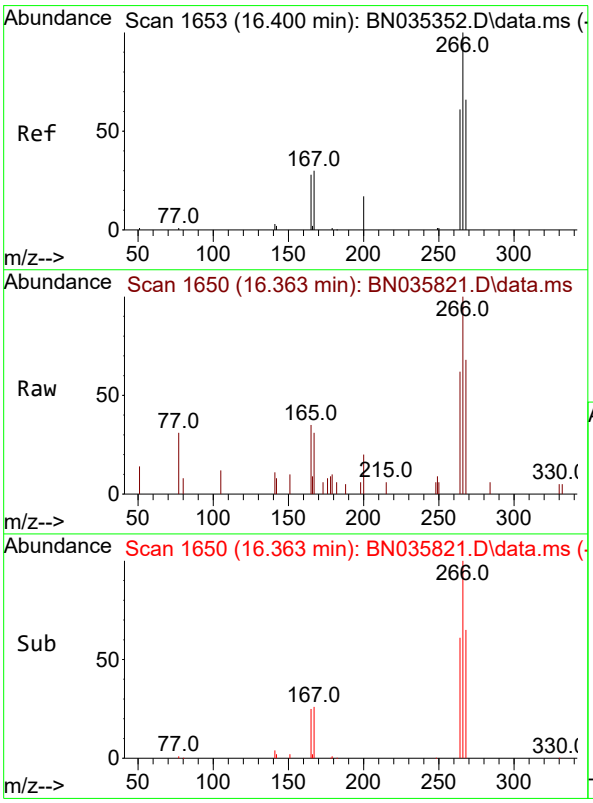
#23
Atrazine
Concen: 0.405 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:200 Resp: 1523

Ion	Ratio	Lower	Upper
200	100		
173	32.4	24.1	36.1
215	48.4	36.9	55.3

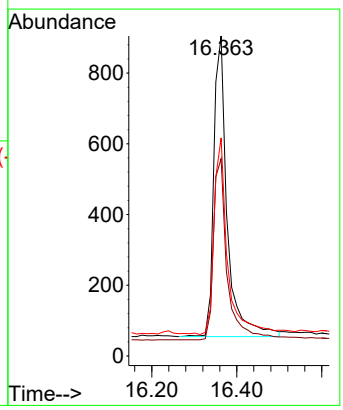


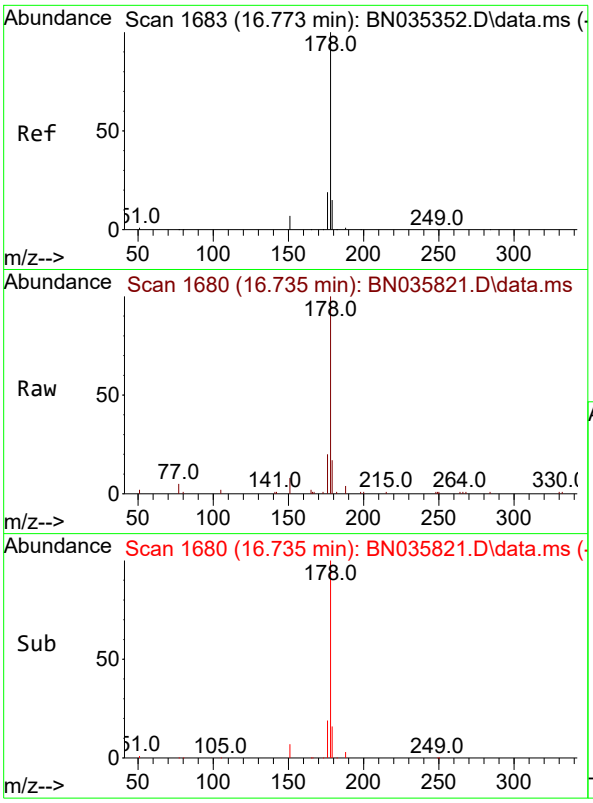


#24
Pentachlorophenol
Concen: 0.690 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:266 Resp: 1863

Ion	Ratio	Lower	Upper
266	100		
264	61.3	42.3	63.5
268	65.9	43.3	64.9#



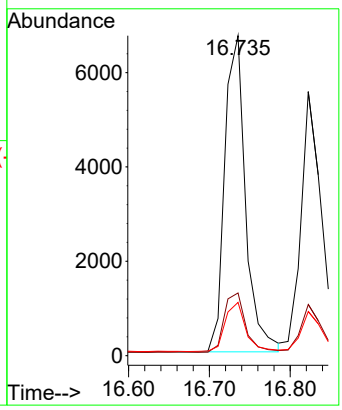


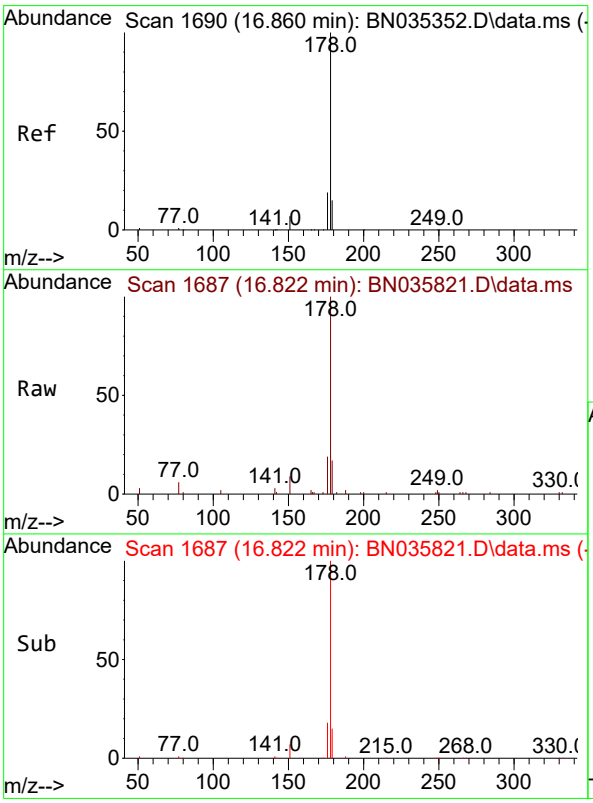
#25
Phenanthrene
Concen: 0.483 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:178 Resp: 12002

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5

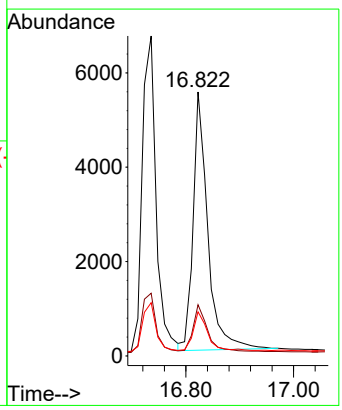


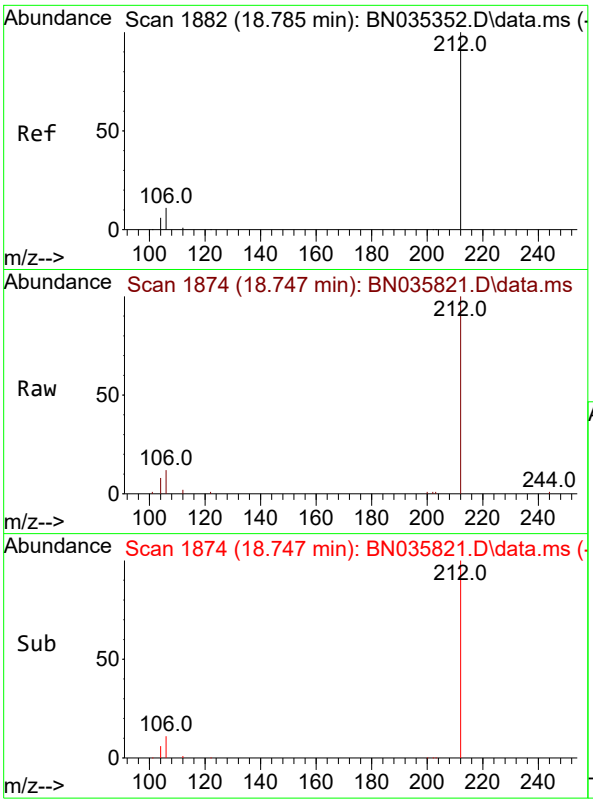


#26
Anthracene
Concen: 0.461 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:178 Resp: 10344

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.6
179	14.9	12.6	18.8



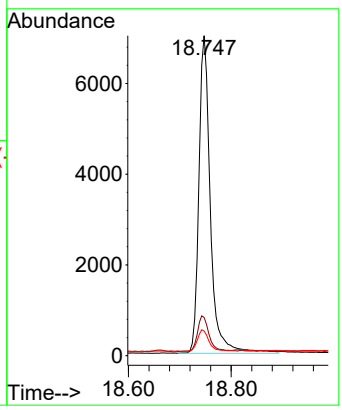


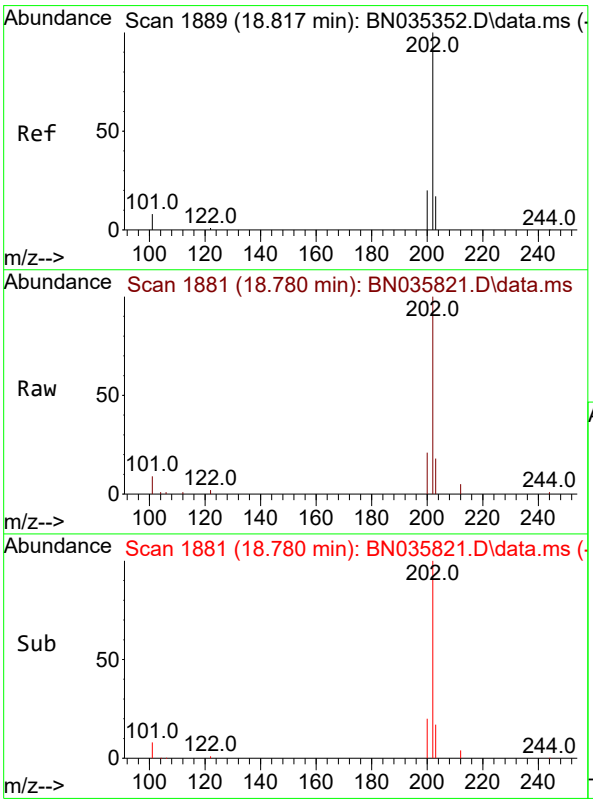
#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:212 Resp: 10896

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.7	5.3	7.9

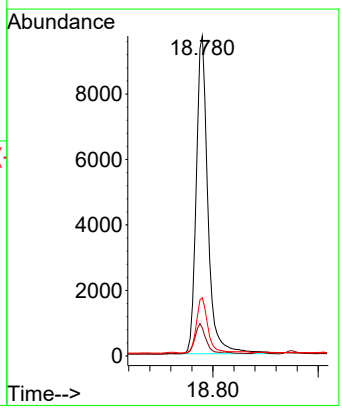


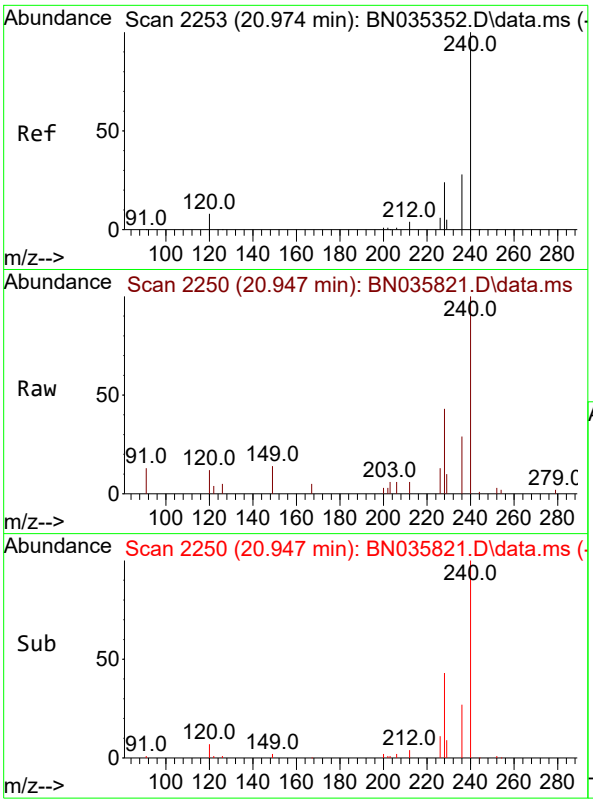


#28
Fluoranthene
Concen: 0.445 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 14906

Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.4	11.0
203	17.4	13.7	20.5



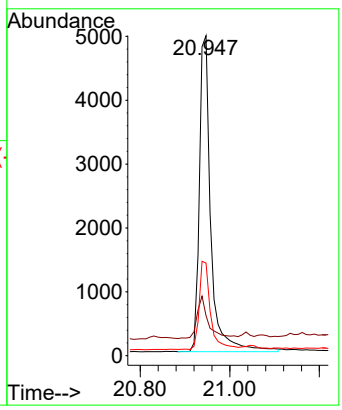


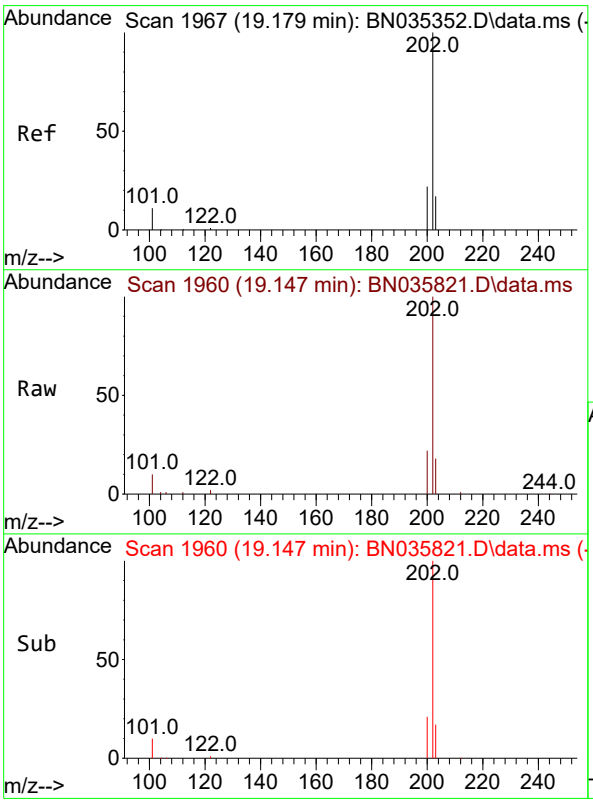
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:240 Resp: 8798

Ion	Ratio	Lower	Upper
240	100		
120	12.5	7.9	11.9#
236	29.0	22.9	34.3

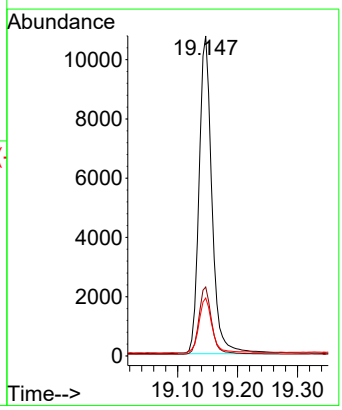


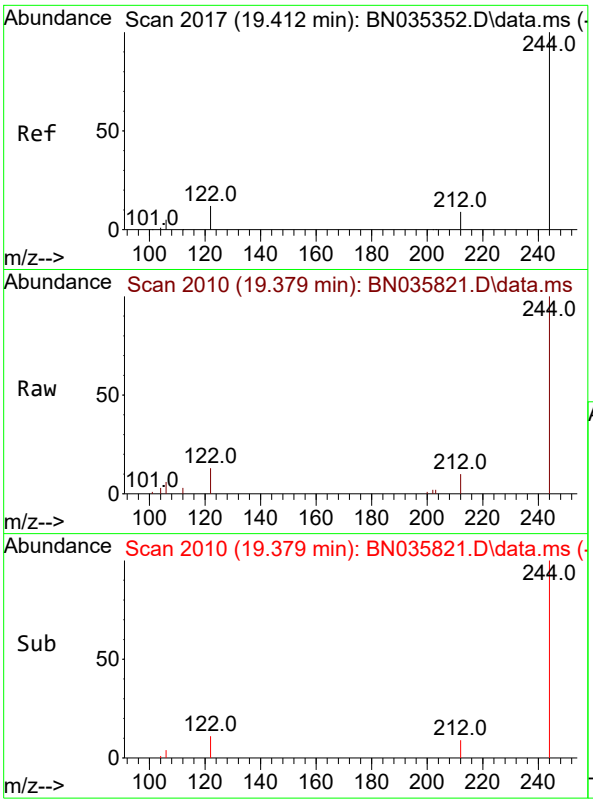


#30
Pyrene
Concen: 0.492 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 15976

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.5	14.3	21.5



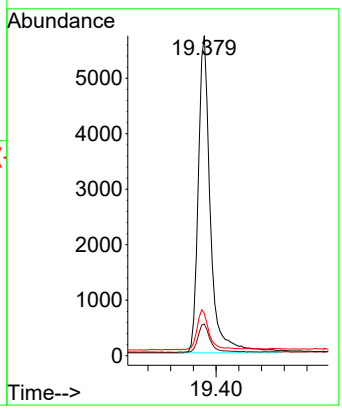


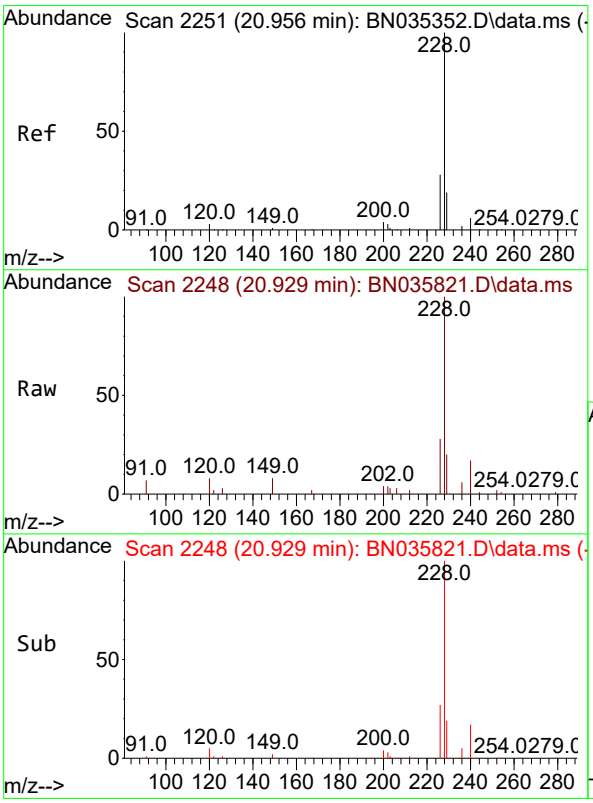
#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:244 Resp: 8459

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.2	10.3	15.5

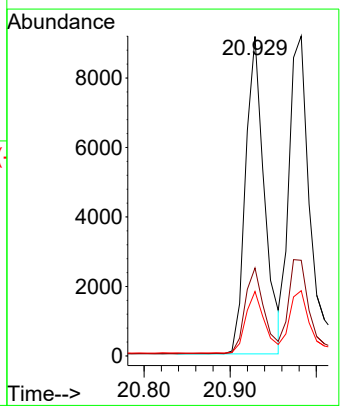


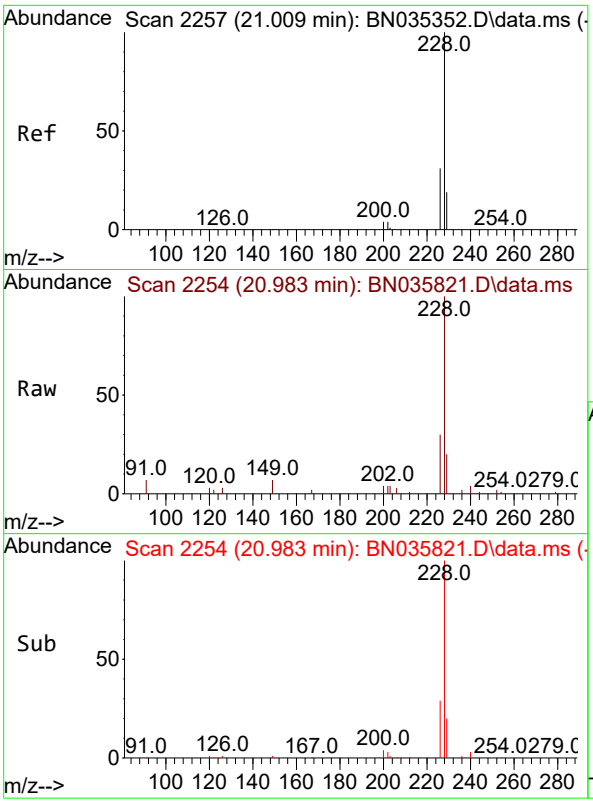


#32
Benzo(a)anthracene
Concen: 0.451 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 13869

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	20.2	15.8	23.8



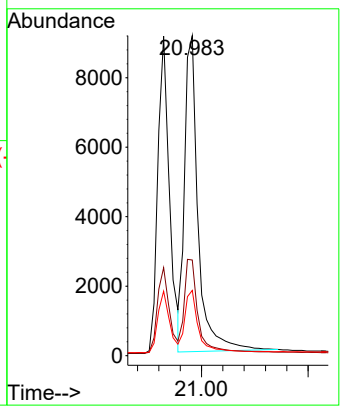


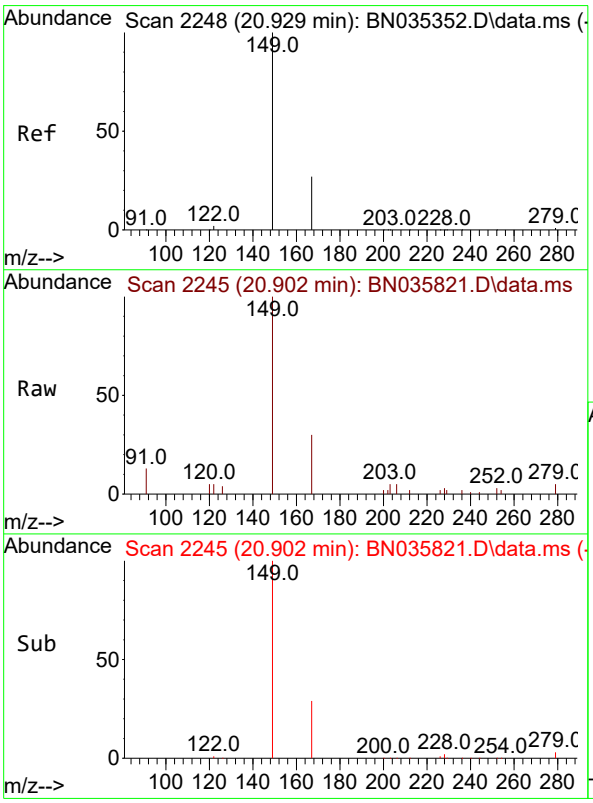
#33
Chrysene
Concen: 0.506 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:228 Resp: 16049

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	20.4	15.9	23.9

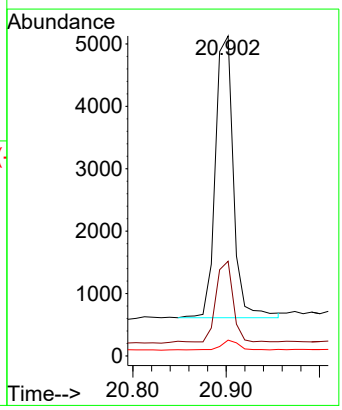


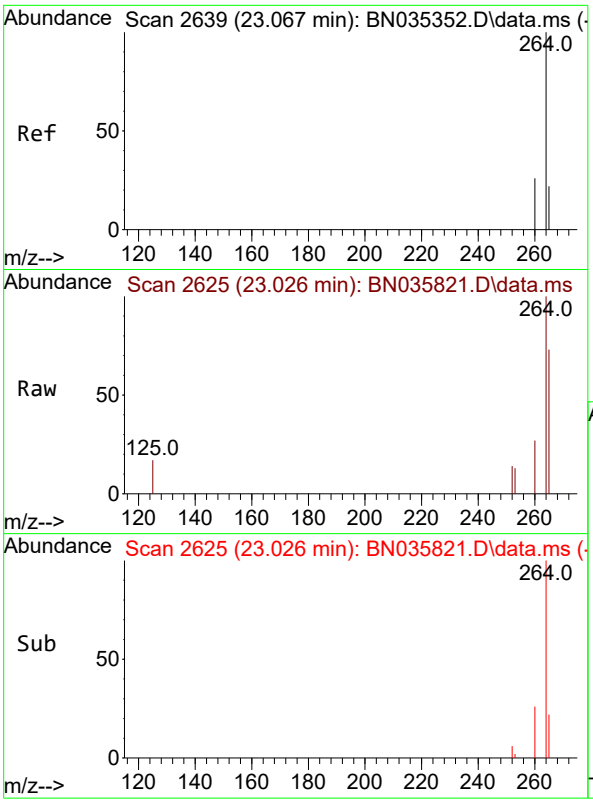


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.499 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:149 Resp: 6067

Ion	Ratio	Lower	Upper
149	100		
167	26.7	22.2	33.4
279	3.2	2.7	4.1



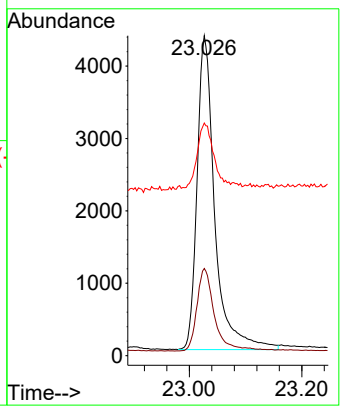


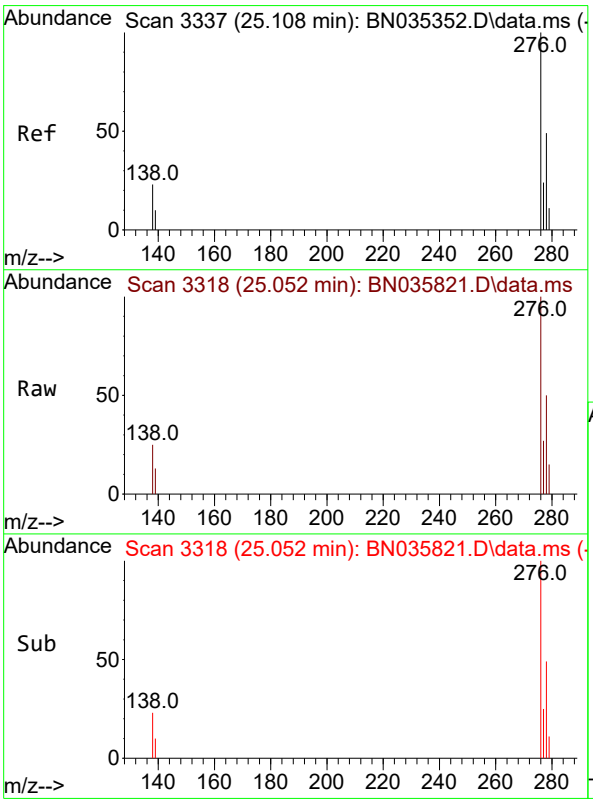
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:264 Resp: 9479

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	72.7	40.2	60.4#

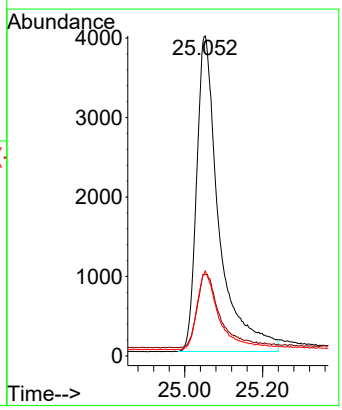


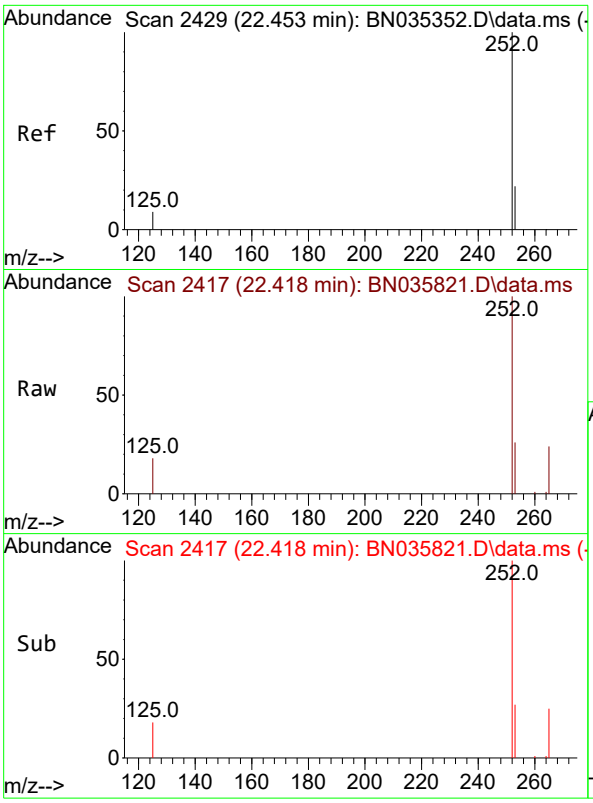


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:276 Resp: 15853

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.4	29.0
277	24.1	19.8	29.6



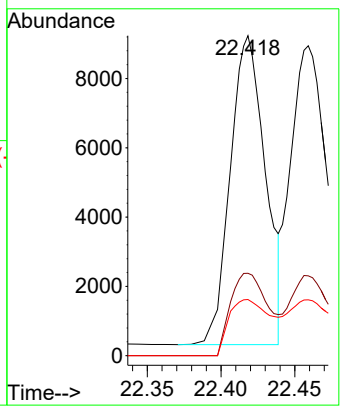


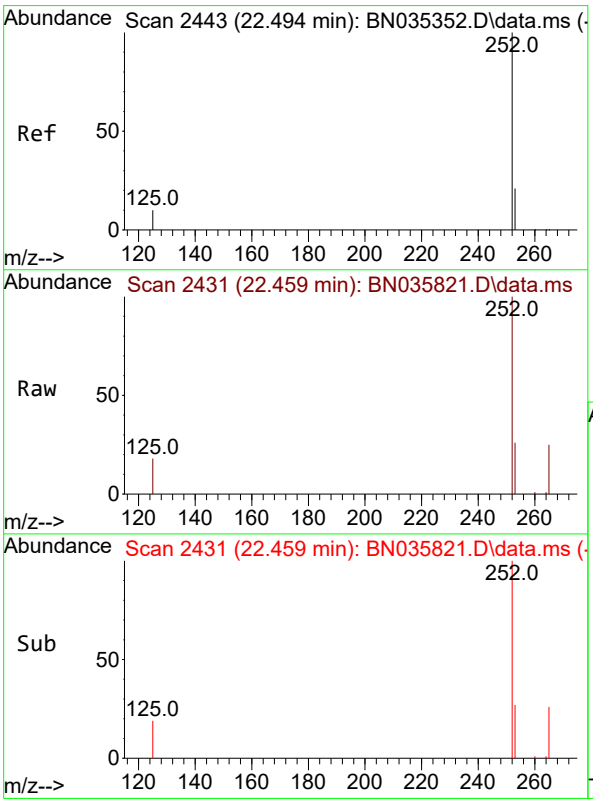
#37
Benzo(b)fluoranthene
Concen: 0.595 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:252 Resp: 20643

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.6	29.4
125	17.6	9.6	14.4#

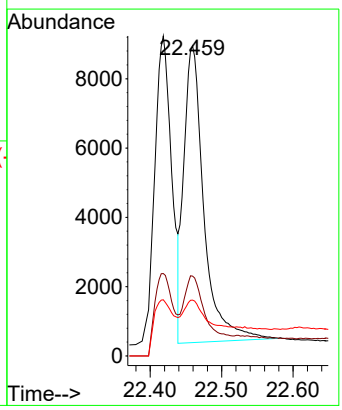


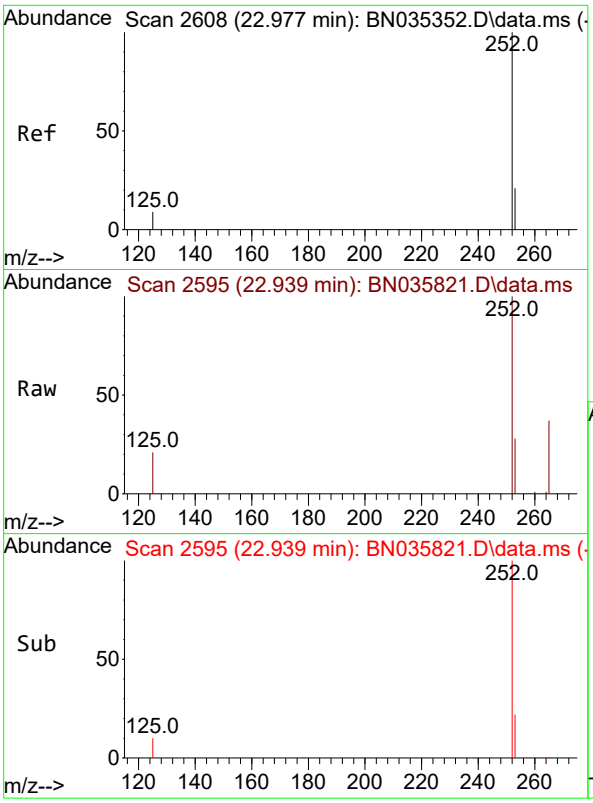


#38
Benzo(k)fluoranthene
Concen: 0.491 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 16743

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.5	29.3
125	18.0	10.2	15.4#



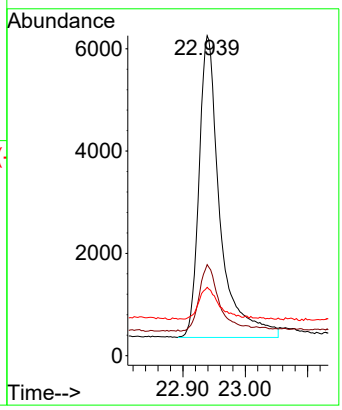


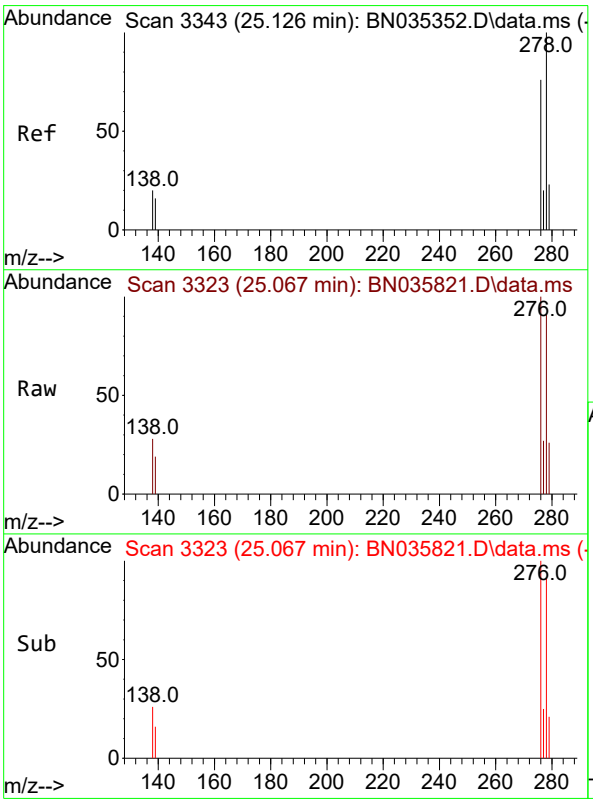
#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:252 Resp: 13748

Ion	Ratio	Lower	Upper
252	100		
253	28.5	20.2	30.4
125	21.3	10.9	16.3#

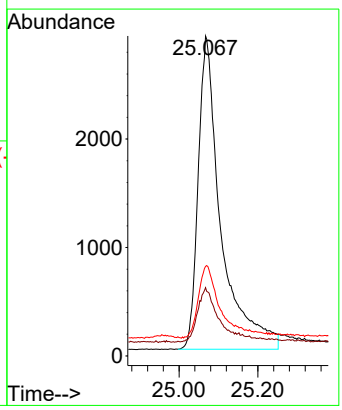


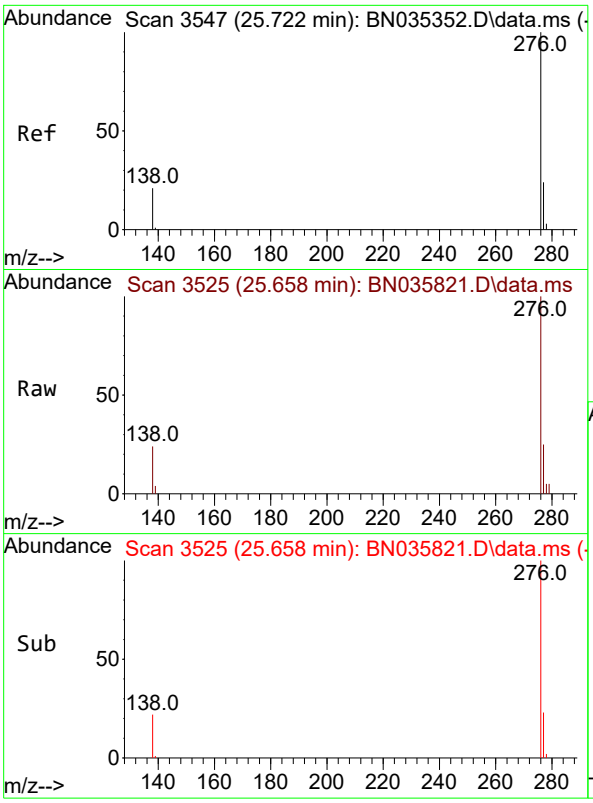


#40
Dibenzo(a,h)anthracene
Concen: 0.396 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:278 Resp: 11568

Ion	Ratio	Lower	Upper
278	100		
139	21.3	14.2	21.4
279	28.0	20.5	30.7



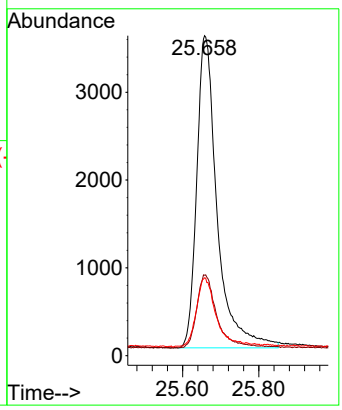


#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:276 Resp: 13235

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	24.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

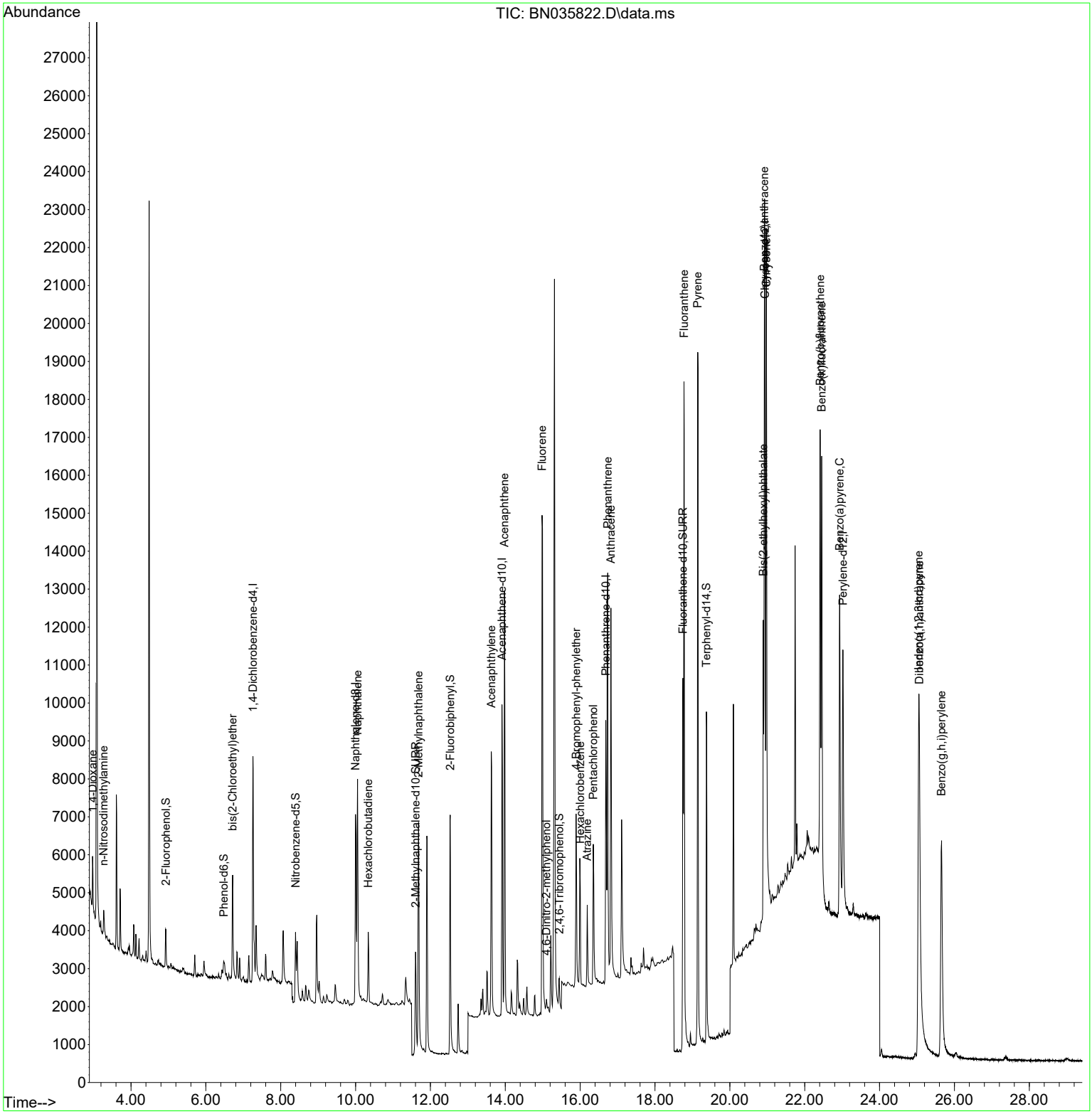
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3187	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	7953	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4887	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10068	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9501	0.400	ng	#-0.02
35) Perylene-d12	23.020	264	9990	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	967	0.121	ng	0.00
5) Phenol-d6	6.477	99	640	0.067	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2382	0.490	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5387	0.433	ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	787	0.227	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6851	0.371	ng	-0.02
27) Fluoranthene-d10	18.747	212	12293	0.431	ng	-0.01
31) Terphenyl-d14	19.374	244	9610	0.513	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	932	0.306	ng	# 75
3) n-Nitrosodimethylamine	3.270	42	376	0.148	ng	# 81
6) bis(2-Chloroethyl)ether	6.715	93	2448	0.304	ng	95
9) Naphthalene	10.052	128	8332	0.397	ng	99
10) Hexachlorobutadiene	10.340	225	1549	0.320	ng	# 99
12) 2-Methylnaphthalene	11.681	142	5571	0.371	ng	99
16) Acenaphthylene	13.625	152	8940	0.436	ng	100
17) Acenaphthene	13.978	154	5758	0.423	ng	99
18) Fluorene	14.983	166	7782	0.399	ng	98
20) 4,6-Dinitro-2-methylph...	15.100	198	341	0.344	ng	# 31
21) 4-Bromophenyl-phenylether	15.891	248	2147	0.365	ng	# 78
22) Hexachlorobenzene	16.003	284	2983	0.431	ng	95
23) Atrazine	16.189	200	1738	0.415	ng	96
24) Pentachlorophenol	16.351	266	2251	0.748	ng	87
25) Phenanthrene	16.735	178	13447	0.486	ng	99
26) Anthracene	16.822	178	11668	0.466	ng	98
28) Fluoranthene	18.775	202	16762	0.450	ng	99
30) Pyrene	19.142	202	17829	0.508	ng	99
32) Benzo(a)anthracene	20.920	228	15744	0.474	ng	100
33) Chrysene	20.974	228	16946	0.494	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6876	0.524	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	16588	0.425	ng	98
37) Benzo(b)fluoranthene	22.412	252	22222	0.608	ng	# 93
38) Benzo(k)fluoranthene	22.453	252	18080	0.503	ng	# 93
39) Benzo(a)pyrene	22.933	252	14639	0.486	ng	# 90
40) Dibenzo(a,h)anthracene	25.064	278	12290	0.399	ng	94
41) Benzo(g,h,i)perylene	25.655	276	13609	0.423	ng	98

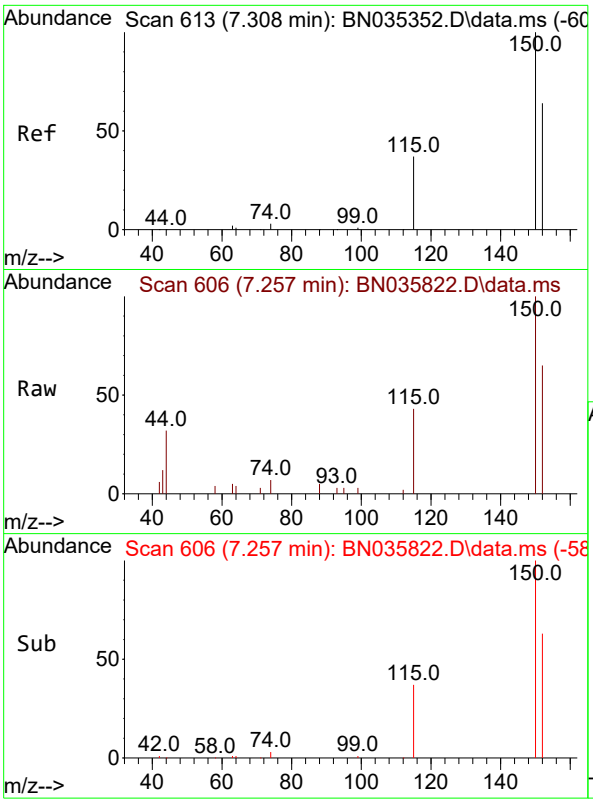
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



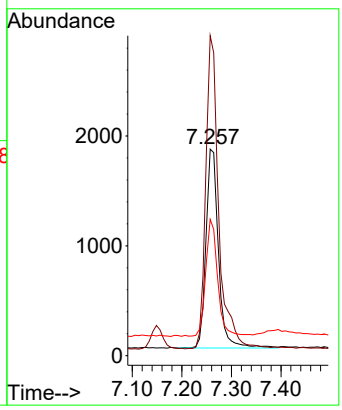


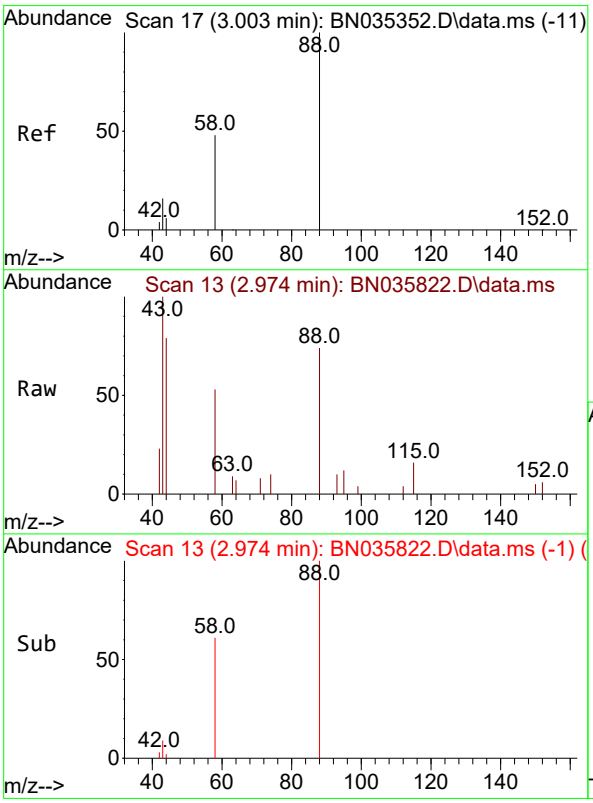
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:152 Resp: 3187

Ion	Ratio	Lower	Upper
152	100		
150	154.9	124.0	186.0
115	66.0	49.6	74.4

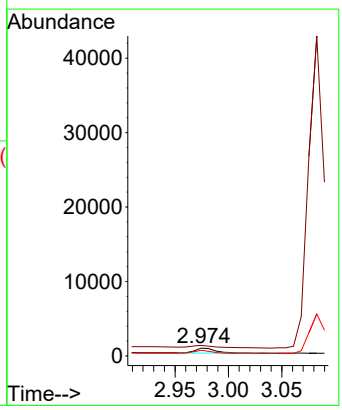


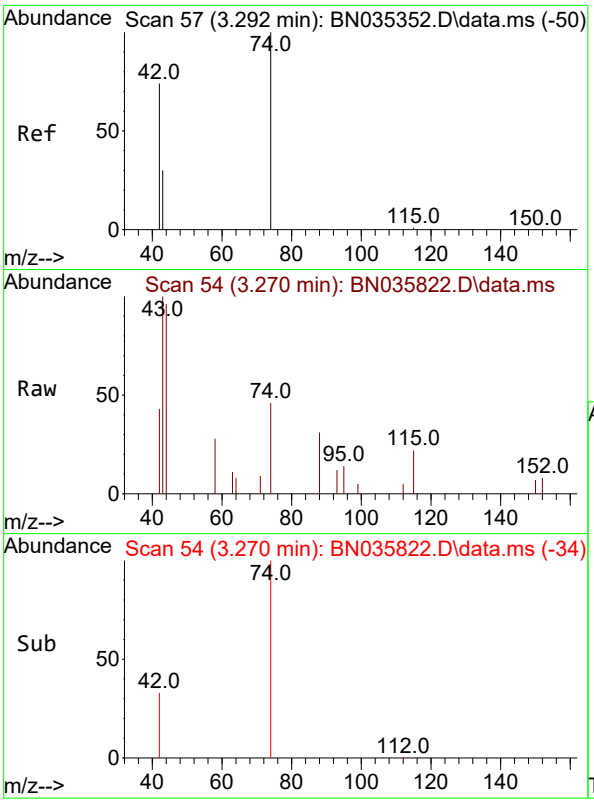


#2
1,4-Dioxane
Concen: 0.306 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 88 Resp: 932

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.2	25.8#
58	67.9	44.5	66.7#



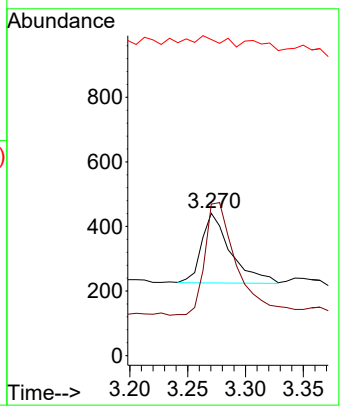


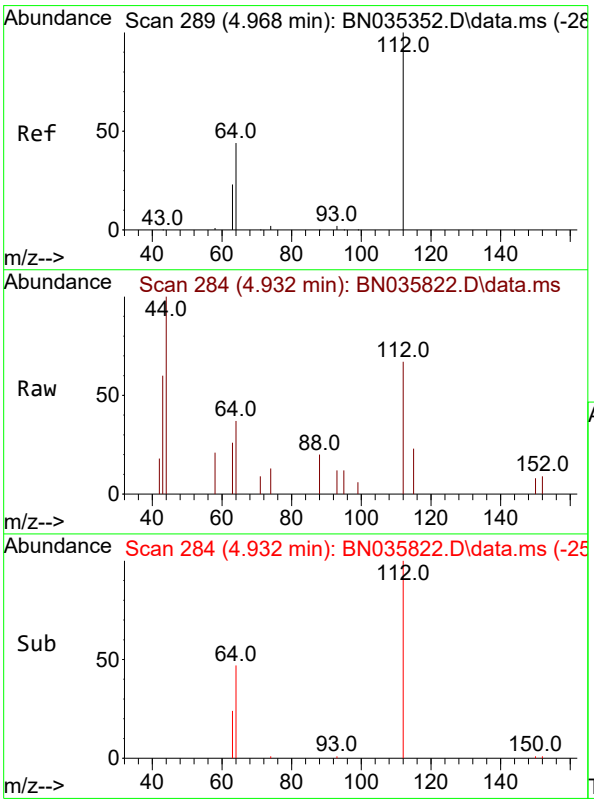
#3
n-Nitrosodimethylamine
Concen: 0.148 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion: 42 Resp: 376

Ion	Ratio	Lower	Upper
42	100		
74	180.6	124.9	187.3
44	0.0	2.2	3.4#

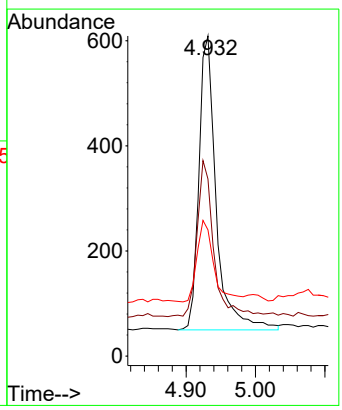


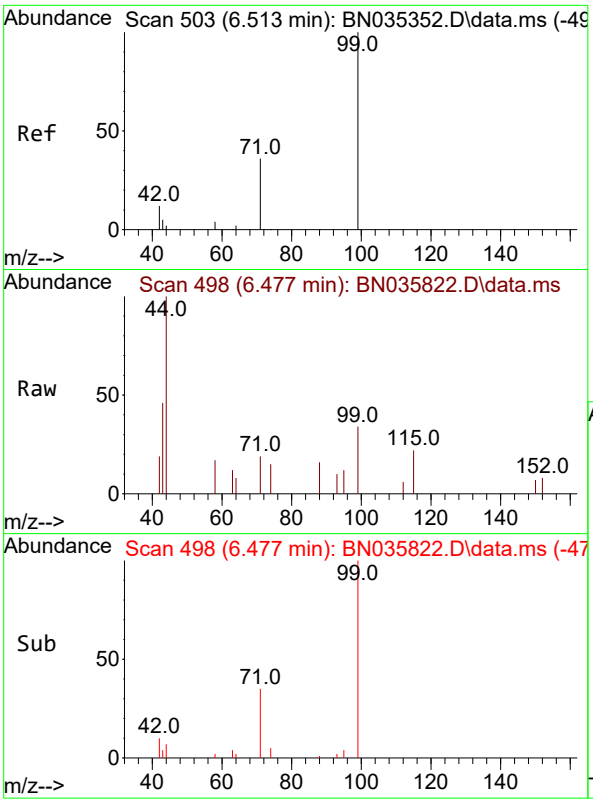


#4
2-Fluorophenol
Concen: 0.121 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:112 Resp: 967

Ion	Ratio	Lower	Upper
112	100		
64	52.6	39.8	59.8
63	27.0	21.0	31.6



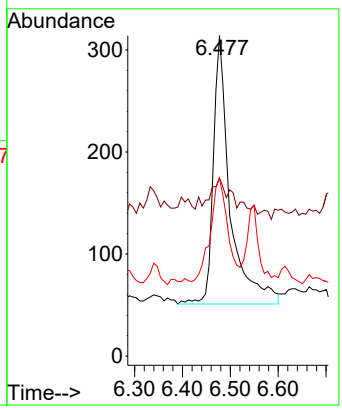


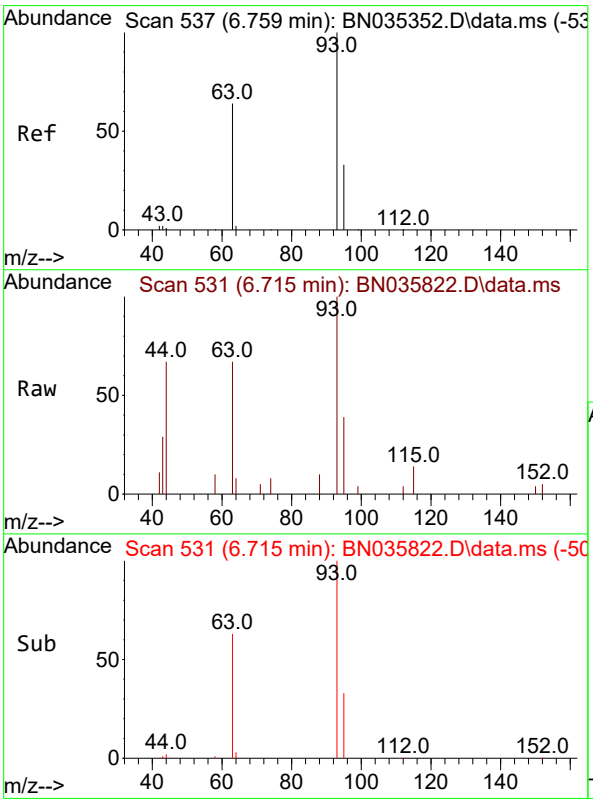
#5
Phenol-d6
Concen: 0.067 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion: 99 Resp: 640

Ion	Ratio	Lower	Upper
99	100		
42	16.3	11.4	17.2
71	42.2	29.3	43.9

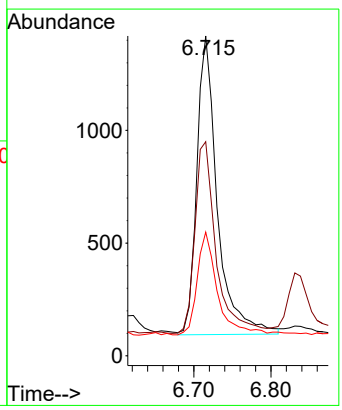


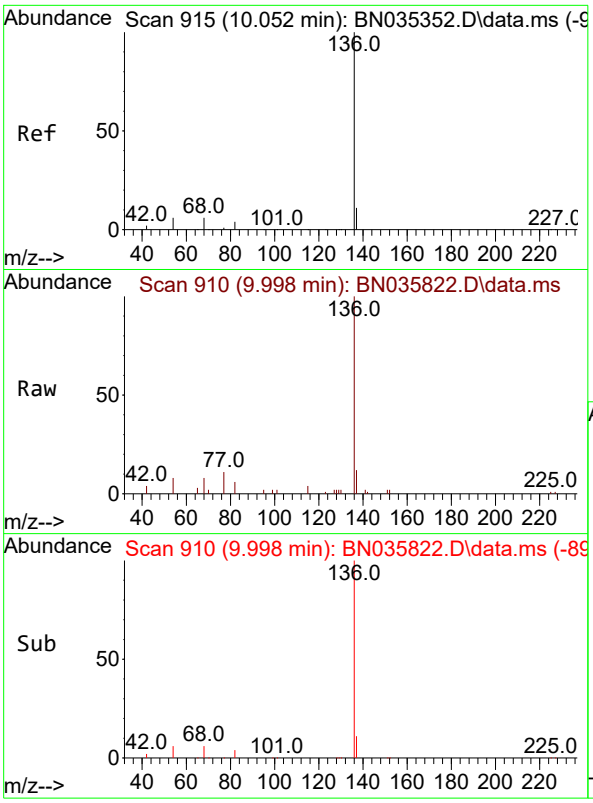


#6
bis(2-Chloroethyl)ether
Concen: 0.304 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 93 Resp: 2448

Ion	Ratio	Lower	Upper
93	100		
63	66.0	50.4	75.6
95	35.5	25.7	38.5



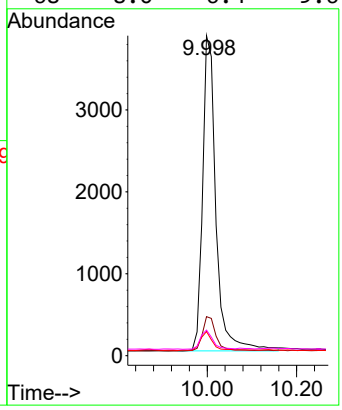


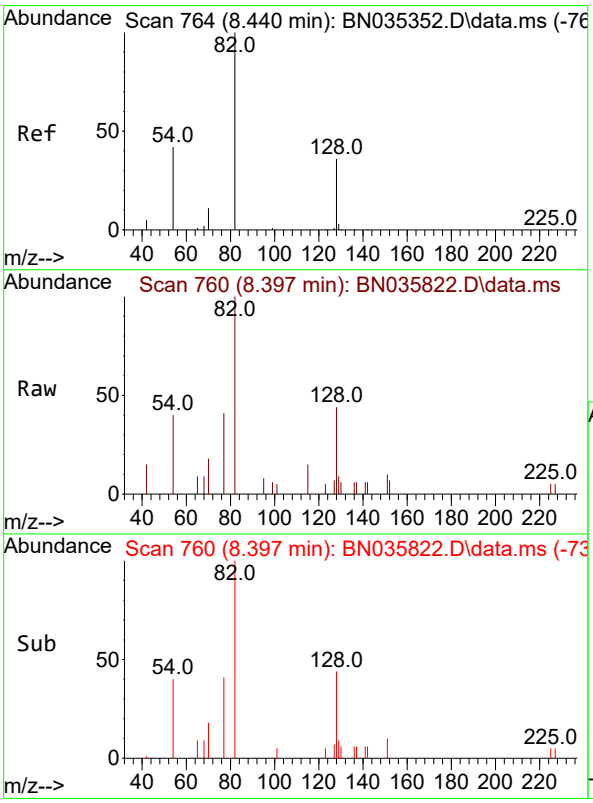
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:136 Resp: 7953

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6

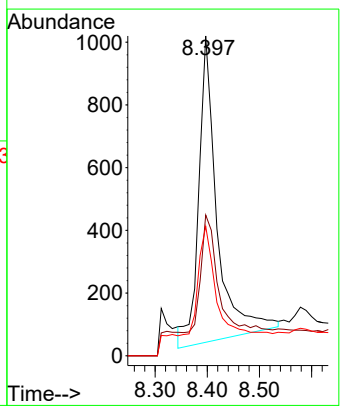


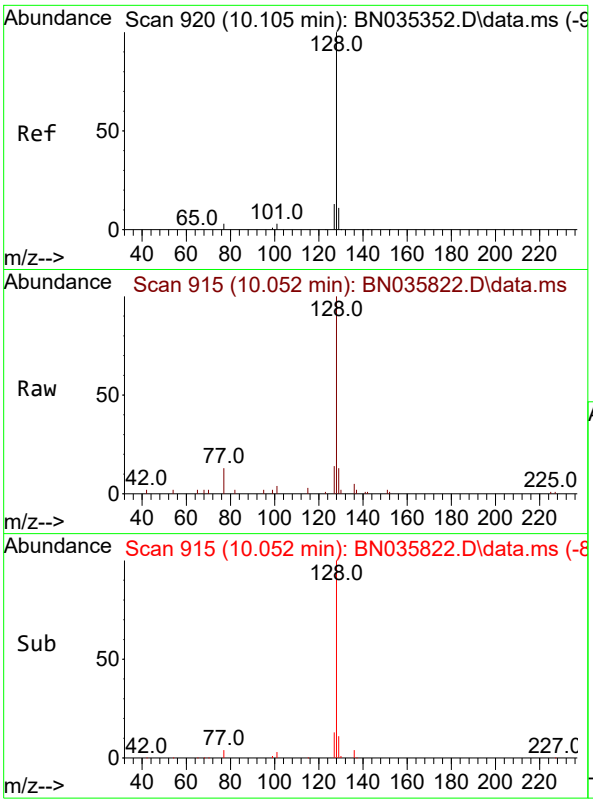


#8
Nitrobenzene-d5
Concen: 0.490 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 82 Resp: 2382

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.4	50.0
54	40.5	36.7	55.1



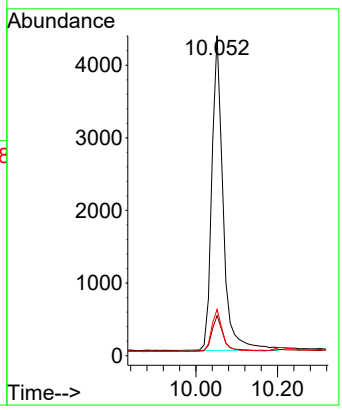


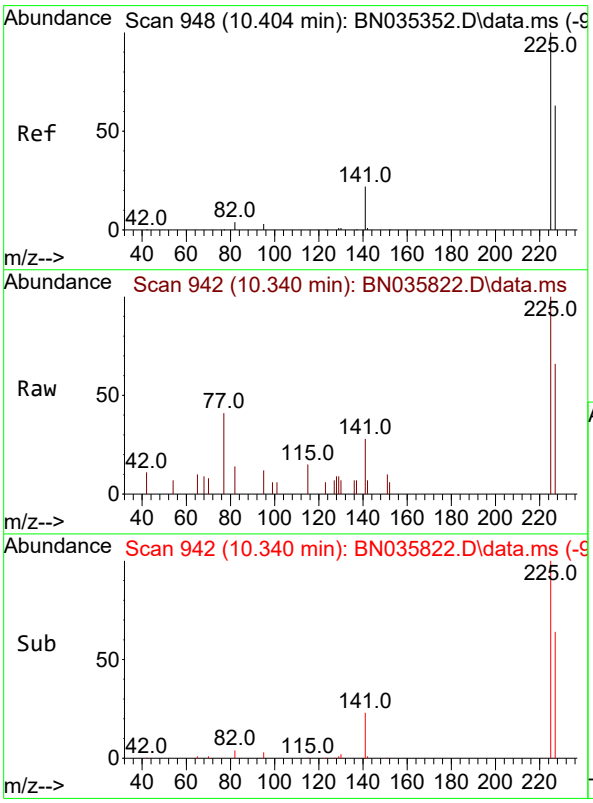
#9
Naphthalene
Concen: 0.397 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:128 Resp: 8332

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.4	11.4	17.2

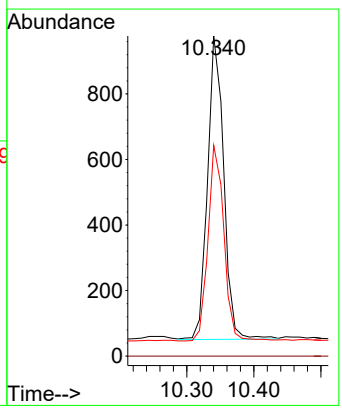


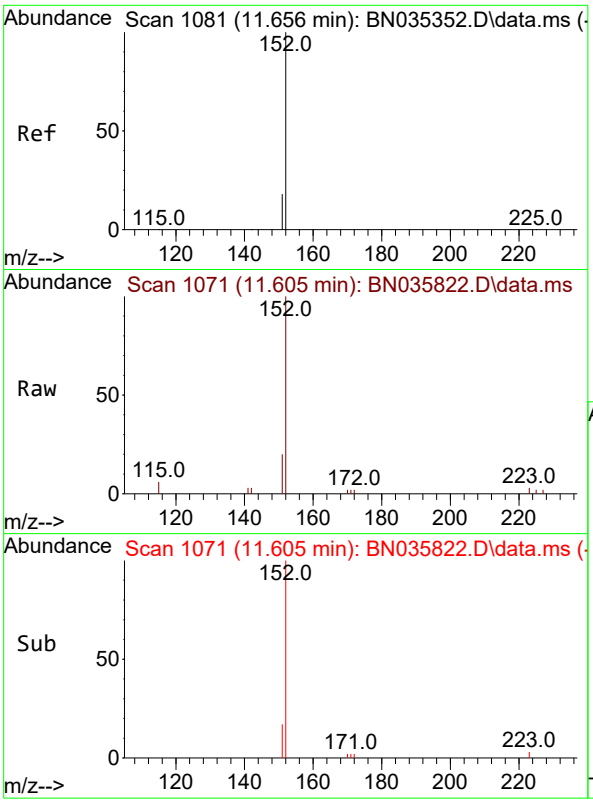


#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:225 Resp: 1549

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.3	76.9



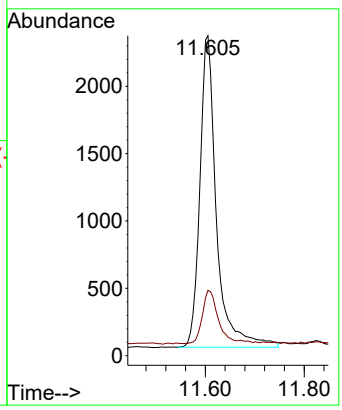


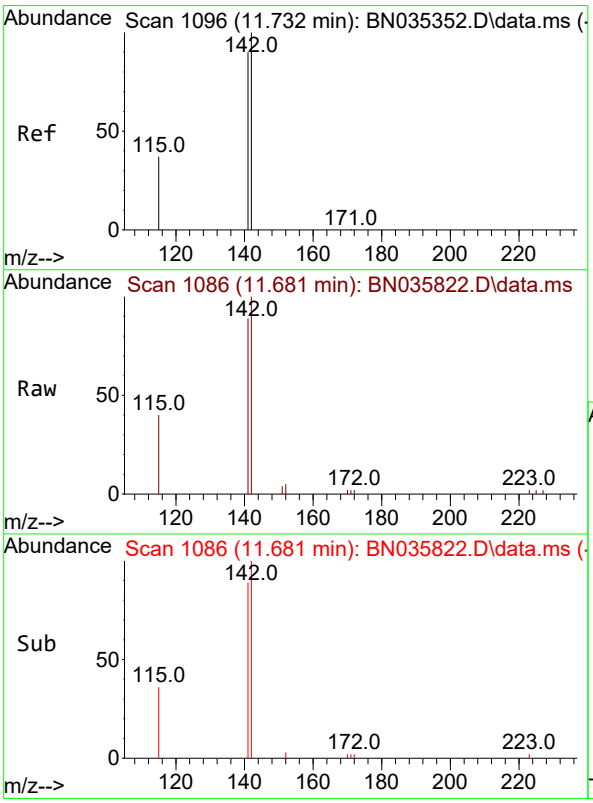
#11
2-Methylnaphthalene-d10
Concen: 0.433 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:152 Resp: 5387

Ion	Ratio	Lower	Upper
152	100		
151	16.6	16.6	25.0#

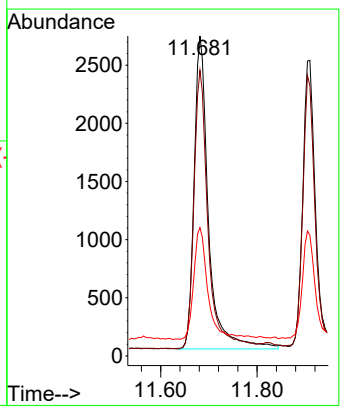


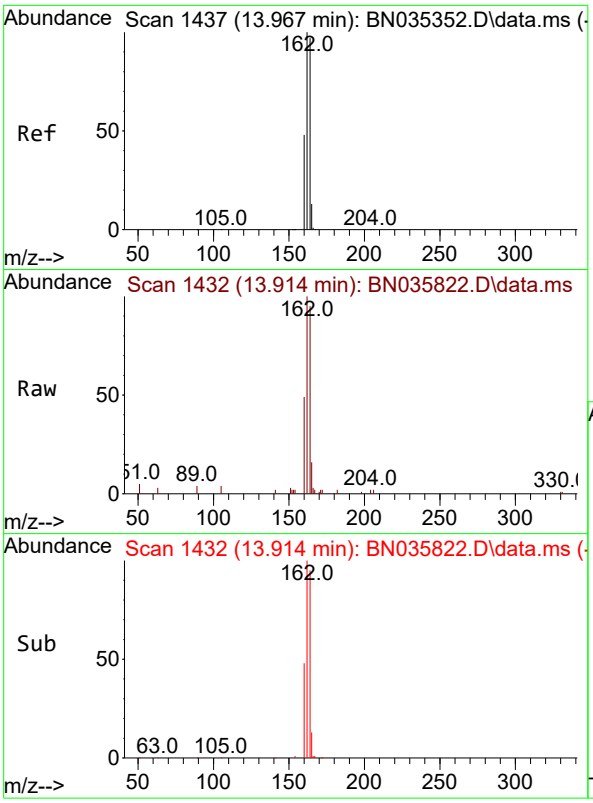


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:142 Resp: 5571

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.1	31.4	47.0



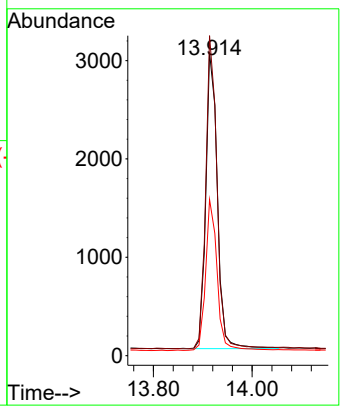


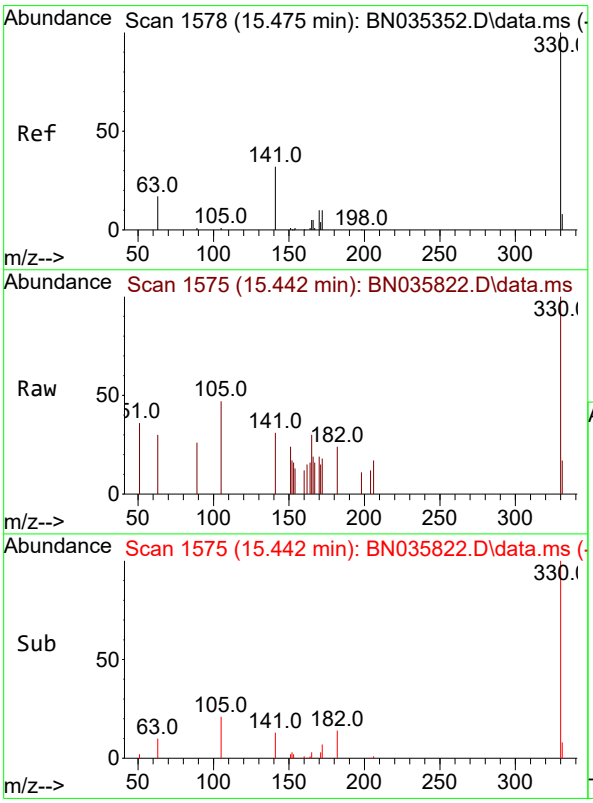
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:164 Resp: 4887

Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.2	123.2
160	51.5	40.1	60.1

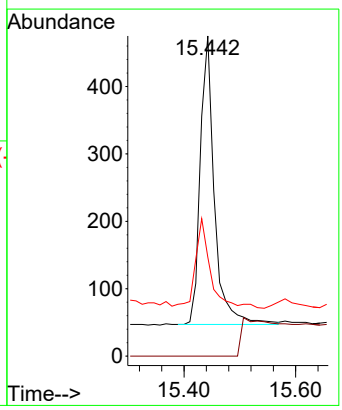


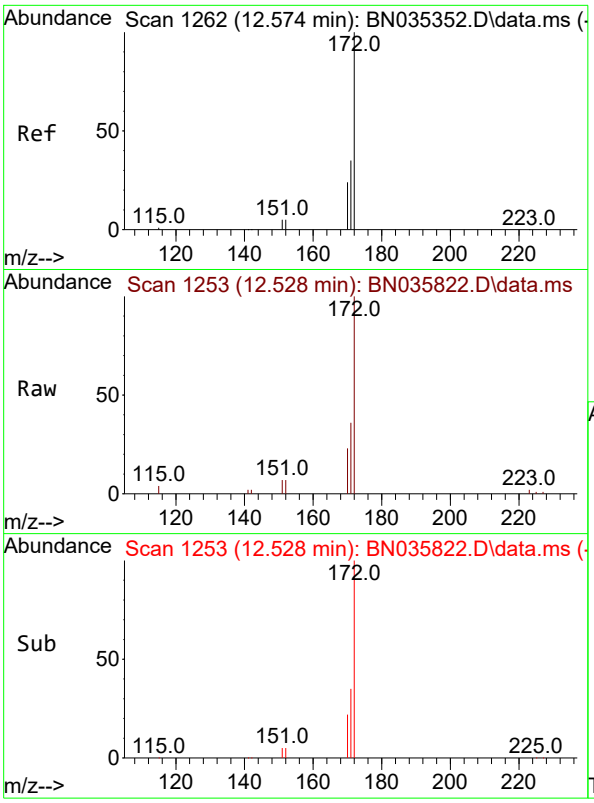


#14
2,4,6-Tribromophenol
Concen: 0.227 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:330 Resp: 787

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.5	26.6	40.0



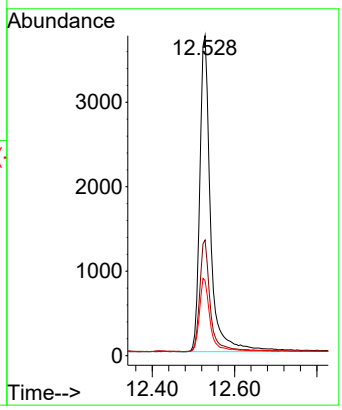


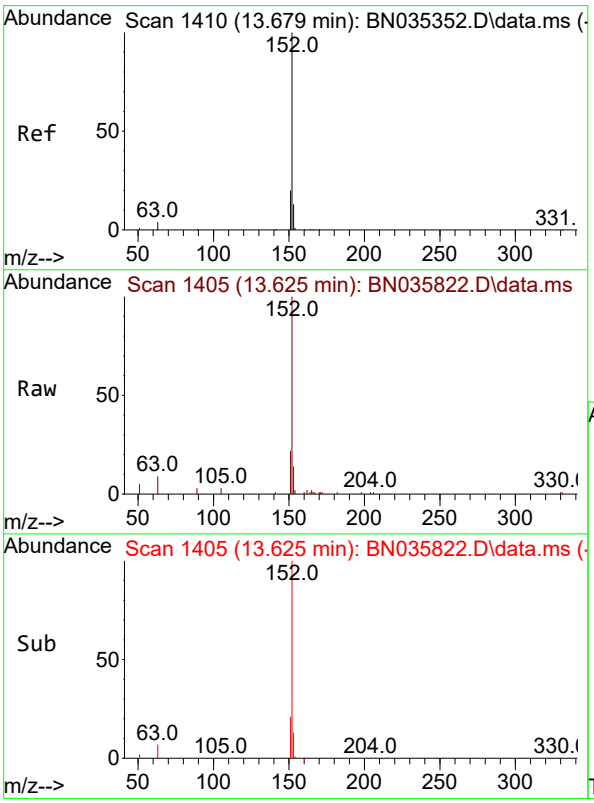
#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:172 Resp: 6851

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	23.5	19.8	29.8

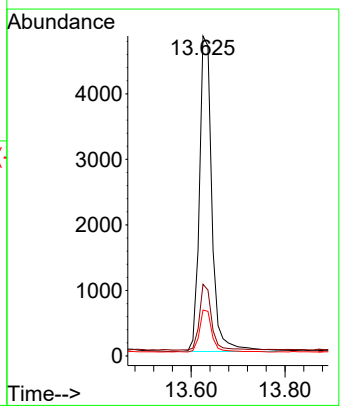


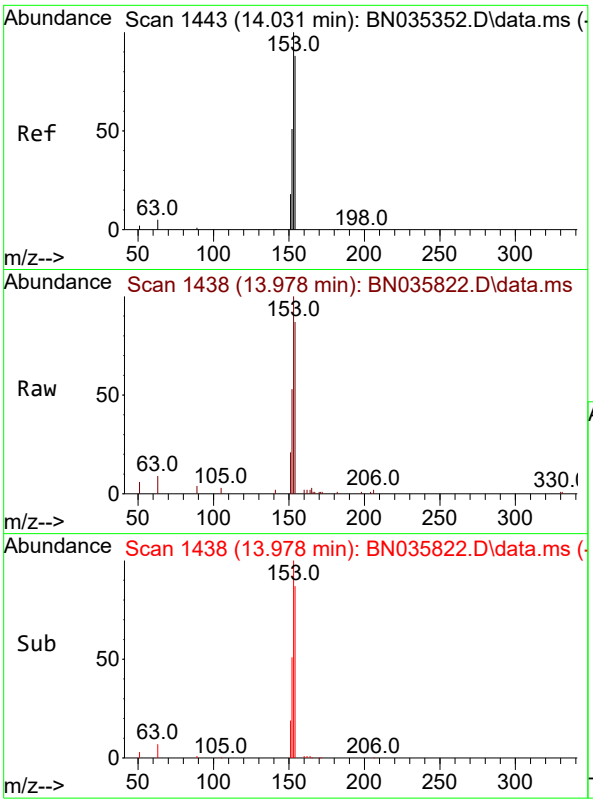


#16
Acenaphthylene
Concen: 0.436 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 8940

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.4	10.4	15.6



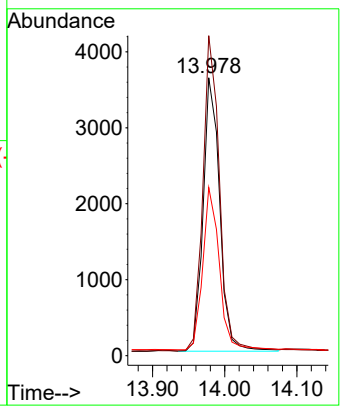


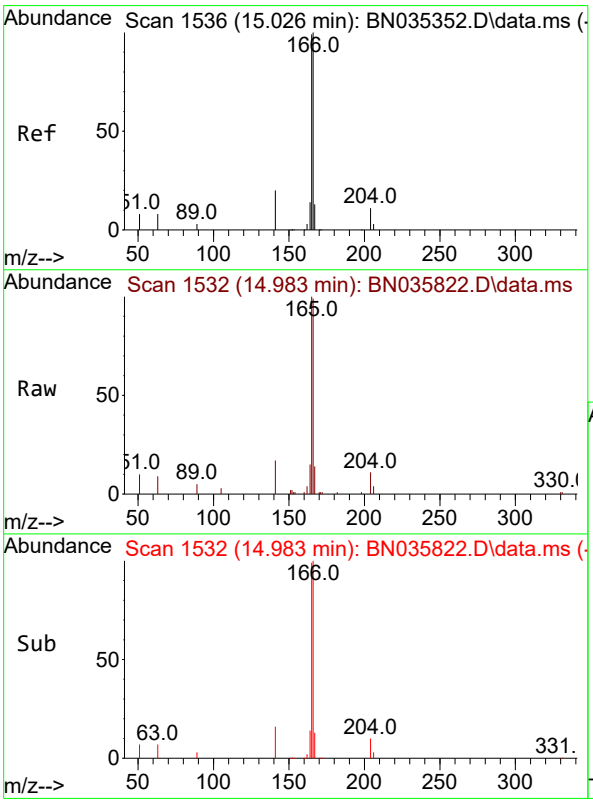
#17
Acenaphthene
Concen: 0.423 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:154 Resp: 5758

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	58.9	49.0	73.6

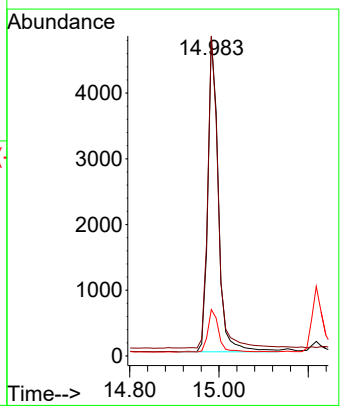


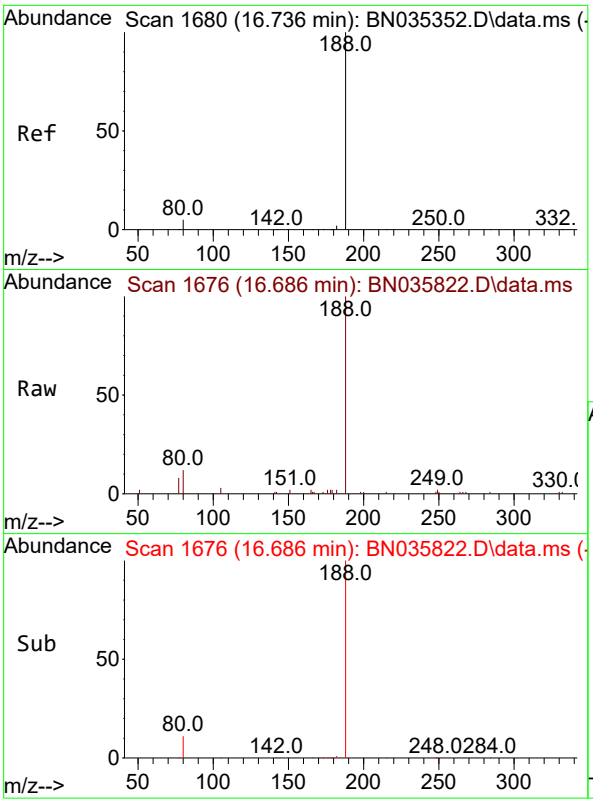


#18
Fluorene
Concen: 0.399 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:166 Resp: 7782

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.9	10.8	16.2



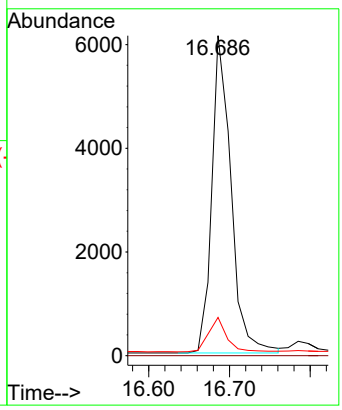


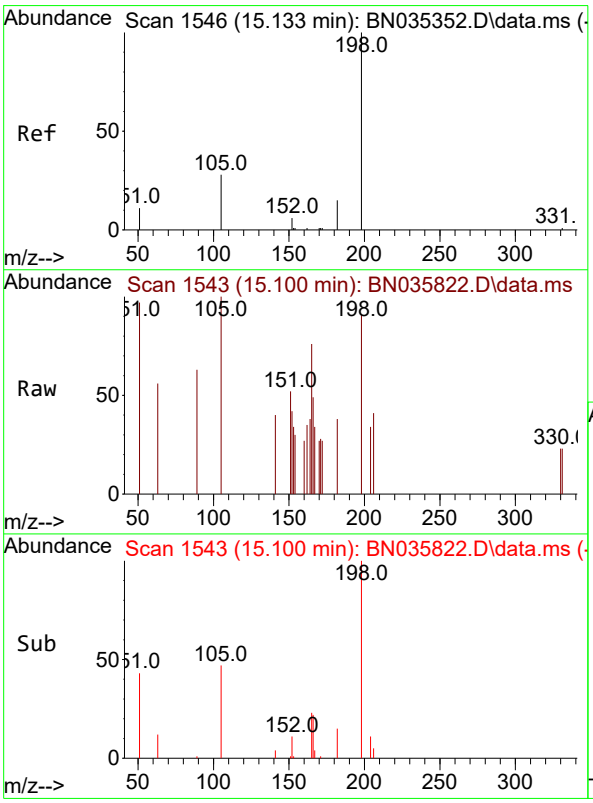
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:188 Resp: 10068

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#

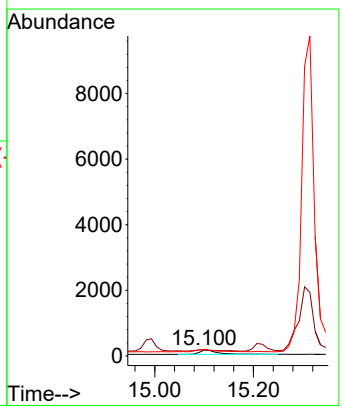


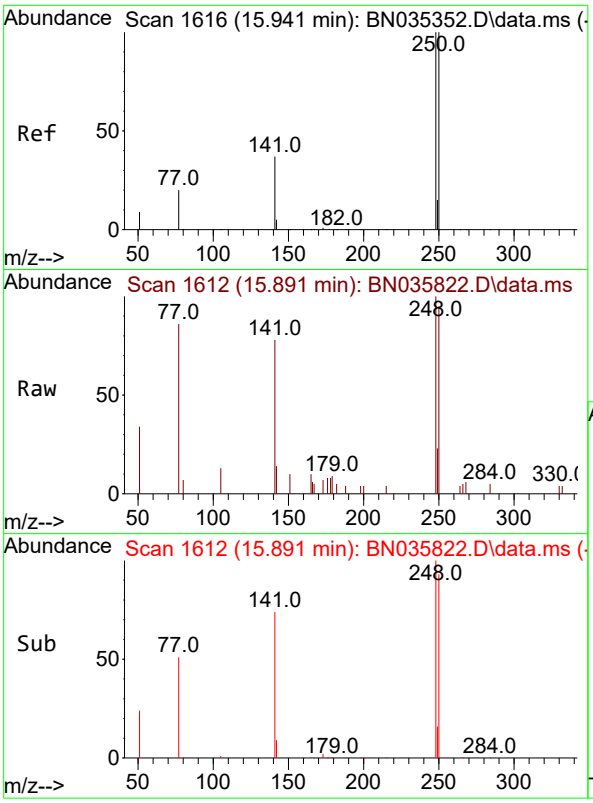


#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:198 Resp: 341

Ion	Ratio	Lower	Upper
198	100		
51	106.6	46.5	69.7#
105	109.9	45.3	67.9#



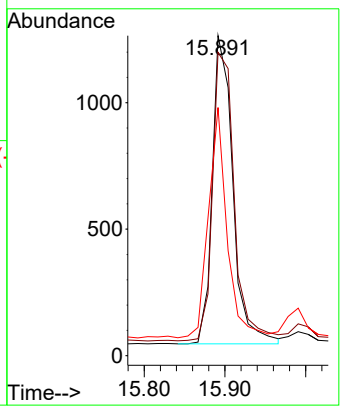


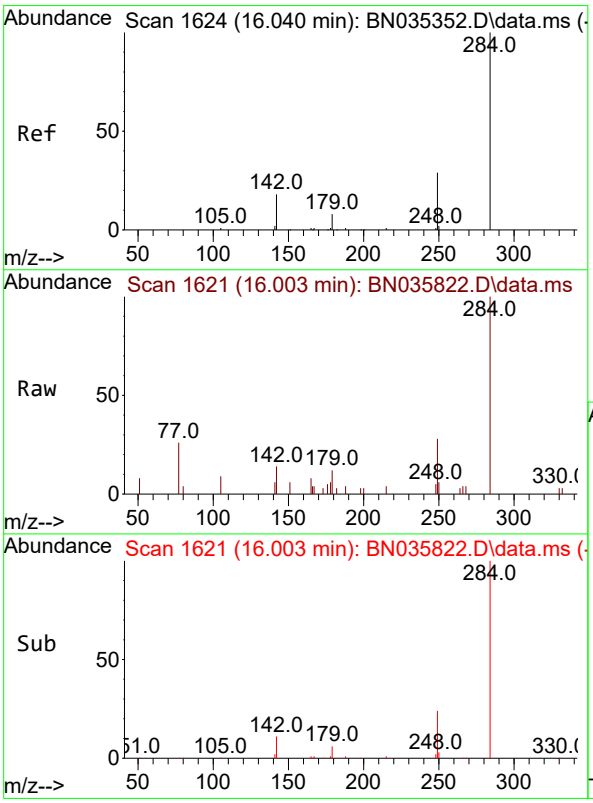
#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:248 Resp: 2147

Ion	Ratio	Lower	Upper
248	100		
250	94.8	80.6	120.8
141	77.5	31.5	47.3#

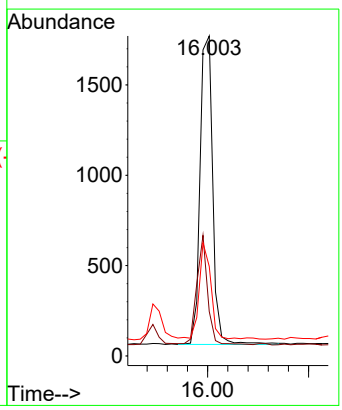


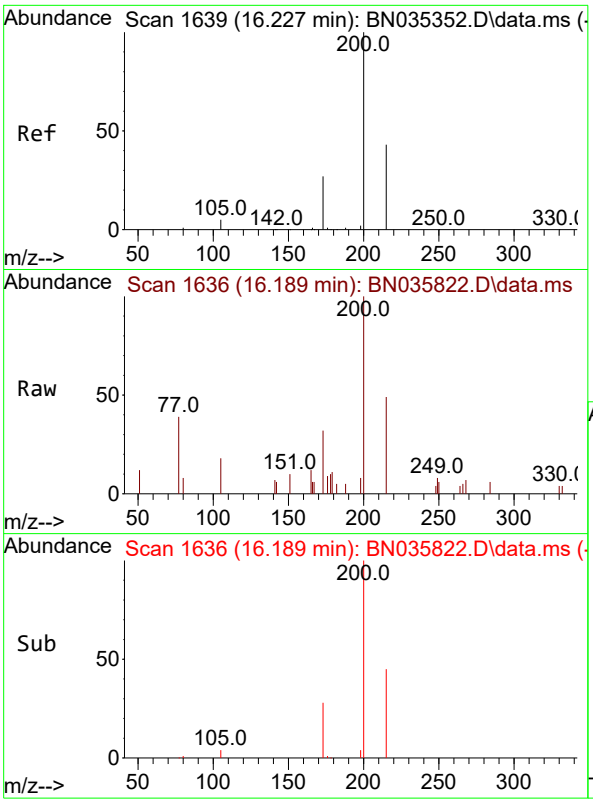


#22
Hexachlorobenzene
Concen: 0.431 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:284 Resp: 2983

Ion	Ratio	Lower	Upper
284	100		
142	30.0	26.7	40.1
249	28.6	24.6	36.8



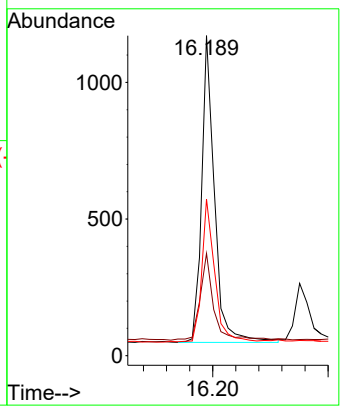


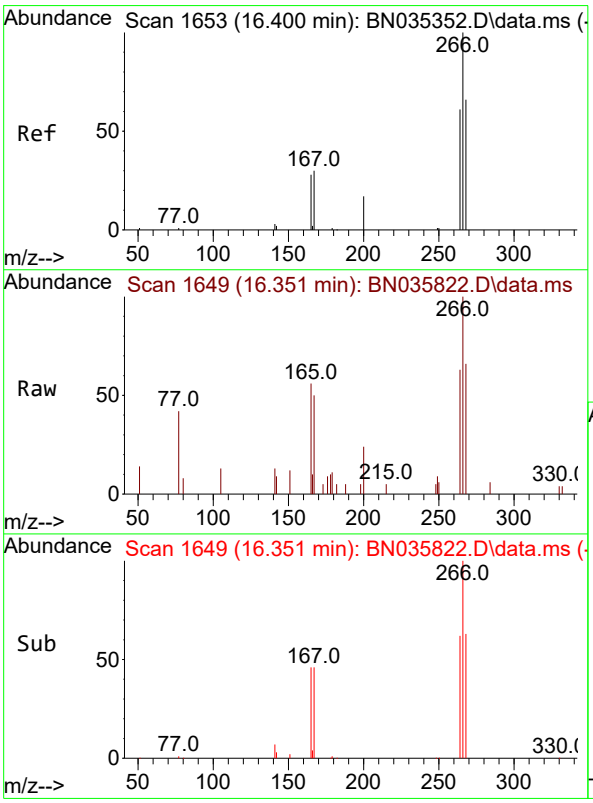
#23
Atrazine
Concen: 0.415 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:200 Resp: 1738

Ion	Ratio	Lower	Upper
200	100		
173	31.9	24.1	36.1
215	48.9	36.9	55.3

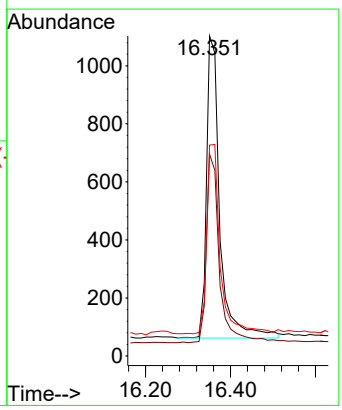


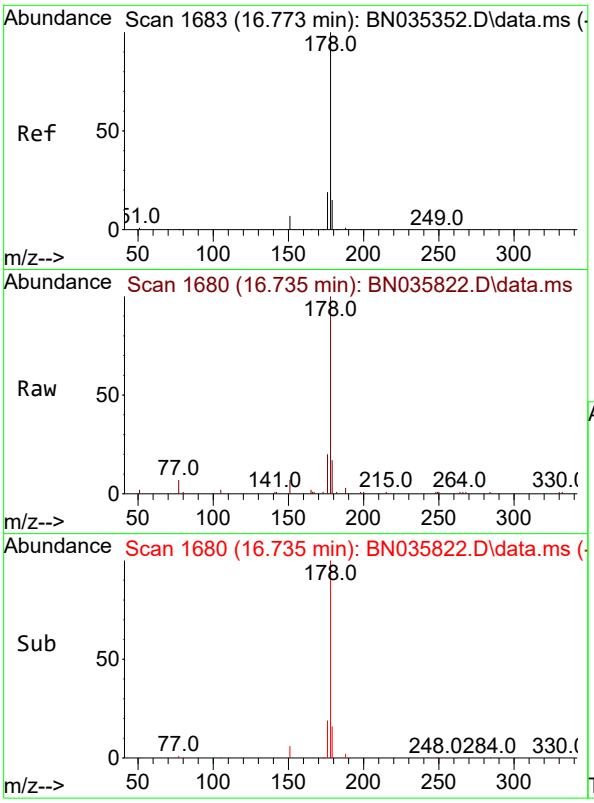


#24
Pentachlorophenol
Concen: 0.748 ng
RT: 16.351 min Scan# 1649
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:266 Resp: 2251

Ion	Ratio	Lower	Upper
266	100		
264	61.1	42.3	63.5
268	64.2	43.3	64.9



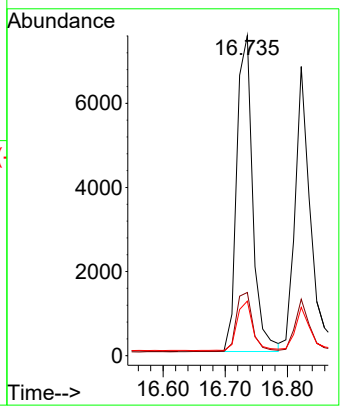


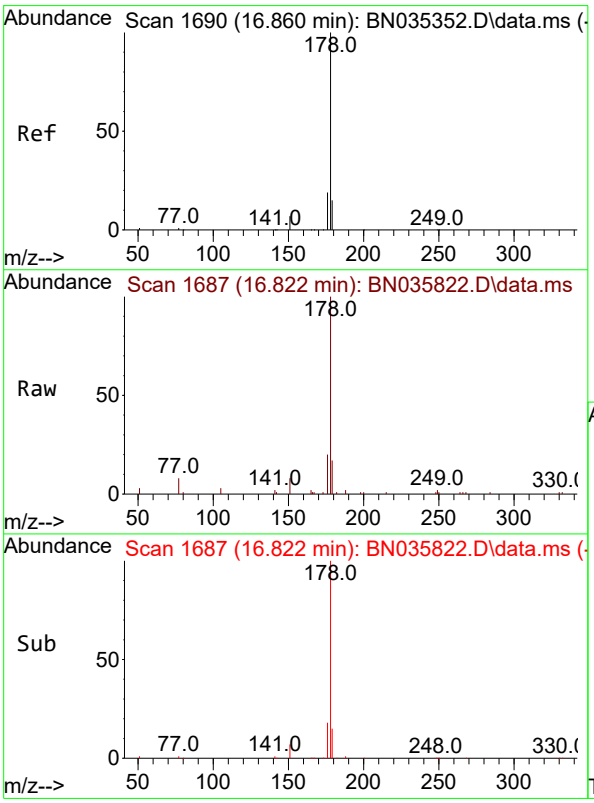
#25
Phenanthrene
Concen: 0.486 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:178 Resp: 13447

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.6	12.3	18.5

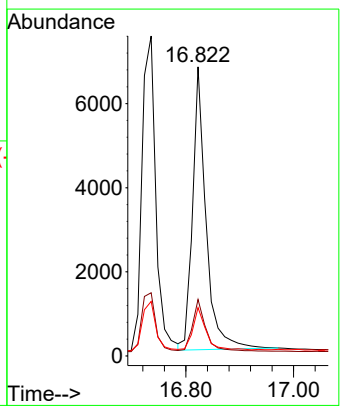


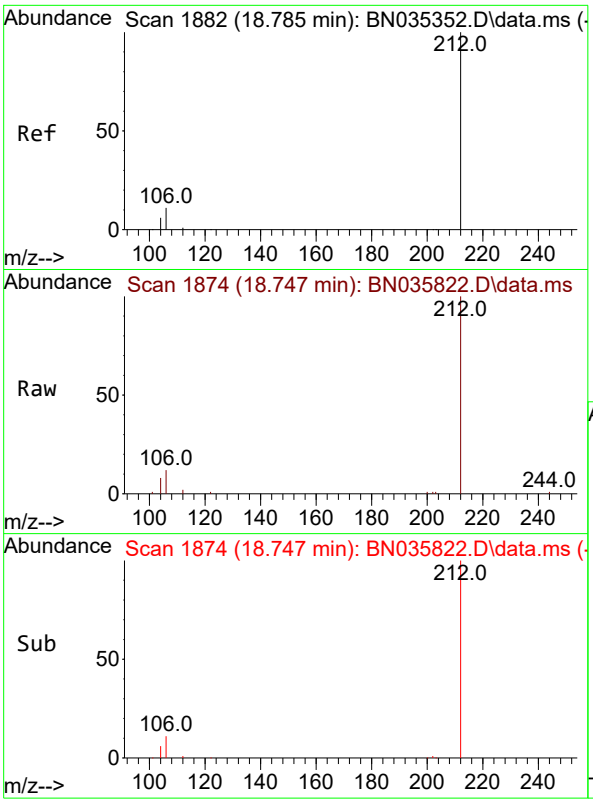


#26
Anthracene
Concen: 0.466 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 11668

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.6
179	14.9	12.6	18.8



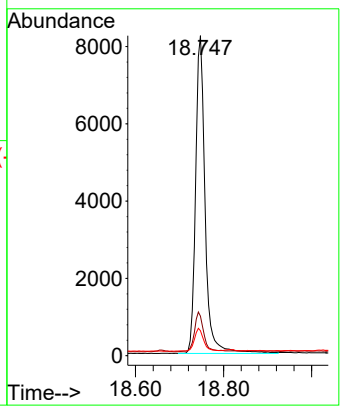


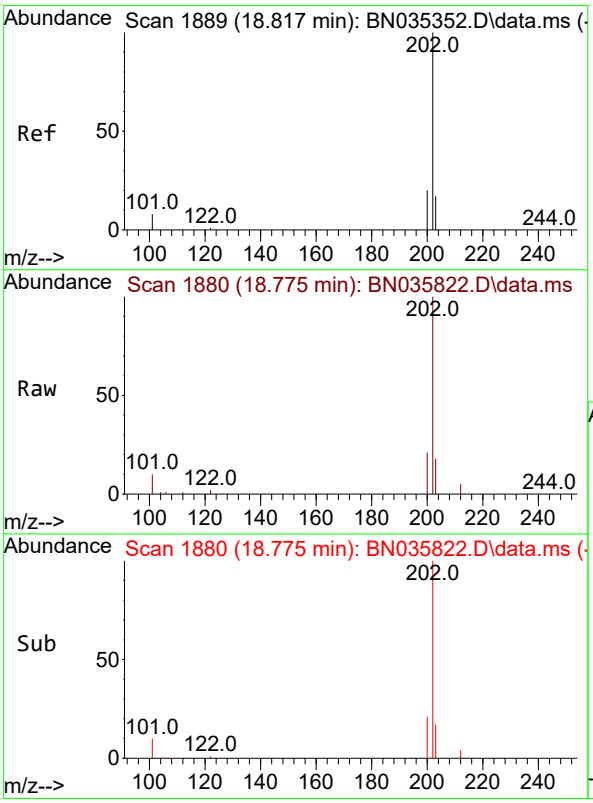
#27
Fluoranthene-d10
Concen: 0.431 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:212 Resp: 12293

Ion	Ratio	Lower	Upper
212	100		
106	12.4	9.2	13.8
104	6.8	5.3	7.9

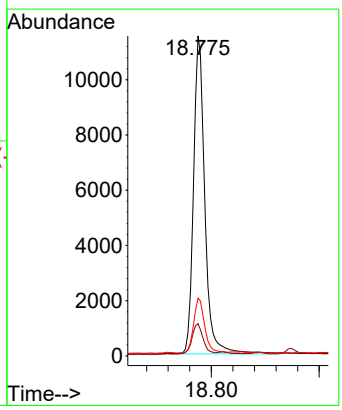


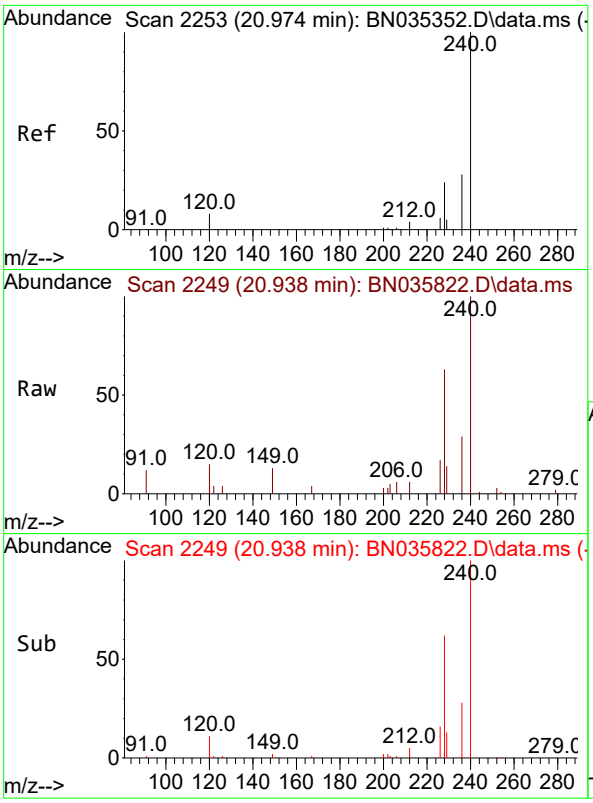


#28
Fluoranthene
Concen: 0.450 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 16762

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	16.8	13.7	20.5



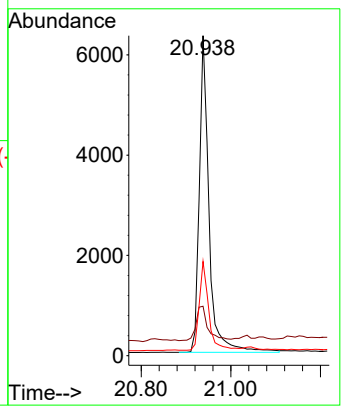


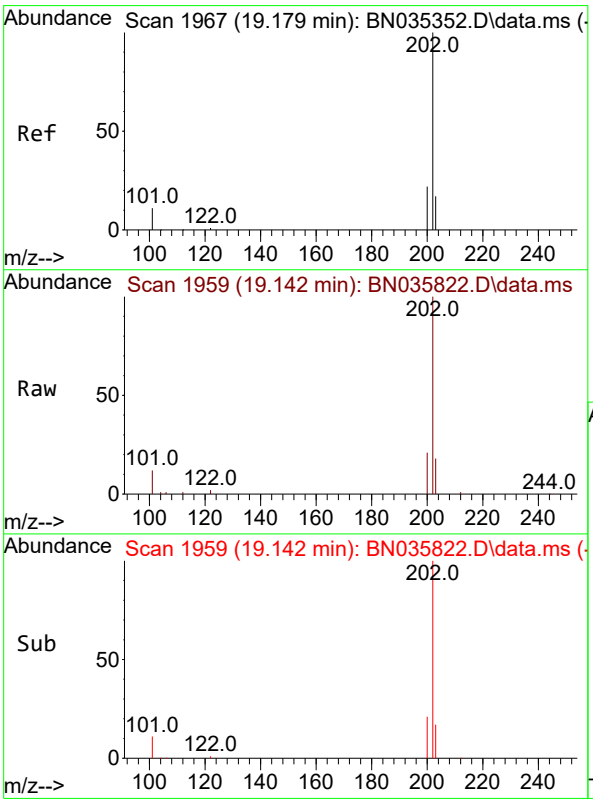
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:240 Resp: 9501

Ion	Ratio	Lower	Upper
240	100		
120	15.4	7.9	11.9#
236	29.5	22.9	34.3

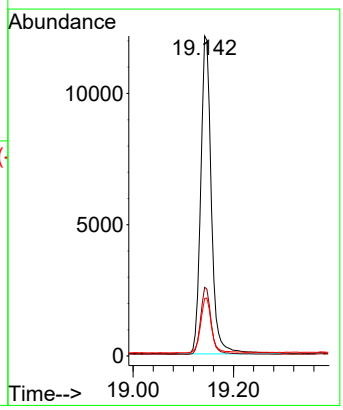


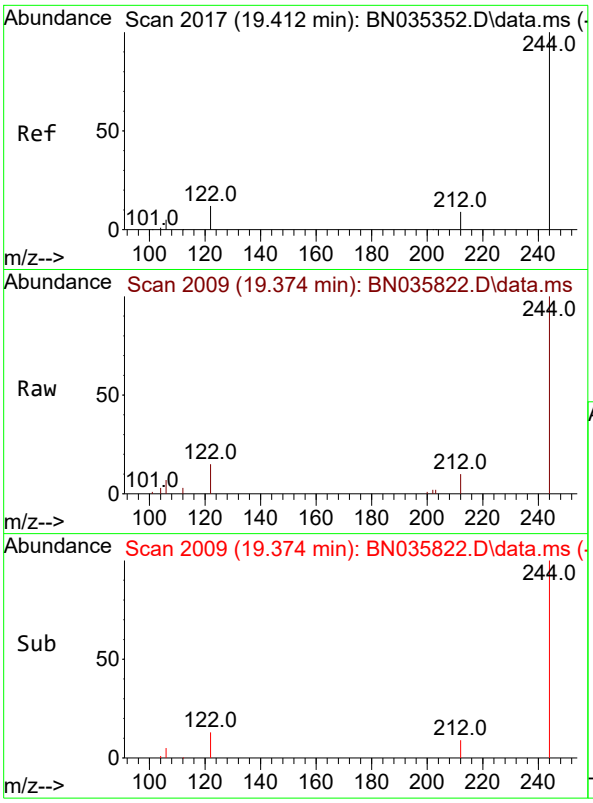


#30
Pyrene
Concen: 0.508 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 17829

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.7	14.3	21.5



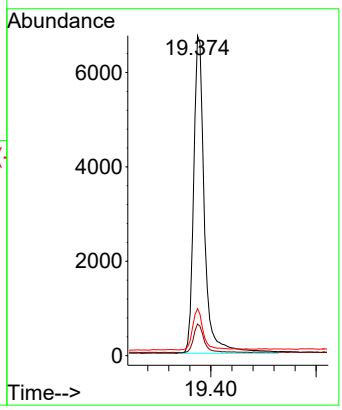


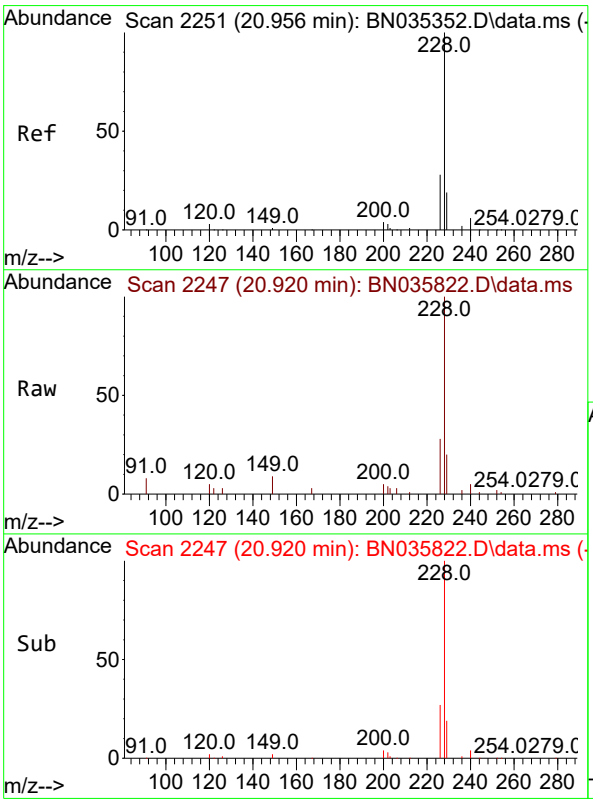
#31
Terphenyl-d14
Concen: 0.513 ng
RT: 19.374 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:244 Resp: 9610

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	14.7	10.3	15.5

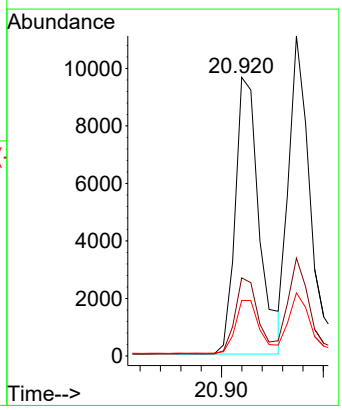


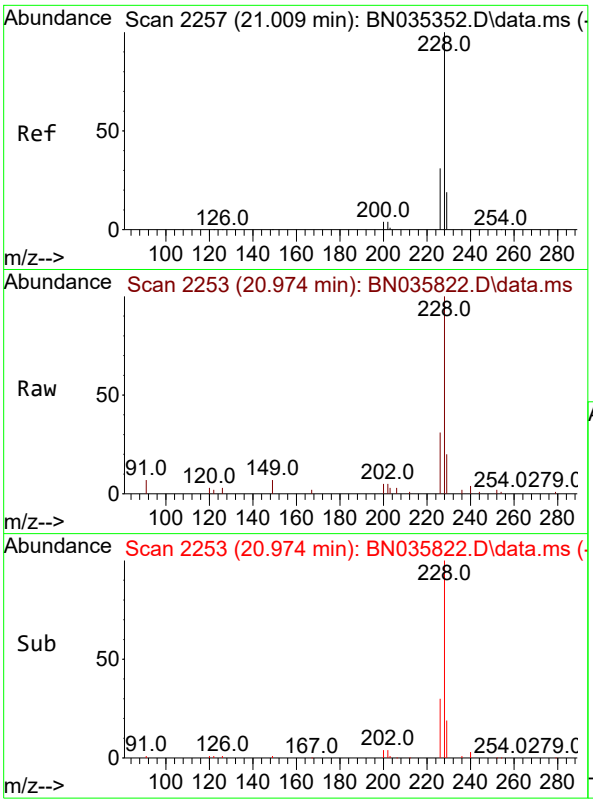


#32
Benzo(a)anthracene
Concen: 0.474 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 15744

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.0	15.8	23.8



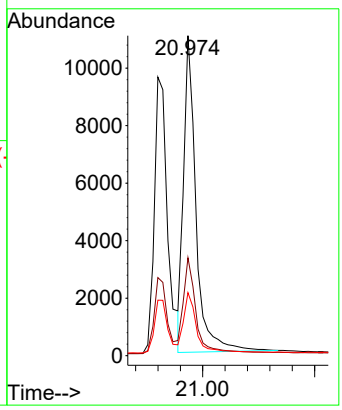


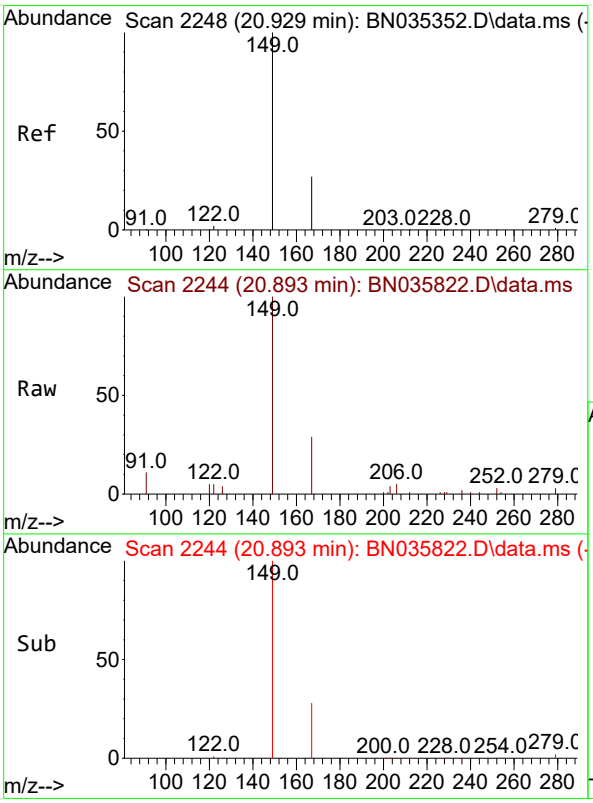
#33
Chrysene
Concen: 0.494 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:228 Resp: 16946

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.7	15.9	23.9

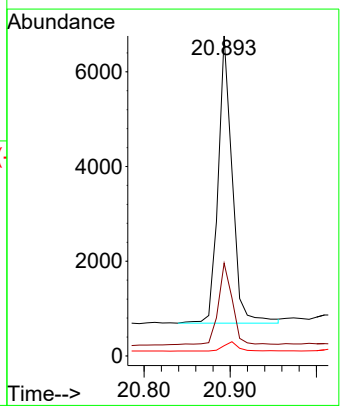


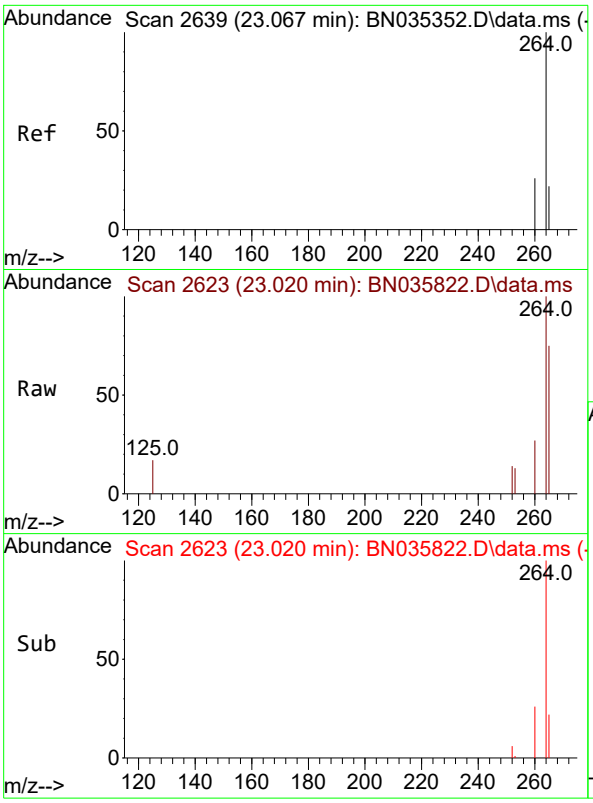


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.524 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:149 Resp: 6876

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.2	33.4
279	3.2	2.7	4.1



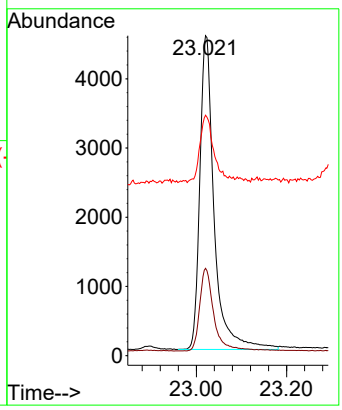


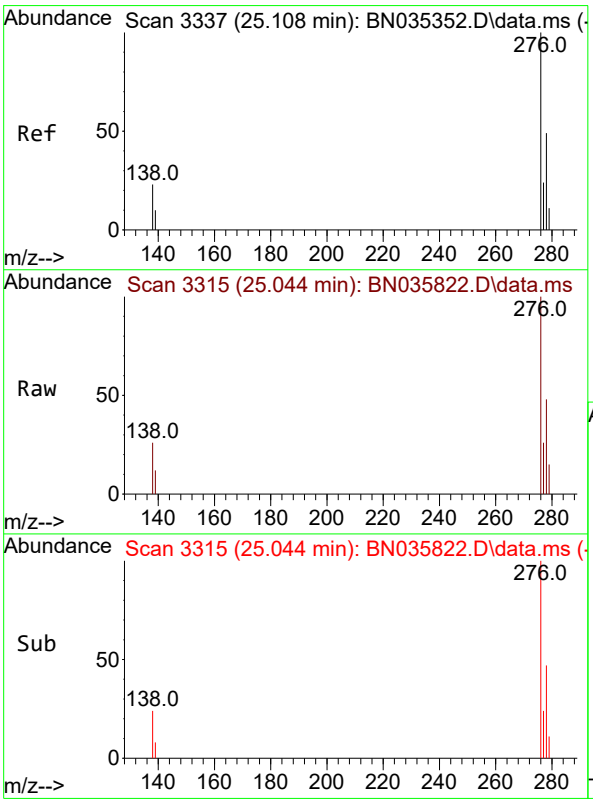
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.020 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:264 Resp: 9990

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	75.1	40.2	60.4#

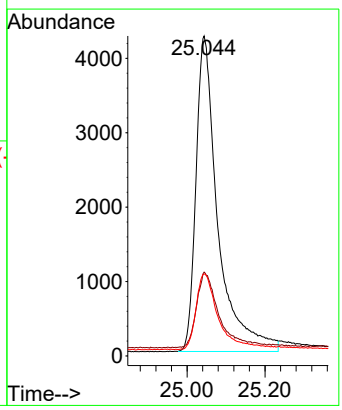


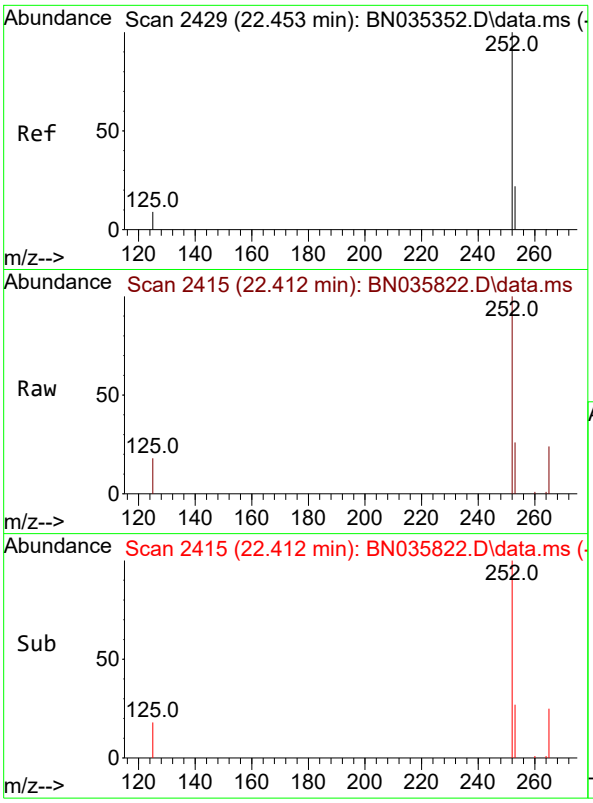


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:276 Resp: 16588

Ion	Ratio	Lower	Upper
276	100		
138	23.3	19.4	29.0
277	23.8	19.8	29.6



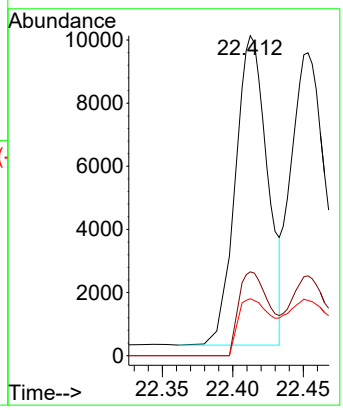


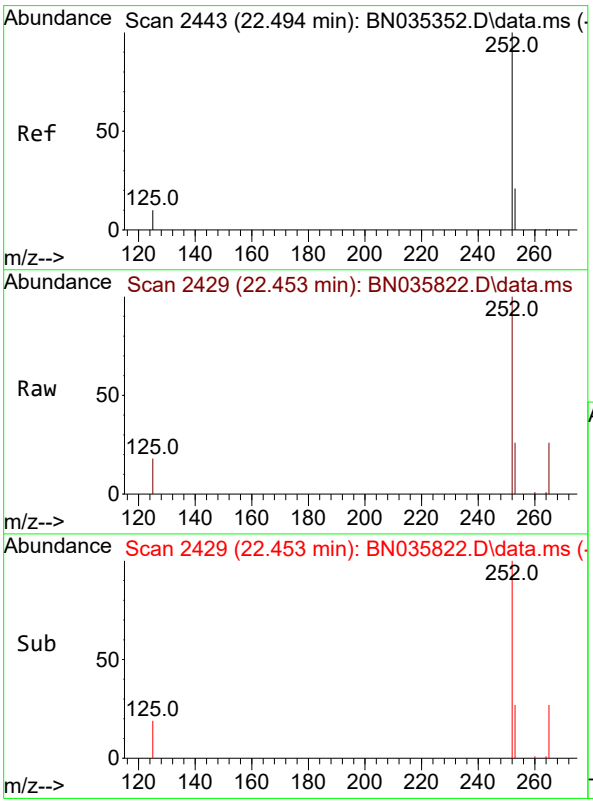
#37
Benzo(b)fluoranthene
Concen: 0.608 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:252 Resp: 22222

Ion	Ratio	Lower	Upper
252	100		
253	26.2	19.6	29.4
125	17.8	9.6	14.4#

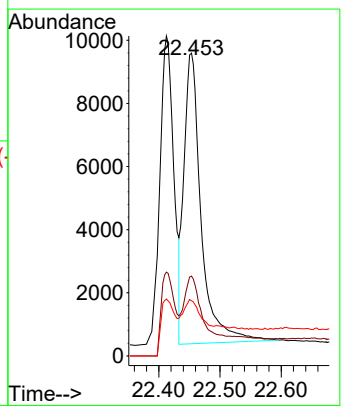


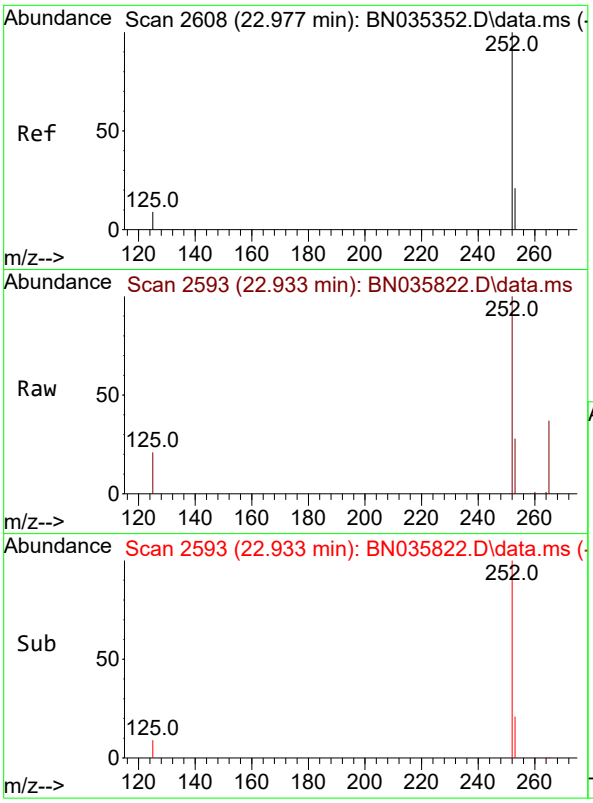


#38
Benzo(k)fluoranthene
Concen: 0.503 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 18080

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.5	29.3
125	18.2	10.2	15.4#



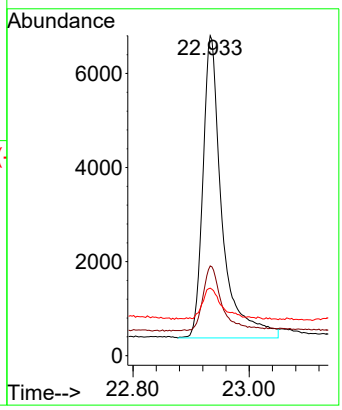


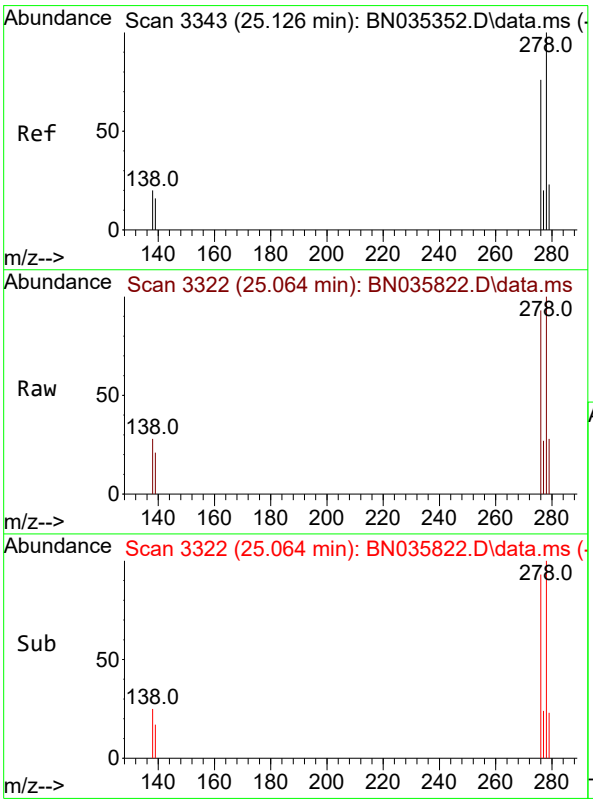
#39
Benzo(a)pyrene
Concen: 0.486 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:252 Resp: 14639

Ion	Ratio	Lower	Upper
252	100		
253	28.1	20.2	30.4
125	21.1	10.9	16.3#

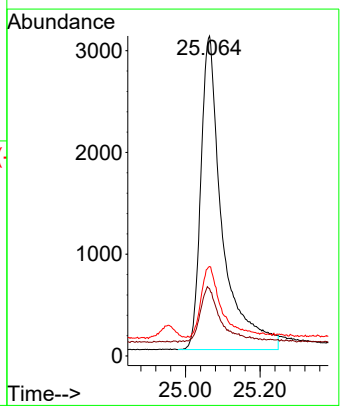


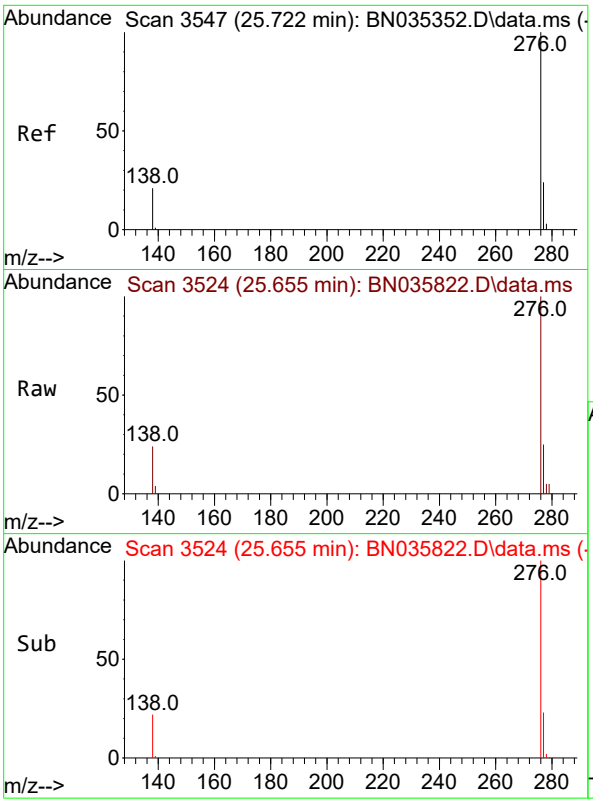


#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:278 Resp: 12290

Ion	Ratio	Lower	Upper
278	100		
139	21.1	14.2	21.4
279	28.0	20.5	30.7



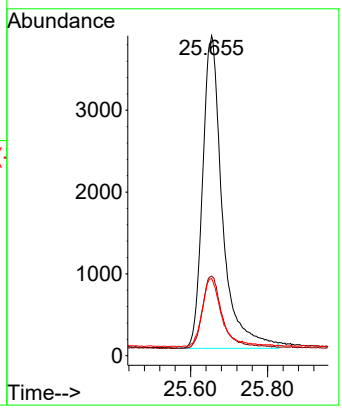


#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 25.655 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:276 Resp: 13609

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	24.1	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

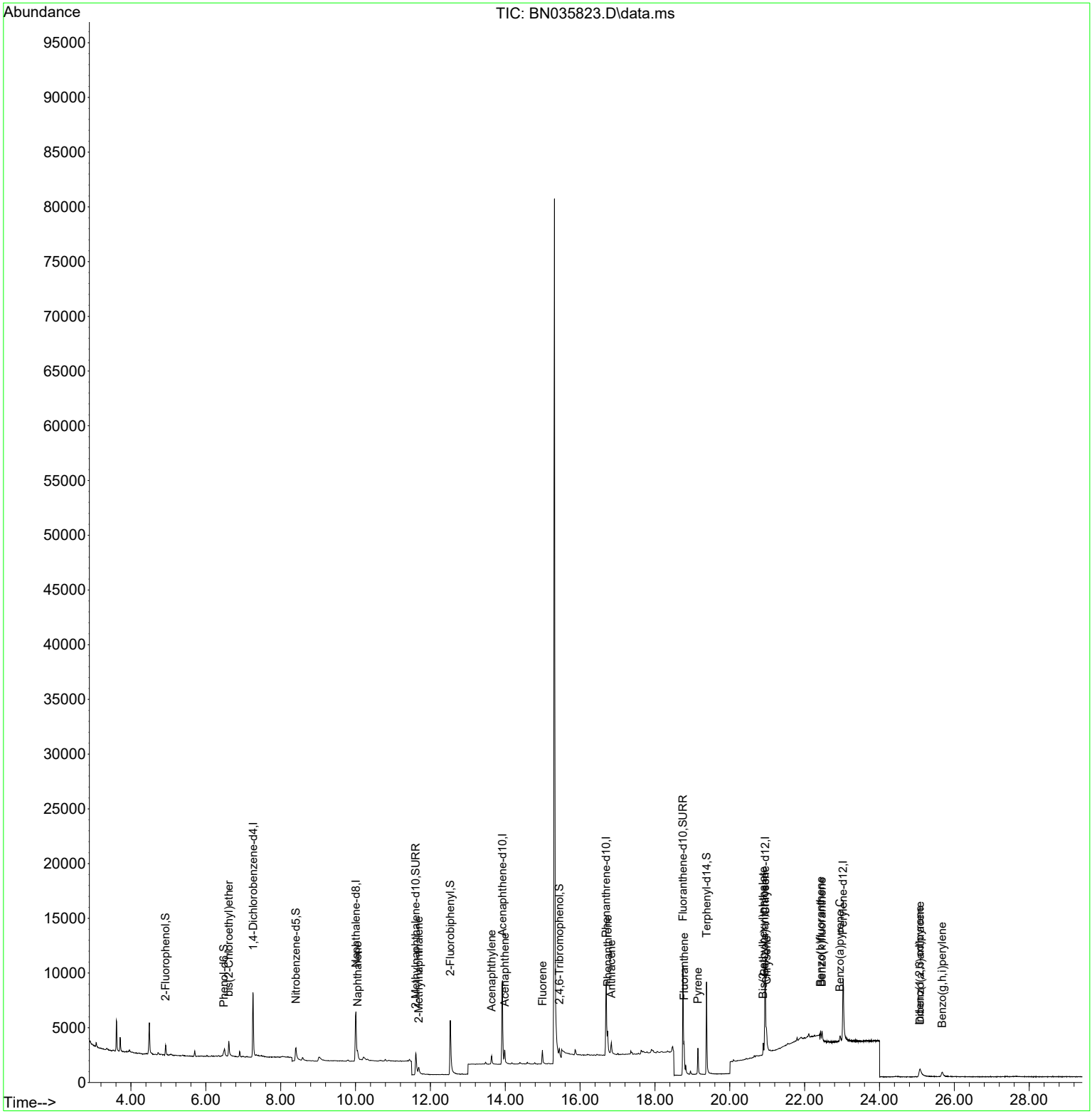
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3352	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8445	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	5463	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11816	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9968	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	9568	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	842	0.100	ng	-0.01
5) Phenol-d6	6.477	99	482	0.048	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2253	0.437	ng	0.00
11) 2-Methylnaphthalene-d10	11.611	152	4421	0.335	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	799	0.206	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	6936	0.336	ng	-0.01
27) Fluoranthene-d10	18.747	212	13295	0.397	ng	-0.01
31) Terphenyl-d14	19.379	244	9869	0.502	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	6.614	93	2739	0.323	ng	# 31
9) Naphthalene	10.052	128	964	0.043	ng	# 77
12) 2-Methylnaphthalene	11.692	142	597	0.037	ng	# 76
16) Acenaphthylene	13.636	152	1063	0.046	ng	# 93
17) Acenaphthene	13.989	154	693	0.045	ng	99
18) Fluorene	14.994	166	956	0.044	ng	96
25) Phenanthrene	16.736	178	2183	0.067	ng	98
26) Anthracene	16.835	178	1383	0.047	ng	98
28) Fluoranthene	18.780	202	2251	0.051	ng	# 96
30) Pyrene	19.147	202	2504	0.068	ng	98
32) Benzo(a)anthracene	20.929	228	1508	0.043	ng	# 91
33) Chrysene	20.983	228	2026	0.056	ng	# 93
34) Bis(2-ethylhexyl)phtha...	20.893	149	1059	0.077	ng	# 95
36) Indeno(1,2,3-cd)pyrene	25.073	276	1384	0.037	ng	# 82
37) Benzo(b)fluoranthene	22.424	252	1754	0.050	ng	# 28
38) Benzo(k)fluoranthene	22.465	252	1557	0.045	ng	# 29
39) Benzo(a)pyrene	22.945	252	959	0.033	ng	# 1
40) Dibenzo(a,h)anthracene	25.085	278	1067	0.036	ng	# 11
41) Benzo(g,h,i)perylene	25.675	276	1130	0.037	ng	# 64

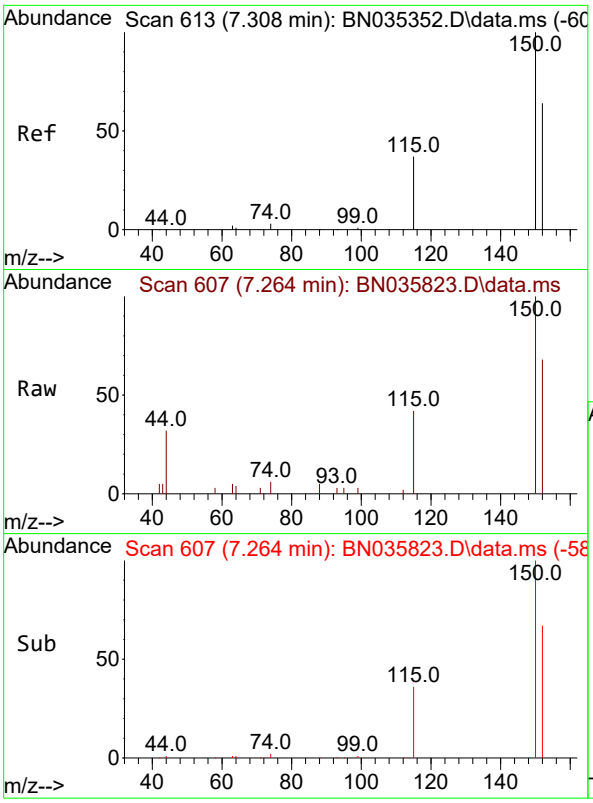
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035823.D
Acq On : 24 Dec 2024 16:06
Operator : RC/JU
Sample : P5376-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Quant Time: Dec 24 23:19:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



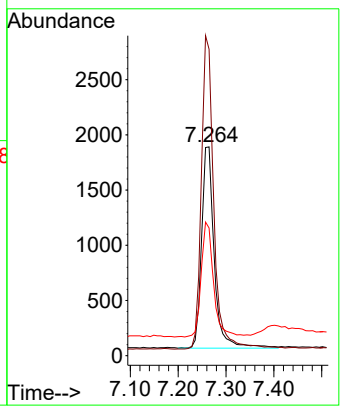


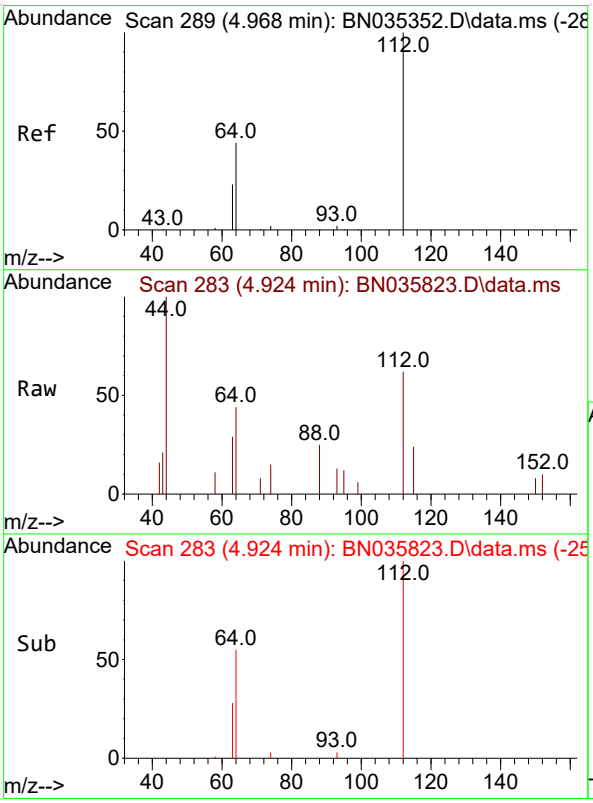
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:152 Resp: 3352

Ion	Ratio	Lower	Upper
152	100		
150	146.7	124.0	186.0
115	61.2	49.6	74.4

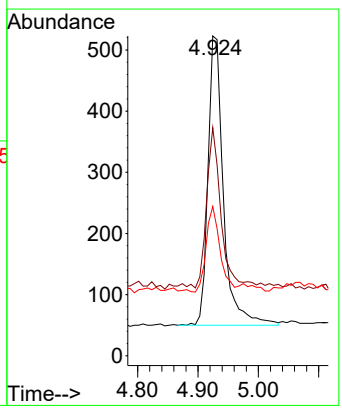


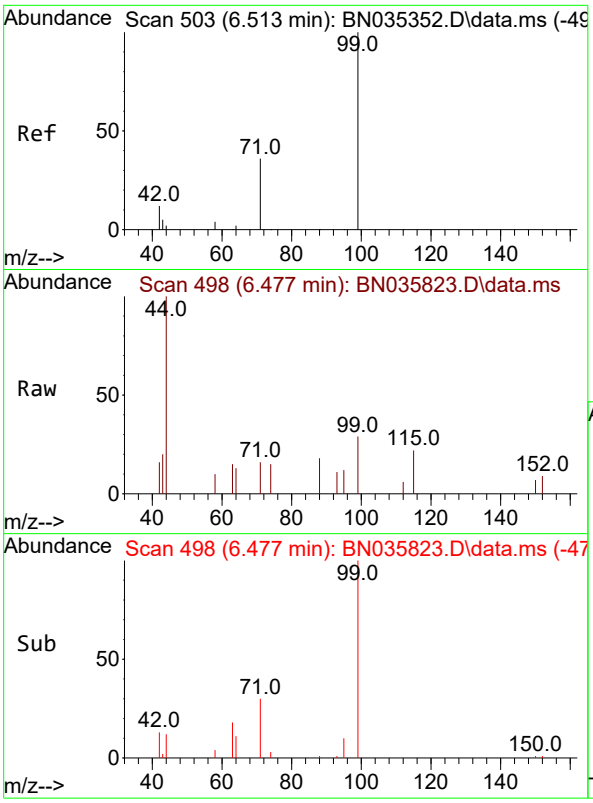


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:112 Resp: 842

Ion	Ratio	Lower	Upper
112	100		
64	52.5	39.8	59.8
63	27.2	21.0	31.6



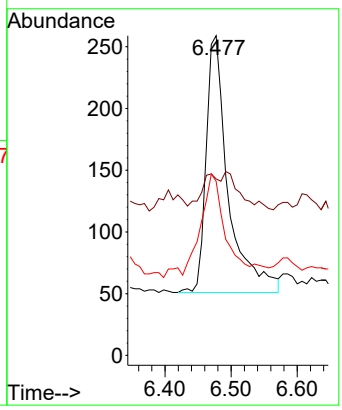


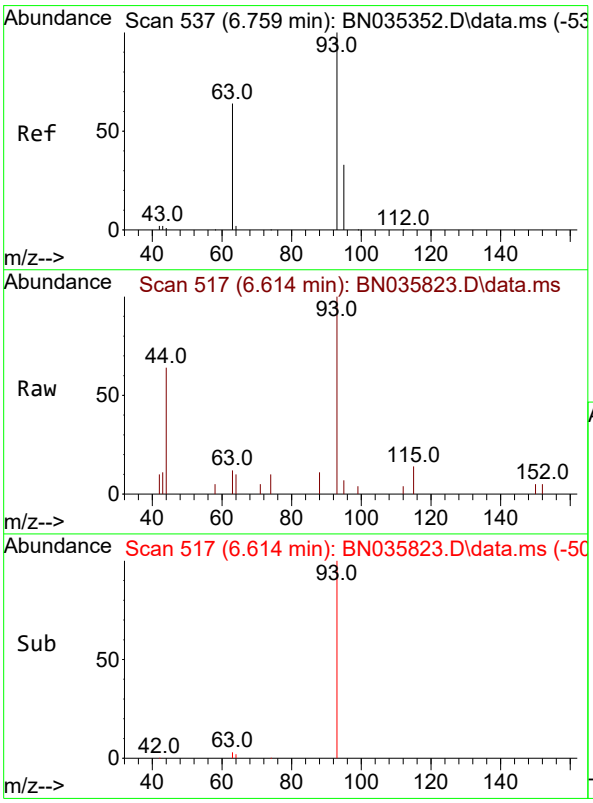
#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion: 99 Resp: 482

Ion	Ratio	Lower	Upper
99	100		
42	10.2	11.4	17.2#
71	41.9	29.3	43.9

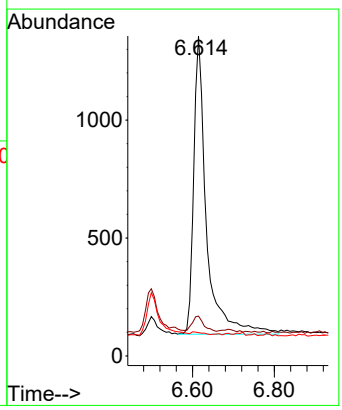


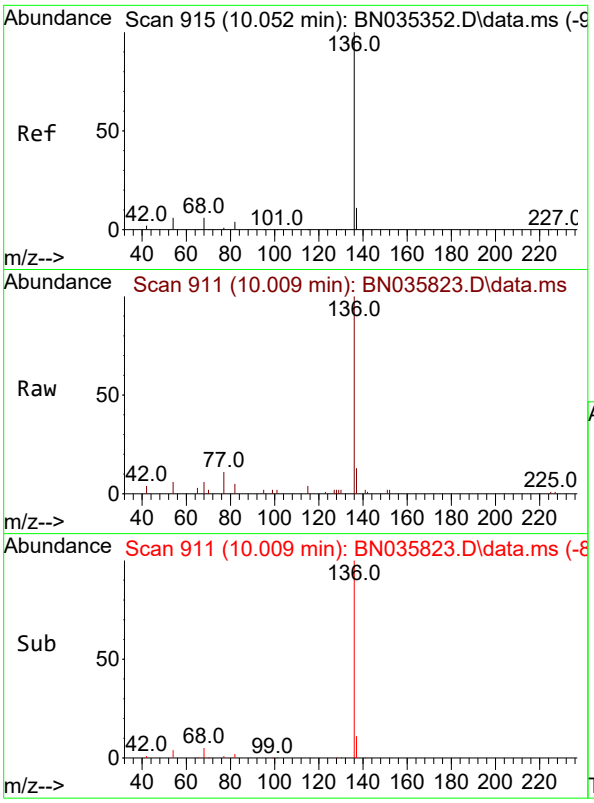


#6
bis(2-Chloroethyl)ether
Concen: 0.323 ng
RT: 6.614 min Scan# 517
Delta R.T. -0.116 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion: 93 Resp: 2739

Ion	Ratio	Lower	Upper
93	100		
63	4.4	50.4	75.6#
95	0.7	25.7	38.5#



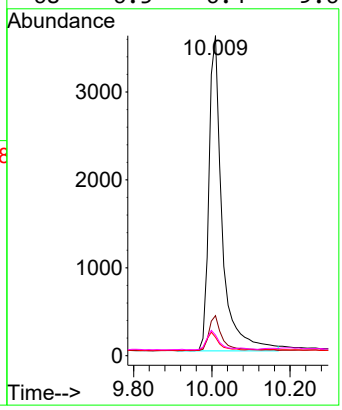


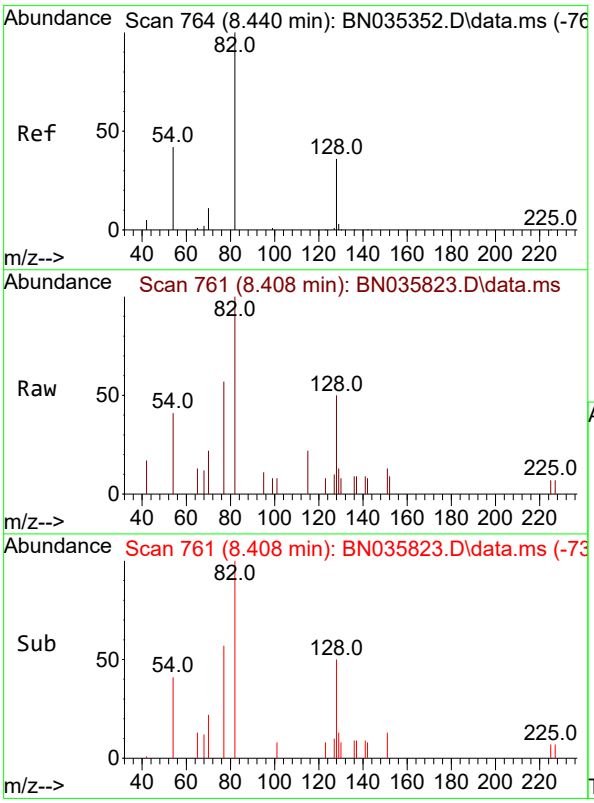
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:136 Resp: 8445

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	5.7	6.1	9.1#
68	6.5	6.4	9.6

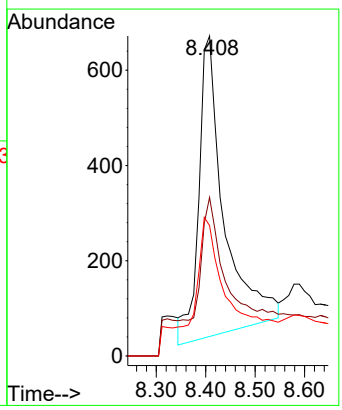


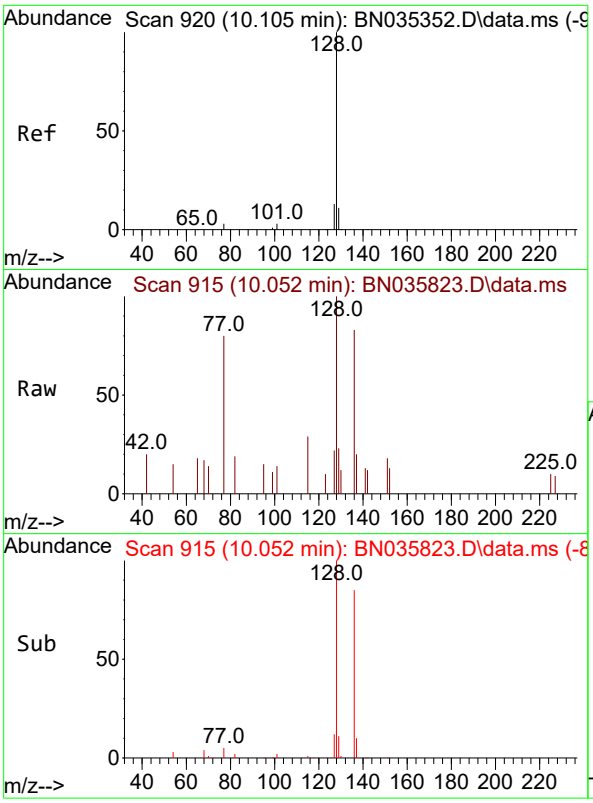


#8
Nitrobenzene-d5
Concen: 0.437 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion: 82 Resp: 2253

Ion	Ratio	Lower	Upper
82	100		
128	49.6	33.4	50.0
54	40.8	36.7	55.1



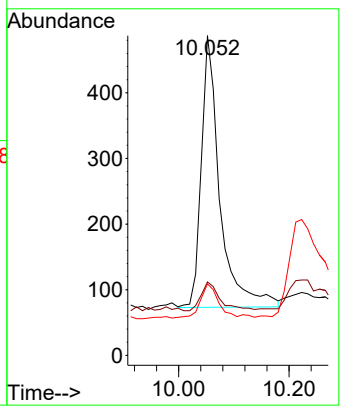


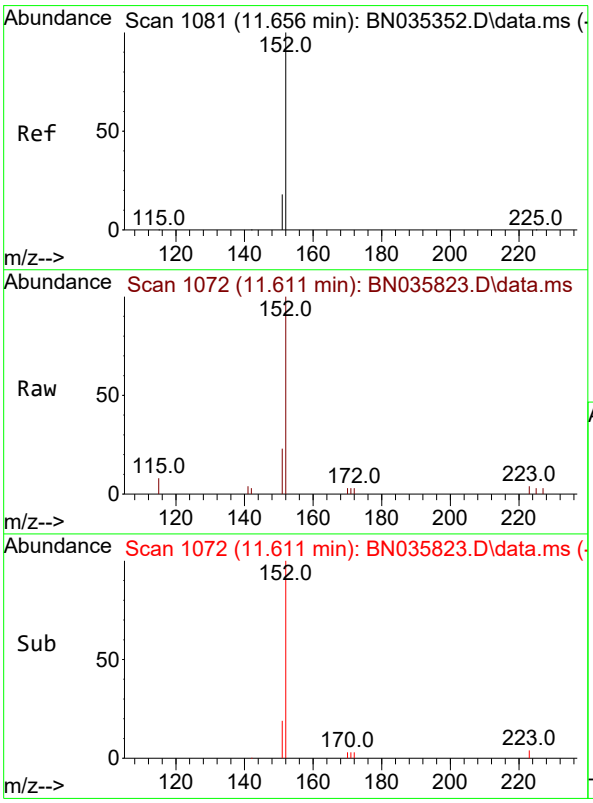
#9
Naphthalene
Concen: 0.043 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:128 Resp: 964

Ion	Ratio	Lower	Upper
128	100		
129	23.0	9.8	14.6#
127	22.4	11.4	17.2#

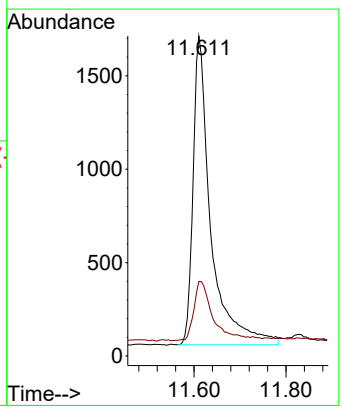


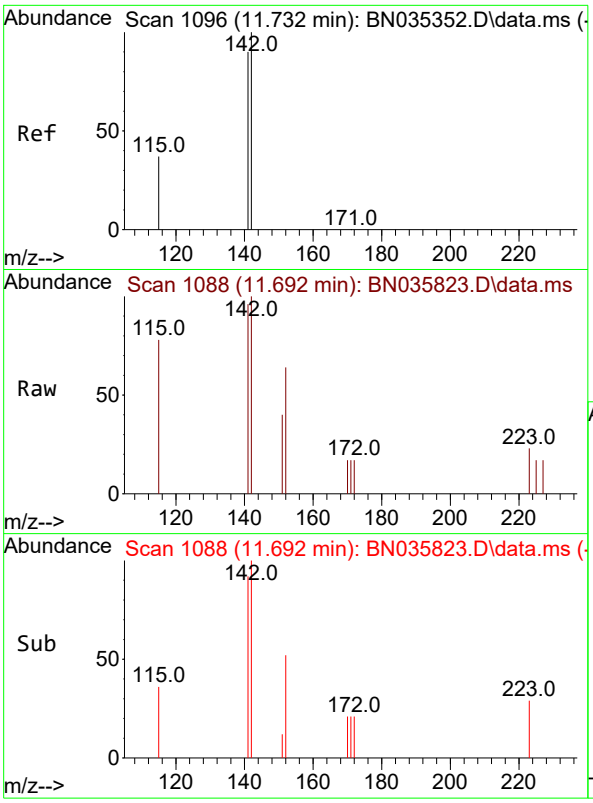


#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:152 Resp: 4421

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



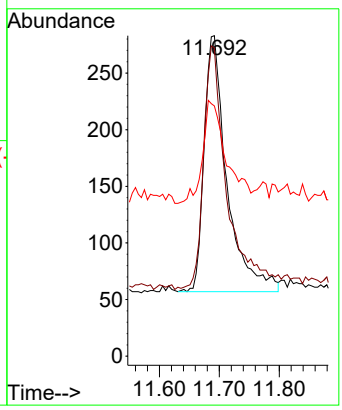


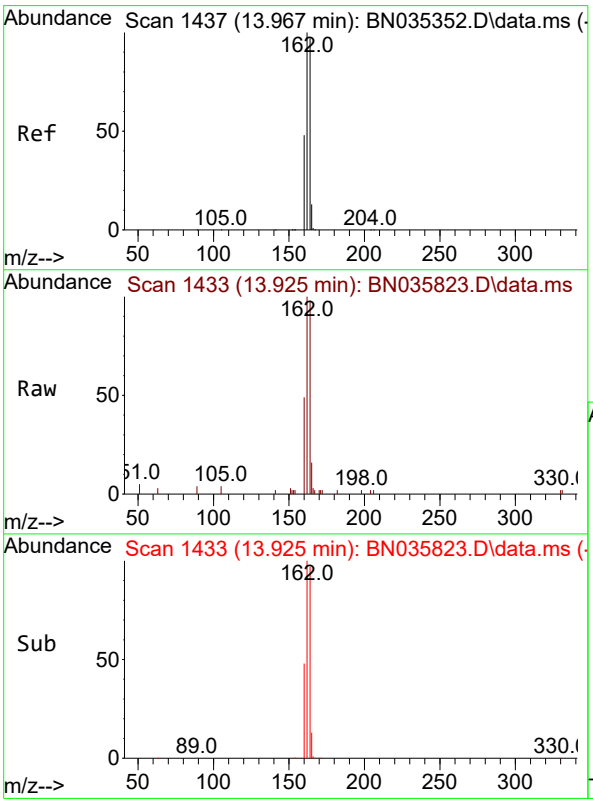
#12
2-Methylnaphthalene
Concen: 0.037 ng
RT: 11.692 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:142 Resp: 597

Ion	Ratio	Lower	Upper
142	100		
141	96.1	72.2	108.4
115	78.1	31.4	47.0#

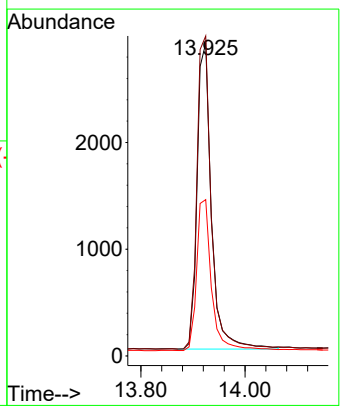


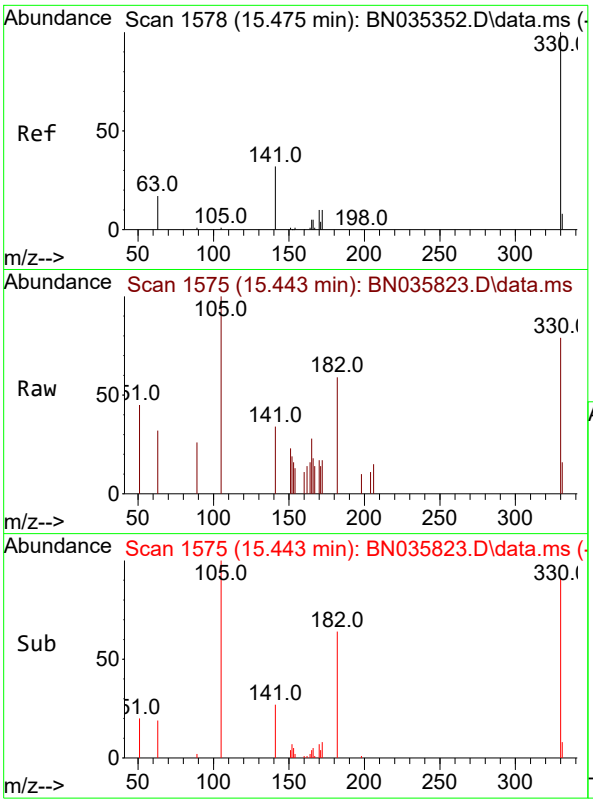


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:164 Resp: 5463

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	50.0	40.1	60.1



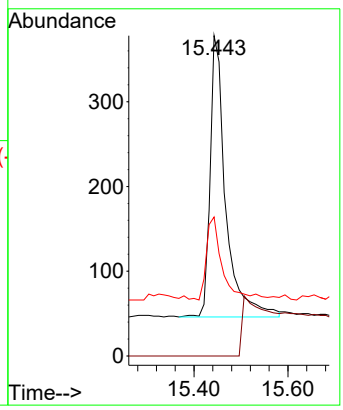


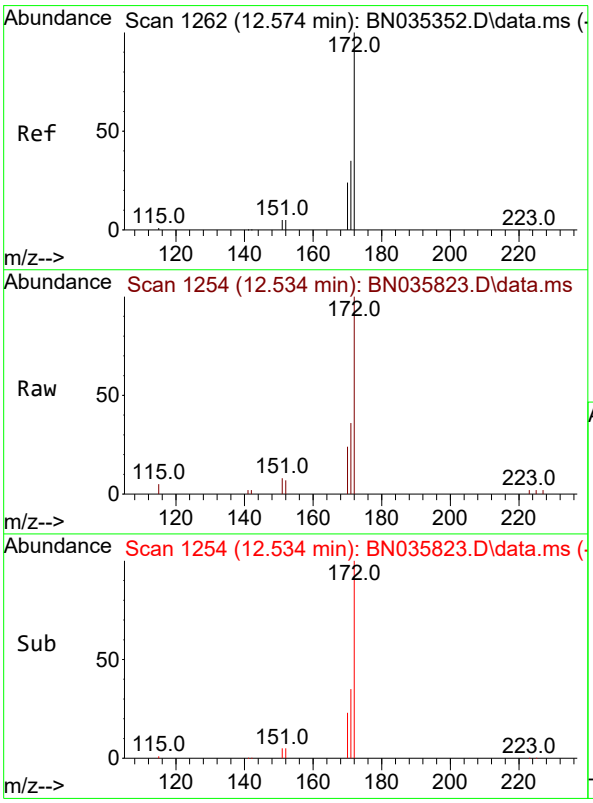
#14
2,4,6-Tribromophenol
Concen: 0.206 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:330 Resp: 799

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.9	26.6	40.0

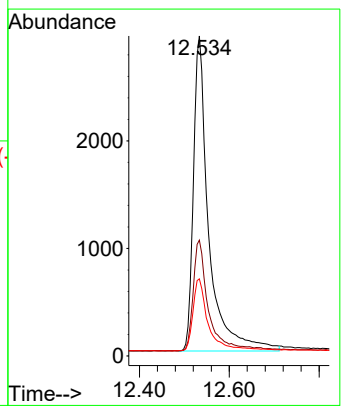


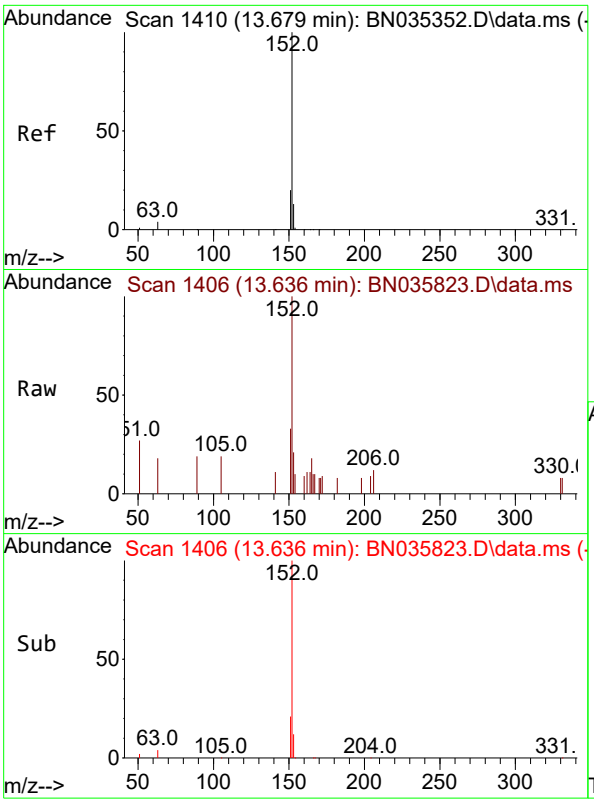


#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.534 min Scan# 1254
Delta R.T. -0.010 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:172 Resp: 6936

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.1	19.8	29.8



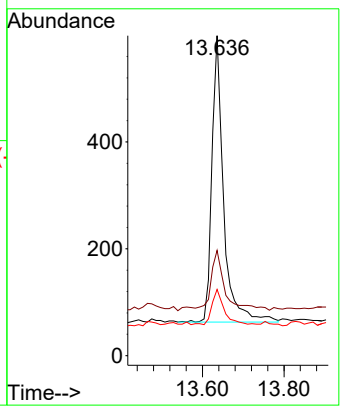


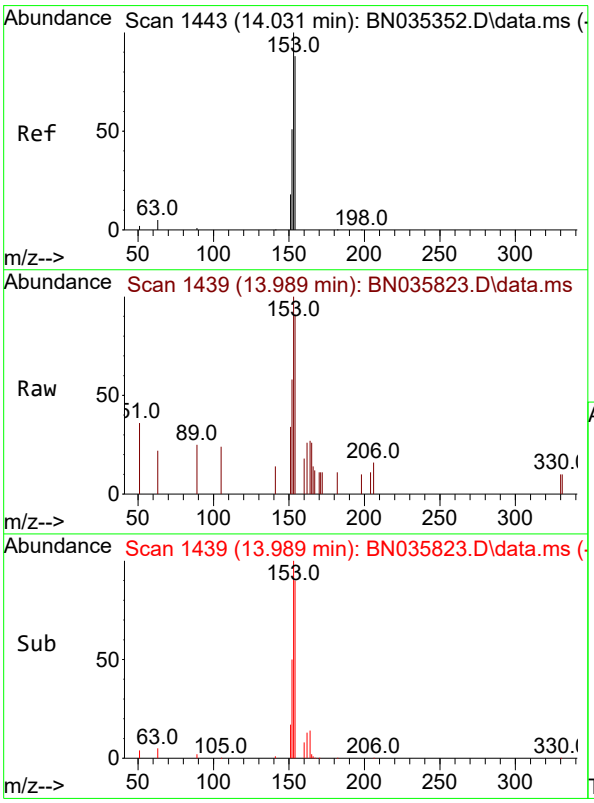
#16
Acenaphthylene
Concen: 0.046 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:152 Resp: 1063

Ion	Ratio	Lower	Upper
152	100		
151	24.4	16.2	24.2#
153	14.4	10.4	15.6

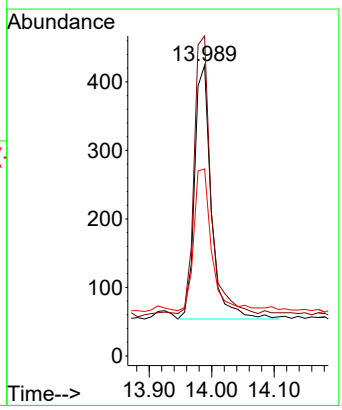


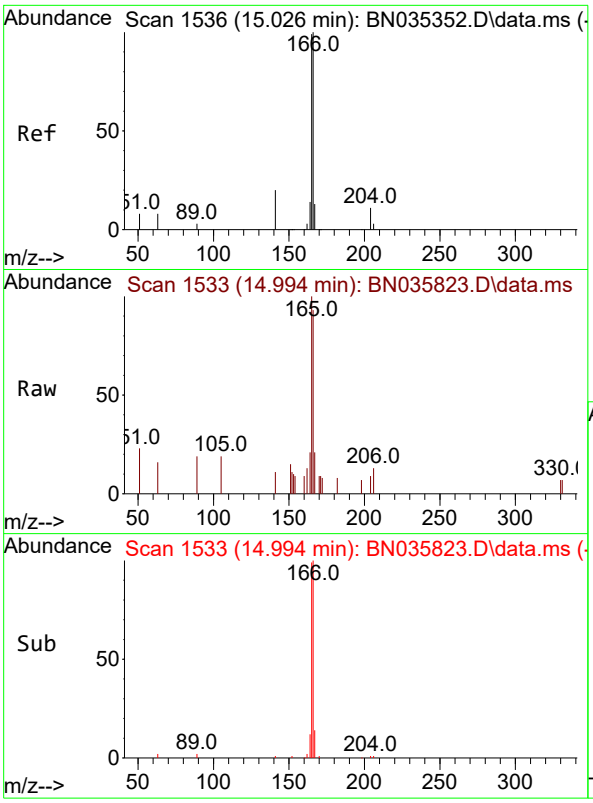


#17
Acenaphthene
Concen: 0.045 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:154 Resp: 693

Ion	Ratio	Lower	Upper
154	100		
153	115.9	92.6	139.0
152	58.9	49.0	73.6



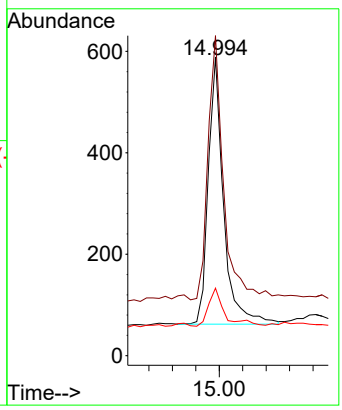


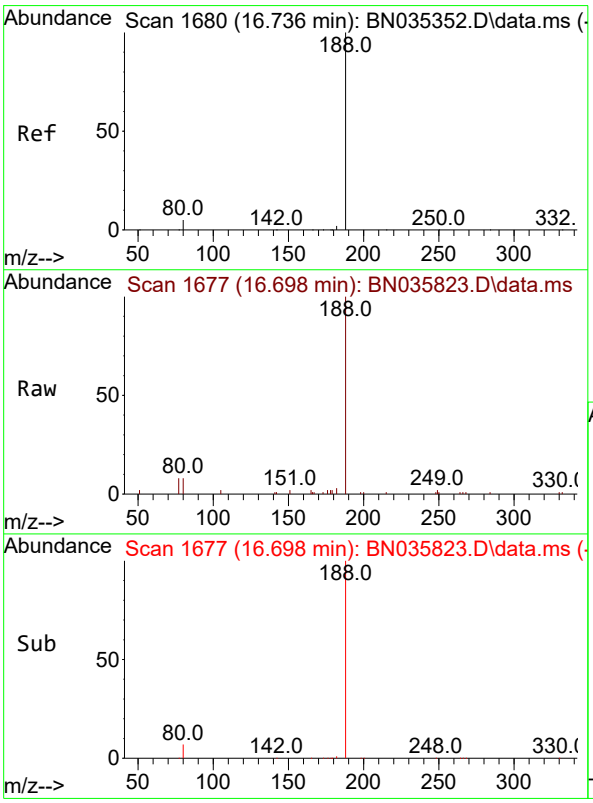
#18
Fluorene
Concen: 0.044 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:166 Resp: 956

Ion	Ratio	Lower	Upper
166	100		
165	103.7	79.7	119.5
167	14.9	10.8	16.2

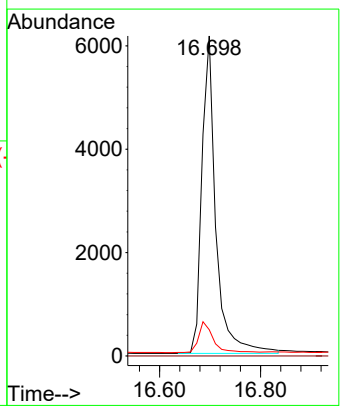


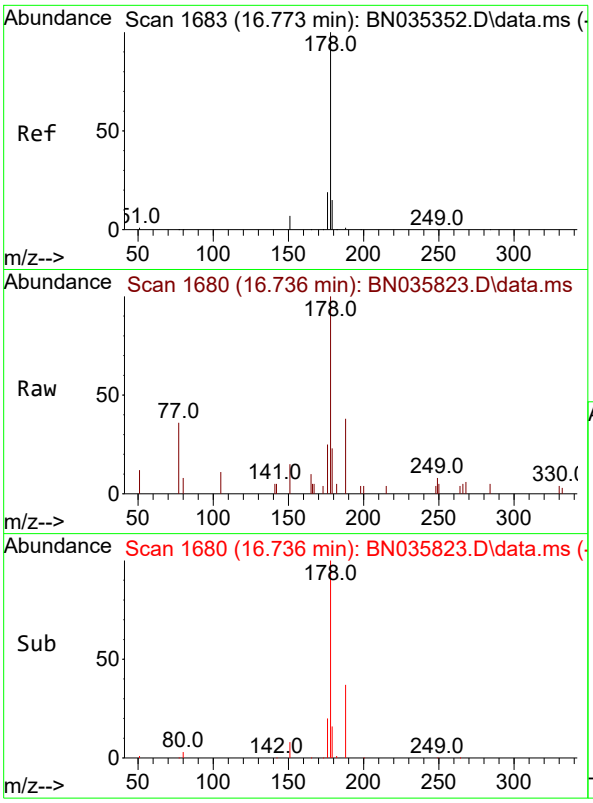


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:188 Resp: 11816

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.2	4.6	6.8#



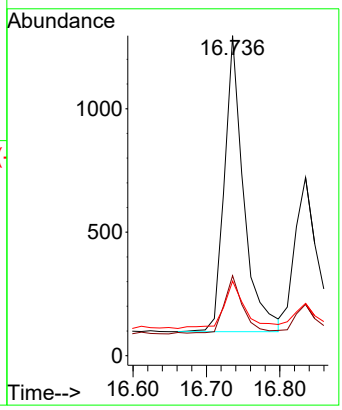


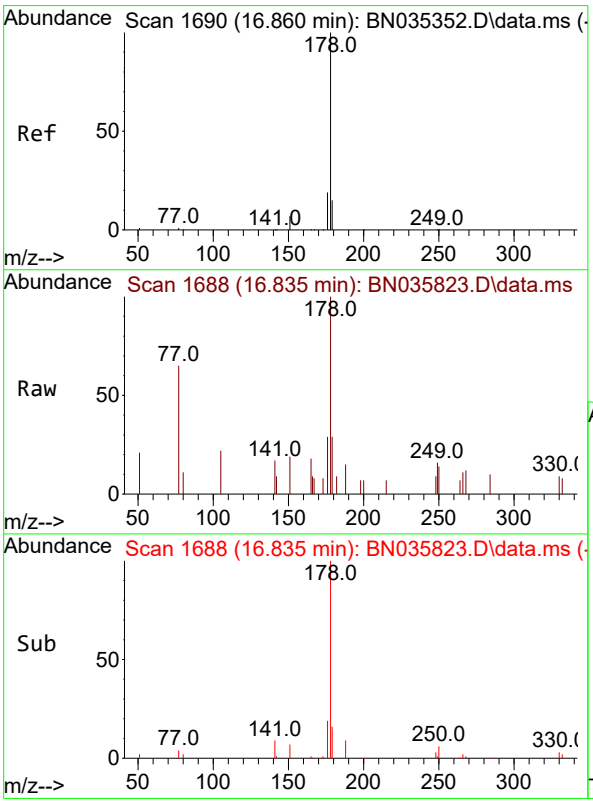
#25
Phenanthrene
Concen: 0.067 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:178 Resp: 2183

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.2
179	16.8	12.3	18.5

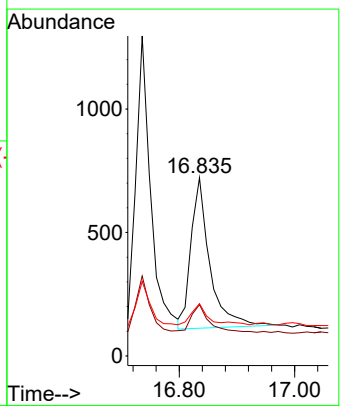


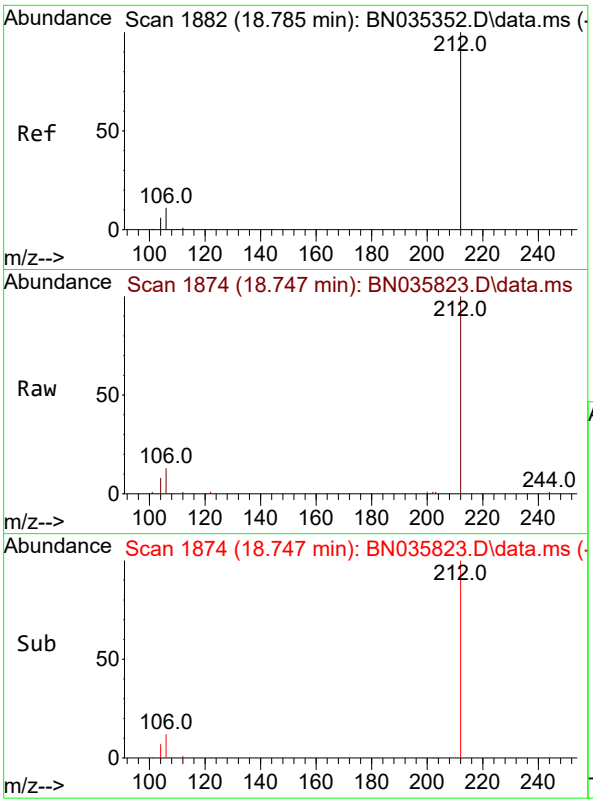


#26
Anthracene
Concen: 0.047 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:178 Resp: 1383

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.0	22.6
179	14.6	12.6	18.8



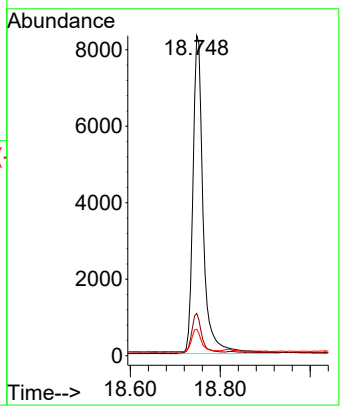


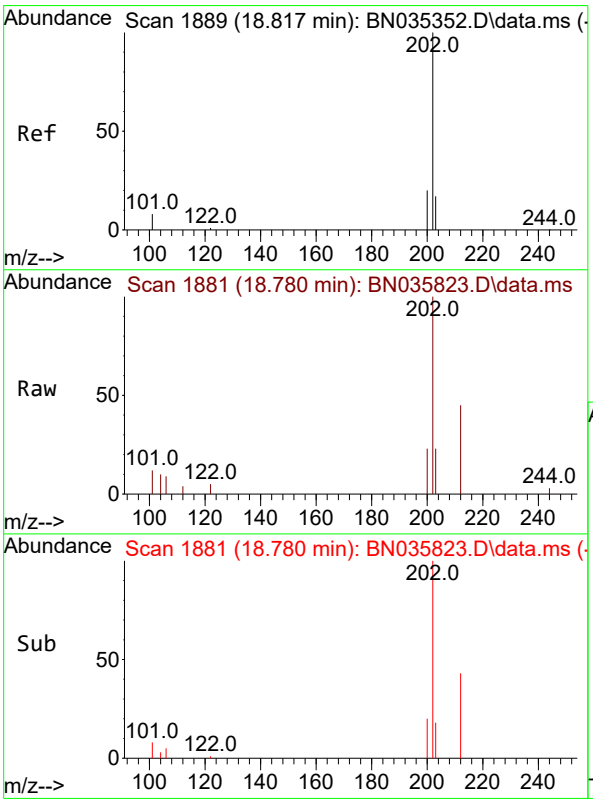
#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:212 Resp: 13295

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	6.7	5.3	7.9

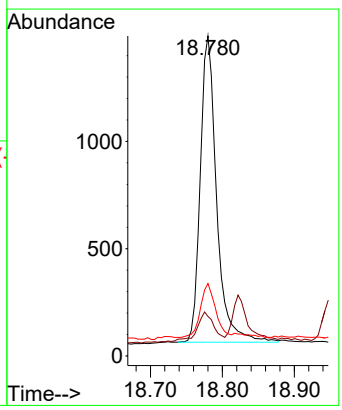


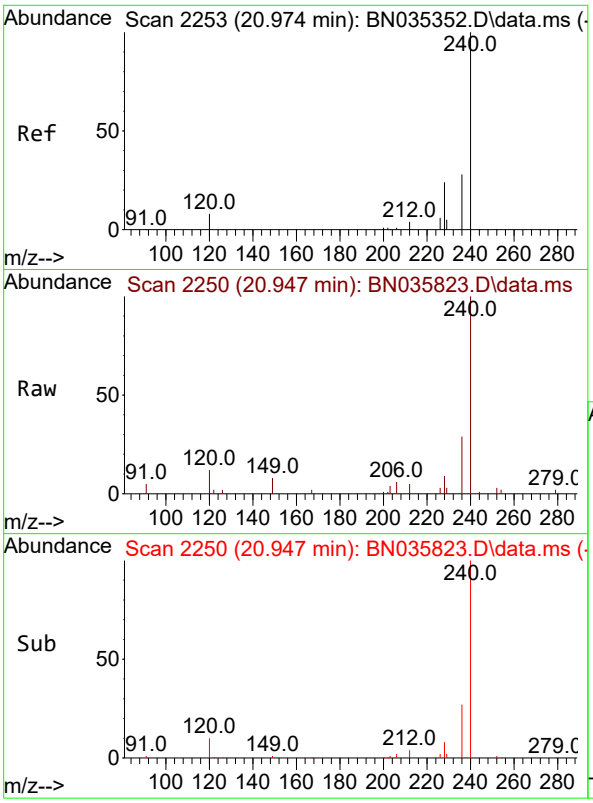


#28
Fluoranthene
Concen: 0.051 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:202 Resp: 2251

Ion	Ratio	Lower	Upper
202	100		
101	11.8	7.4	11.0#
203	16.3	13.7	20.5



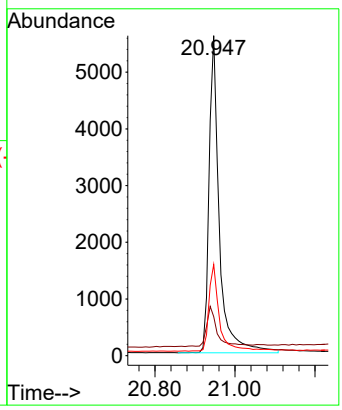


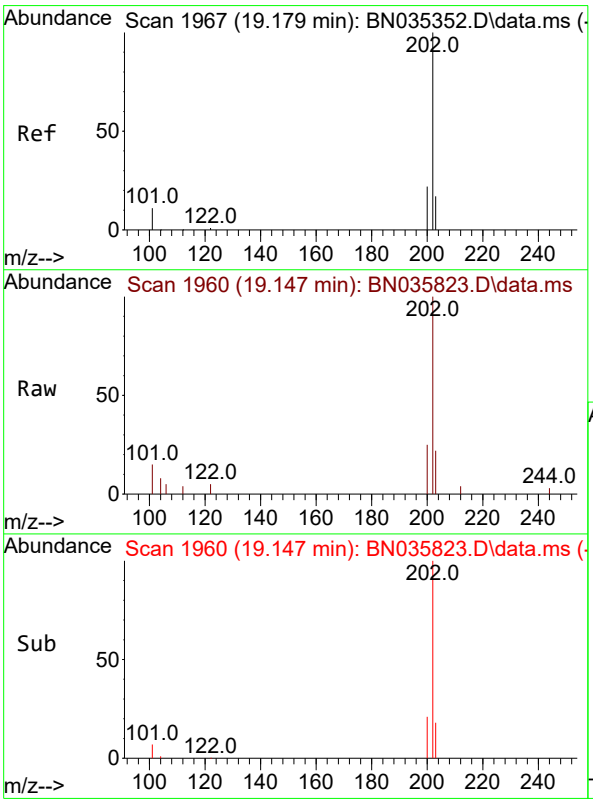
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:240 Resp: 9968

Ion	Ratio	Lower	Upper
240	100		
120	12.2	7.9	11.9#
236	28.5	22.9	34.3

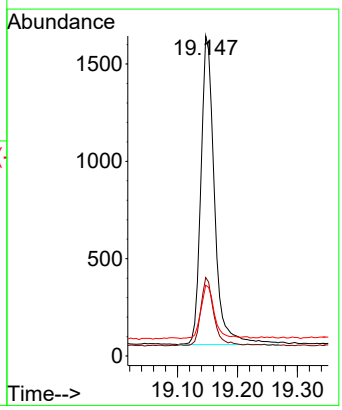


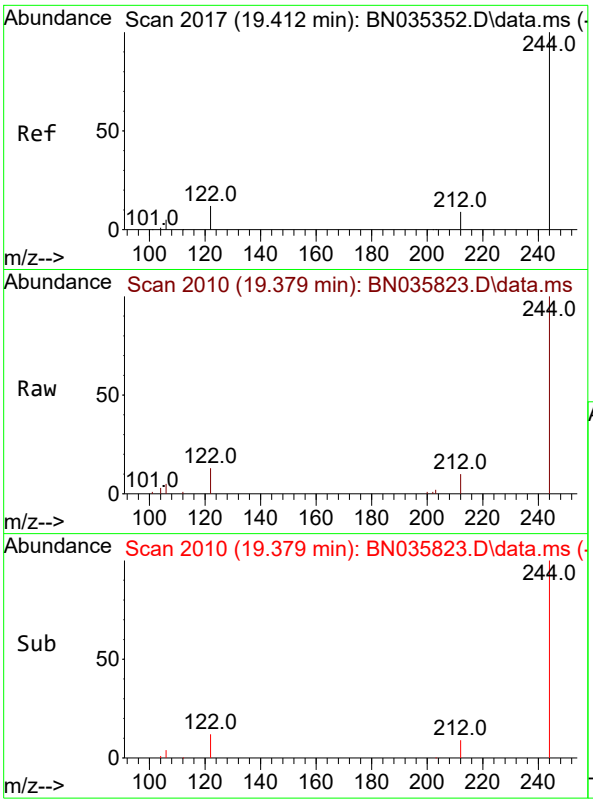


#30
Pyrene
Concen: 0.068 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:202 Resp: 2504

Ion	Ratio	Lower	Upper
202	100		
200	20.4	17.0	25.4
203	17.0	14.3	21.5



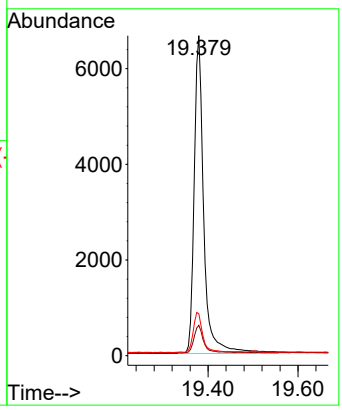


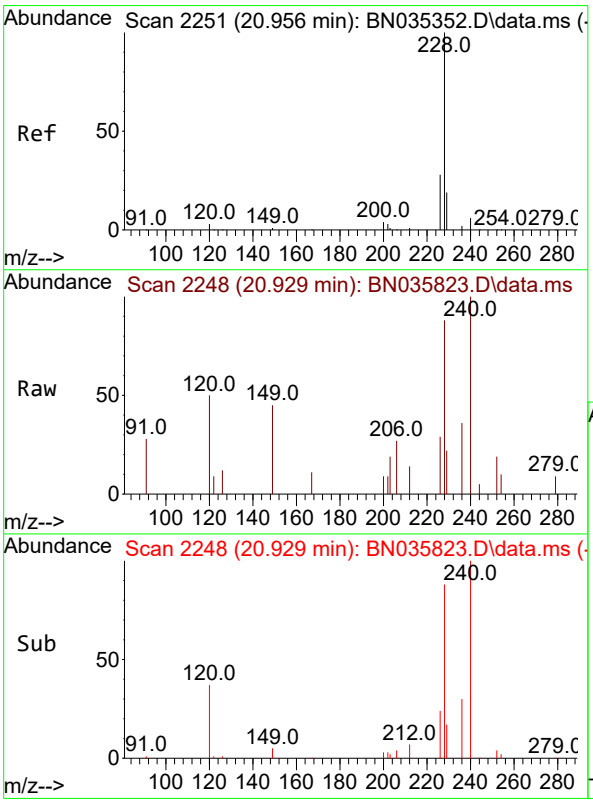
#31
Terphenyl-d14
Concen: 0.502 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:244 Resp: 9869

Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.1	12.1
122	13.1	10.3	15.5

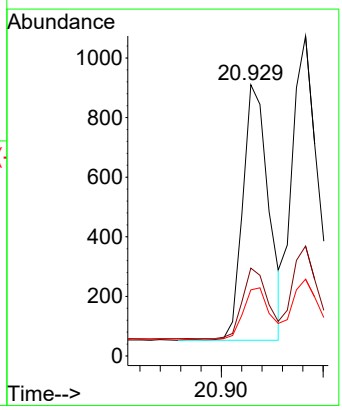


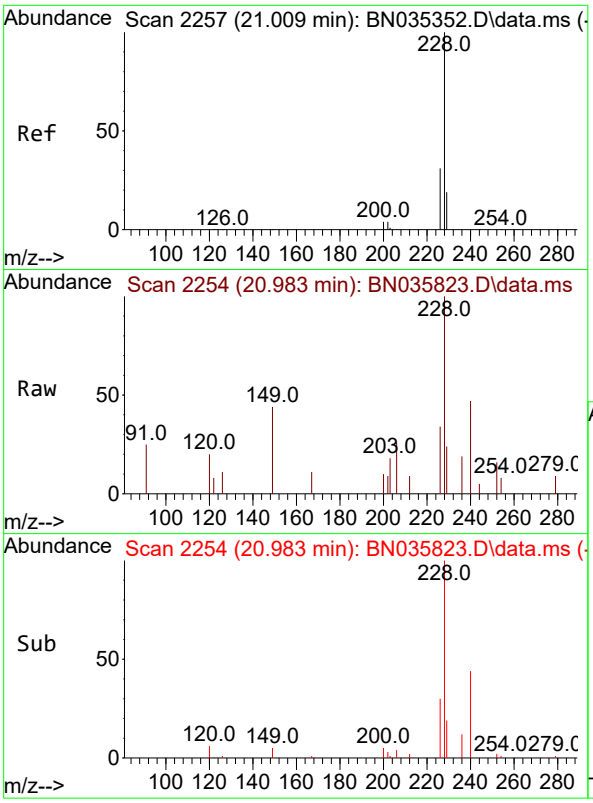


#32
Benzo(a)anthracene
Concen: 0.043 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:228 Resp: 1508

Ion	Ratio	Lower	Upper
228	100		
226	32.4	22.5	33.7
229	24.4	15.8	23.8#



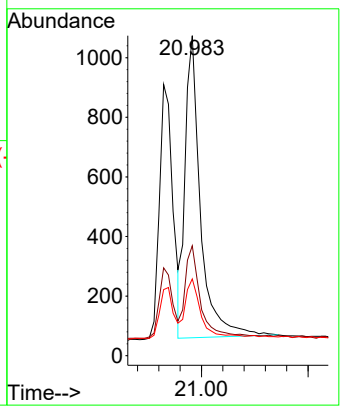


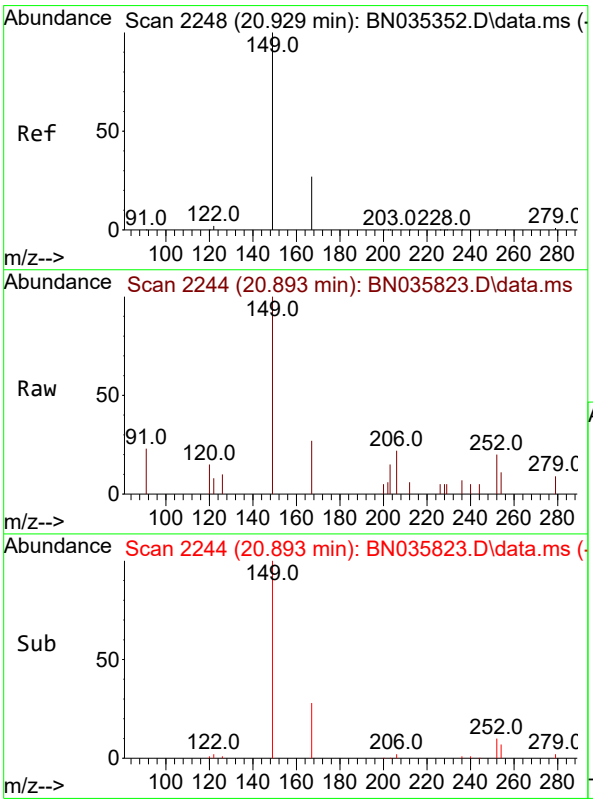
#33
Chrysene
Concen: 0.056 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:228 Resp: 2026

Ion	Ratio	Lower	Upper
228	100		
226	34.4	24.6	37.0
229	24.0	15.9	23.9#

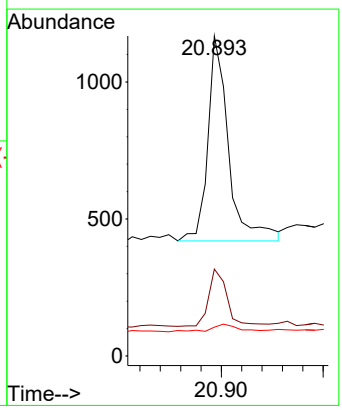


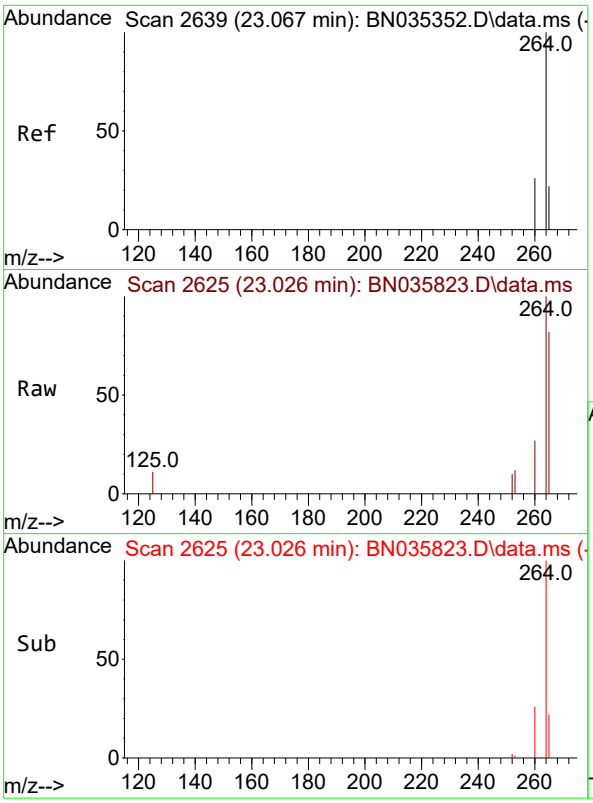


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:149 Resp: 1059

Ion	Ratio	Lower	Upper
149	100		
167	24.9	22.2	33.4
279	5.1	2.7	4.1#



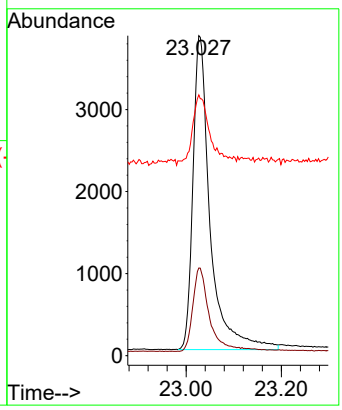


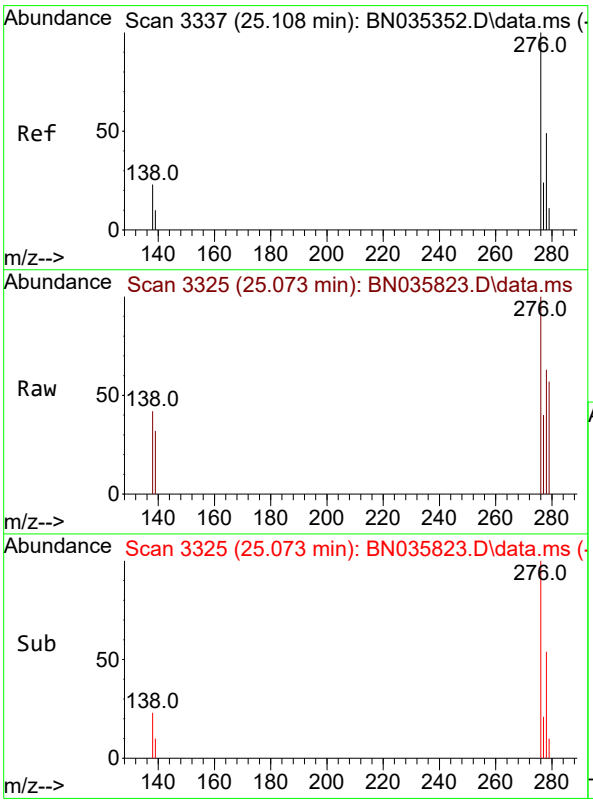
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:264 Resp: 9568

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.4	32.2
265	81.5	40.2	60.4#

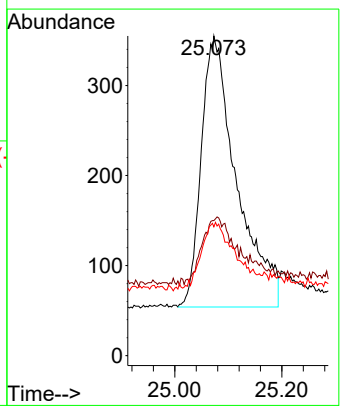


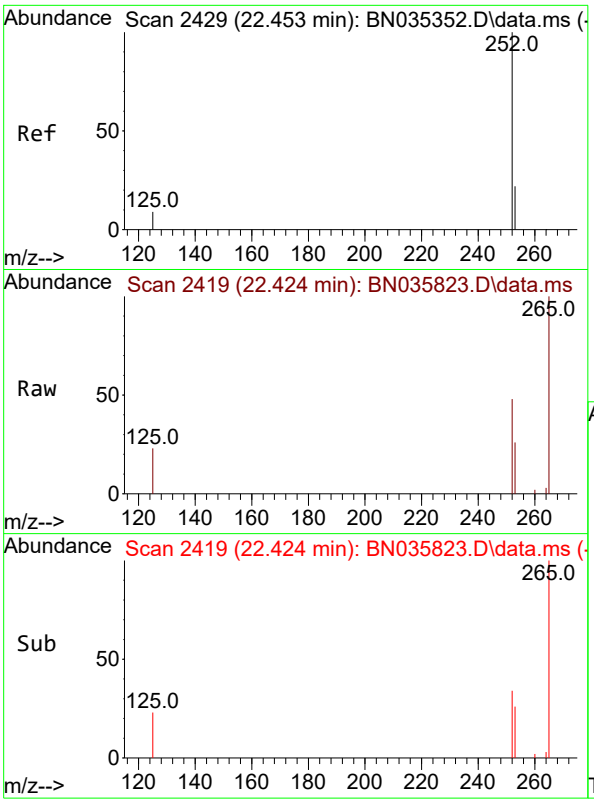


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.037 ng
RT: 25.073 min Scan# 3325
Delta R.T. 0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:276 Resp: 1384

Ion	Ratio	Lower	Upper
276	100		
138	22.6	19.4	29.0
277	8.7	19.8	29.6#



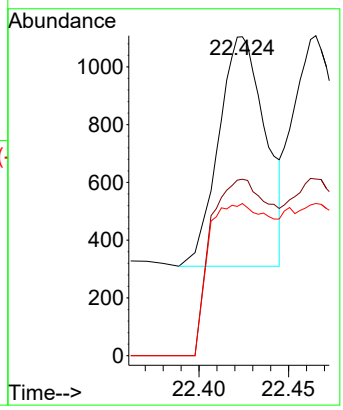


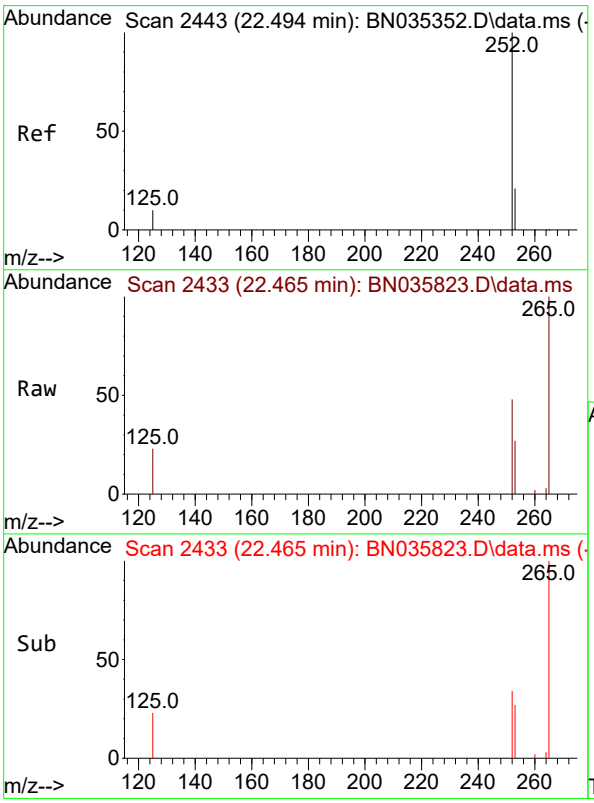
#37
Benzo(b)fluoranthene
Concen: 0.050 ng
RT: 22.424 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:252 Resp: 1754

Ion	Ratio	Lower	Upper
252	100		
253	55.3	19.6	29.4#
125	47.7	9.6	14.4#

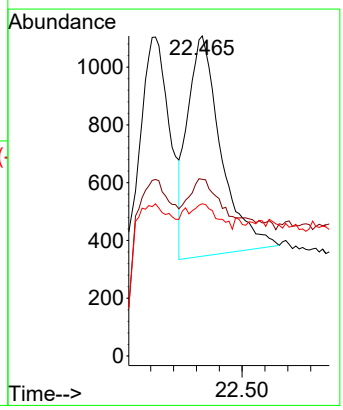


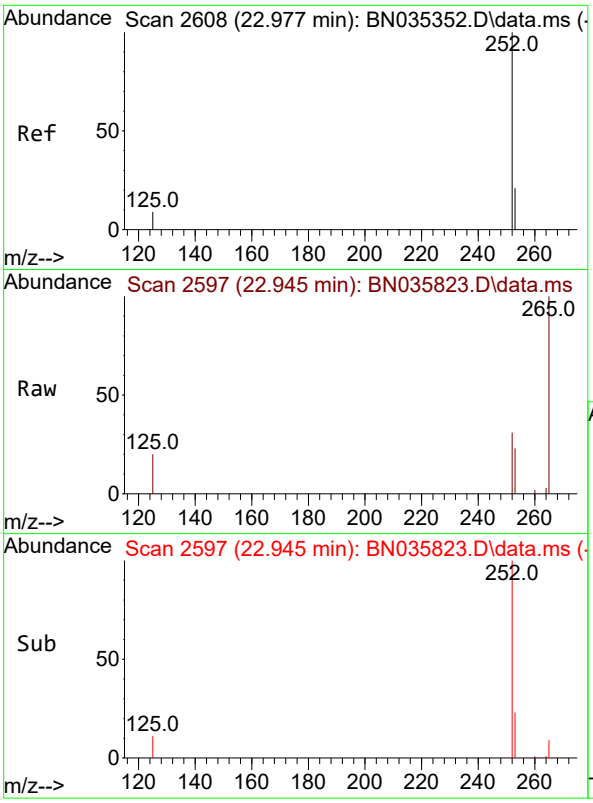


#38
Benzo(k)fluoranthene
Concen: 0.045 ng
RT: 22.465 min Scan# 2433
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:252 Resp: 1557

Ion	Ratio	Lower	Upper
252	100		
253	55.2	19.5	29.3#
125	47.6	10.2	15.4#



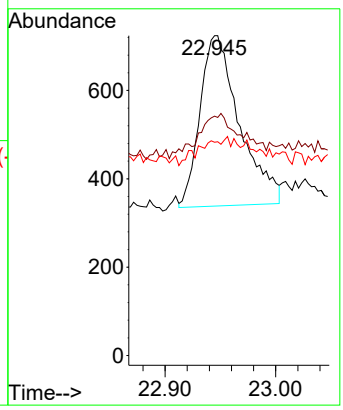


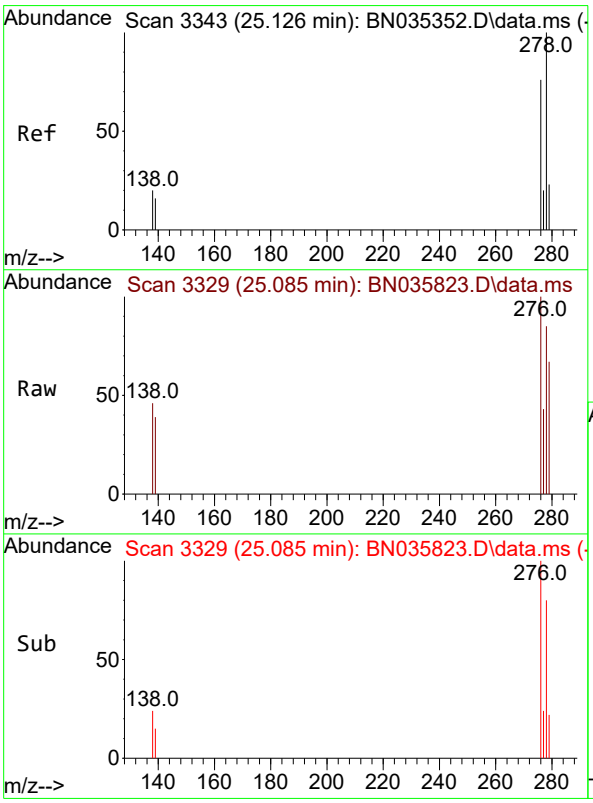
#39
Benzo(a)pyrene
Concen: 0.033 ng
RT: 22.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:252 Resp: 959

Ion	Ratio	Lower	Upper
252	100		
253	74.9	20.2	30.4#
125	66.7	10.9	16.3#

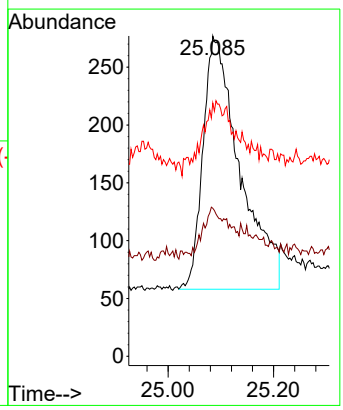


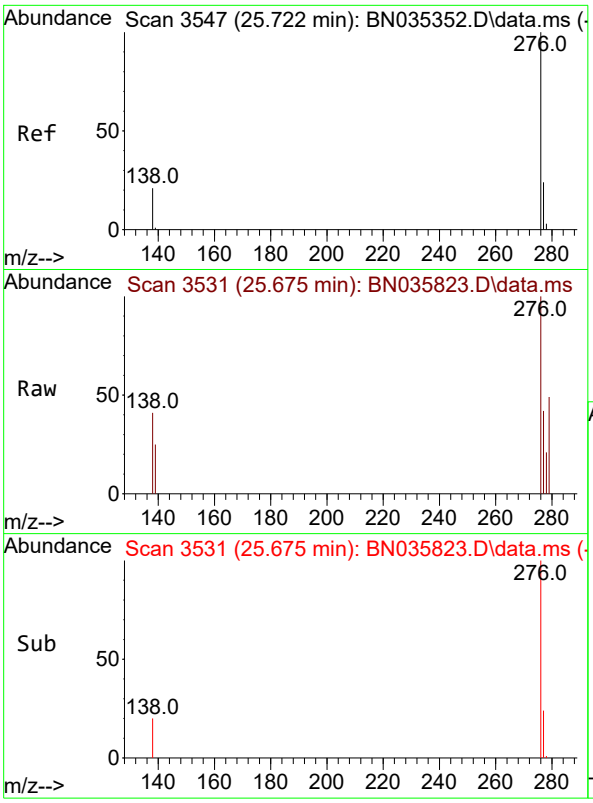


#40
Dibenzo(a,h)anthracene
Concen: 0.036 ng
RT: 25.085 min Scan# 3329
Delta R.T. 0.003 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Tgt Ion:278 Resp: 1067

Ion	Ratio	Lower	Upper
278	100		
139	46.2	14.2	21.4#
279	79.1	20.5	30.7#



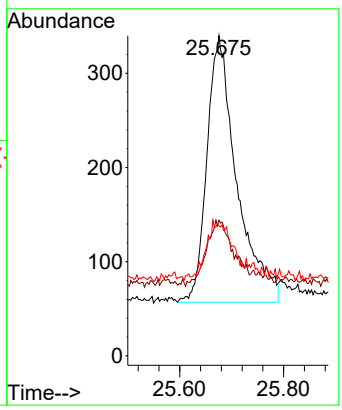


#41
Benzo(g,h,i)perylene
Concen: 0.037 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035823.D
Acq: 24 Dec 2024 16:06

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20241218

Tgt Ion:276 Resp: 1130

Ion	Ratio	Lower	Upper
276	100		
277	42.4	19.9	29.9#
138	40.6	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035824.D
Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Quant Time: Dec 24 23:19:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

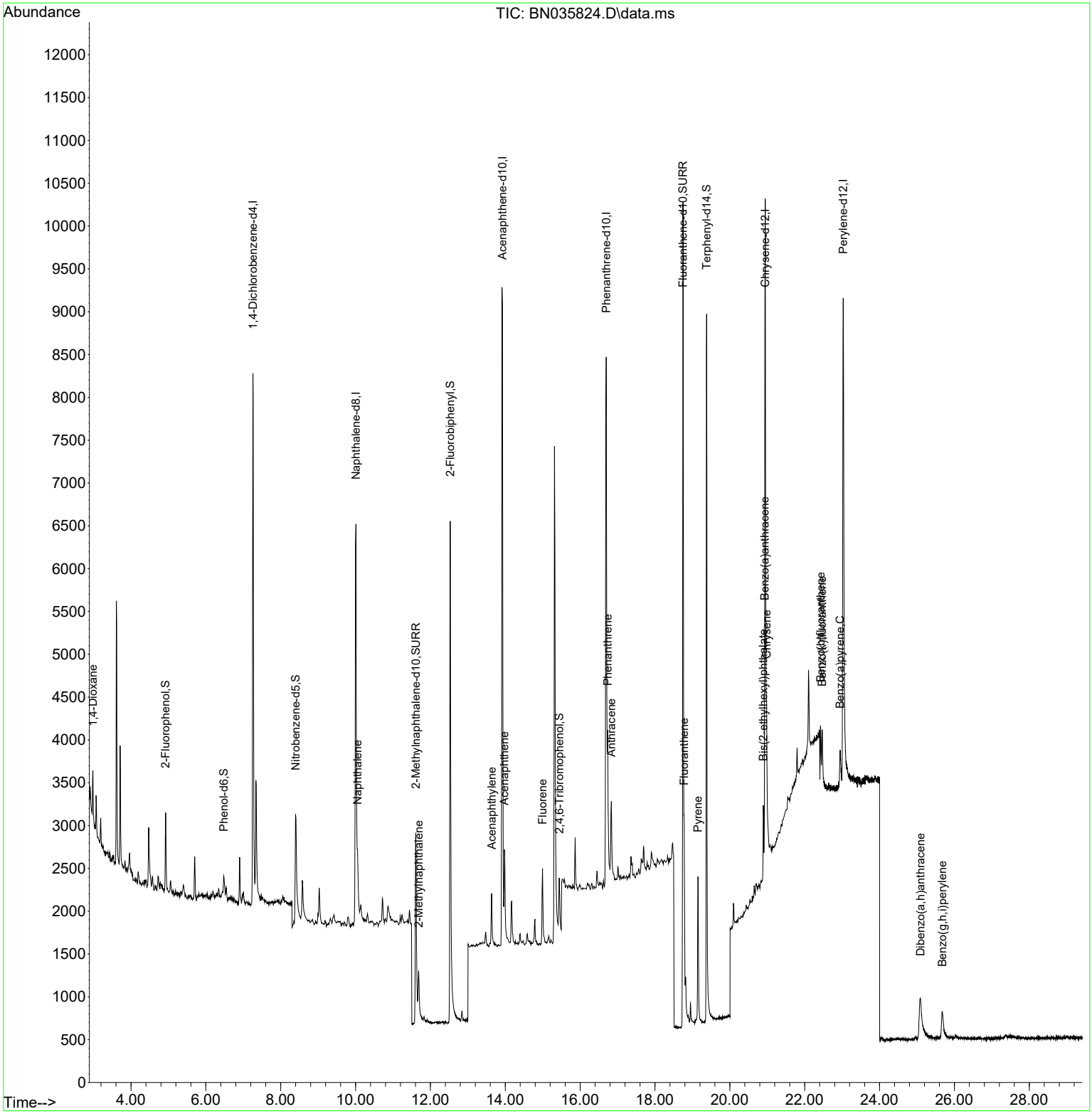
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3542	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	8575	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	5533	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11307	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	9270	0.400	ng	0.00
35) Perylene-d12	23.029	264	9119	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	827	0.093	ng	-0.01
5) Phenol-d6	6.477	99	397	0.037	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2265	0.432	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4576	0.341	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	766	0.195	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7209	0.345	ng	-0.02
27) Fluoranthene-d10	18.747	212	12883	0.402	ng	-0.01
31) Terphenyl-d14	19.379	244	9501	0.520	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	493	0.146	ng	# 73
9) Naphthalene	10.052	128	803	0.036	ng	# 72
12) 2-Methylnaphthalene	11.687	142	502	0.031	ng	# 79
16) Acenaphthylene	13.636	152	877	0.038	ng	96
17) Acenaphthene	13.978	154	539	0.035	ng	98
18) Fluorene	14.994	166	778	0.035	ng	96
25) Phenanthrene	16.736	178	1755	0.057	ng	100
26) Anthracene	16.835	178	1113	0.040	ng	97
28) Fluoranthene	18.780	202	1804	0.043	ng	# 97
30) Pyrene	19.147	202	1807	0.053	ng	99
32) Benzo(a)anthracene	20.929	228	1100	0.034	ng	# 87
33) Chrysene	20.983	228	1514	0.045	ng	# 91
34) Bis(2-ethylhexyl)phtha...	20.893	149	988	0.077	ng	# 97
37) Benzo(b)fluoranthene	22.424	252	1409	0.042	ng	# 22
38) Benzo(k)fluoranthene	22.465	252	1028	0.031	ng	# 18
39) Benzo(a)pyrene	22.945	252	820	0.030	ng	# 1
40) Dibenzo(a,h)anthracene	25.096	278	685	0.024	ng	# 1
41) Benzo(g,h,i)perylene	25.675	276	816	0.028	ng	# 50

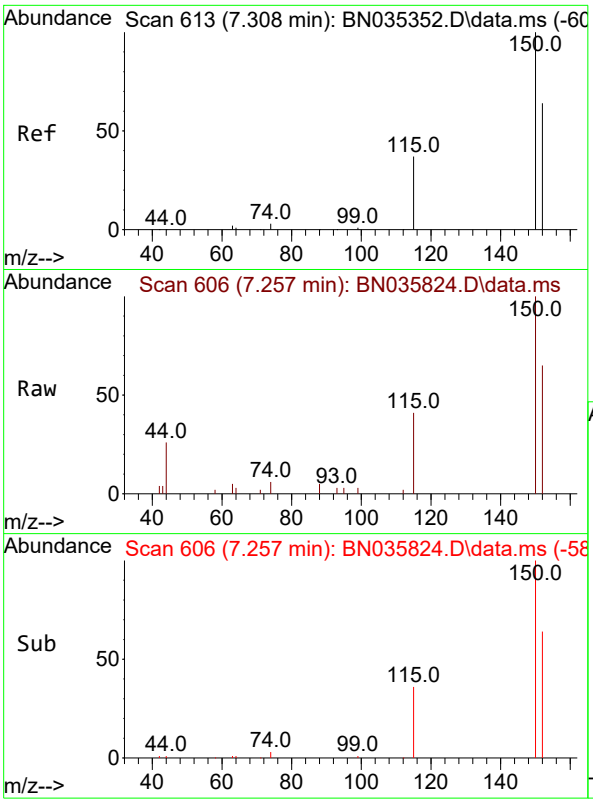
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035824.D
Acq On : 24 Dec 2024 16:42
Operator : RC/JU
Sample : P5376-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Quant Time: Dec 24 23:19:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



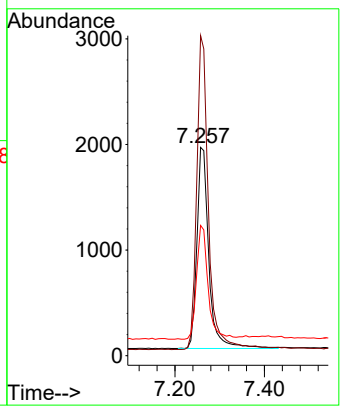


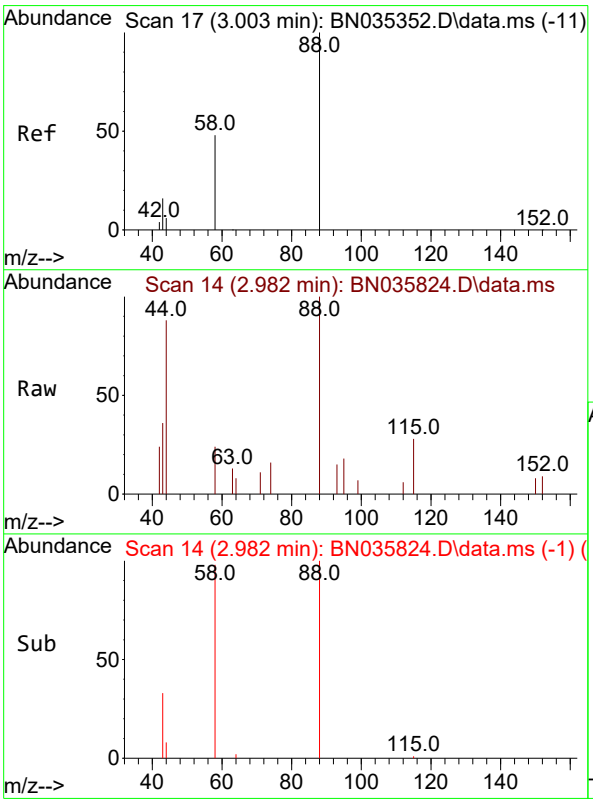
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:152 Resp: 3542

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.5	49.6	74.4

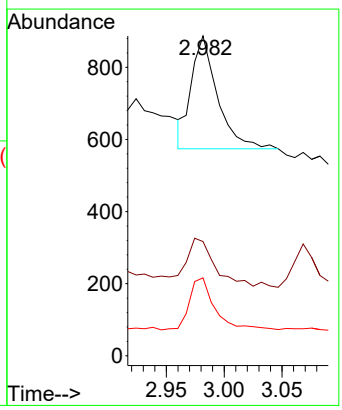


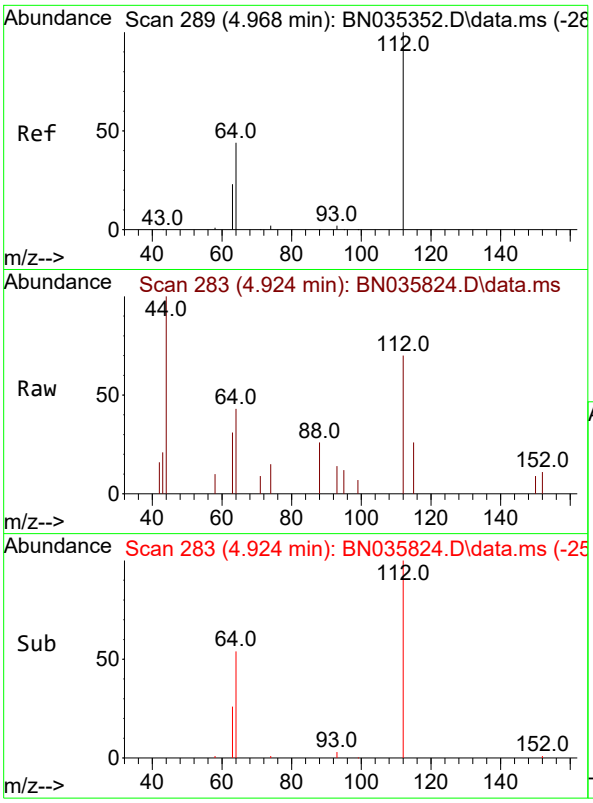


#2
1,4-Dioxane
Concen: 0.146 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 88 Resp: 493

Ion	Ratio	Lower	Upper
88	100		
43	49.5	17.2	25.8#
58	44.6	44.5	66.7



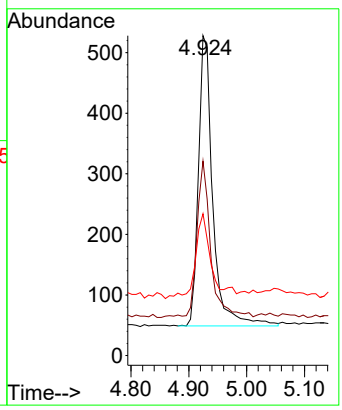


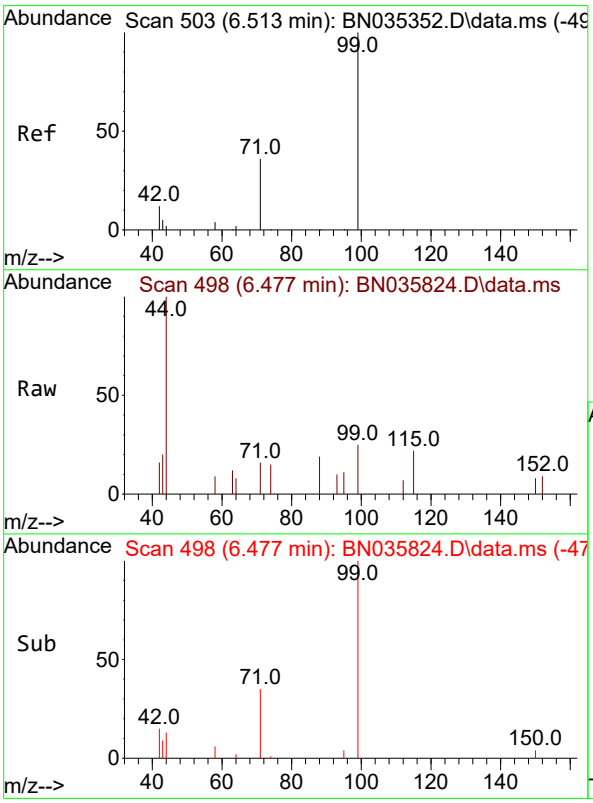
#4
2-Fluorophenol
Concen: 0.093 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:112 Resp: 827

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	29.9	21.0	31.6

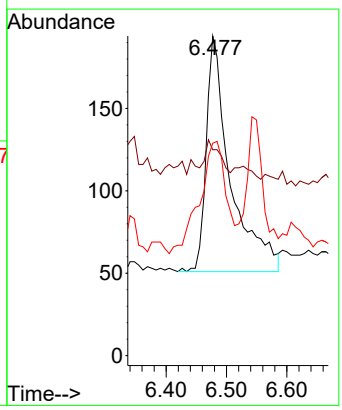


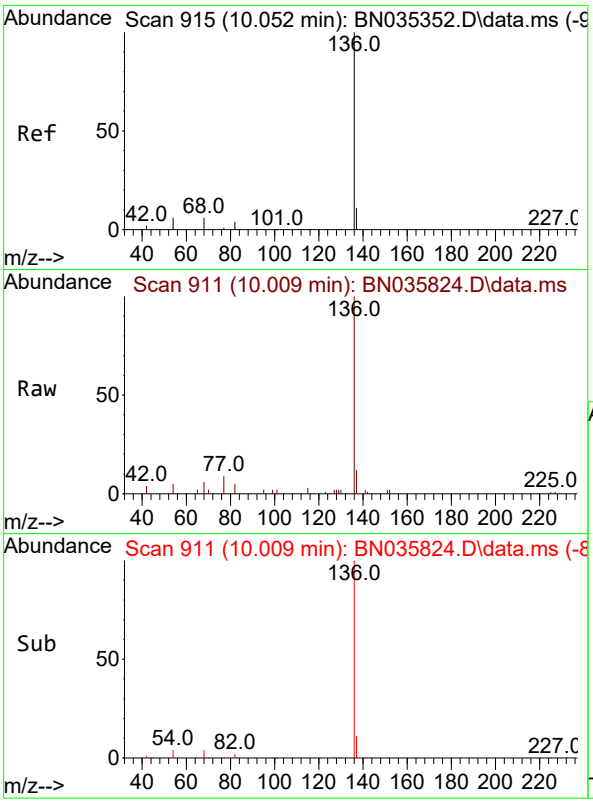


#5
Phenol-d6
Concen: 0.037 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 99 Resp: 397

Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	52.1	29.3	43.9#



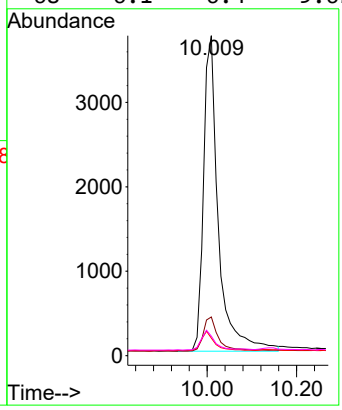


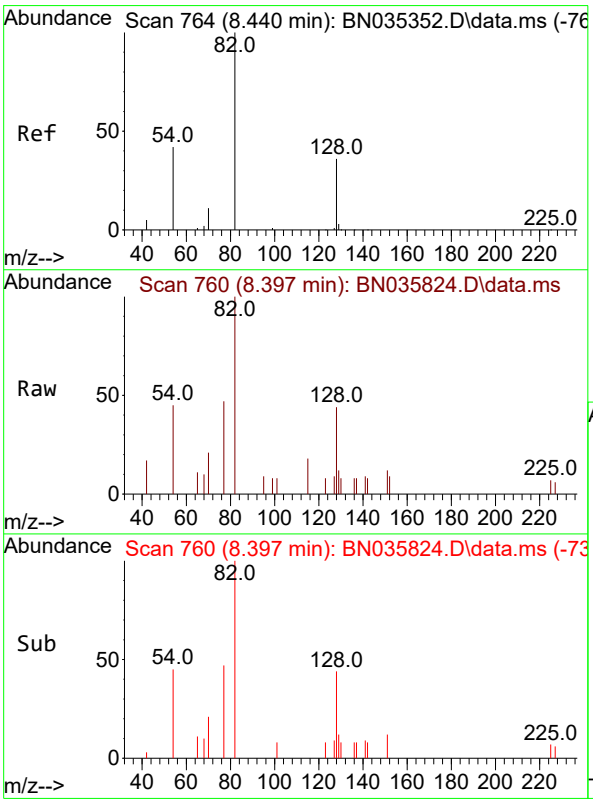
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:136 Resp: 8575

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	5.5	6.1	9.1#
68	6.1	6.4	9.6#

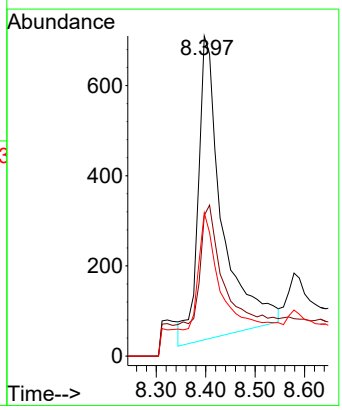


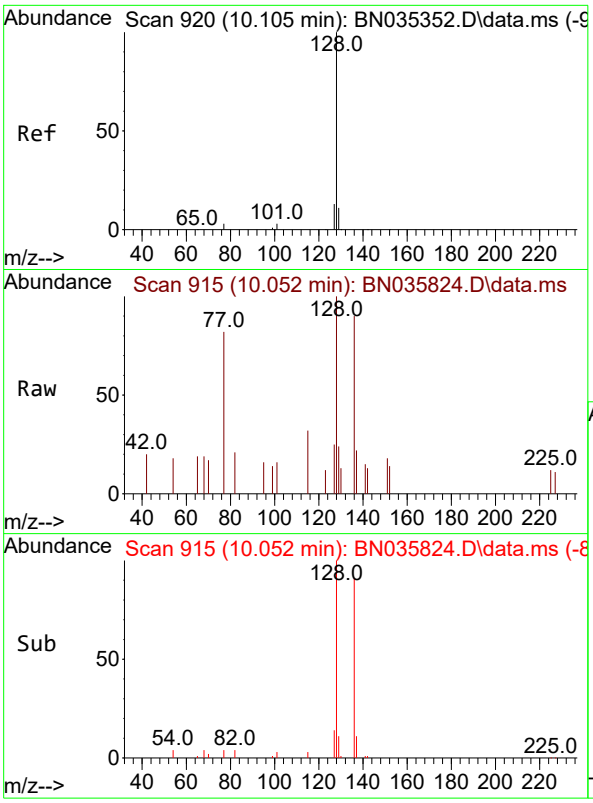


#8
Nitrobenzene-d5
Concen: 0.432 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion: 82 Resp: 2265

Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.4	50.0
54	44.8	36.7	55.1



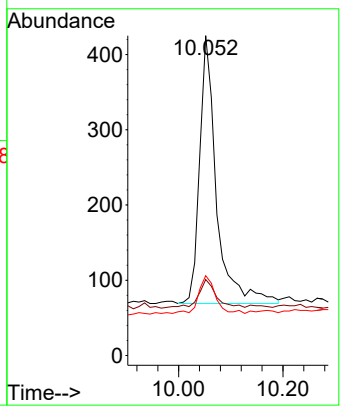


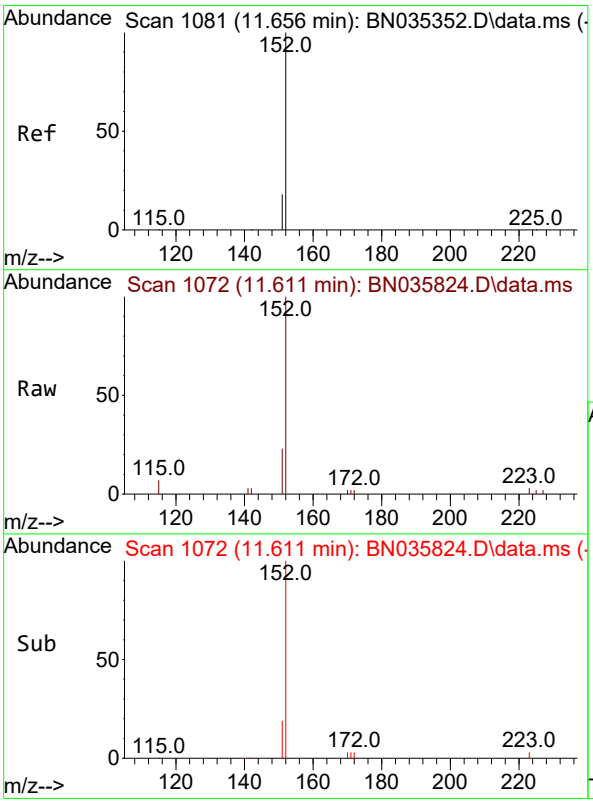
#9
Naphthalene
Concen: 0.036 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:128 Resp: 803

Ion	Ratio	Lower	Upper
128	100		
129	23.8	9.8	14.6#
127	24.9	11.4	17.2#

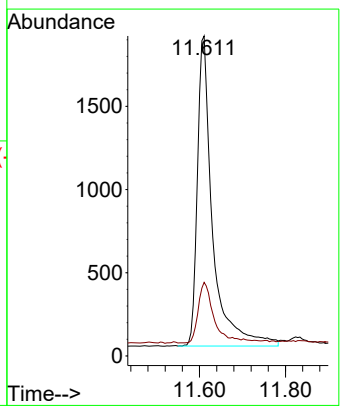


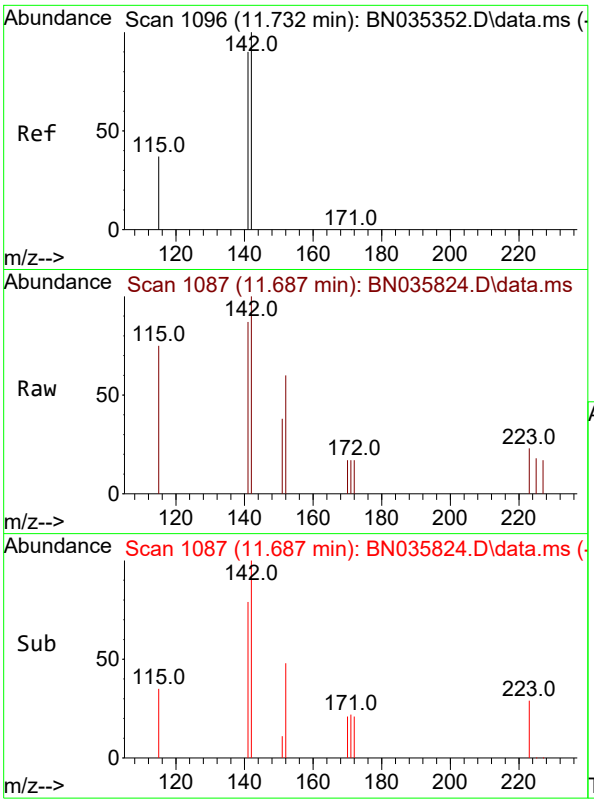


#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:152 Resp: 4576

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.6	25.0



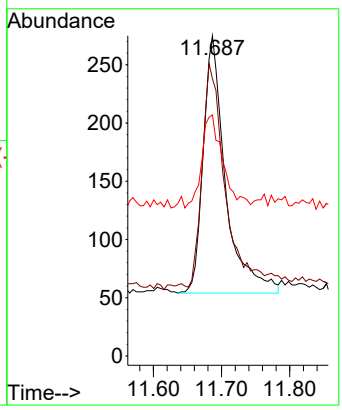


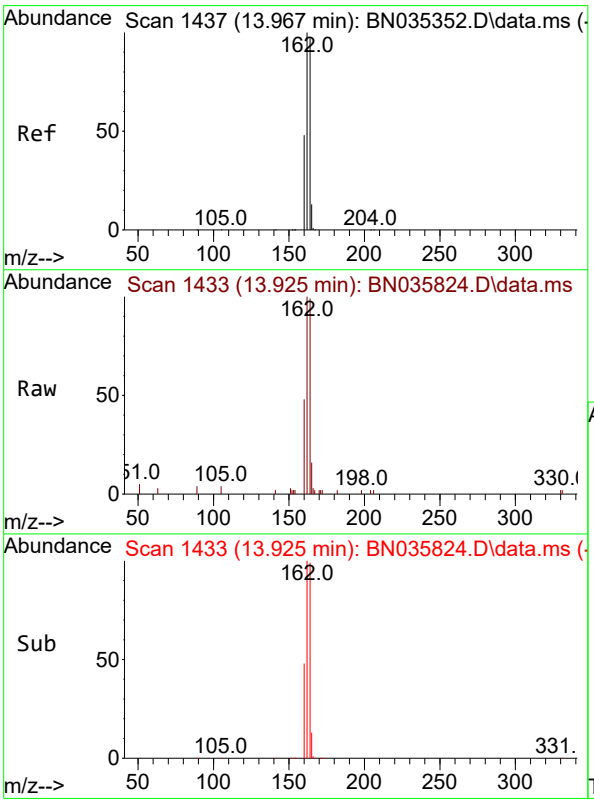
#12
2-Methylnaphthalene
Concen: 0.031 ng
RT: 11.687 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:142 Resp: 502

Ion	Ratio	Lower	Upper
142	100		
141	86.5	72.2	108.4
115	75.3	31.4	47.0#

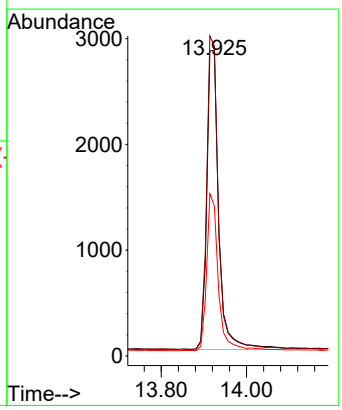


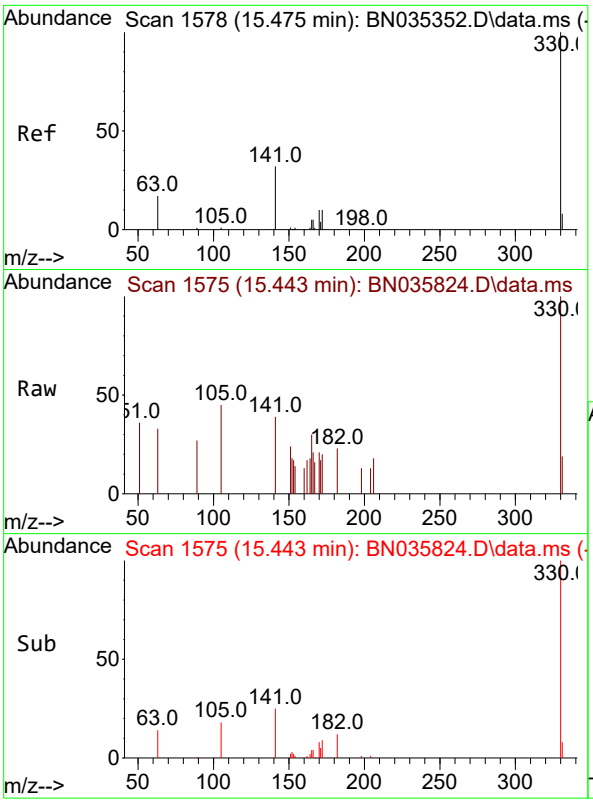


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:164 Resp: 5533

Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.2	123.2
160	49.1	40.1	60.1



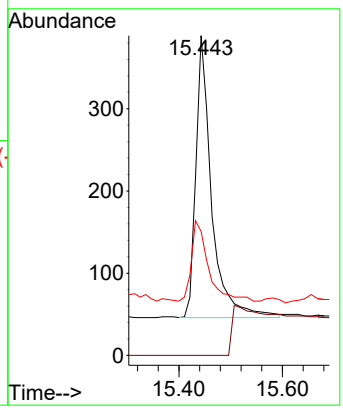


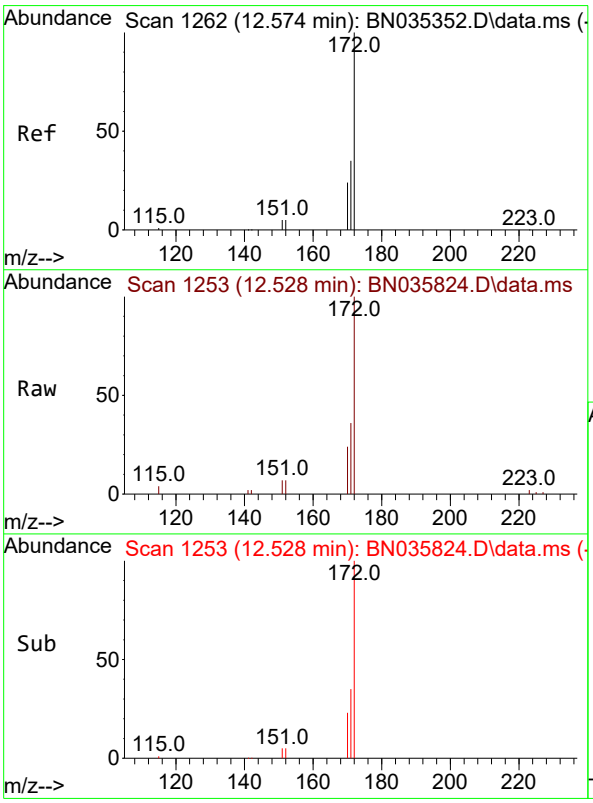
#14
2,4,6-Tribromophenol
Concen: 0.195 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:330 Resp: 766

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.8	26.6	40.0

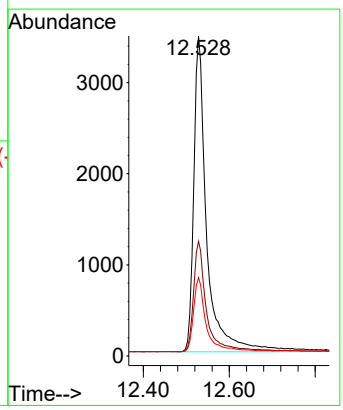


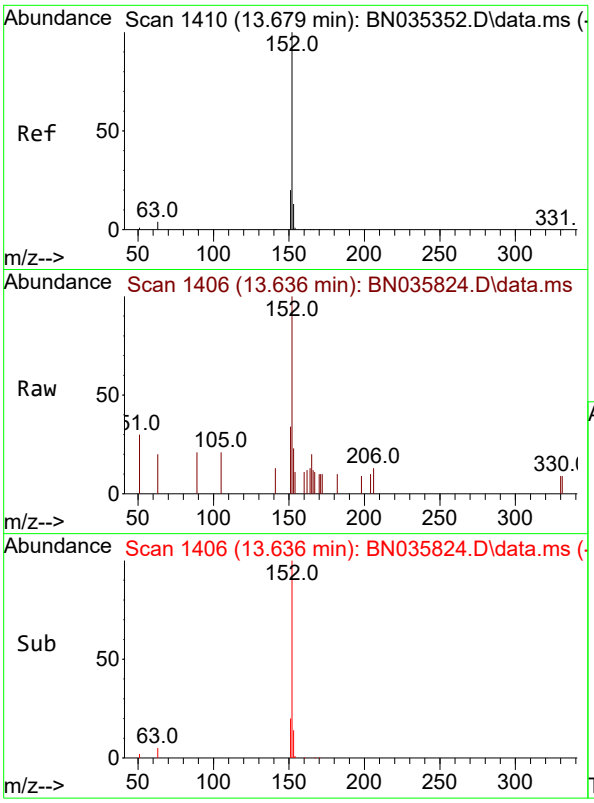


#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:172 Resp: 7209

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	24.5	19.8	29.8



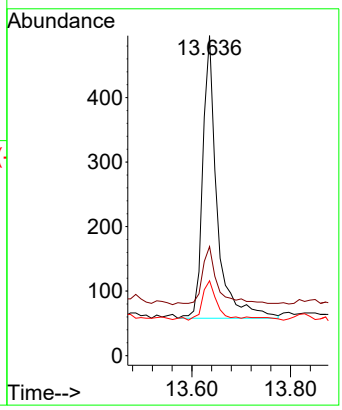


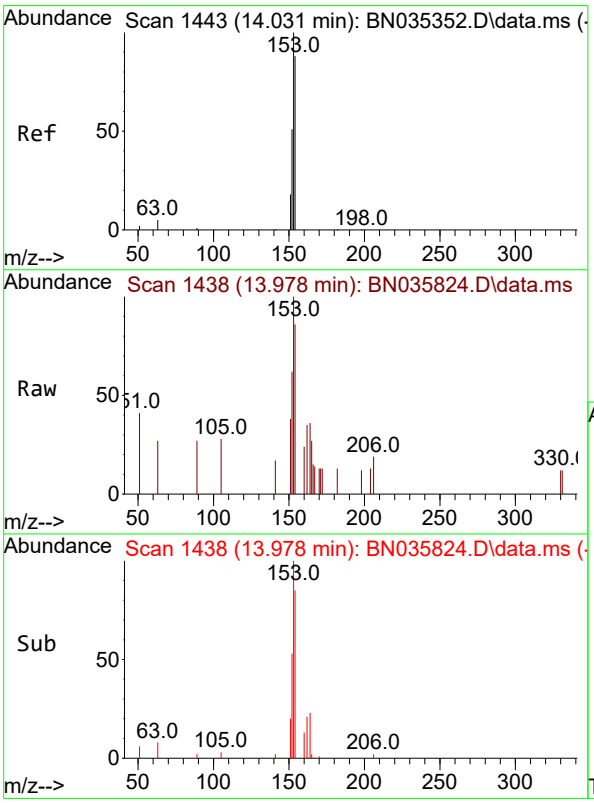
#16
Acenaphthylene
Concen: 0.038 ng
RT: 13.636 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:152 Resp: 877

Ion	Ratio	Lower	Upper
152	100		
151	22.6	16.2	24.2
153	13.7	10.4	15.6

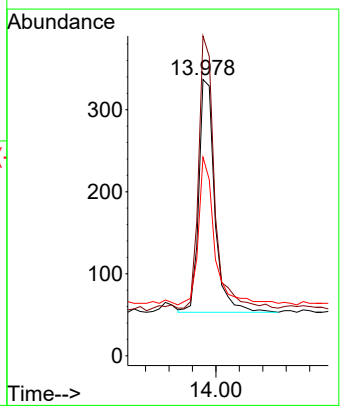


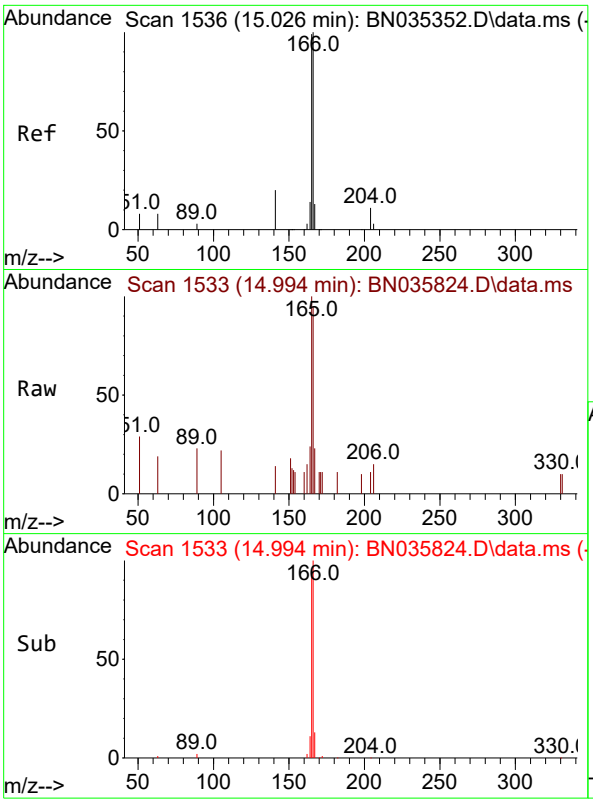


#17
Acenaphthene
Concen: 0.035 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:154 Resp: 539

Ion	Ratio	Lower	Upper
154	100		
153	115.6	92.6	139.0
152	64.9	49.0	73.6



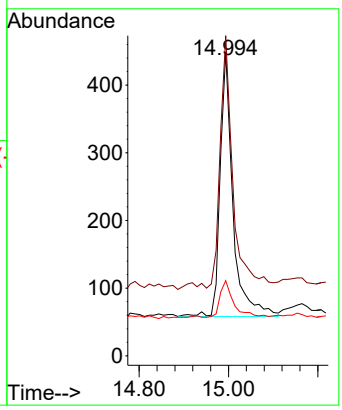


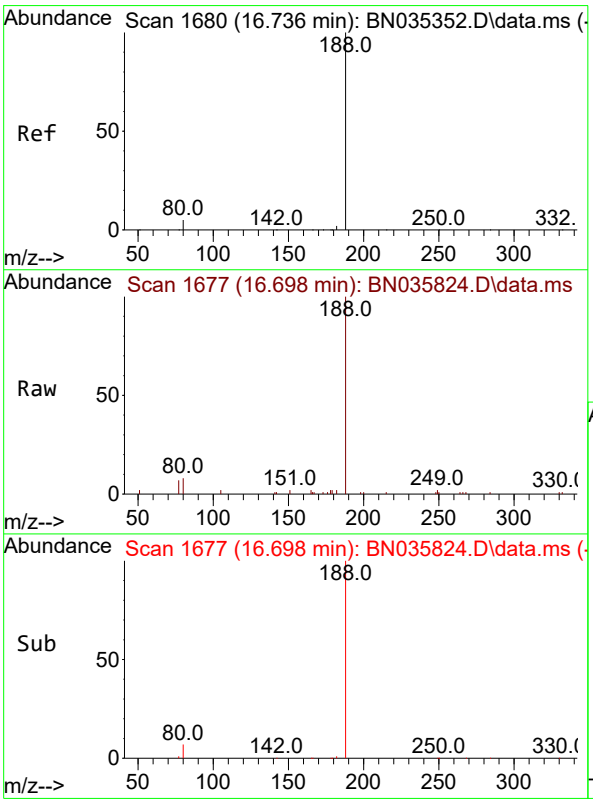
#18
Fluorene
Concen: 0.035 ng
RT: 14.994 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:166 Resp: 778

Ion	Ratio	Lower	Upper
166	100		
165	95.8	79.7	119.5
167	15.2	10.8	16.2

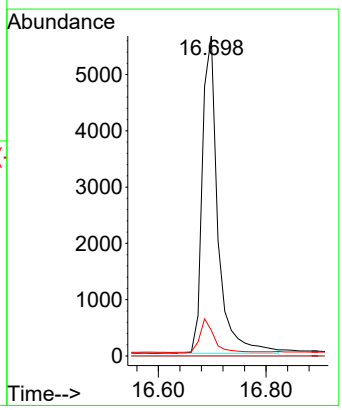


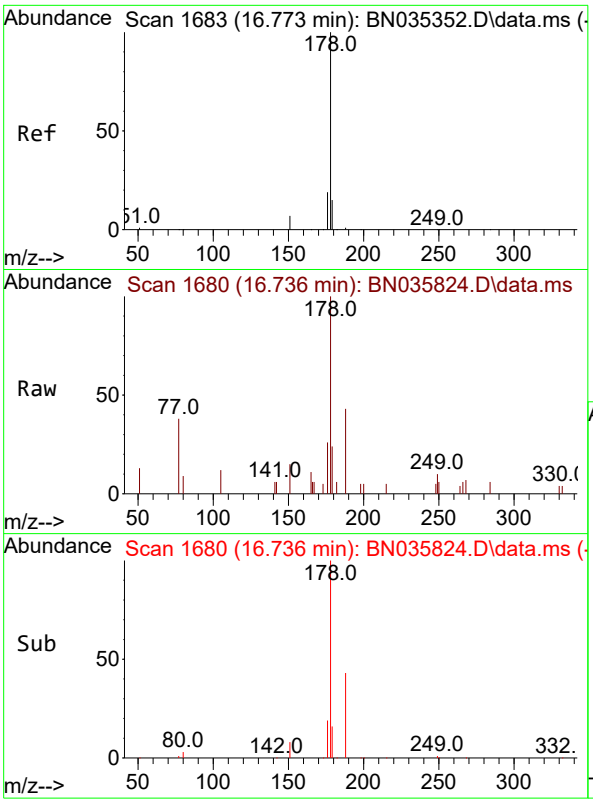


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:188 Resp: 11307

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	4.6	6.8#



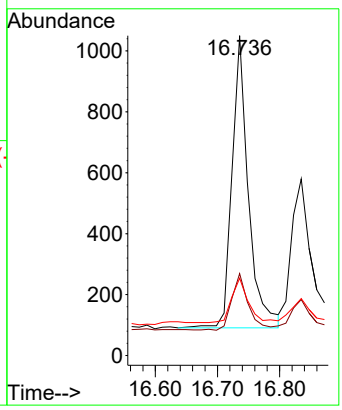


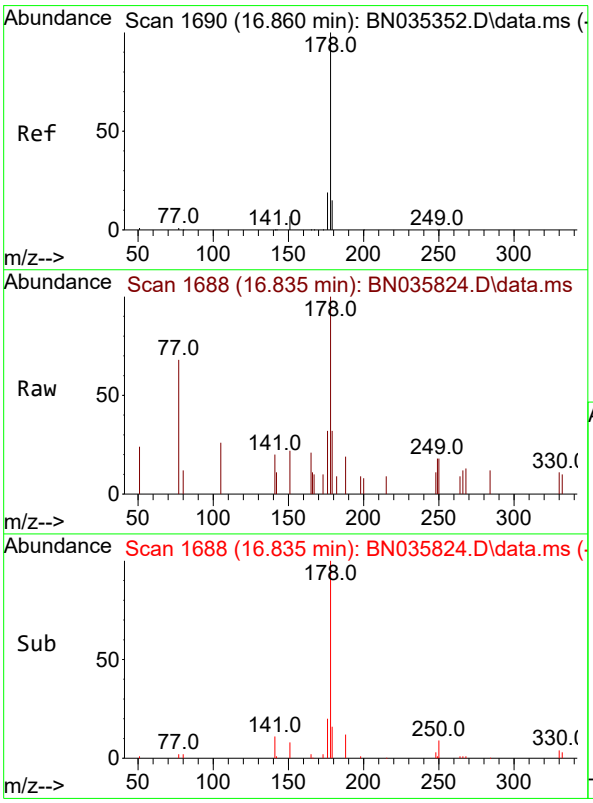
#25
Phenanthrene
Concen: 0.057 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:178 Resp: 1755

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.3	18.5

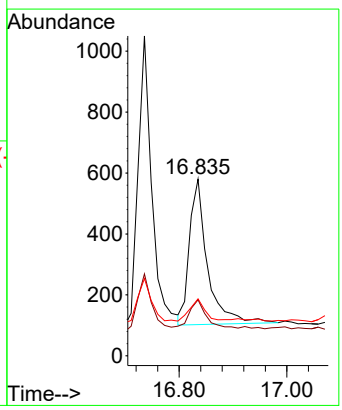


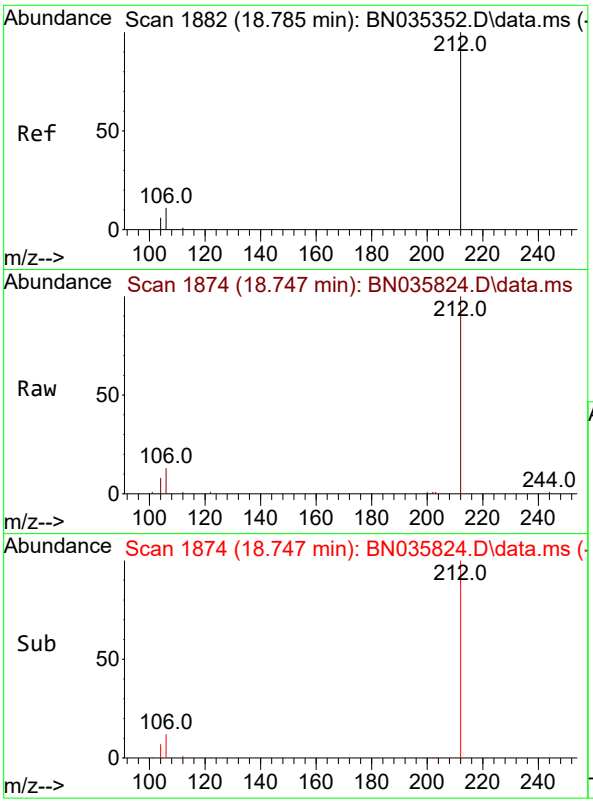


#26
Anthracene
Concen: 0.040 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:178 Resp: 1113

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	12.8	12.6	18.8



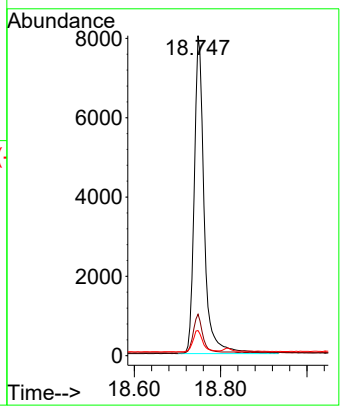


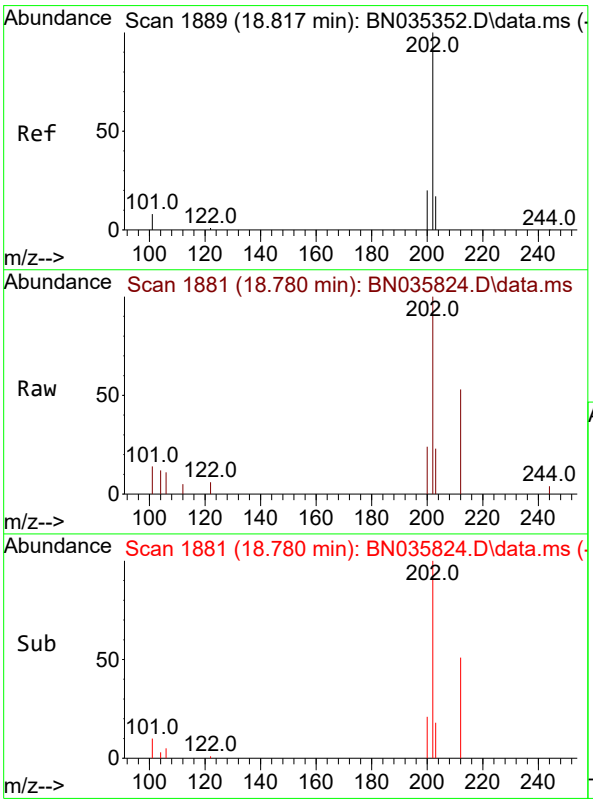
#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:212 Resp: 12883

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	6.7	5.3	7.9

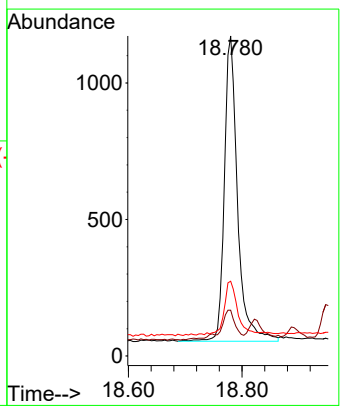


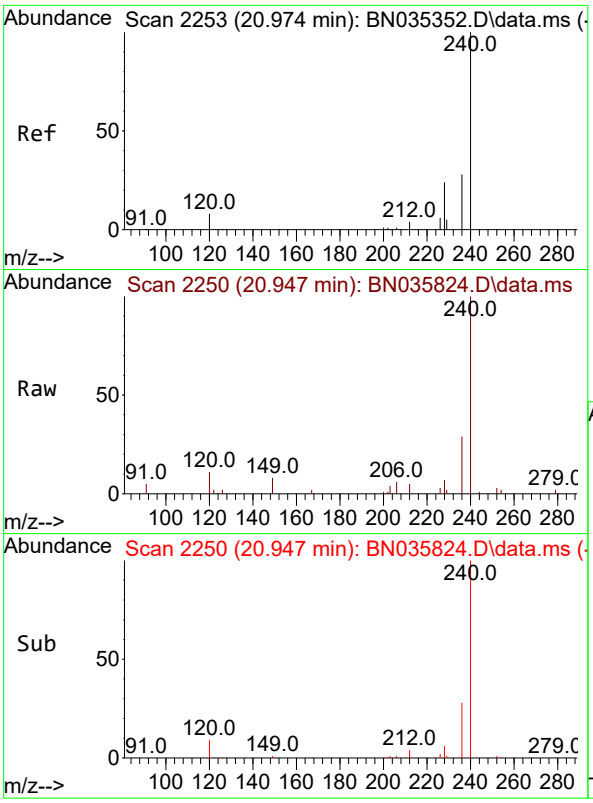


#28
Fluoranthene
Concen: 0.043 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1804

Ion	Ratio	Lower	Upper
202	100		
101	11.1	7.4	11.0#
203	18.0	13.7	20.5



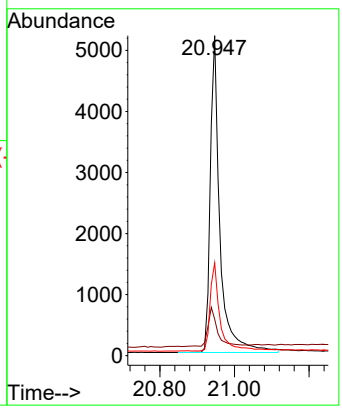


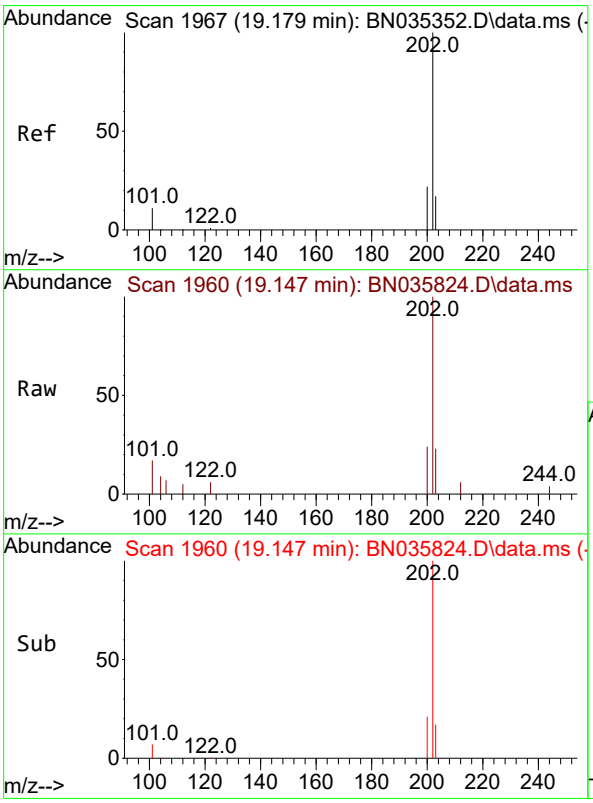
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:240 Resp: 9270

Ion	Ratio	Lower	Upper
240	100		
120	11.4	7.9	11.9
236	29.0	22.9	34.3

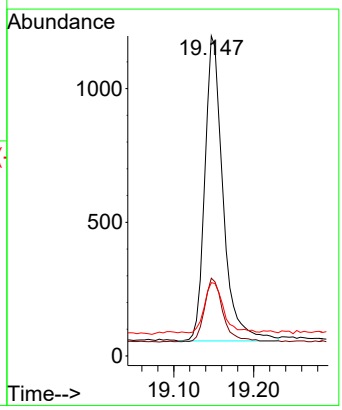


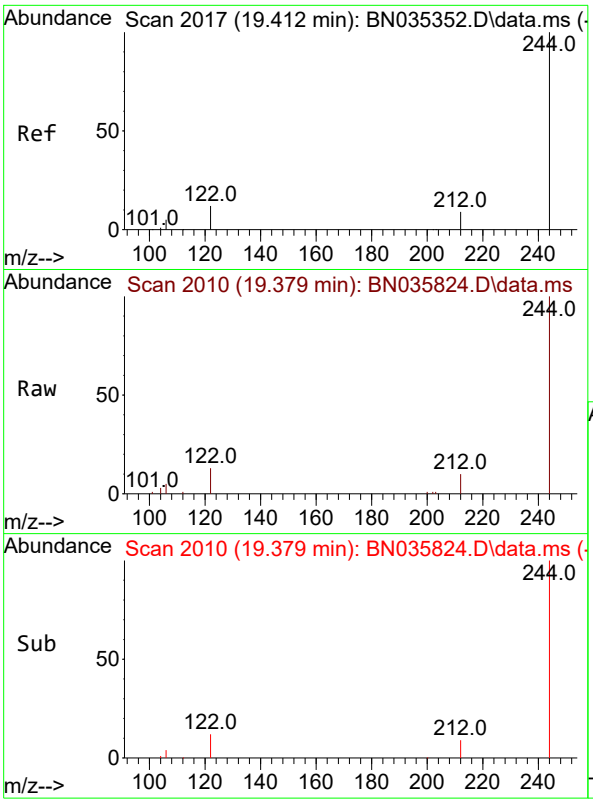


#30
Pyrene
Concen: 0.053 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:202 Resp: 1807

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.7	14.3	21.5



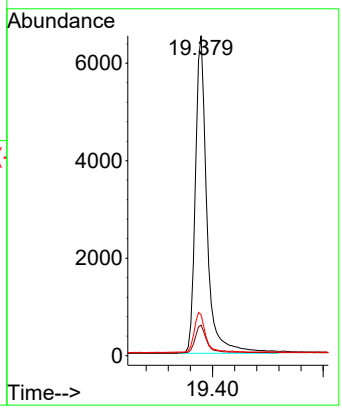


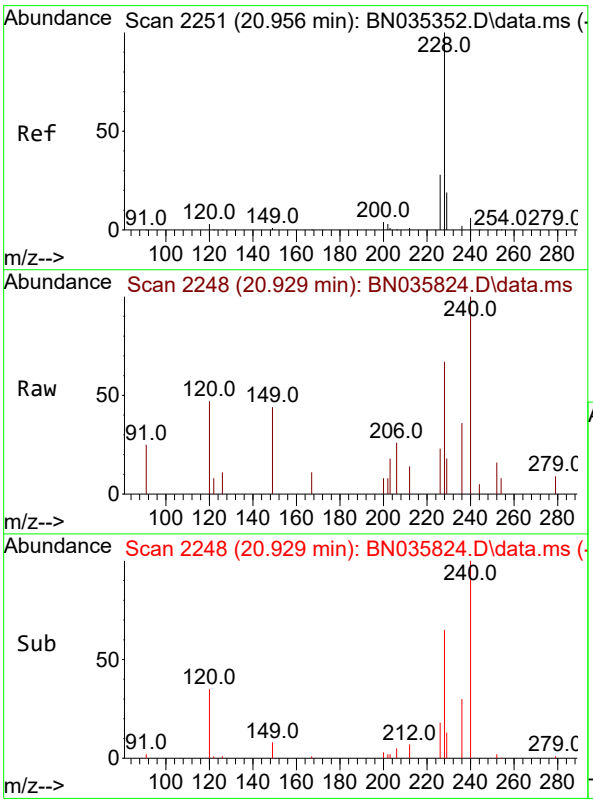
#31
Terphenyl-d14
Concen: 0.520 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:244 Resp: 9501

Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.1	12.1
122	12.8	10.3	15.5

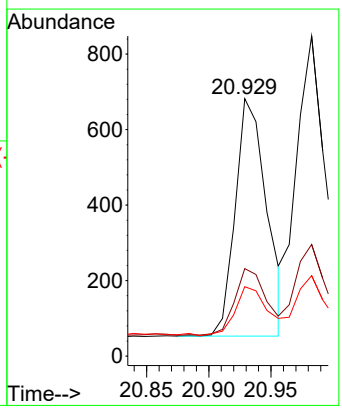


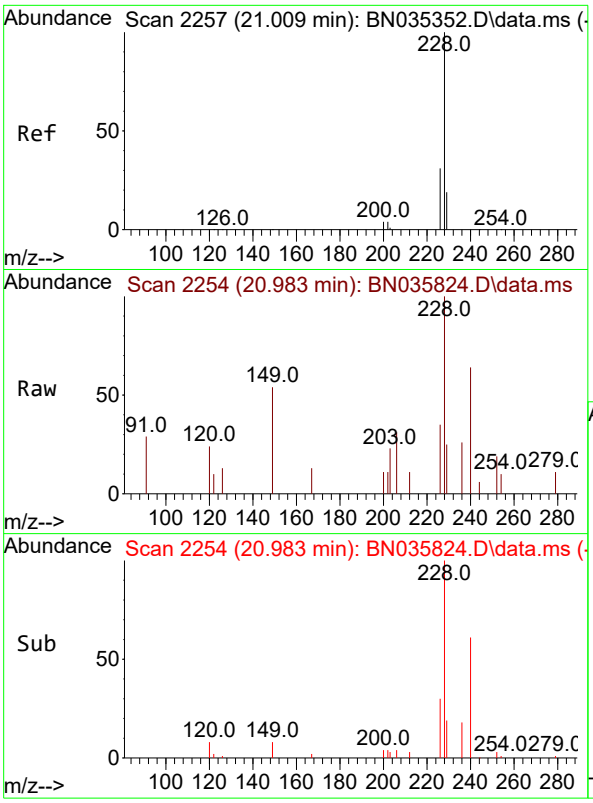


#32
Benzo(a)anthracene
Concen: 0.034 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:228 Resp: 1100

Ion	Ratio	Lower	Upper
228	100		
226	34.0	22.5	33.7#
229	27.0	15.8	23.8#



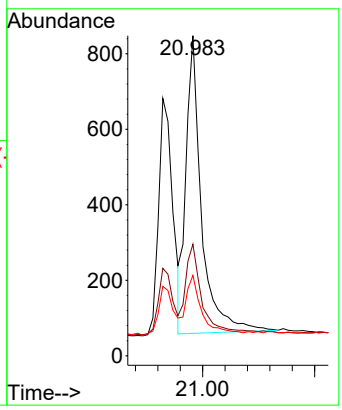


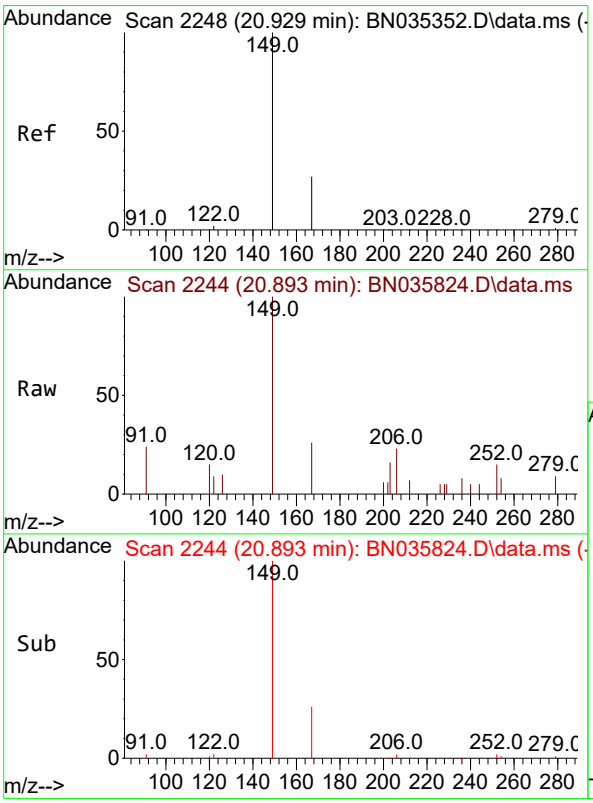
#33
Chrysene
Concen: 0.045 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:228 Resp: 1514

Ion	Ratio	Lower	Upper
228	100		
226	34.9	24.6	37.0
229	25.1	15.9	23.9#

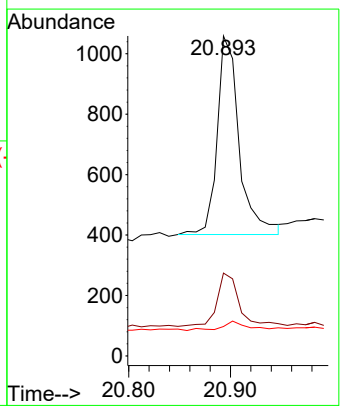


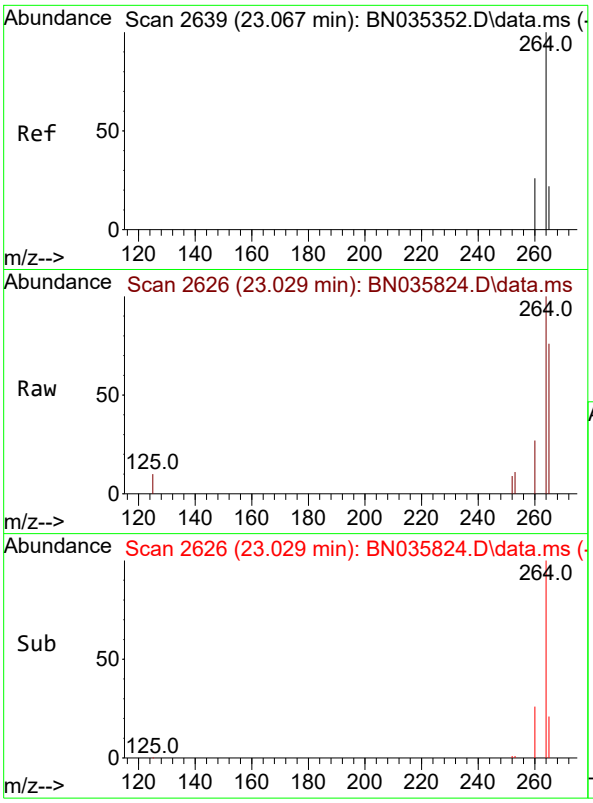


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:149 Resp: 988

Ion	Ratio	Lower	Upper
149	100		
167	26.7	22.2	33.4
279	5.5	2.7	4.1#



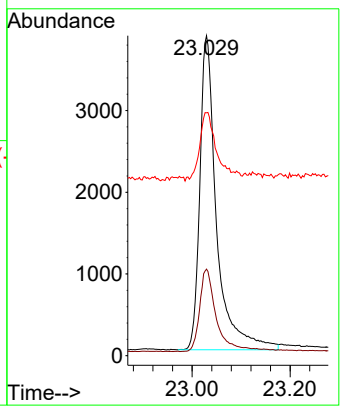


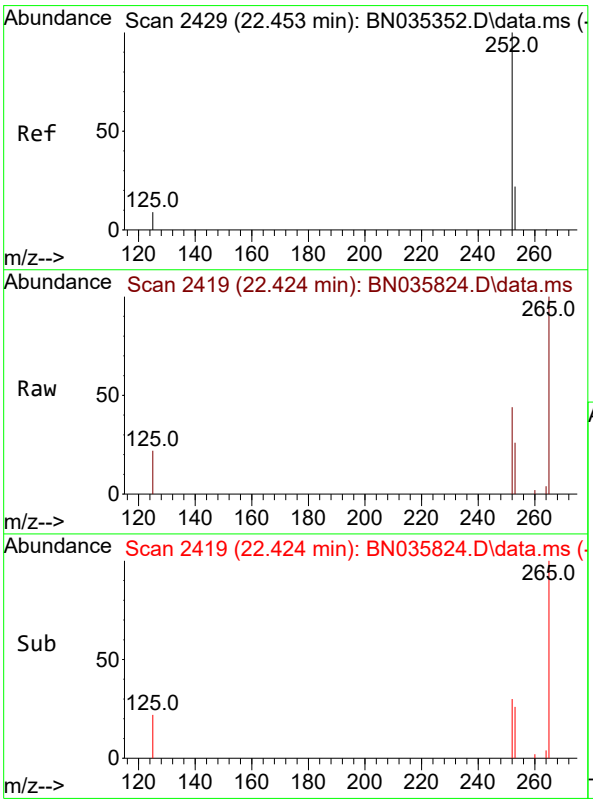
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:264 Resp: 9119

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	75.9	40.2	60.4#

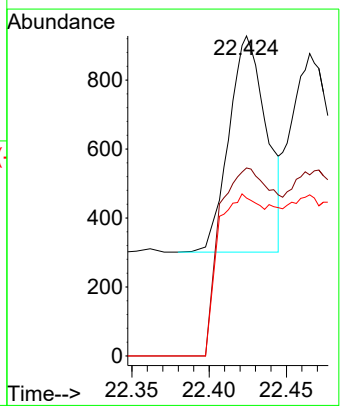


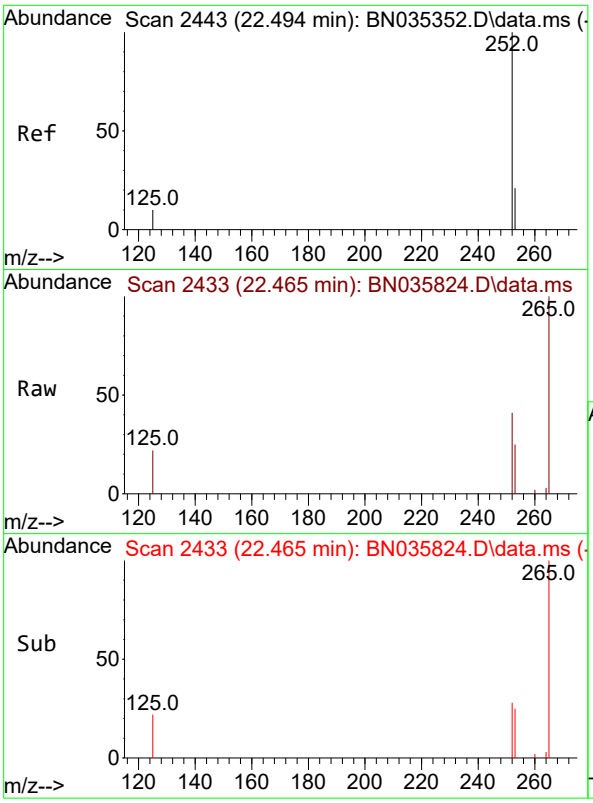


#37
Benzo(b)fluoranthene
Concen: 0.042 ng
RT: 22.424 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 1409

Ion	Ratio	Lower	Upper
252	100		
253	58.7	19.6	29.4#
125	49.4	9.6	14.4#



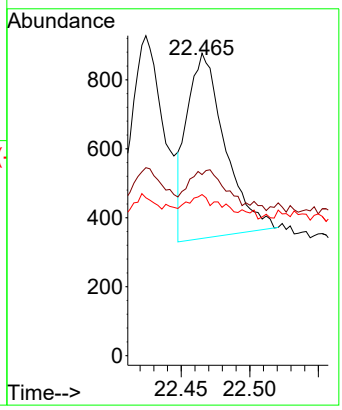


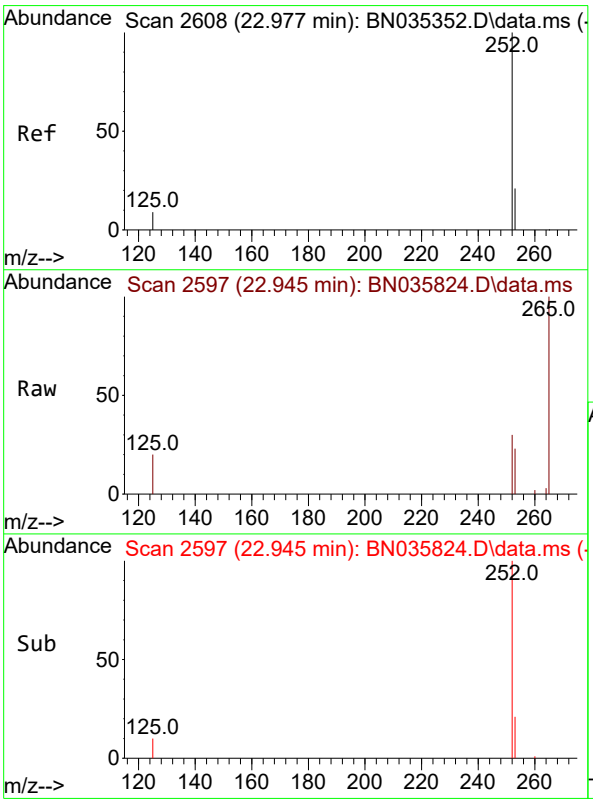
#38
Benzo(k)fluoranthene
Concen: 0.031 ng
RT: 22.465 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:252 Resp: 1028

Ion	Ratio	Lower	Upper
252	100		
253	59.9	19.5	29.3#
125	53.2	10.2	15.4#

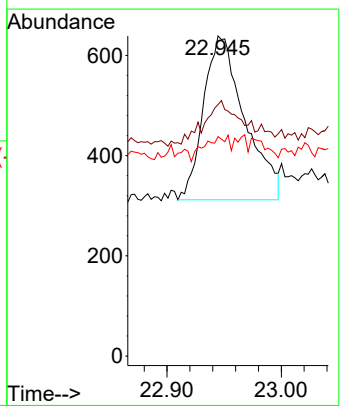


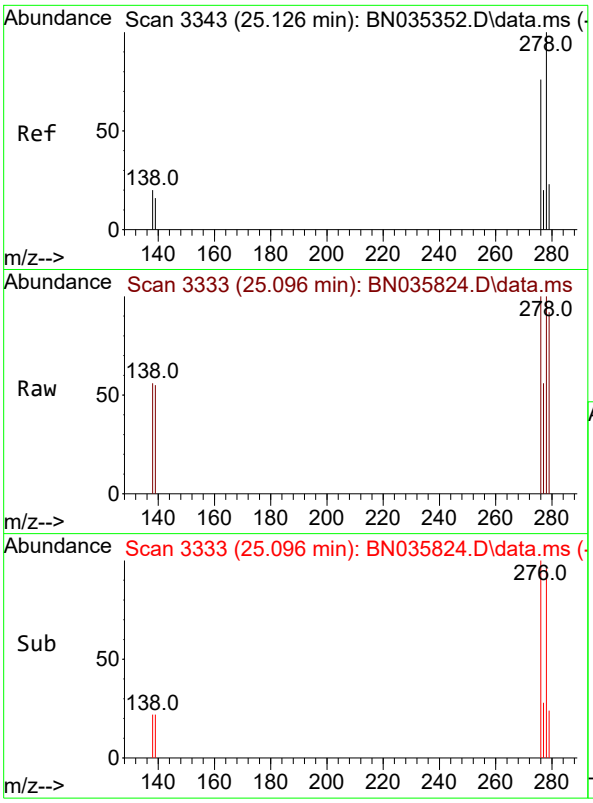


#39
Benzo(a)pyrene
Concen: 0.030 ng
RT: 22.945 min Scan# 2597
Delta R.T. -0.006 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:252 Resp: 820

Ion	Ratio	Lower	Upper
252	100		
253	78.6	20.2	30.4#
125	68.5	10.9	16.3#



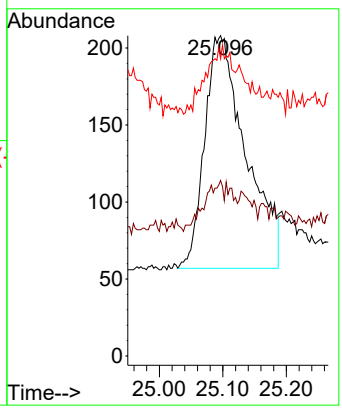


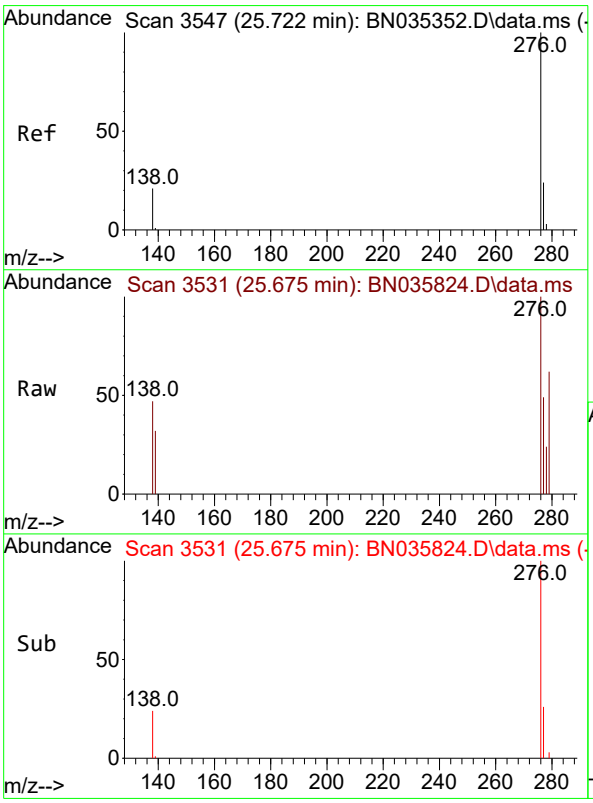
#40
Dibenzo(a,h)anthracene
Concen: 0.024 ng
RT: 25.096 min Scan# 3
Delta R.T. 0.015 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20241218

Tgt Ion:278 Resp: 685

Ion	Ratio	Lower	Upper
278	100		
139	54.8	14.2	21.4#
279	92.8	20.5	30.7#

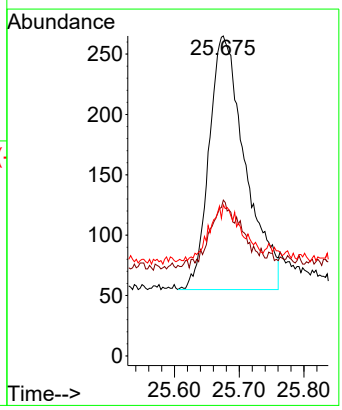




#41
Benzo(g,h,i)perylene
Concen: 0.028 ng
RT: 25.675 min Scan# 3531
Delta R.T. -0.003 min
Lab File: BN035824.D
Acq: 24 Dec 2024 16:42

Tgt Ion:276 Resp: 816

Ion	Ratio	Lower	Upper
276	100		
277	48.7	19.9	29.9#
138	47.2	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Quant Time: Dec 24 23:20:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

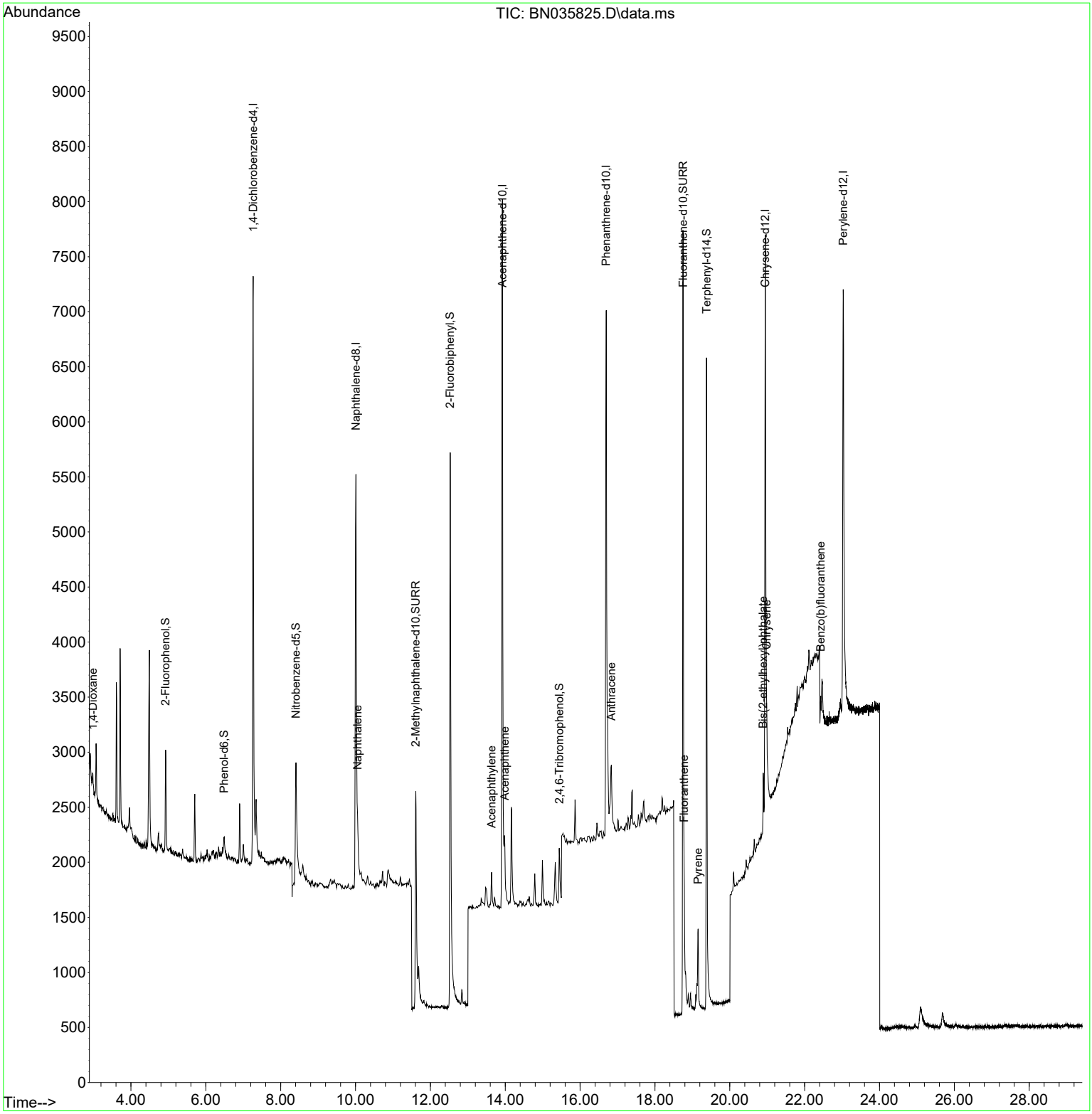
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3186	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7275	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4568	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9048	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6943	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6791	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	881	0.110	ng	-0.01
5) Phenol-d6	6.484	99	395	0.041	ng	0.00
8) Nitrobenzene-d5	8.408	82	2909	0.655	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4263	0.374	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	626	0.193	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6668	0.386	ng	-0.02
27) Fluoranthene-d10	18.752	212	10051	0.392	ng	0.00
31) Terphenyl-d14	19.379	244	7353	0.537	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	98	0.032	ng	# 64
9) Naphthalene	10.052	128	451	0.024	ng	# 49
16) Acenaphthylene	13.636	152	407	0.021	ng	# 89
17) Acenaphthene	13.989	154	278	0.022	ng	94
26) Anthracene	16.835	178	519	0.023	ng	# 88
28) Fluoranthene	18.780	202	792	0.024	ng	# 98
30) Pyrene	19.152	202	780	0.030	ng	99
33) Chrysene	20.983	228	620	0.025	ng	# 78
34) Bis(2-ethylhexyl)phtha...	20.893	149	598	0.062	ng	# 95
37) Benzo(b)fluoranthene	22.427	252	629	0.025	ng	# 1

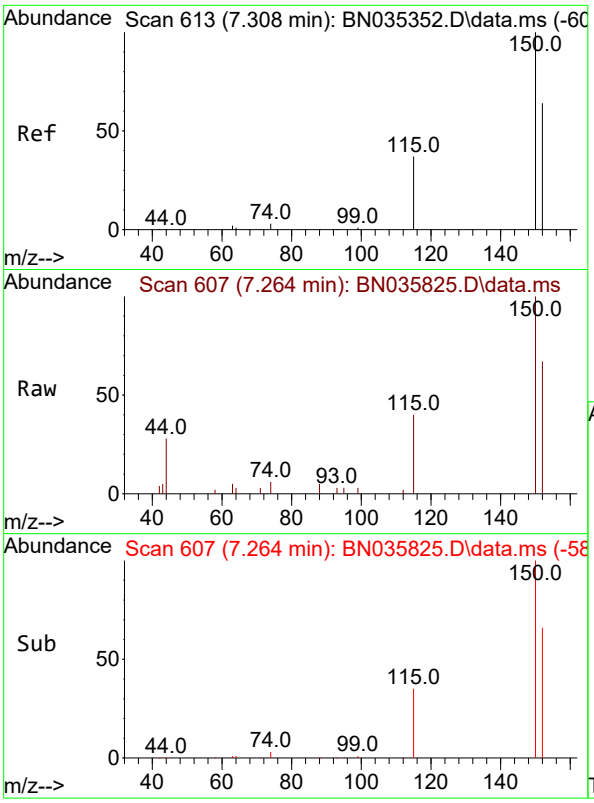
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035825.D
Acq On : 24 Dec 2024 17:18
Operator : RC/JU
Sample : P5376-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Quant Time: Dec 24 23:20:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



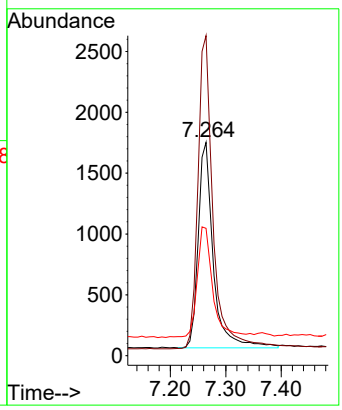


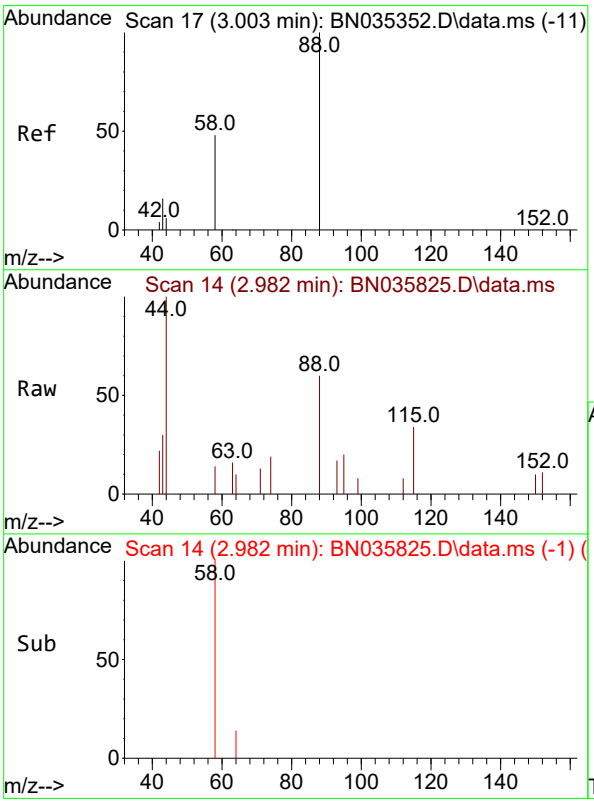
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:152 Resp: 3186

Ion	Ratio	Lower	Upper
152	100		
150	150.0	124.0	186.0
115	59.7	49.6	74.4

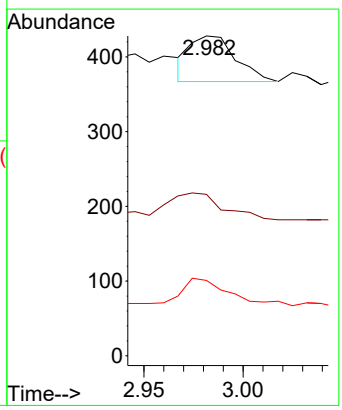


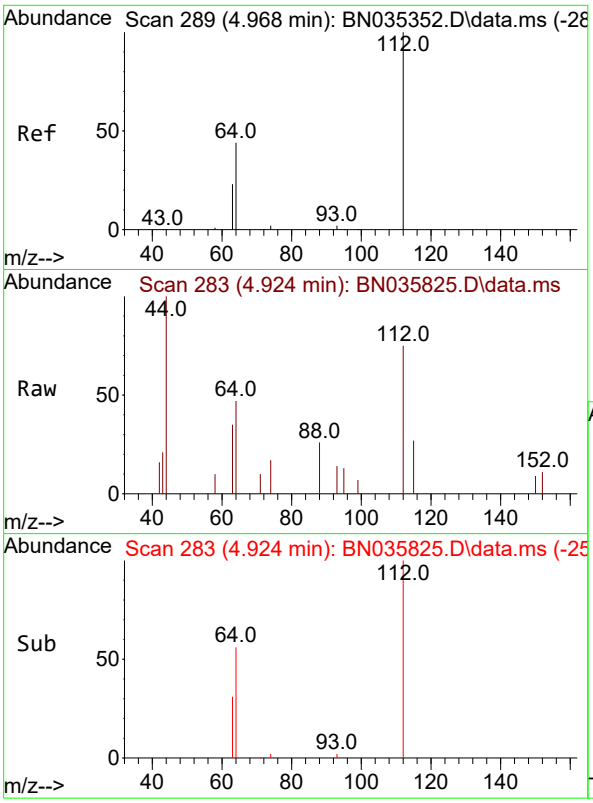


#2
1,4-Dioxane
Concen: 0.032 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 88 Resp: 98

Ion	Ratio	Lower	Upper
88	100		
43	70.4	17.2	25.8#
58	63.3	44.5	66.7



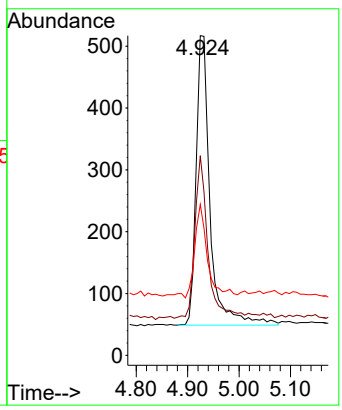


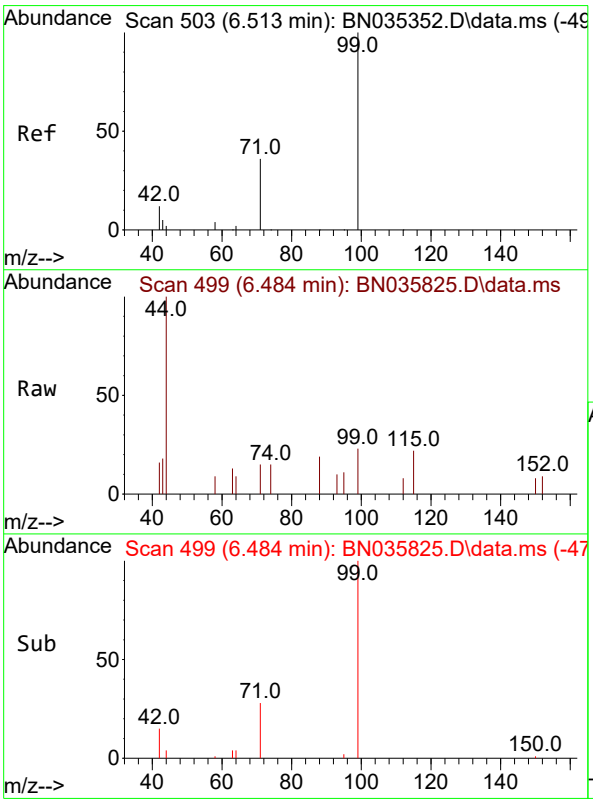
#4
2-Fluorophenol
Concen: 0.110 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:112 Resp: 881

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.1	21.0	31.6

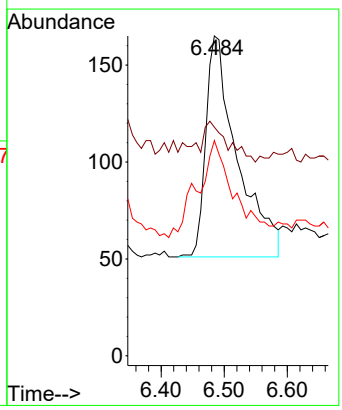


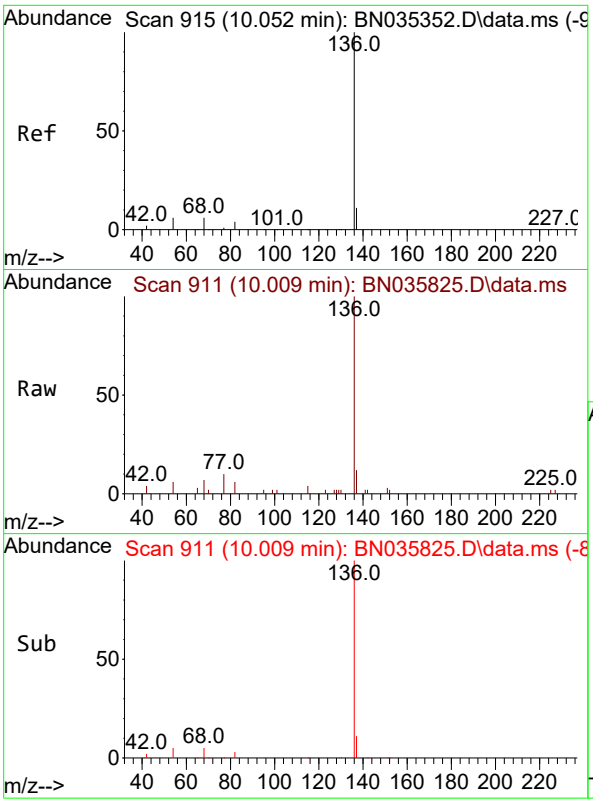


#5
Phenol-d6
Concen: 0.041 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 99 Resp: 395

Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	31.4	29.3	43.9



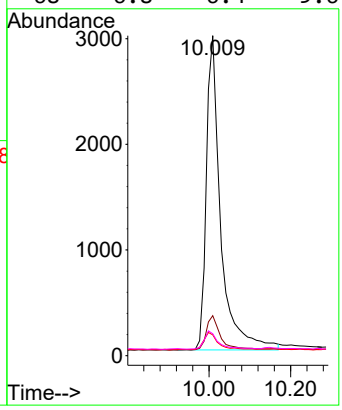


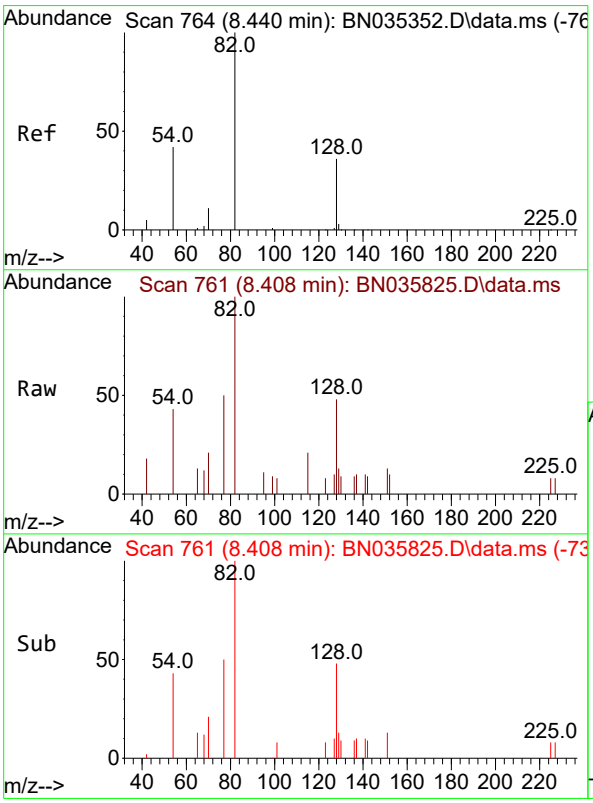
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:136 Resp: 7275

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.5	6.1	9.1
68	6.8	6.4	9.6

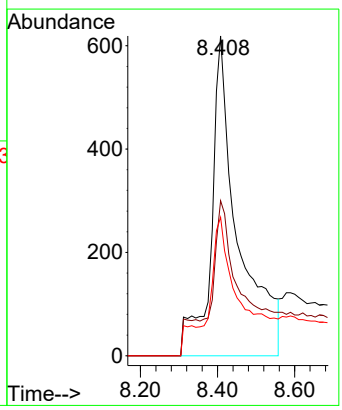


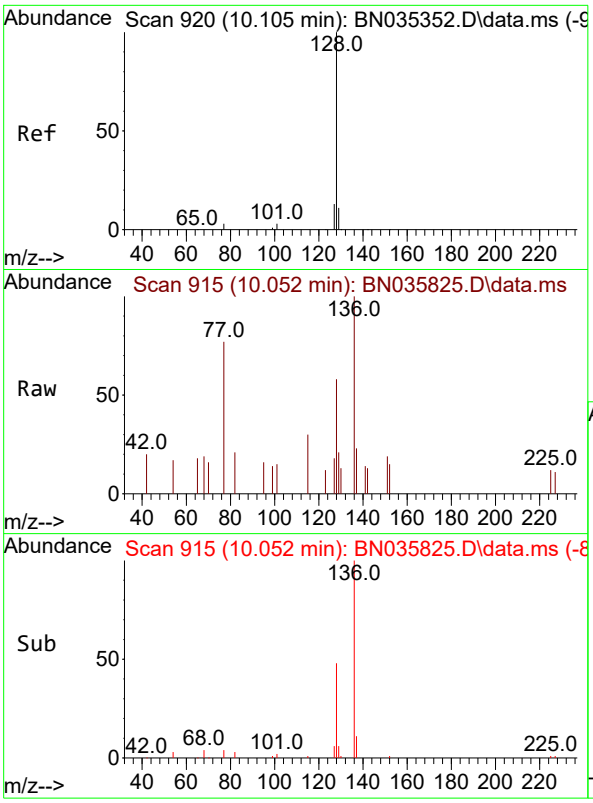


#8
Nitrobenzene-d5
Concen: 0.655 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion: 82 Resp: 2909

Ion	Ratio	Lower	Upper
82	100		
128	48.5	33.4	50.0
54	43.3	36.7	55.1



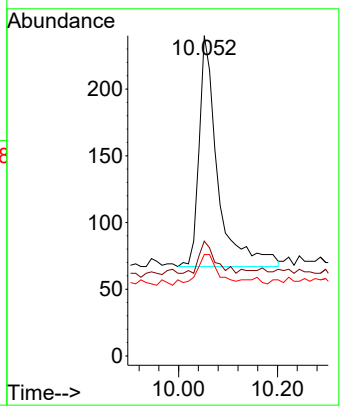


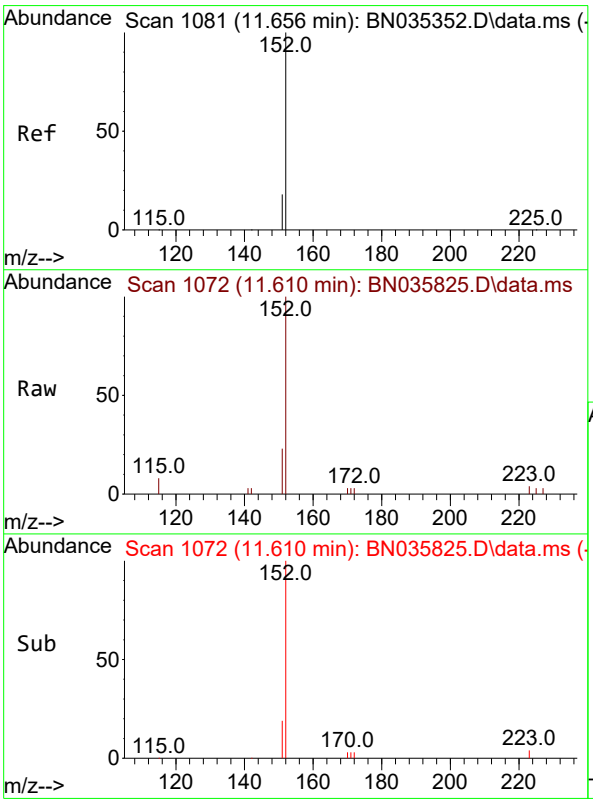
#9
Naphthalene
Concen: 0.024 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:128 Resp: 451

Ion	Ratio	Lower	Upper
128	100		
129	35.8	9.8	14.6#
127	31.7	11.4	17.2#

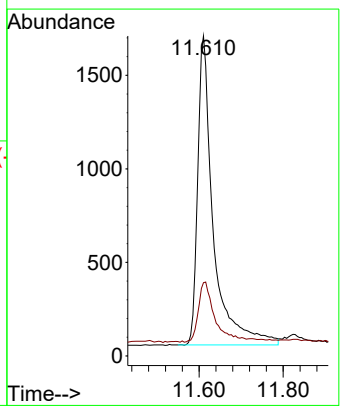


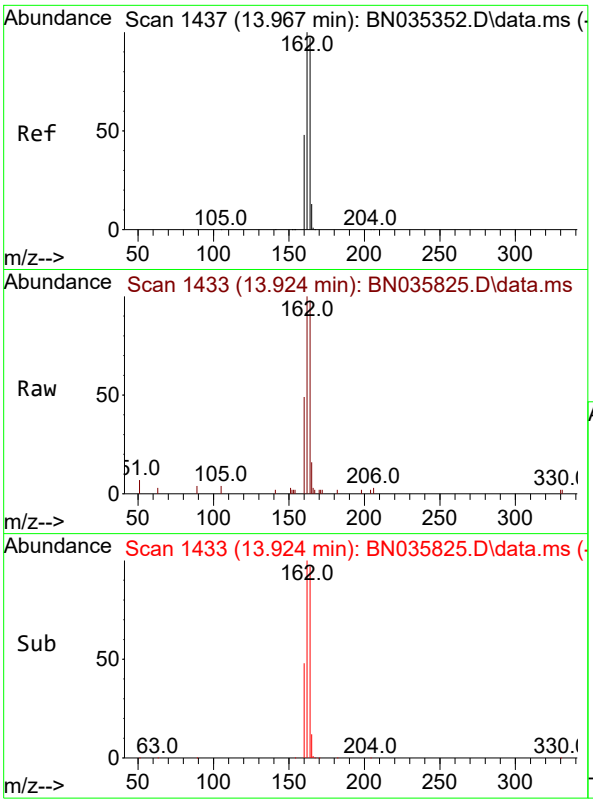


#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 4263

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



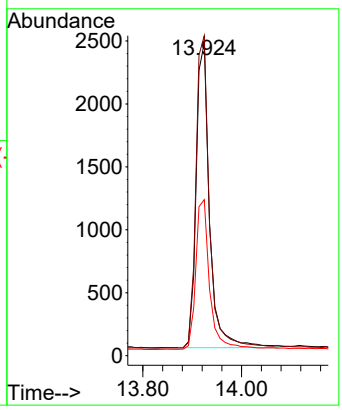


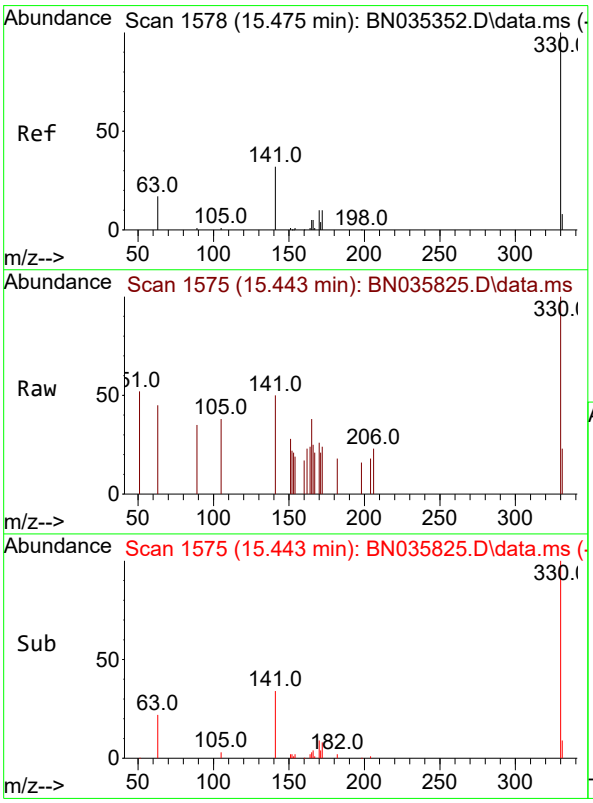
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:164 Resp: 4568

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	49.9	40.1	60.1

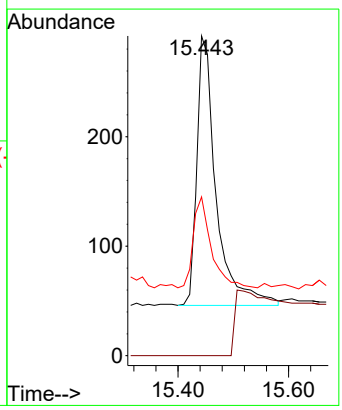


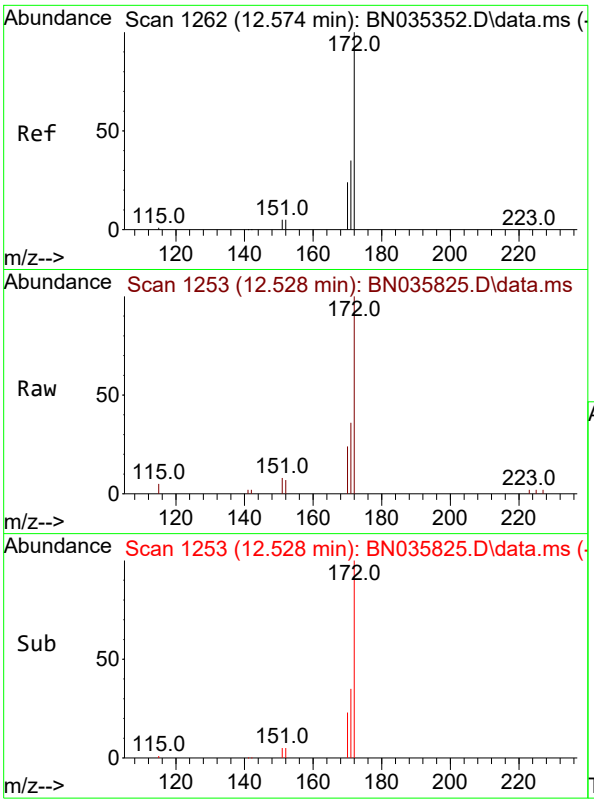


#14
2,4,6-Tribromophenol
Concen: 0.193 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:330 Resp: 626

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.7	26.6	40.0



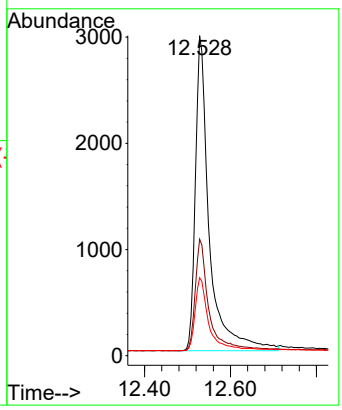


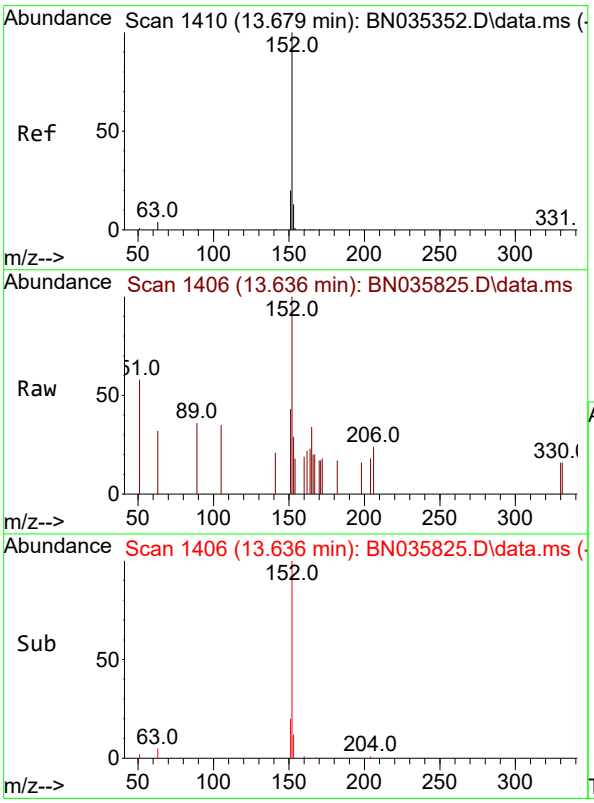
#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:172 Resp: 6668

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8

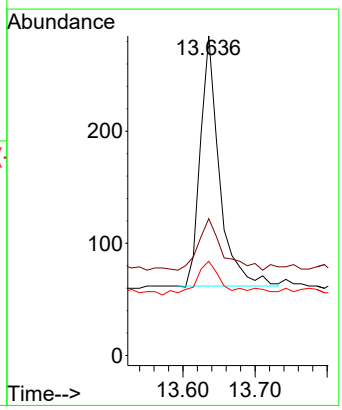


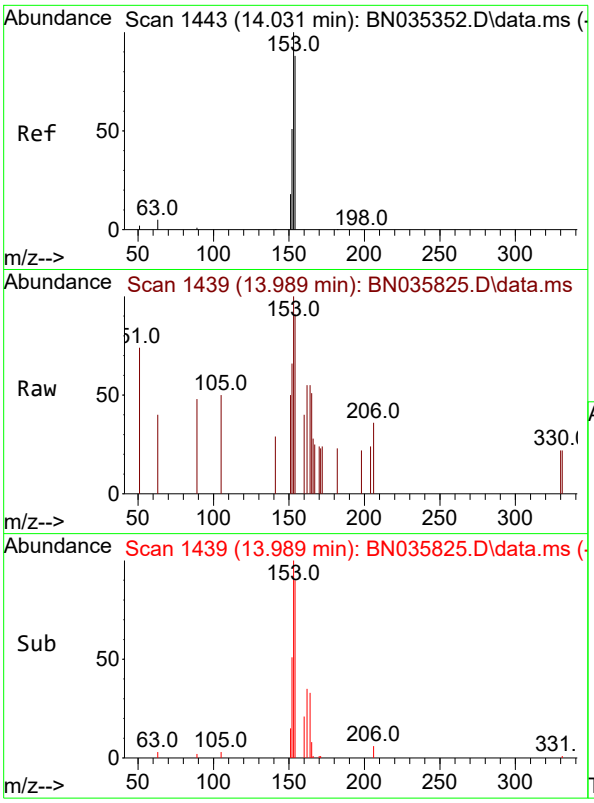


#16
Acenaphthylene
Concen: 0.021 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:152 Resp: 407

Ion	Ratio	Lower	Upper
152	100		
151	25.3	16.2	24.2#
153	17.7	10.4	15.6#



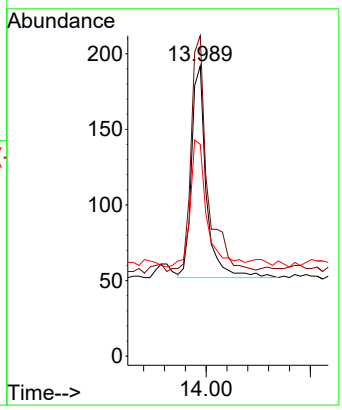


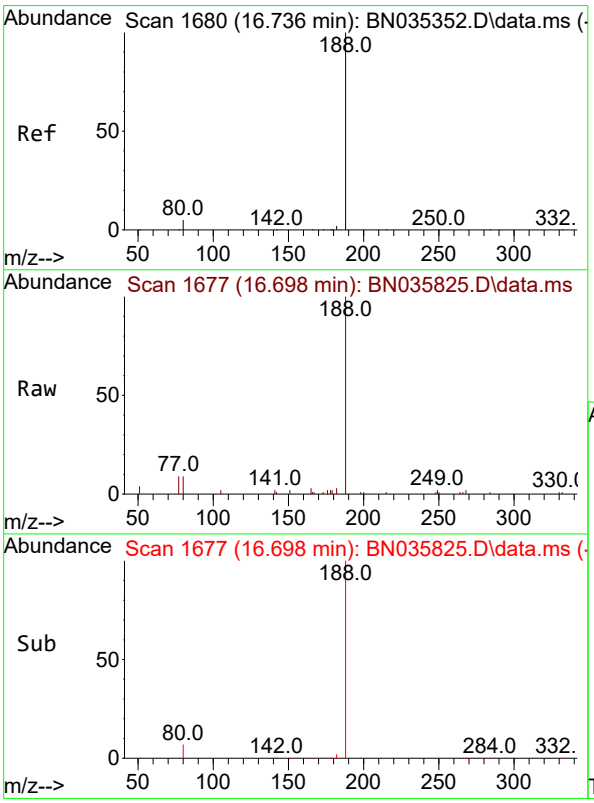
#17
Acenaphthene
Concen: 0.022 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:154 Resp: 278

Ion	Ratio	Lower	Upper
154	100		
153	121.9	92.6	139.0
152	67.3	49.0	73.6

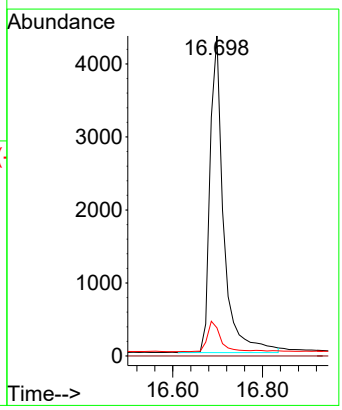


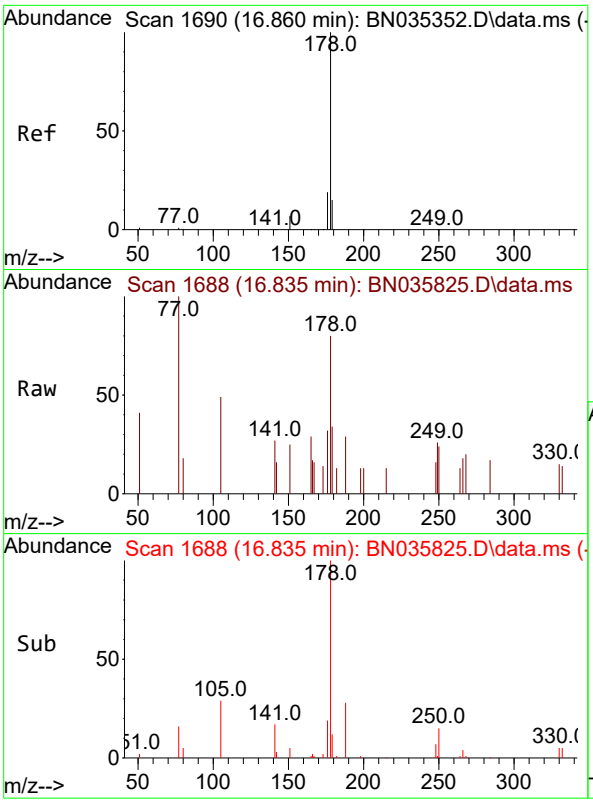


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:188 Resp: 9048

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	4.6	6.8#



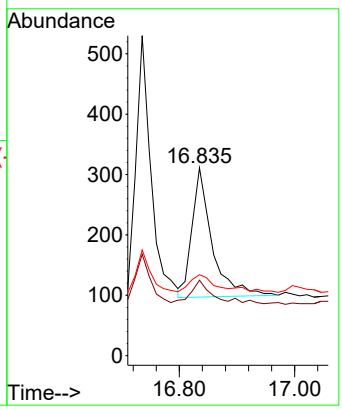


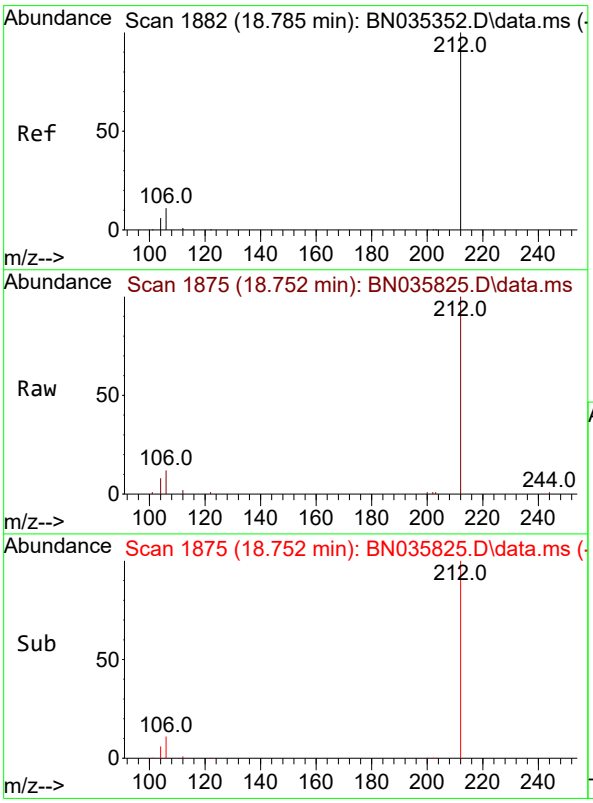
#26
Anthracene
Concen: 0.023 ng
RT: 16.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:178 Resp: 519

Ion	Ratio	Lower	Upper
178	100		
176	15.4	15.0	22.6
179	23.1	12.6	18.8#

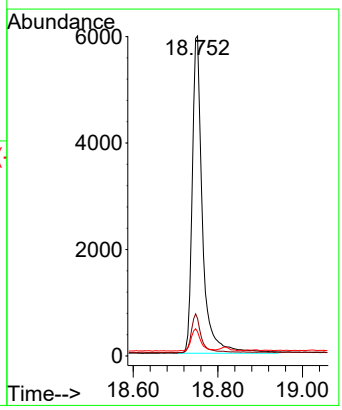


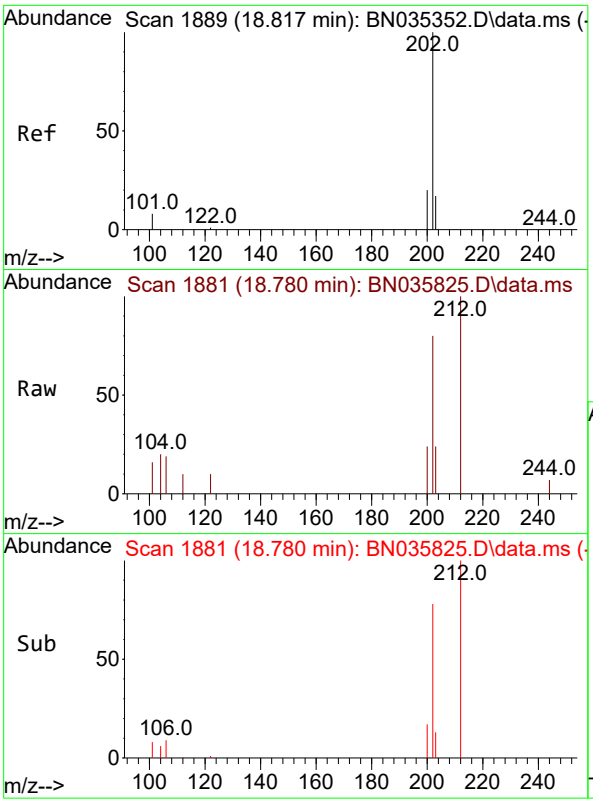


#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:212 Resp: 10051

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.5	5.3	7.9



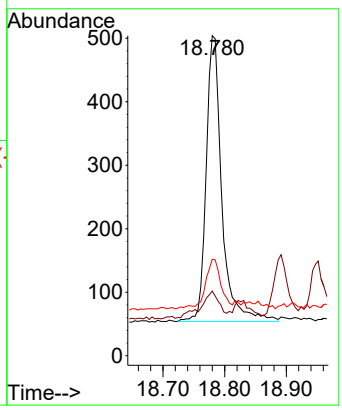


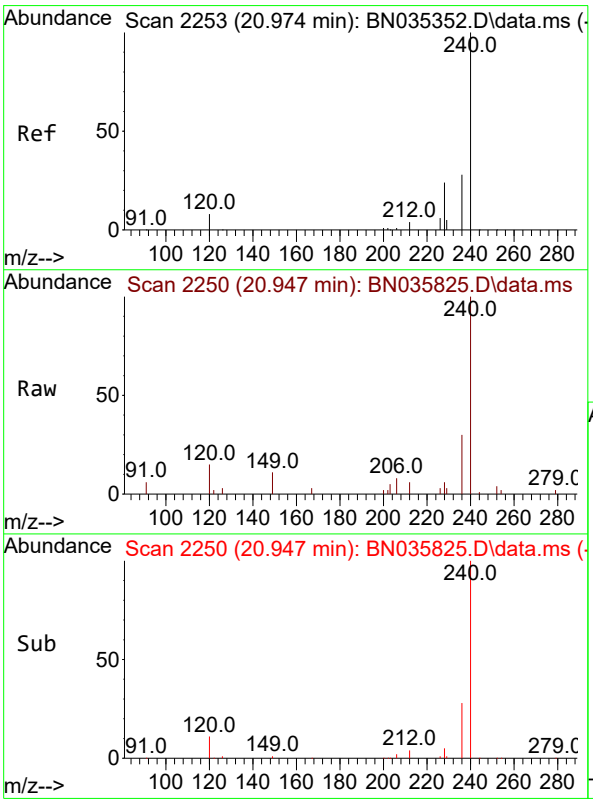
#28
Fluoranthene
Concen: 0.024 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:202 Resp: 792

Ion	Ratio	Lower	Upper
202	100		
101	11.1	7.4	11.0#
203	17.2	13.7	20.5

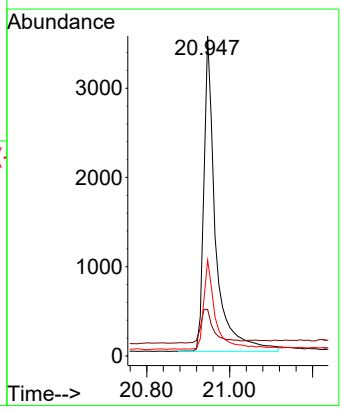


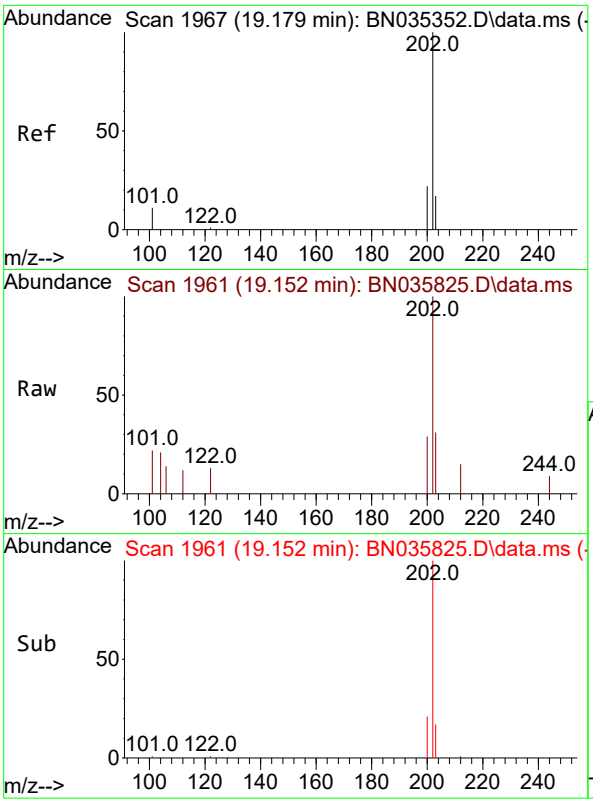


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:240 Resp: 6943

Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9#
236	29.9	22.9	34.3



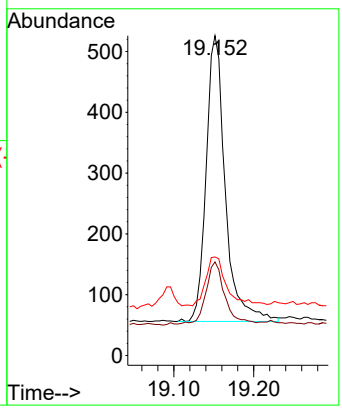


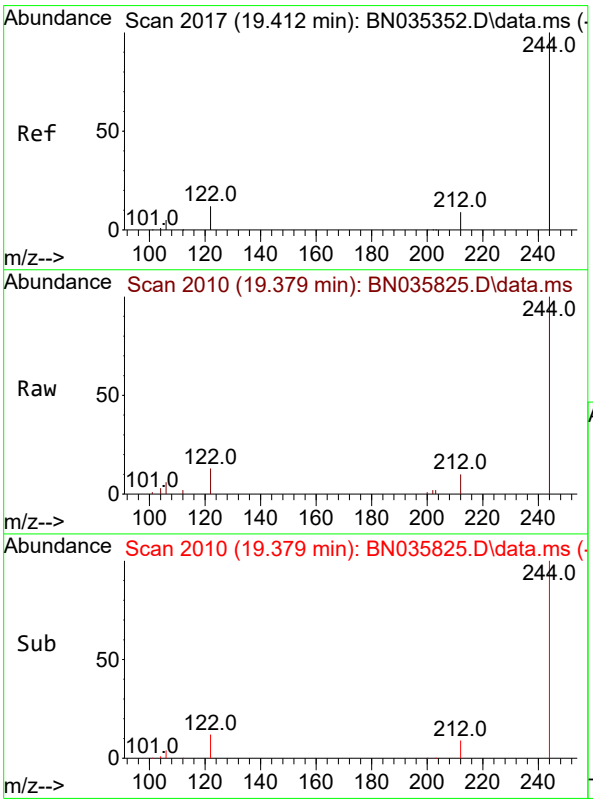
#30
Pyrene
Concen: 0.030 ng
RT: 19.152 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:202 Resp: 780

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	18.5	14.3	21.5

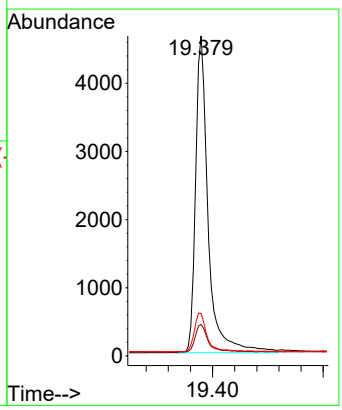


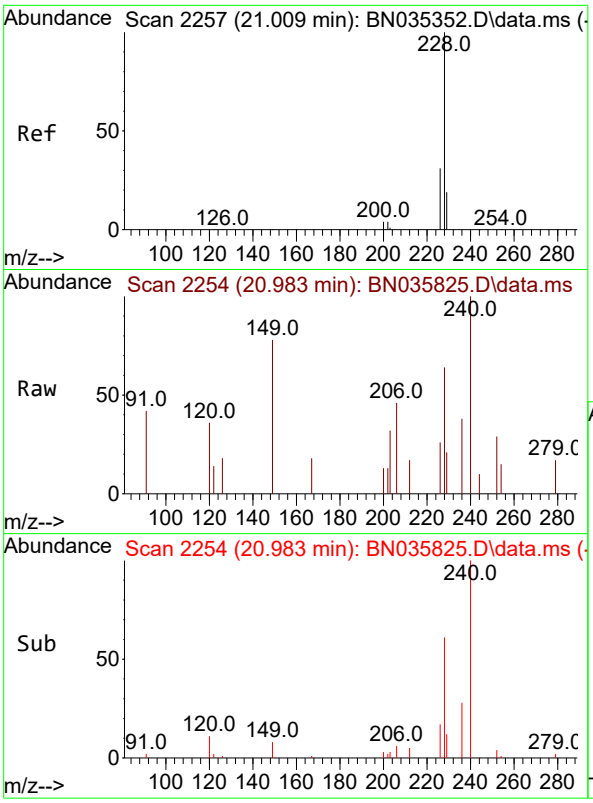


#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:244 Resp: 7353

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.3	10.3	15.5



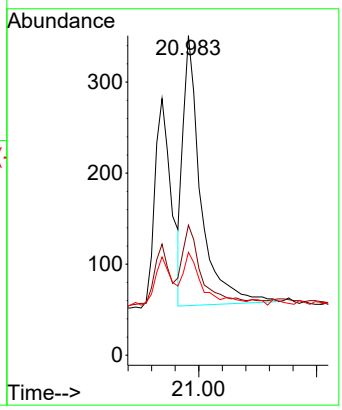


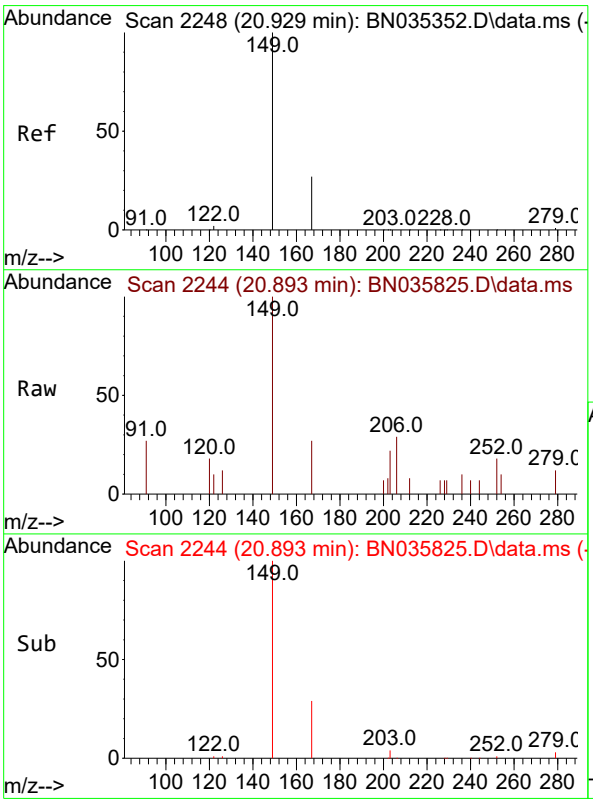
#33
Chrysene
Concen: 0.025 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:228 Resp: 620

Ion	Ratio	Lower	Upper
228	100		
226	40.7	24.6	37.0#
229	32.2	15.9	23.9#

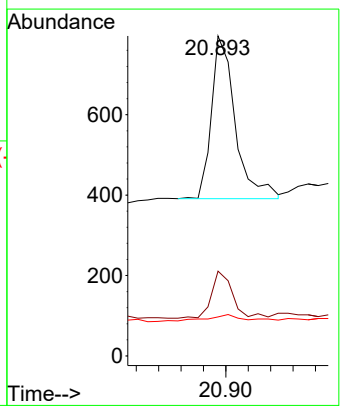


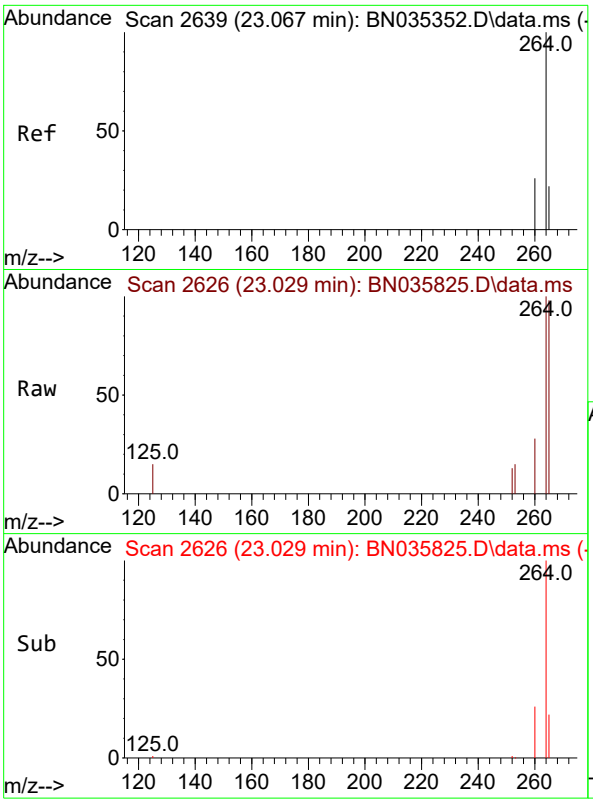


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.062 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:149 Resp: 598

Ion	Ratio	Lower	Upper
149	100		
167	25.4	22.2	33.4
279	5.5	2.7	4.1#



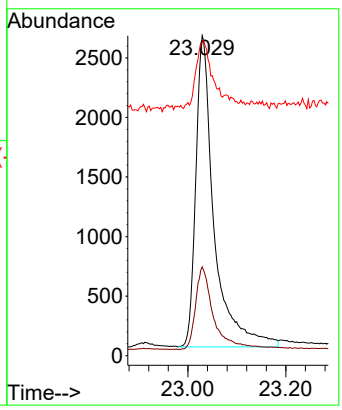


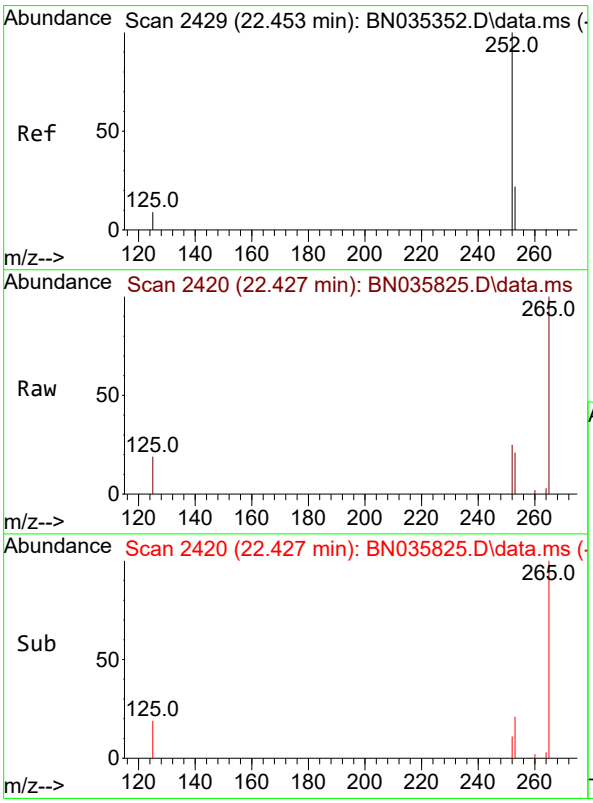
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20241218

Tgt Ion:264 Resp: 6791

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.4	32.2
265	97.8	40.2	60.4#

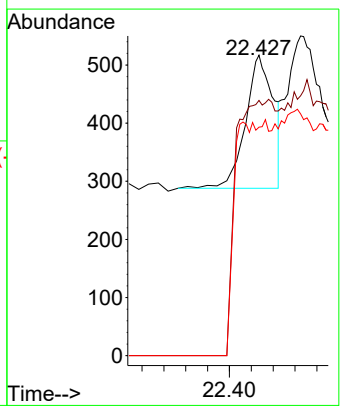




#37
Benzo(b)fluoranthene
Concen: 0.025 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.003 min
Lab File: BN035825.D
Acq: 24 Dec 2024 17:18

Tgt Ion:252 Resp: 629

Ion	Ratio	Lower	Upper
252	100		
253	84.9	19.6	29.4#
125	76.0	9.6	14.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035826.D
Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Quant Time: Dec 24 23:20:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

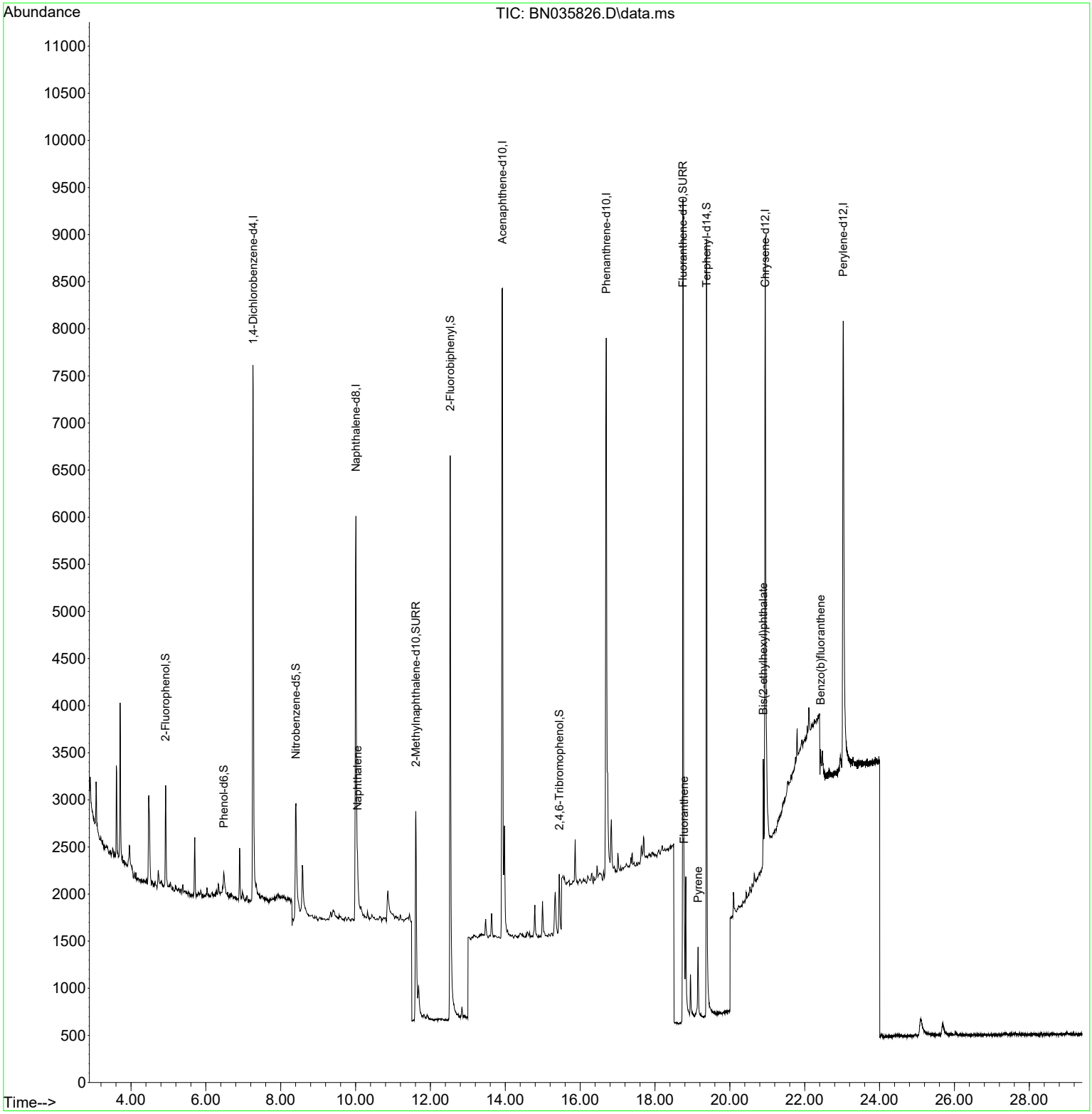
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3378	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7925	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4973	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10383	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8532	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	8295	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	971	0.115	ng	-0.01
5) Phenol-d6	6.477	99	466	0.046	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2915	0.602	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4563	0.368	ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	723	0.205	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7227	0.384	ng	-0.02
27) Fluoranthene-d10	18.747	212	12295	0.418	ng	-0.01
31) Terphenyl-d14	19.379	244	9489	0.564	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.052	128	457	0.022	ng	# 56
28) Fluoranthene	18.780	202	782	0.020	ng	# 95
30) Pyrene	19.151	202	811	0.026	ng	98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1313	0.111	ng	93
37) Benzo(b)fluoranthene	22.424	252	720	0.024	ng	# 1

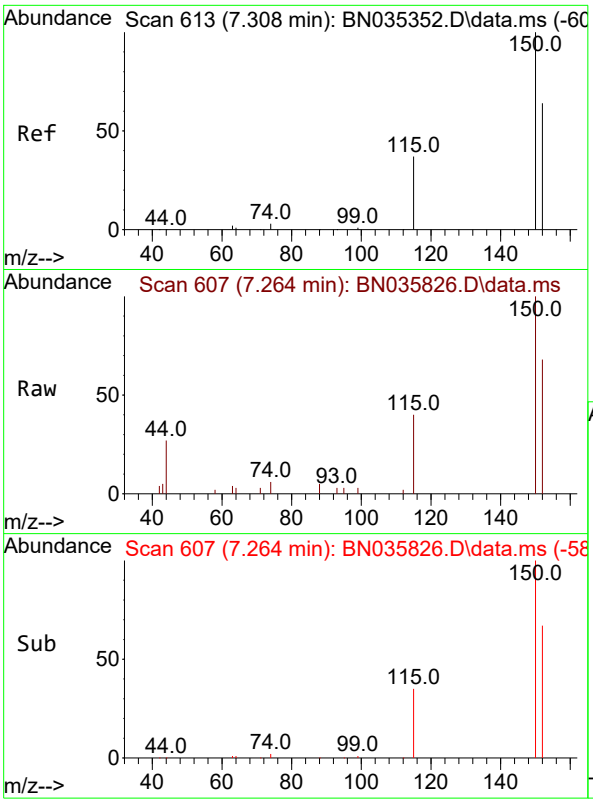
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035826.D
Acq On : 24 Dec 2024 17:53
Operator : RC/JU
Sample : P5376-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Quant Time: Dec 24 23:20:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



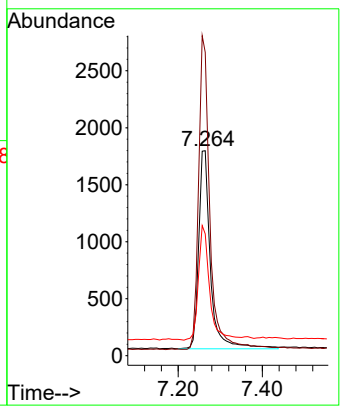


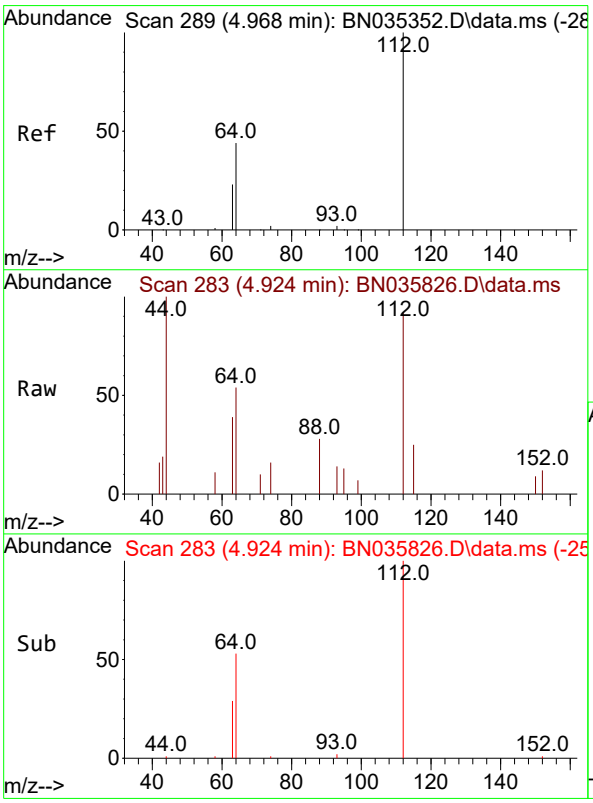
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion:152 Resp: 3378

Ion	Ratio	Lower	Upper
152	100		
150	148.1	124.0	186.0
115	59.4	49.6	74.4

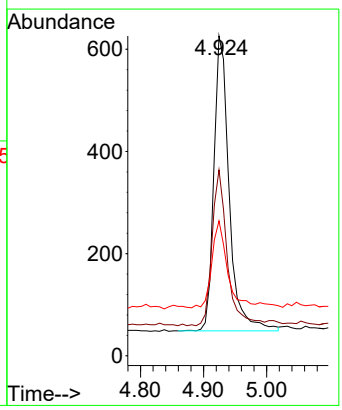


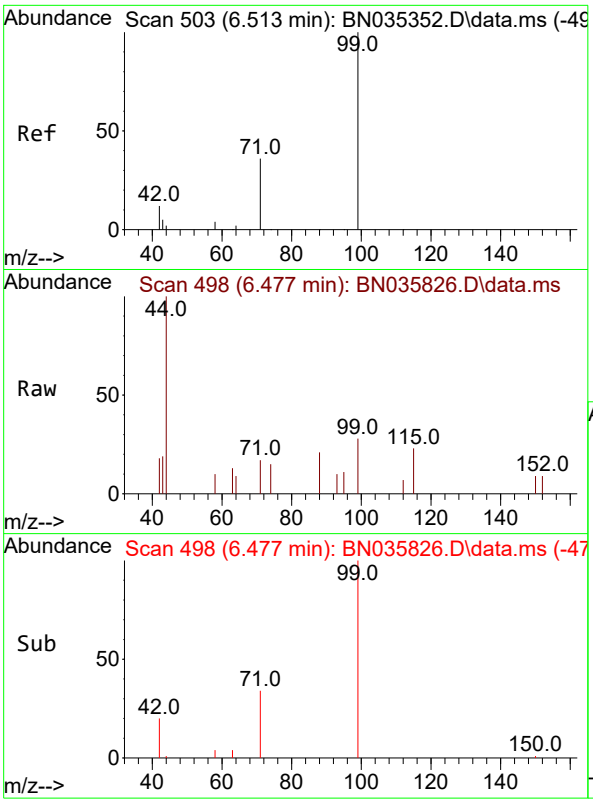


#4
2-Fluorophenol
Concen: 0.115 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:112 Resp: 971

Ion	Ratio	Lower	Upper
112	100		
64	52.3	39.8	59.8
63	29.4	21.0	31.6



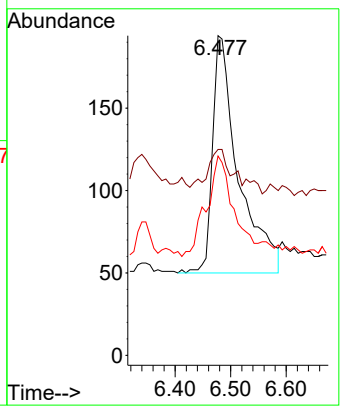


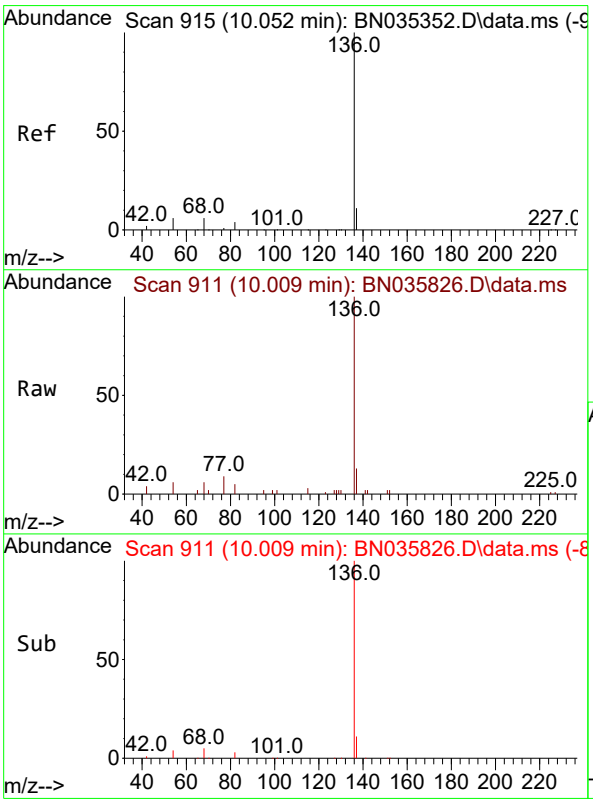
#5
Phenol-d6
Concen: 0.046 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion: 99 Resp: 466

Ion	Ratio	Lower	Upper
99	100		
42	20.2	11.4	17.2#
71	44.6	29.3	43.9#

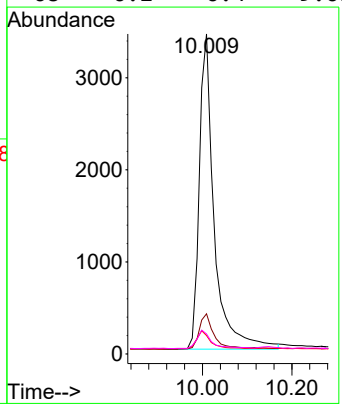


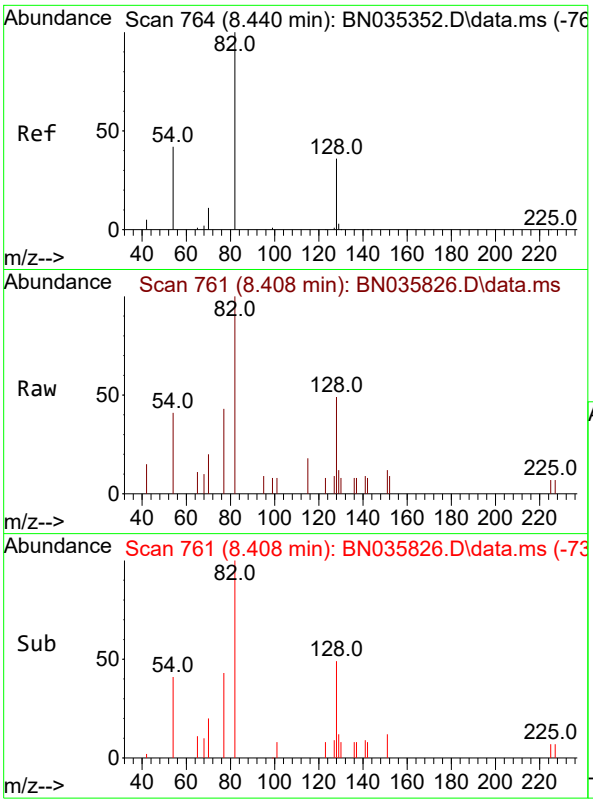


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:136 Resp: 7925

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	5.8	6.1	9.1#
68	6.2	6.4	9.6#



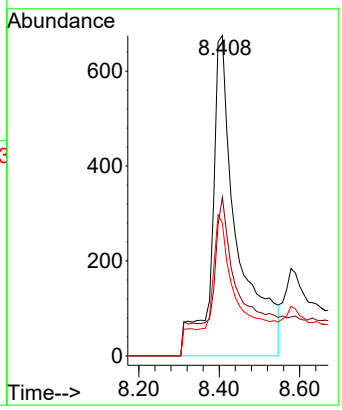


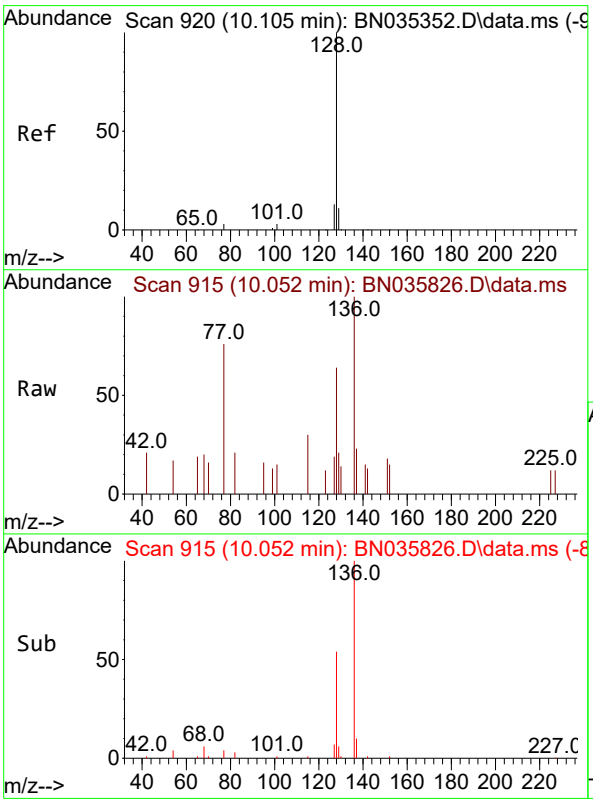
#8
Nitrobenzene-d5
Concen: 0.602 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion: 82 Resp: 2915

Ion	Ratio	Lower	Upper
82	100		
128	49.5	33.4	50.0
54	41.5	36.7	55.1

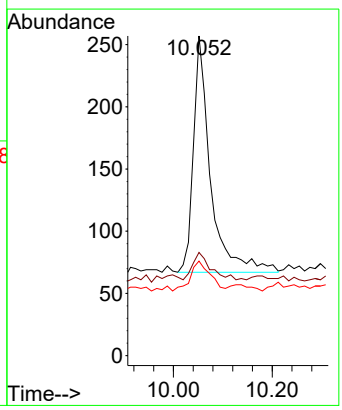


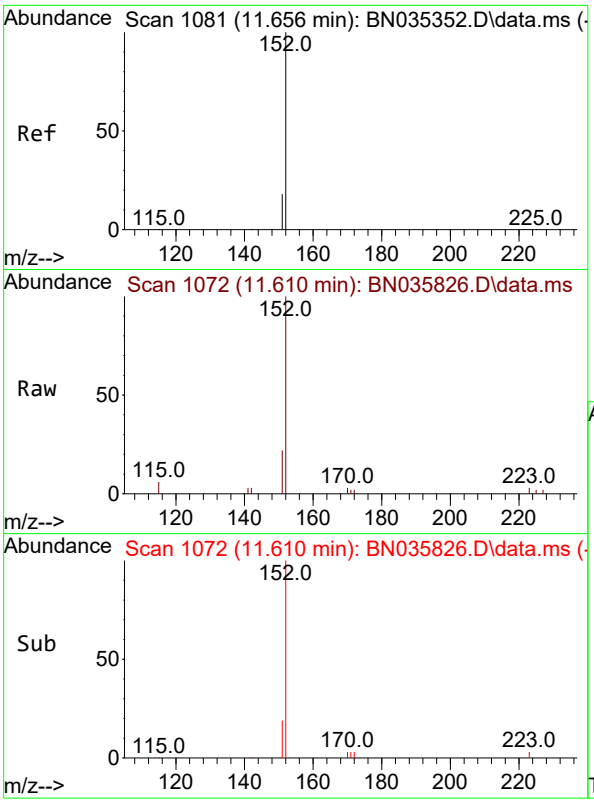


#9
Naphthalene
Concen: 0.022 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:128 Resp: 457

Ion	Ratio	Lower	Upper
128	100		
129	32.3	9.8	14.6#
127	29.6	11.4	17.2#



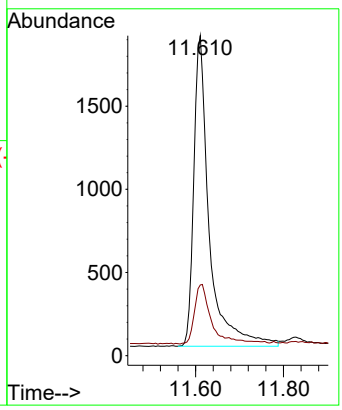


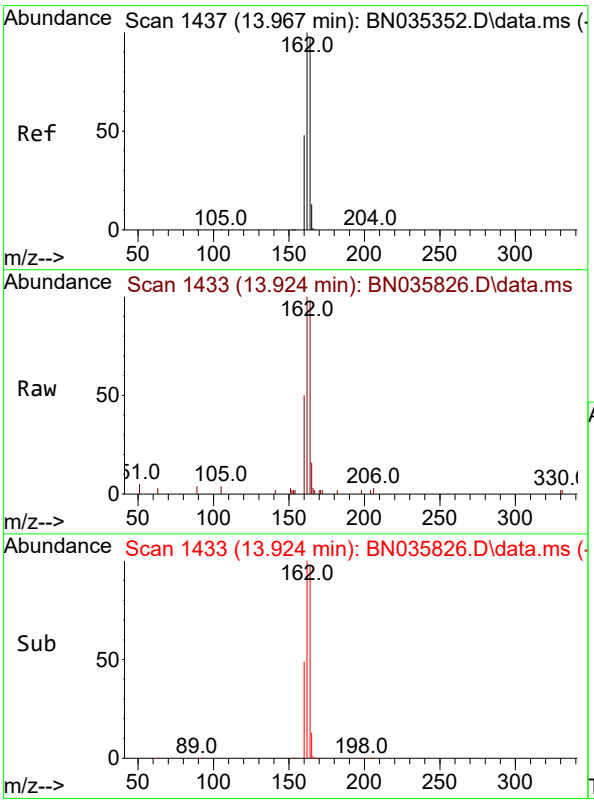
#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion:152 Resp: 4563

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0

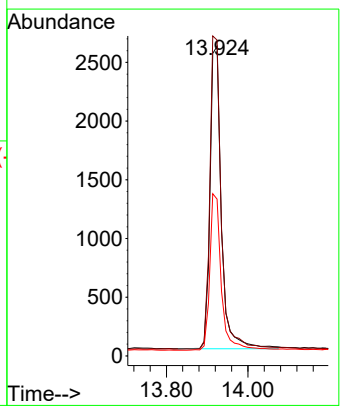


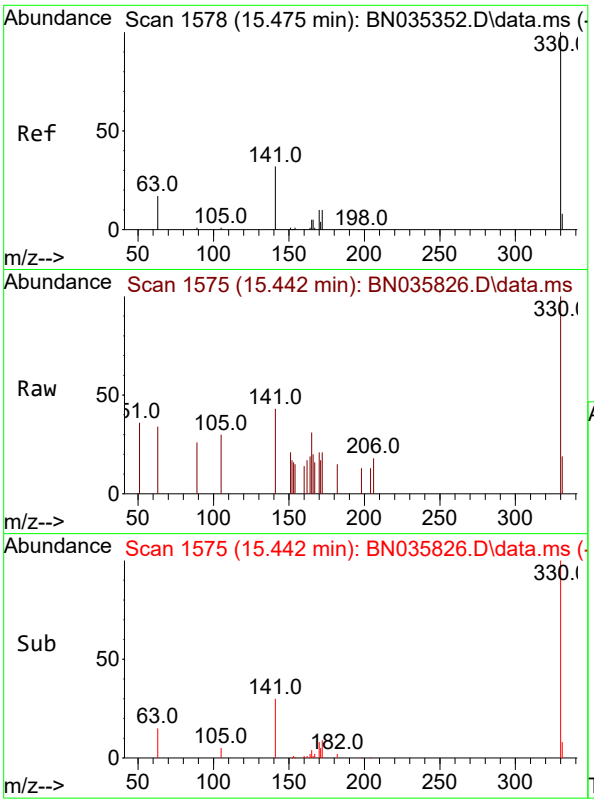


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:164 Resp: 4973

Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.2	123.2
160	50.6	40.1	60.1



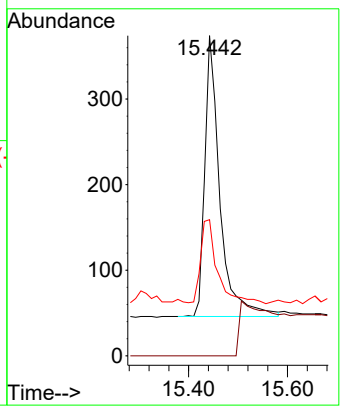


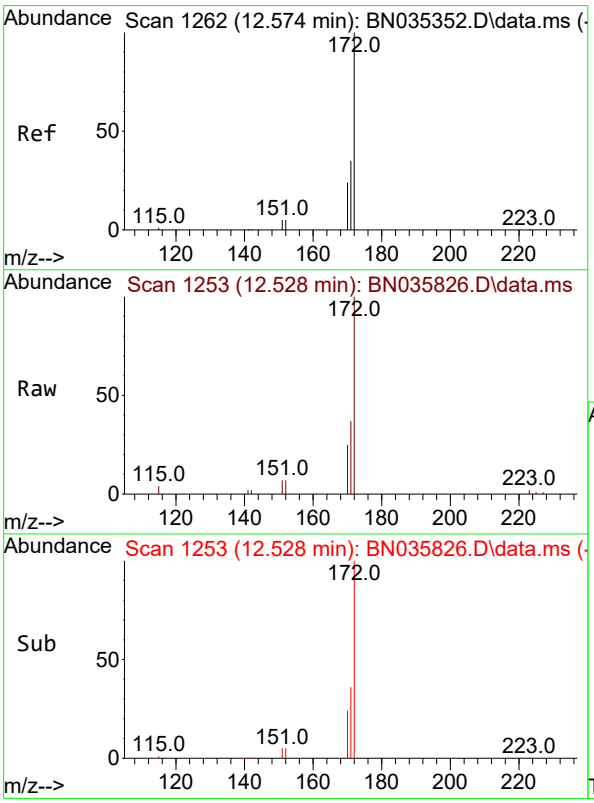
#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.442 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion:330 Resp: 723

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.2	26.6	40.0

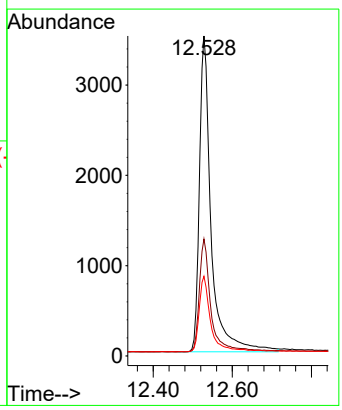


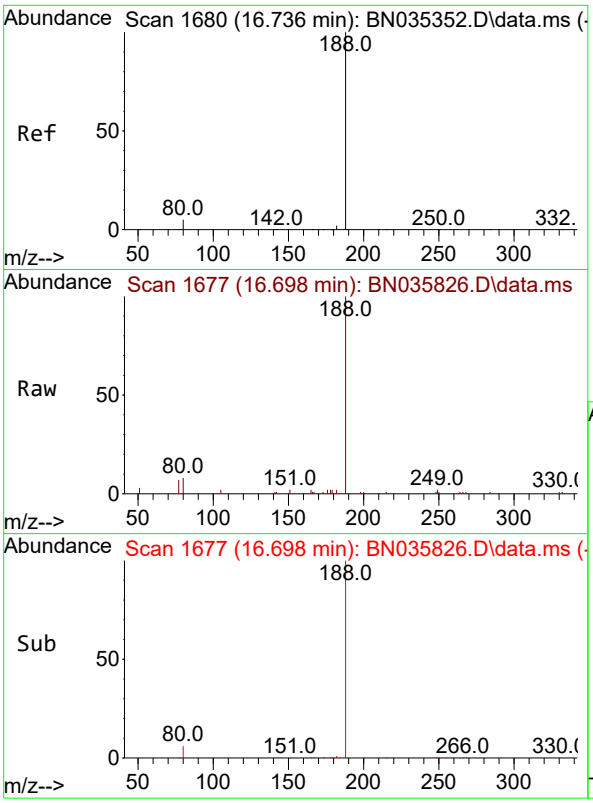


#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:172 Resp: 7227

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.0	43.4
170	24.9	19.8	29.8



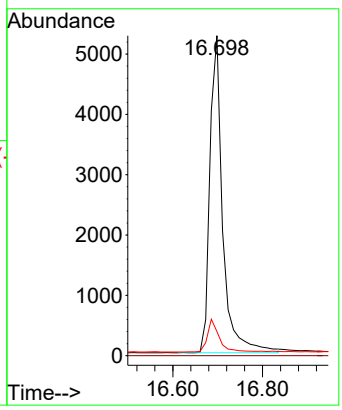


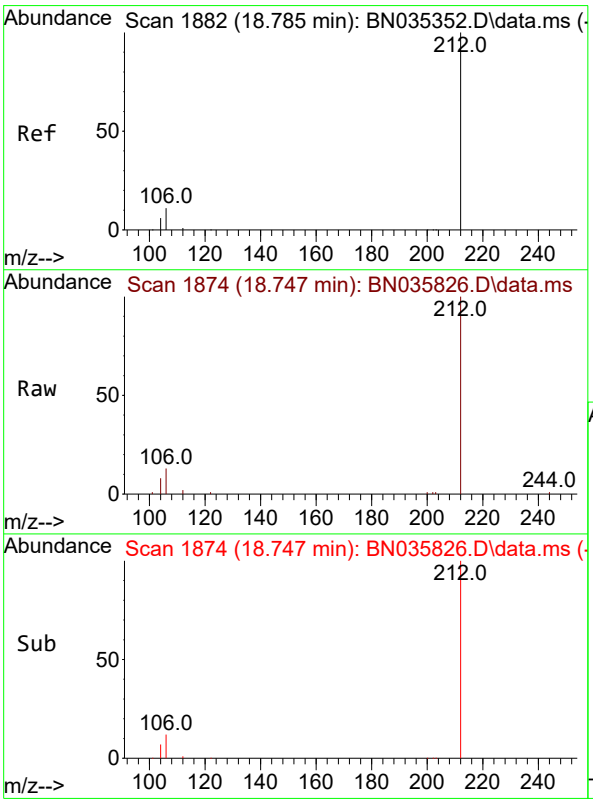
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion:188 Resp: 10383

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.6	4.6	6.8#

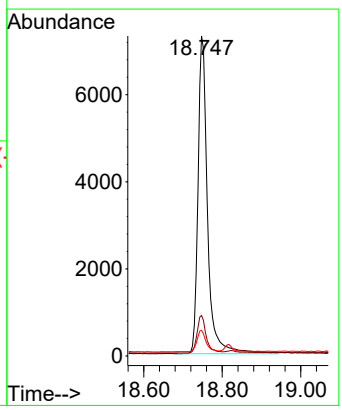


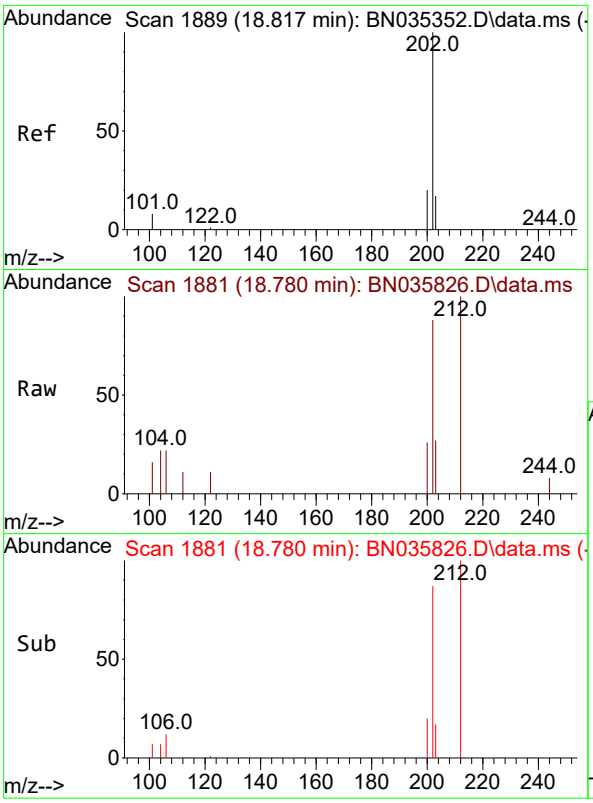


#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:212 Resp: 12295

Ion	Ratio	Lower	Upper
212	100		
106	11.2	9.2	13.8
104	6.3	5.3	7.9



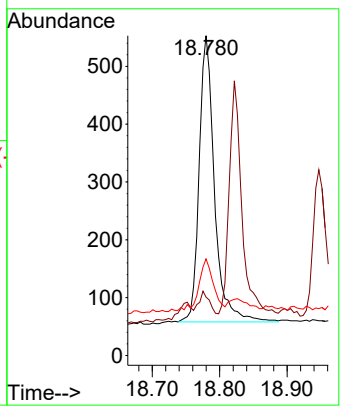


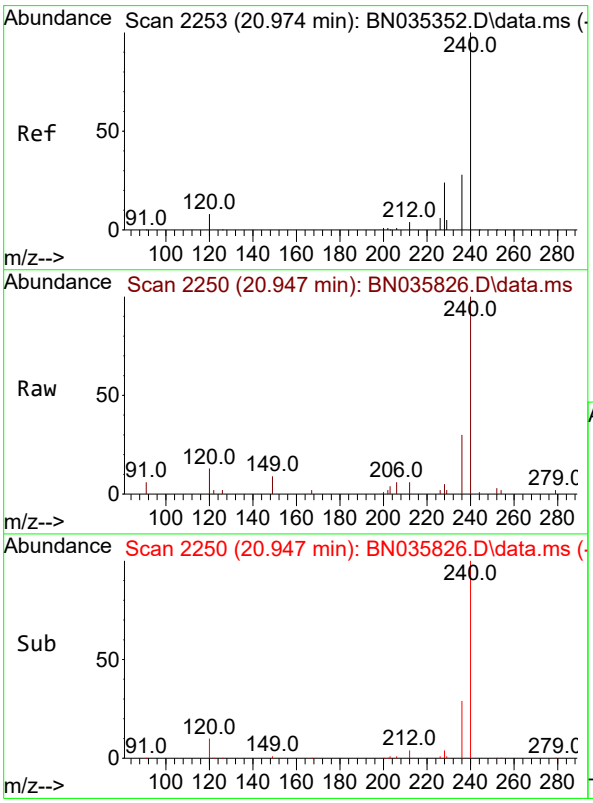
#28
Fluoranthene
Concen: 0.020 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion:202 Resp: 782

Ion	Ratio	Lower	Upper
202	100		
101	5.5	7.4	11.0#
203	18.2	13.7	20.5

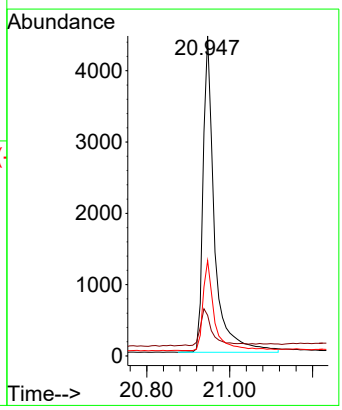


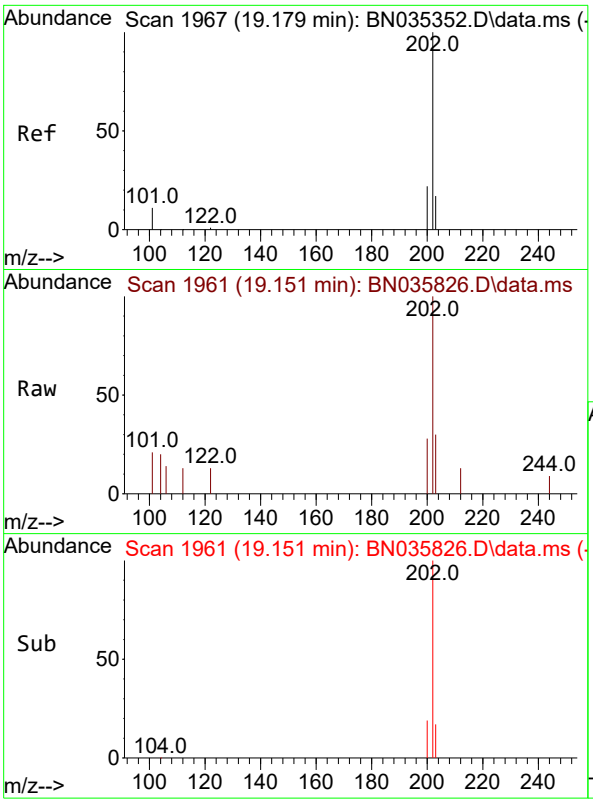


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:240 Resp: 8532

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9#
236	29.8	22.9	34.3



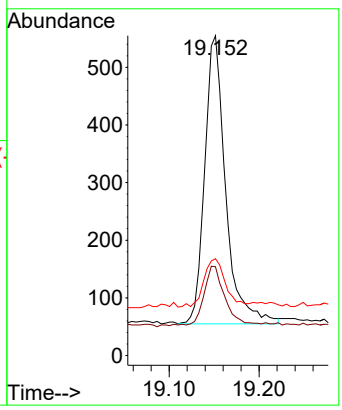


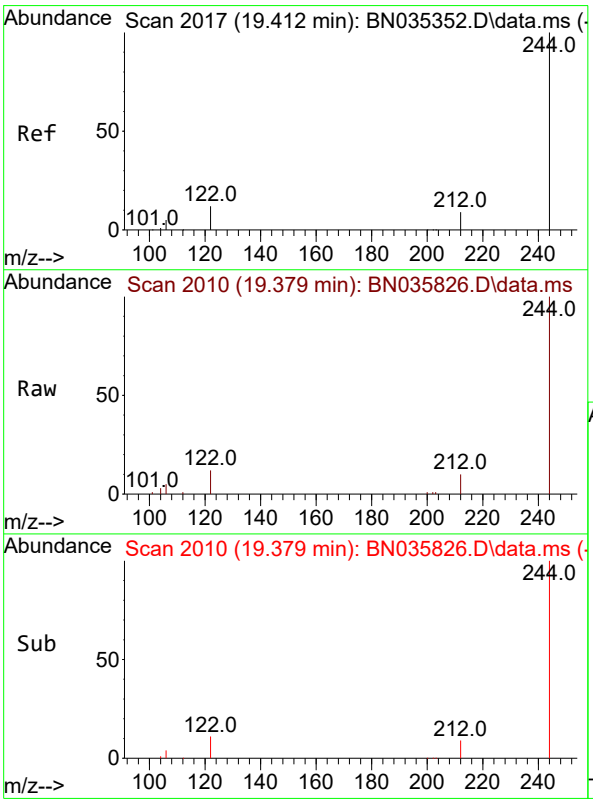
#30
Pyrene
Concen: 0.026 ng
RT: 19.151 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion:202 Resp: 811

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	16.8	14.3	21.5

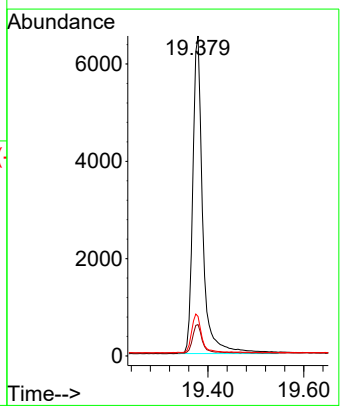


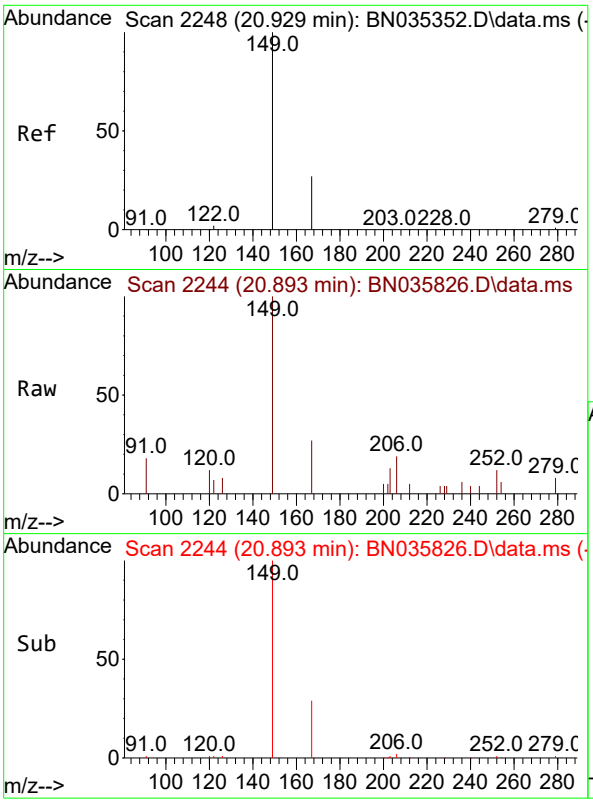


#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:244 Resp: 9489

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	12.3	10.3	15.5



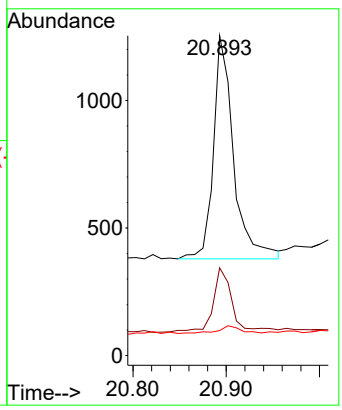


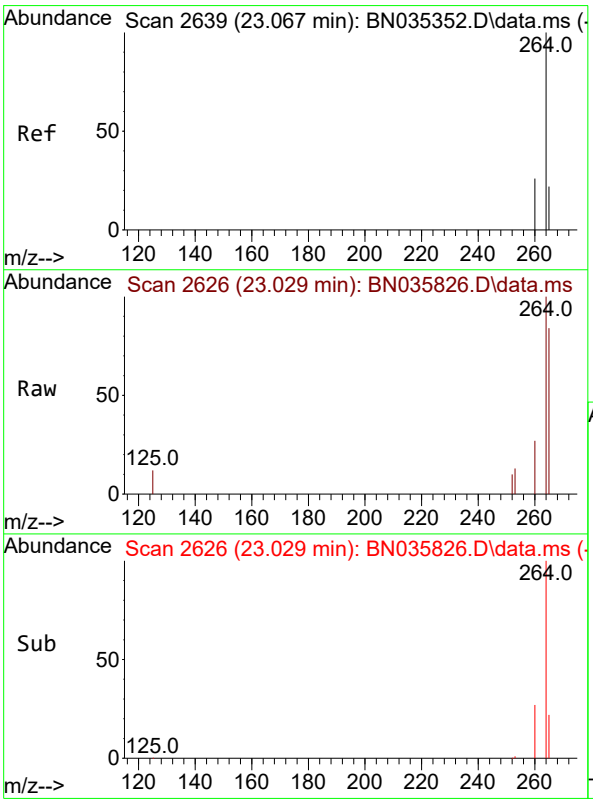
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion:149 Resp: 1313

Ion	Ratio	Lower	Upper
149	100		
167	23.5	22.2	33.4
279	3.8	2.7	4.1

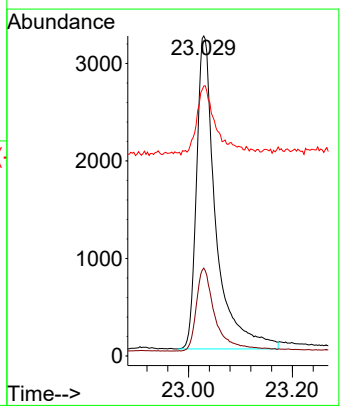


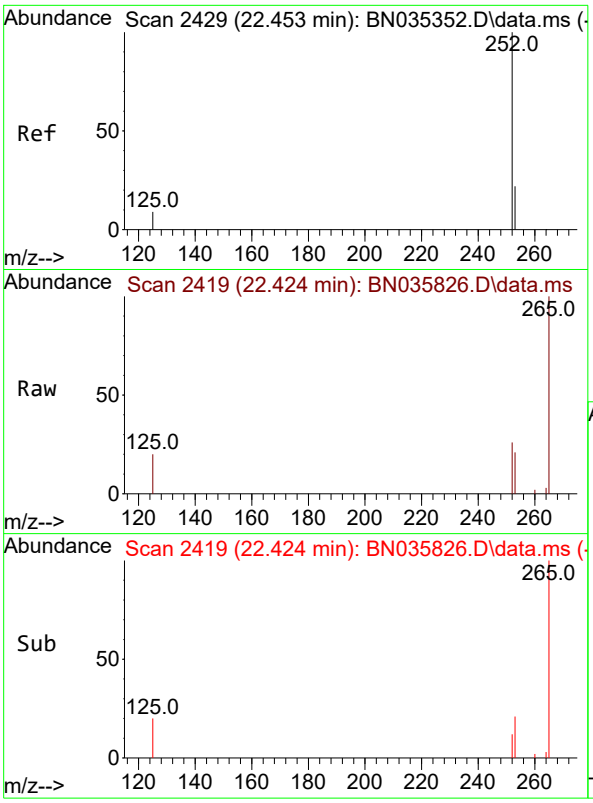


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Tgt Ion:264 Resp: 8295

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	84.4	40.2	60.4#



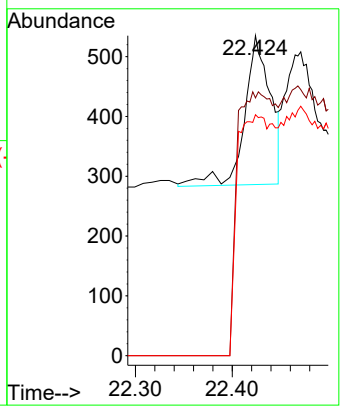


#37
Benzo(b)fluoranthene
Concen: 0.024 ng
RT: 22.424 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035826.D
Acq: 24 Dec 2024 17:53

Instrument :
BNA_N
ClientSampleId :
RE117D2-20241218

Tgt Ion:252 Resp: 720

Ion	Ratio	Lower	Upper
252	100		
253	80.6	19.6	29.4#
125	75.3	9.6	14.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Quant Time: Dec 24 23:20:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

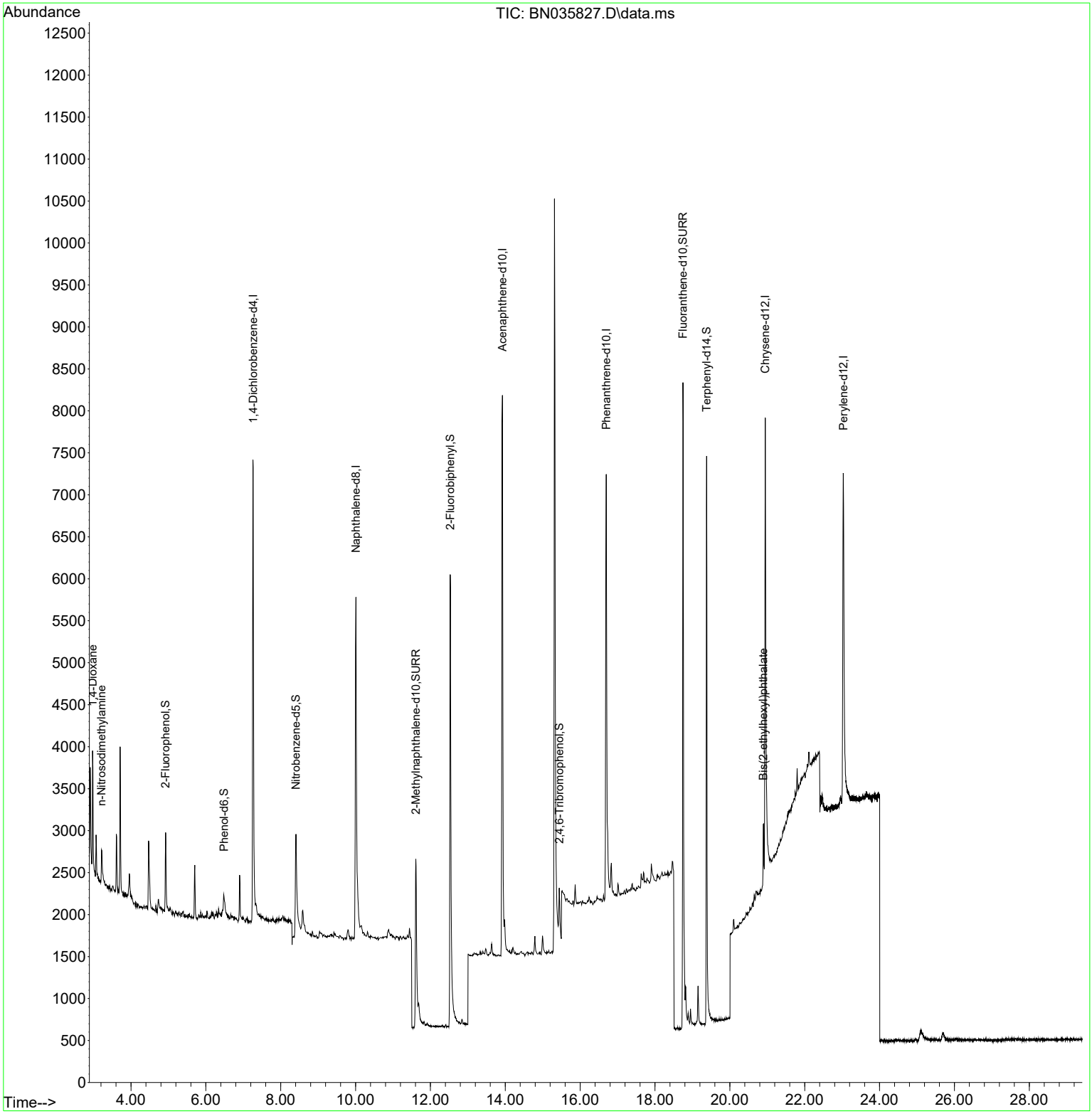
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3265	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7883	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	4842	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9395	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7091	0.400	ng	# 0.00
35) Perylene-d12	23.032	264	6735	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	907	0.111	ng	-0.01
5) Phenol-d6	6.484	99	487	0.050	ng	0.00
8) Nitrobenzene-d5	8.408	82	2197	0.456	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	4487	0.364	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	681	0.198	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7221	0.395	ng	-0.02
27) Fluoranthene-d10	18.747	212	10577	0.397	ng	-0.01
31) Terphenyl-d14	19.379	244	7825	0.559	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1019	0.326	ng	# 95
3) n-Nitrosodimethylamine	3.213	42	132	0.051	ng	# 1
34) Bis(2-ethylhexyl)phtha...	20.893	149	896	0.091	ng	# 98

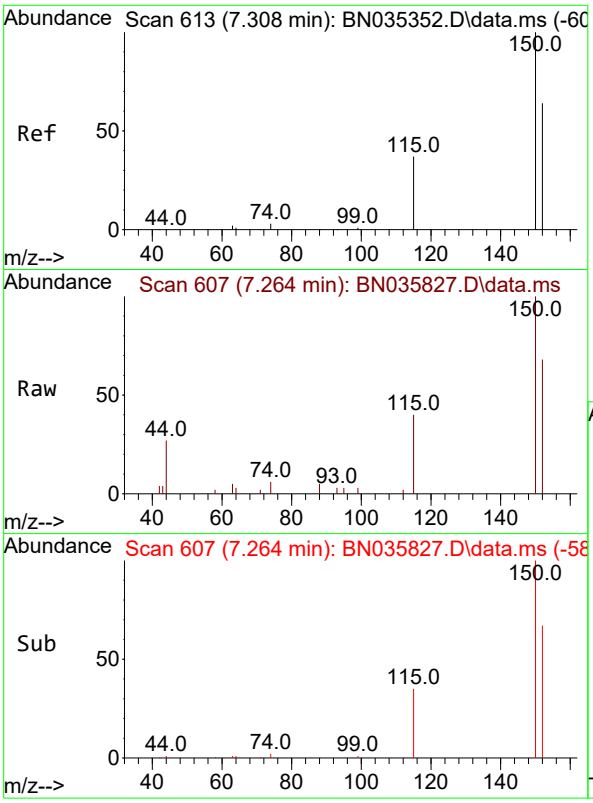
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035827.D
Acq On : 24 Dec 2024 18:29
Operator : RC/JU
Sample : P5376-14
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Quant Time: Dec 24 23:20:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



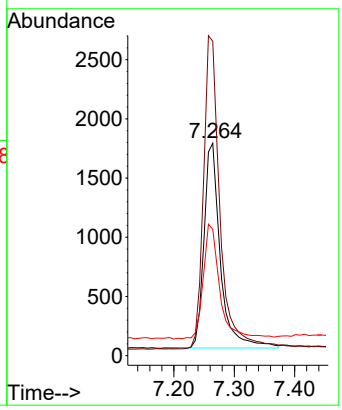


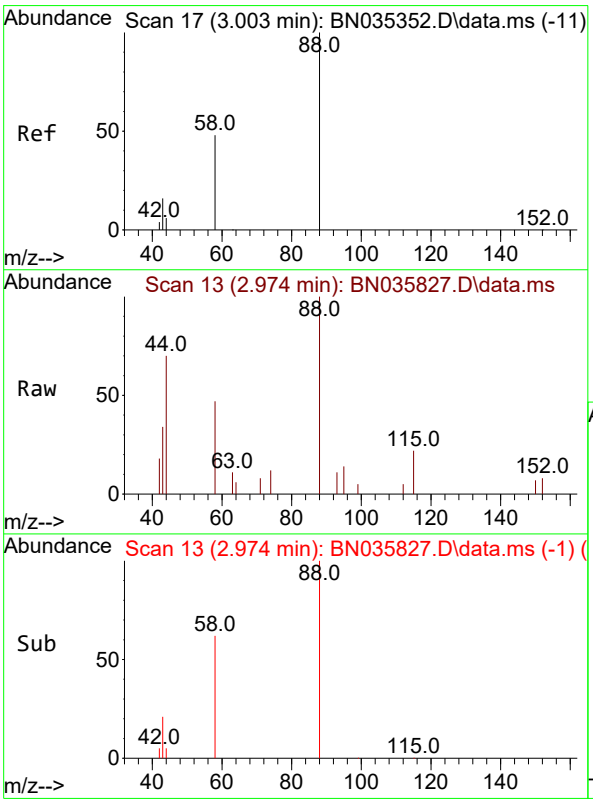
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion:152 Resp: 3265

Ion	Ratio	Lower	Upper
152	100		
150	148.0	124.0	186.0
115	59.5	49.6	74.4

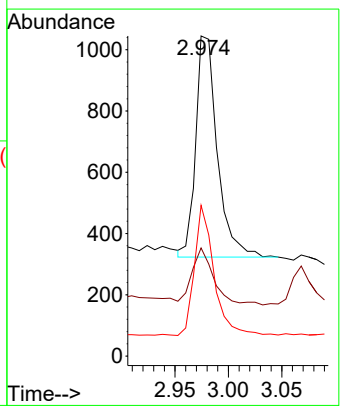


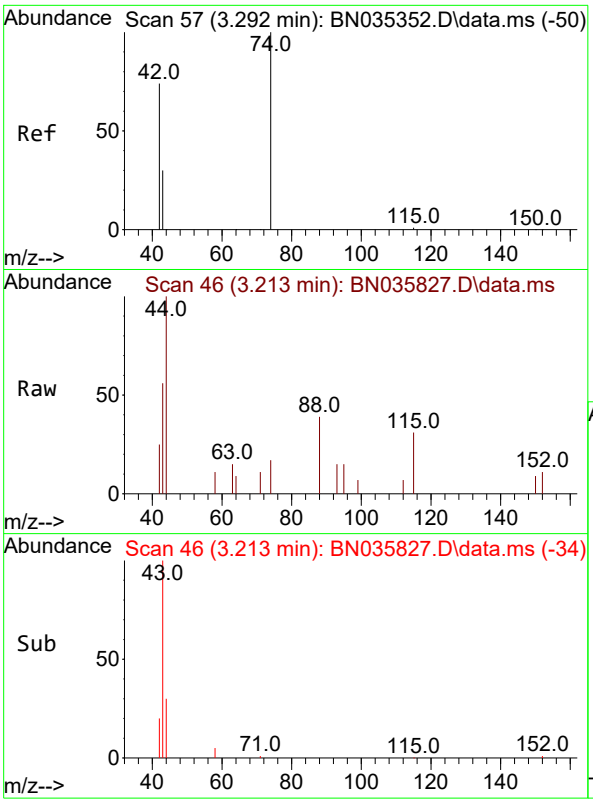


#2
1,4-Dioxane
Concen: 0.326 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion: 88 Resp: 1019

Ion	Ratio	Lower	Upper
88	100		
43	26.0	17.2	25.8#
58	53.1	44.5	66.7



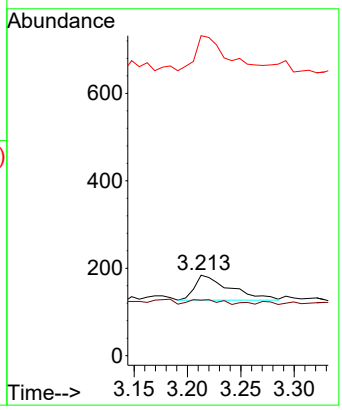


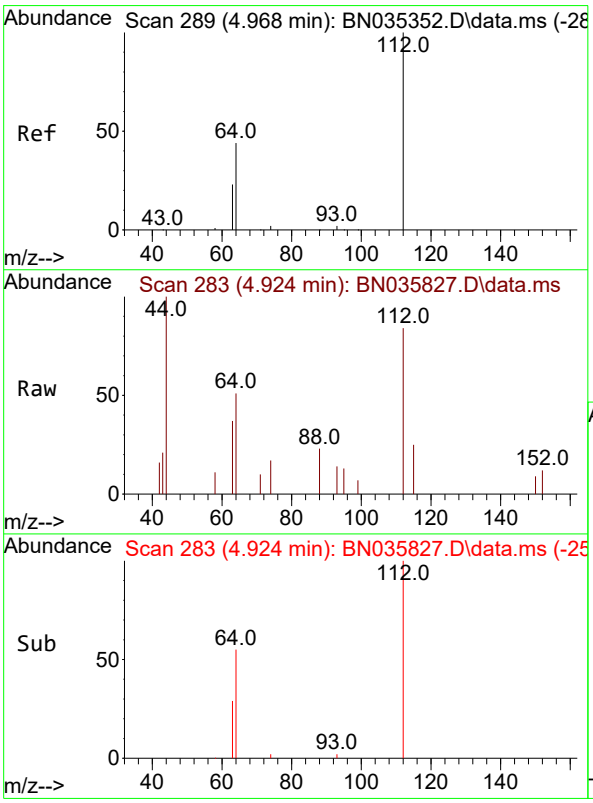
#3
n-Nitrosodimethylamine
Concen: 0.051 ng
RT: 3.213 min Scan# 4
Delta R.T. -0.065 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion: 42 Resp: 132

Ion	Ratio	Lower	Upper
42	100		
74	15.2	124.9	187.3#
44	120.5	2.2	3.4#

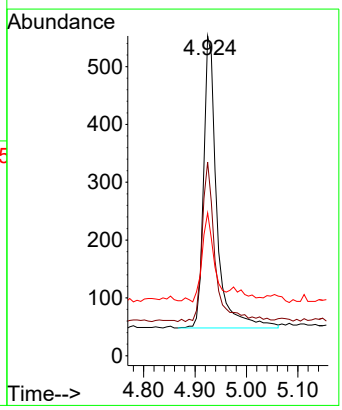


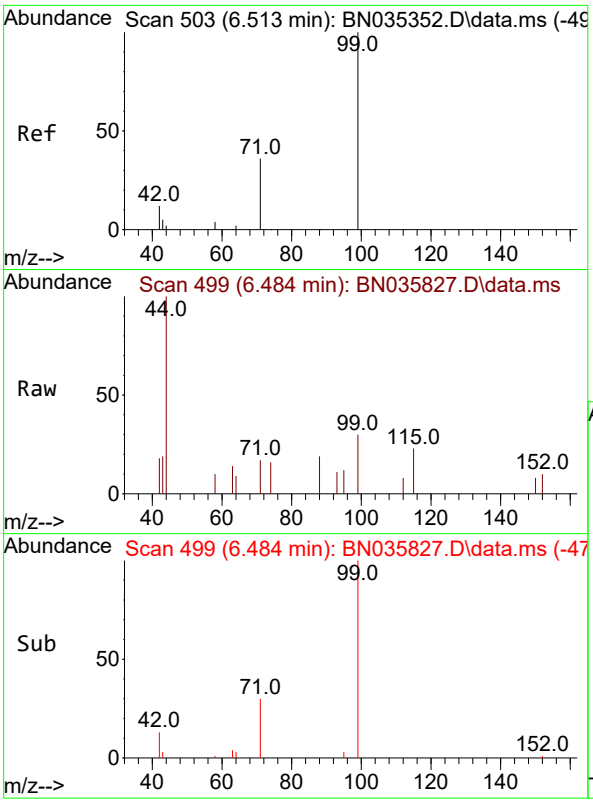


#4
2-Fluorophenol
Concen: 0.111 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:112 Resp: 907

Ion	Ratio	Lower	Upper
112	100		
64	53.8	39.8	59.8
63	26.7	21.0	31.6



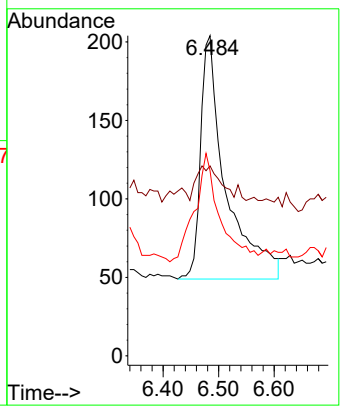


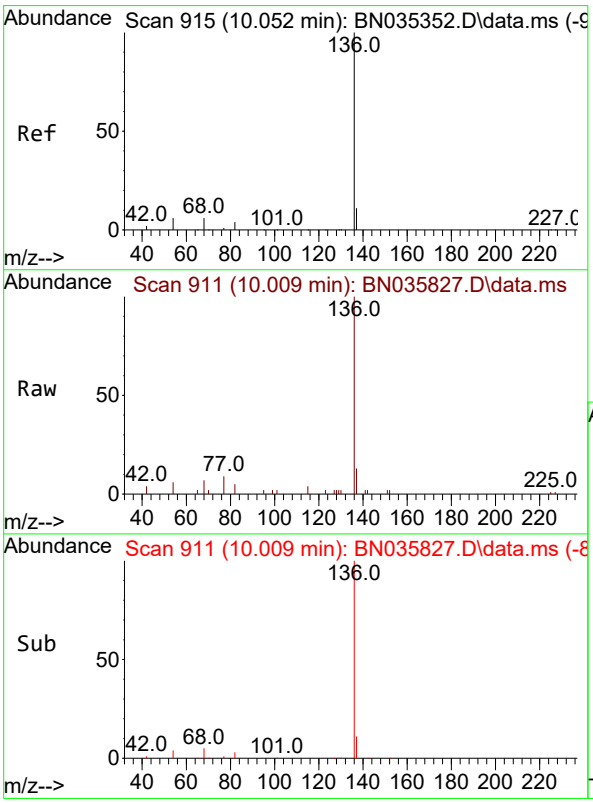
#5
Phenol-d6
Concen: 0.050 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion: 99 Resp: 487

Ion	Ratio	Lower	Upper
99	100		
42	13.3	11.4	17.2
71	44.6	29.3	43.9#

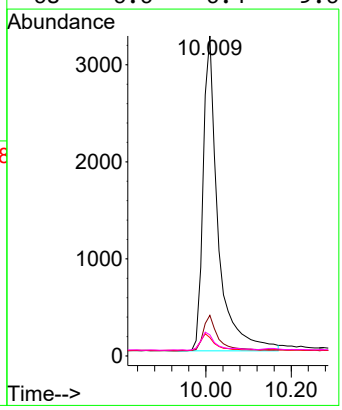


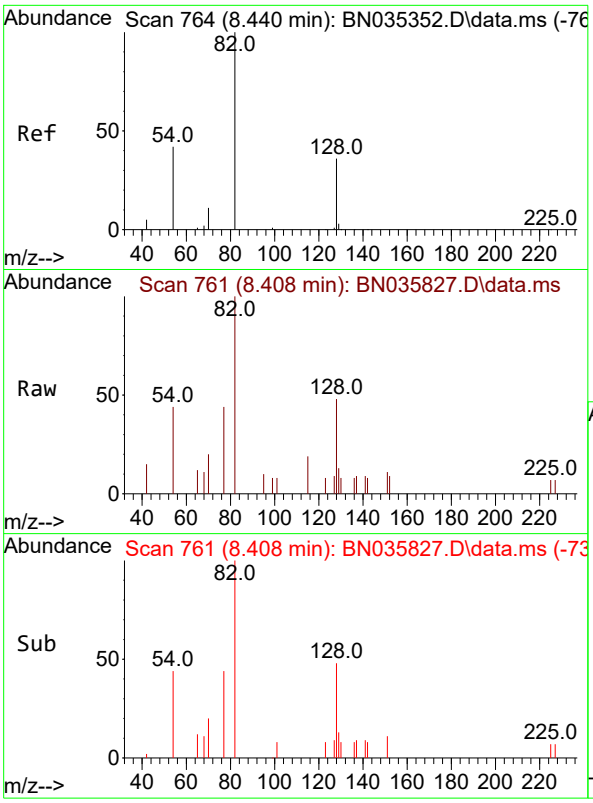


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:136 Resp: 7883

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	5.7	6.1	9.1#
68	6.6	6.4	9.6



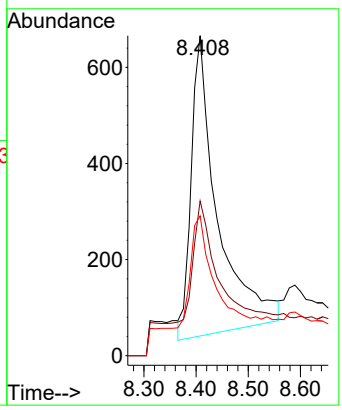


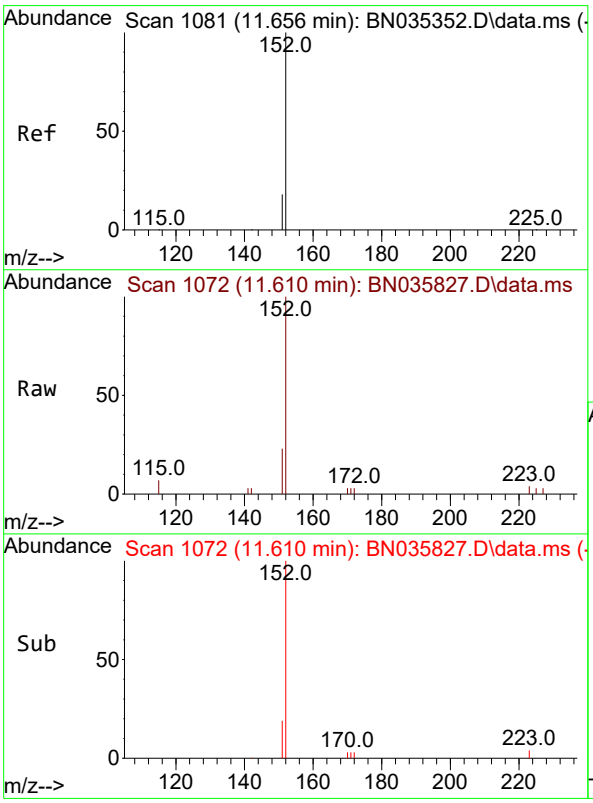
#8
Nitrobenzene-d5
Concen: 0.456 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion: 82 Resp: 2197

Ion	Ratio	Lower	Upper
82	100		
128	48.3	33.4	50.0
54	43.7	36.7	55.1

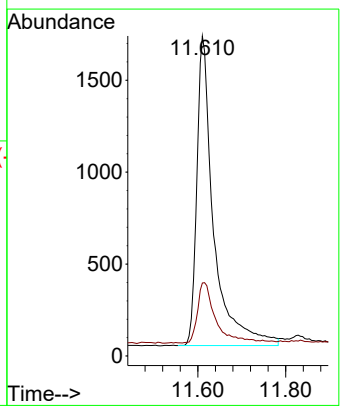


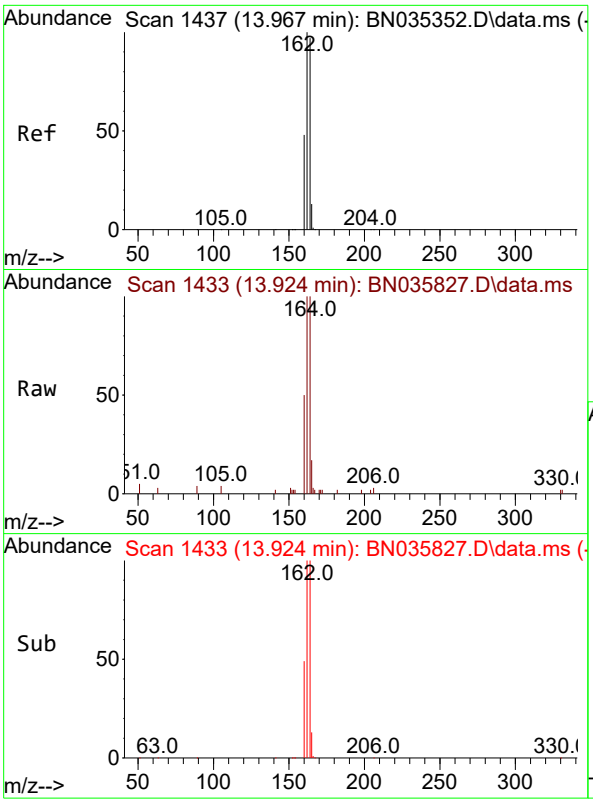


#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:152 Resp: 4487

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0



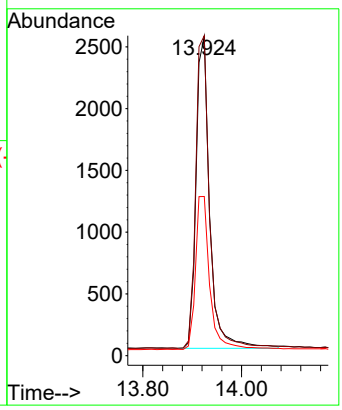


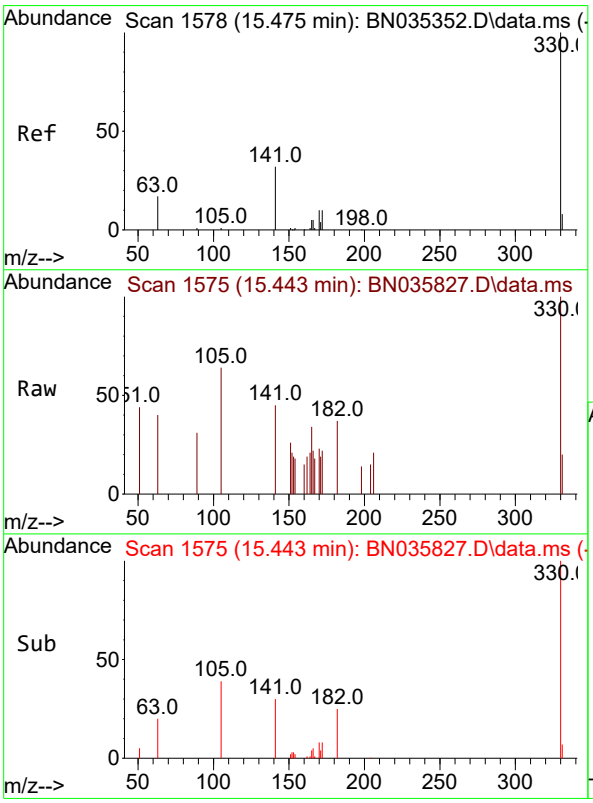
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion:164 Resp: 4842

Ion	Ratio	Lower	Upper
164	100		
162	100.3	82.2	123.2
160	49.9	40.1	60.1

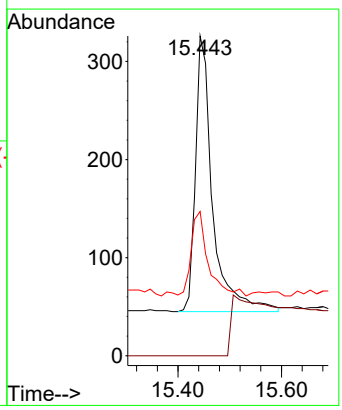


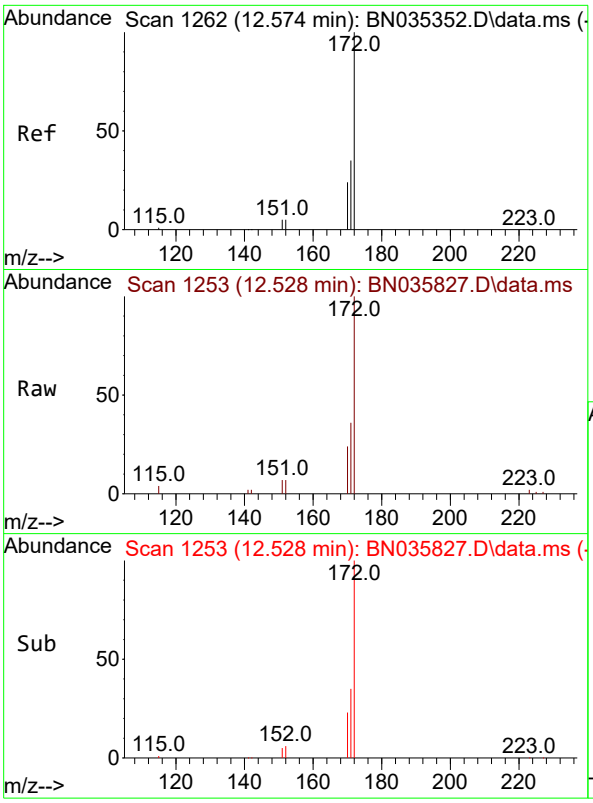


#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:330 Resp: 681

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.8	26.6	40.0



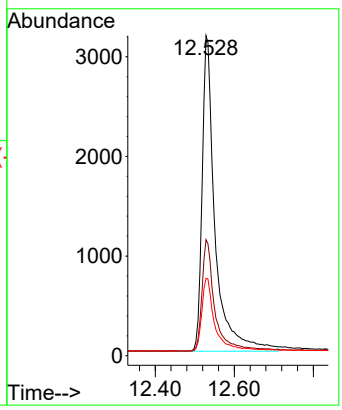


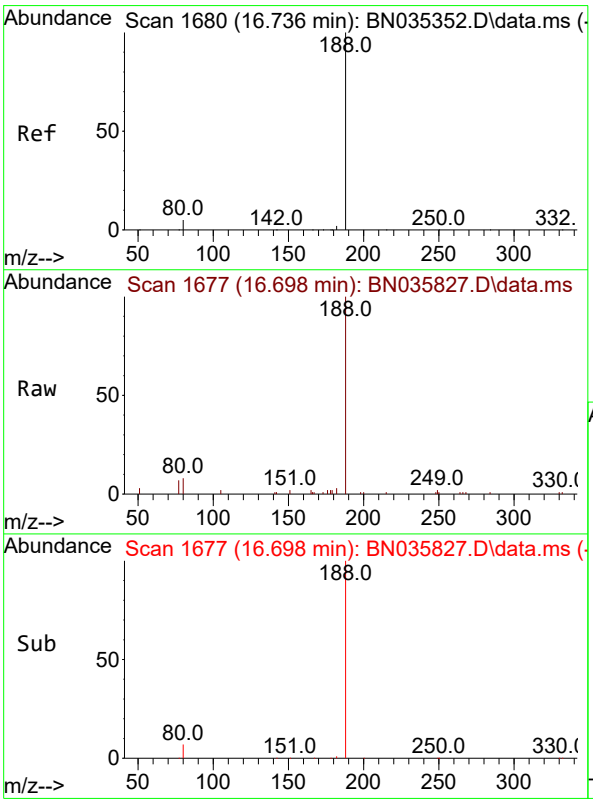
#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion:172 Resp: 7221

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.2	19.8	29.8

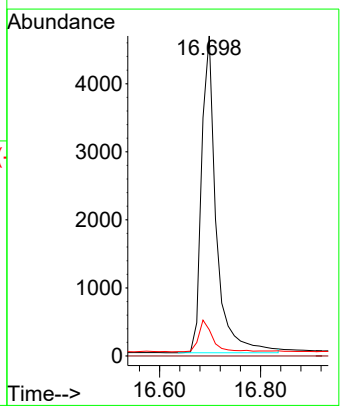


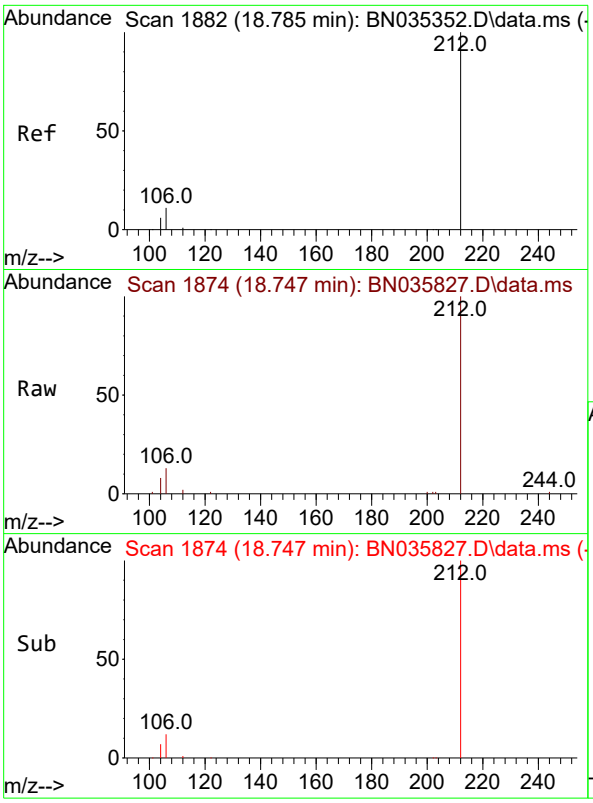


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:188 Resp: 9395

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.2	4.6	6.8#



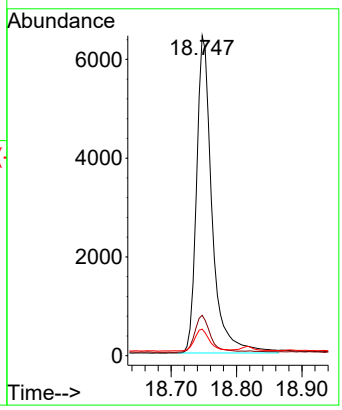


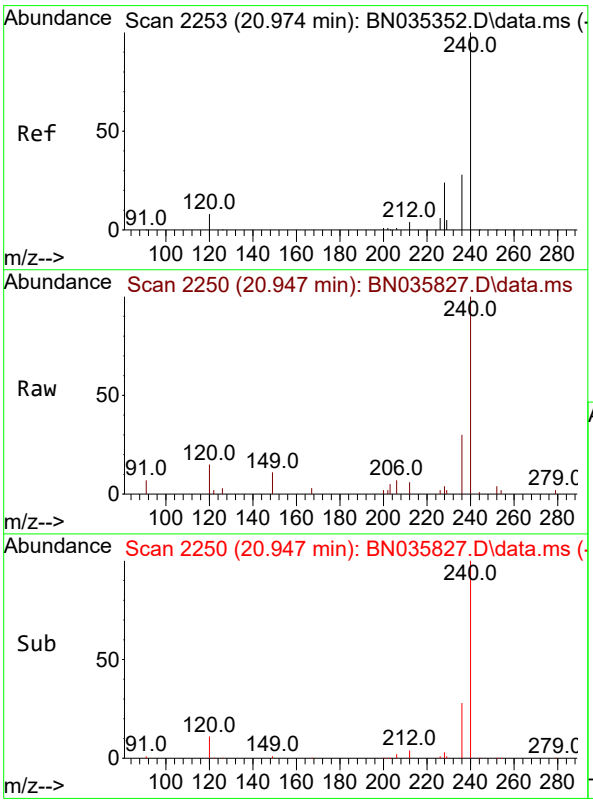
#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion:212 Resp: 10577

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	6.7	5.3	7.9

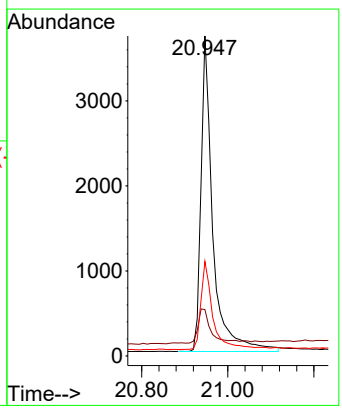


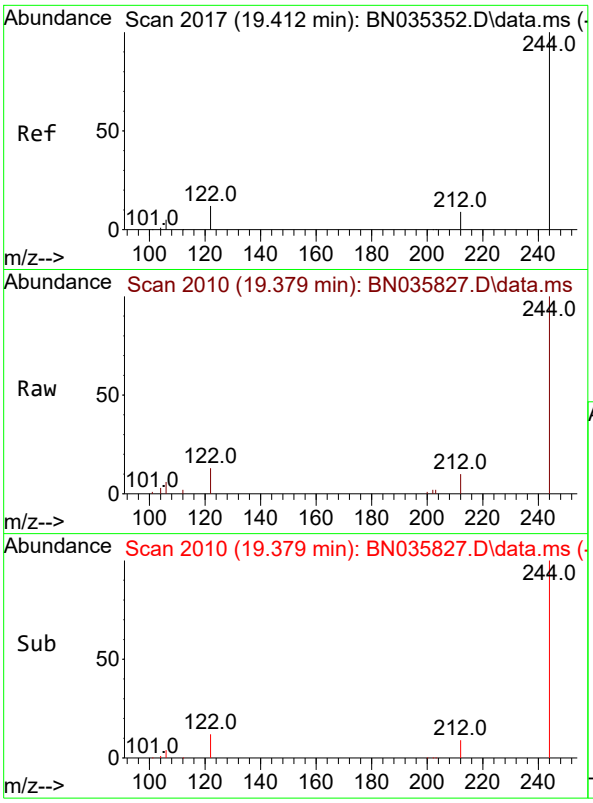


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:240 Resp: 7091

Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9#
236	29.6	22.9	34.3



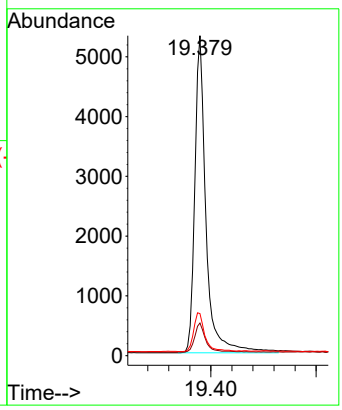


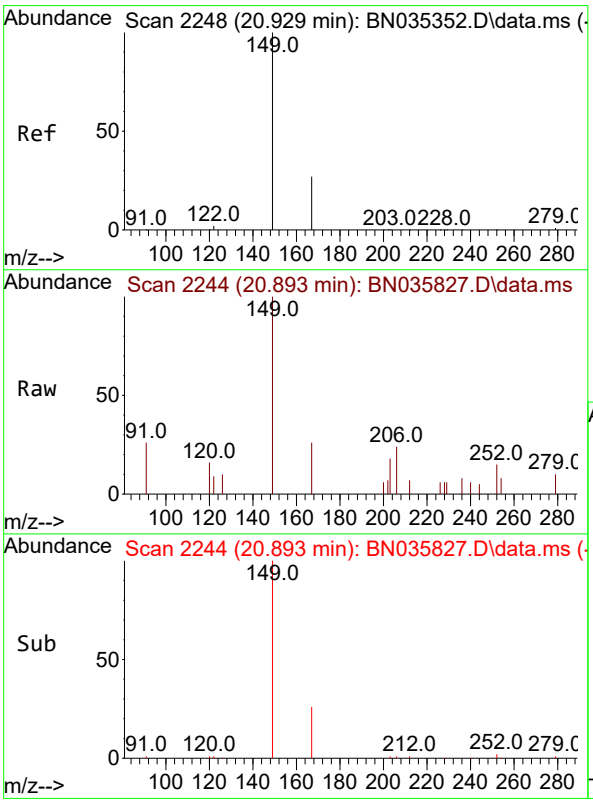
#31
Terphenyl-d14
Concen: 0.559 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion:244 Resp: 7825

Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	13.1	10.3	15.5

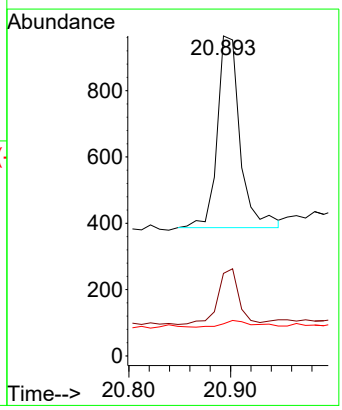


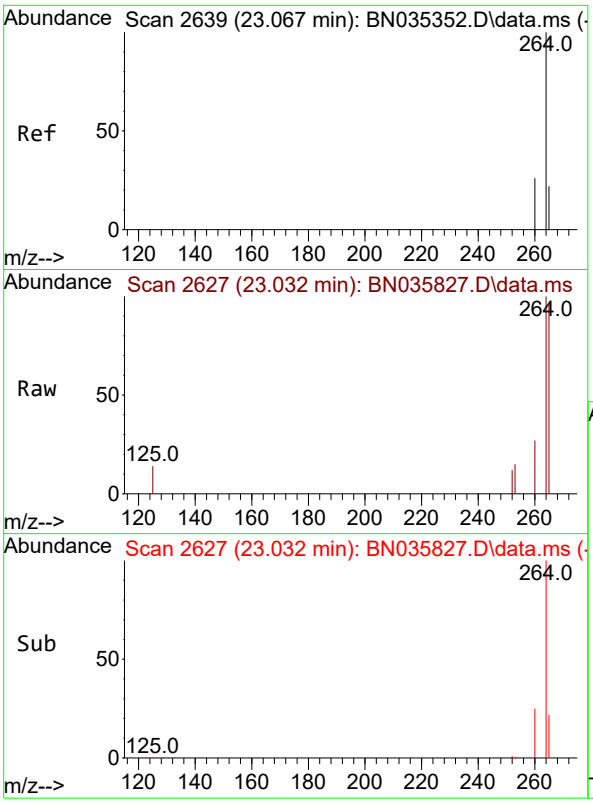


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Tgt Ion:149 Resp: 896

Ion	Ratio	Lower	Upper
149	100		
167	26.8	22.2	33.4
279	4.6	2.7	4.1#



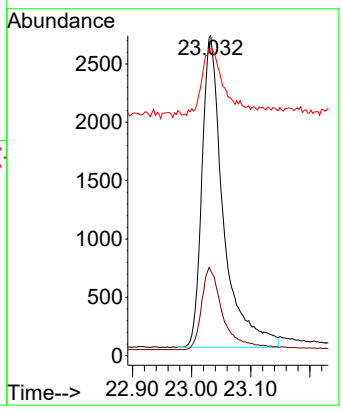


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035827.D
Acq: 24 Dec 2024 18:29

Instrument :
BNA_N
ClientSampleId :
TT161S1-20241219

Tgt Ion:264 Resp: 6735

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.4	32.2
265	95.8	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

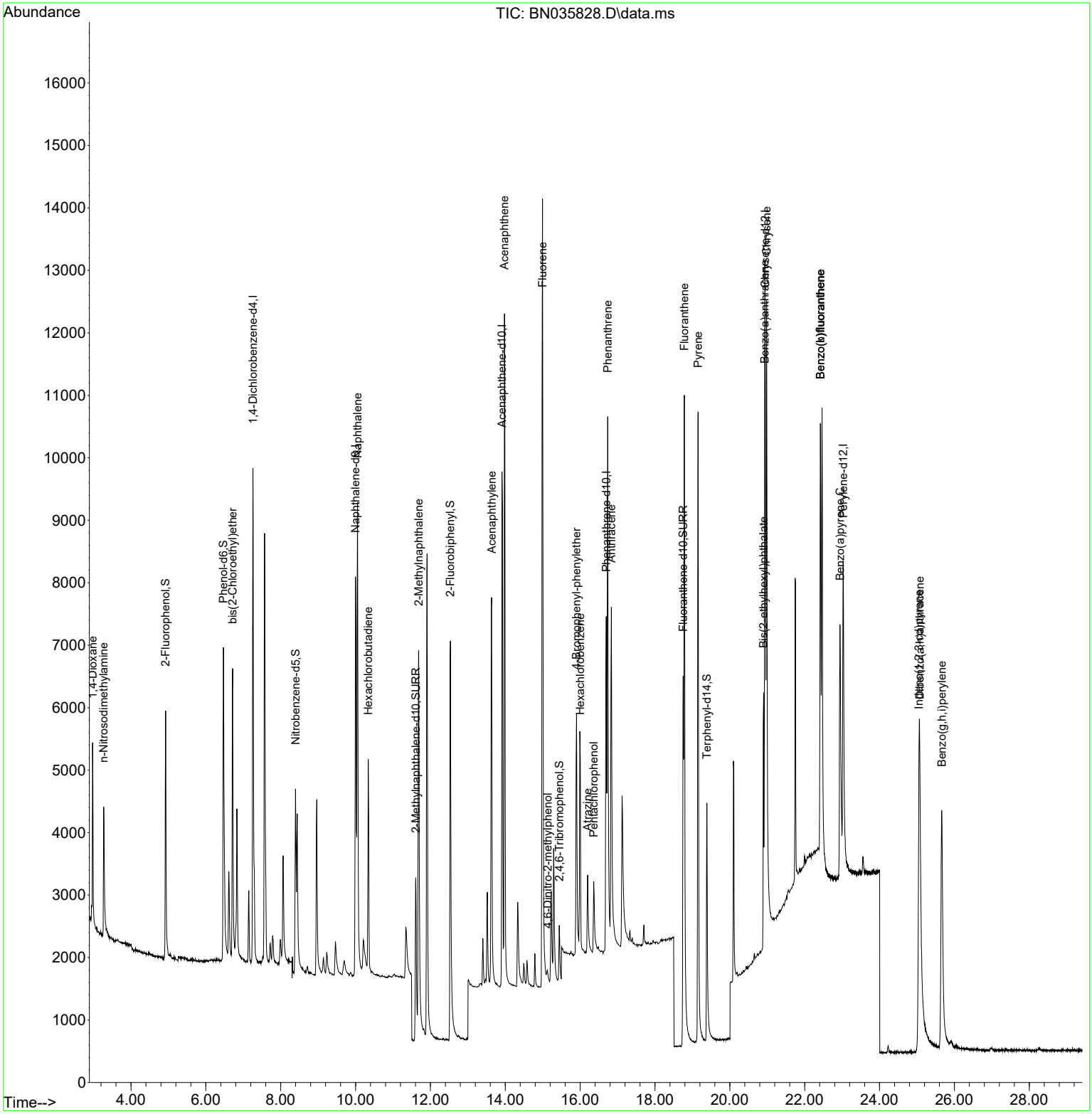
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	4008	0.400	ng		-0.02
7) Naphthalene-d8	9.998	136	9840	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	5373	0.400	ng		-0.02
19) Phenanthrene-d10	16.698	188	9905	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	7447	0.400	ng		# 0.00
35) Perylene-d12	23.029	264	7426	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3589	0.358	ng		-0.01
5) Phenol-d6	6.470	99	6110	0.506	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3407	0.567	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5246	0.341	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1040	0.273	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	8409	0.414	ng		-0.01
27) Fluoranthene-d10	18.752	212	9222	0.328	ng		0.00
31) Terphenyl-d14	19.384	244	6024	0.410	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	2007	0.524	ng		99
3) n-Nitrosodimethylamine	3.270	42	1227	0.384	ng	#	82
6) bis(2-Chloroethyl)ether	6.715	93	4129	0.407	ng		99
9) Naphthalene	10.052	128	10772	0.415	ng		99
10) Hexachlorobutadiene	10.340	225	2784	0.465	ng	#	99
12) 2-Methylnaphthalene	11.686	142	6505	0.350	ng		99
16) Acenaphthylene	13.636	152	8453	0.375	ng		99
17) Acenaphthene	13.978	154	5821	0.389	ng		100
18) Fluorene	14.993	166	7311	0.341	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	239	0.245	ng	#	24
21) 4-Bromophenyl-phenylether	15.904	248	2287	0.395	ng	#	91
22) Hexachlorobenzene	16.003	284	3296	0.484	ng		99
23) Atrazine	16.202	200	1504	0.365	ng		95
24) Pentachlorophenol	16.363	266	898	0.303	ng		89
25) Phenanthrene	16.735	178	10097	0.371	ng		100
26) Anthracene	16.835	178	8619	0.350	ng		100
28) Fluoranthene	18.784	202	11973	0.326	ng		99
30) Pyrene	19.151	202	12223	0.445	ng		100
32) Benzo(a)anthracene	20.929	228	8203	0.315	ng		99
33) Chrysene	20.982	228	11628	0.433	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4135	0.402	ng		99
36) Indeno(1,2,3-cd)pyrene	25.052	276	10298	0.355	ng	#	83
37) Benzo(b)fluoranthene	22.418	252	17240	0.635	ng	#	95
38) Benzo(k)fluoranthene	22.418	252	17240	0.645	ng		95
39) Benzo(a)pyrene	22.944	252	8337	0.373	ng	#	87
40) Dibenzo(a,h)anthracene	25.073	278	7409	0.323	ng	#	90
41) Benzo(g,h,i)perylene	25.663	276	9651	0.403	ng		98

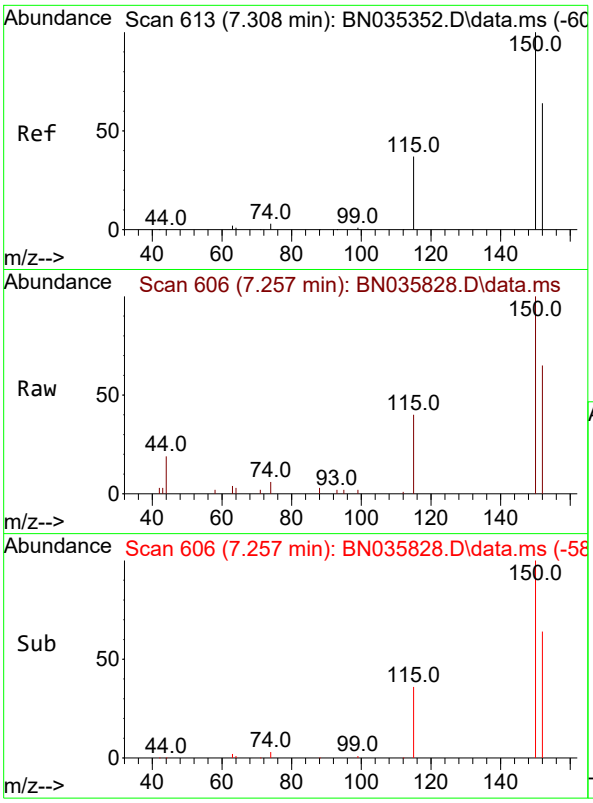
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



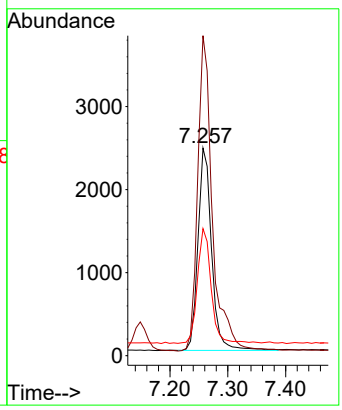


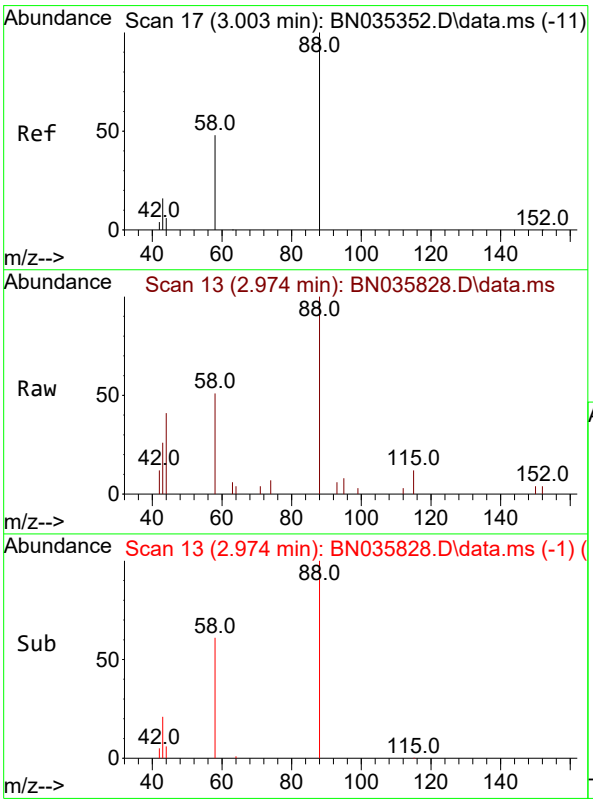
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4008

Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.0	186.0
115	61.2	49.6	74.4

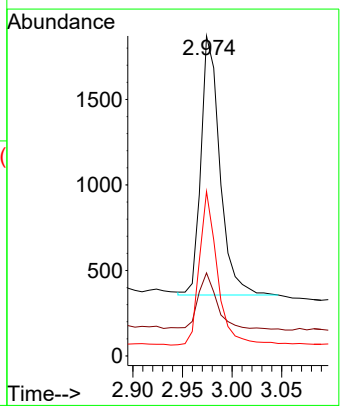


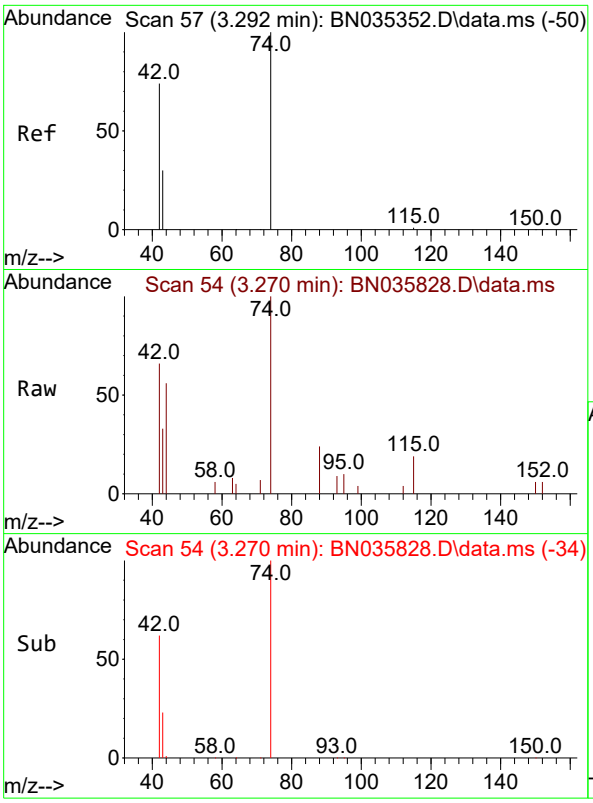


#2
1,4-Dioxane
Concen: 0.524 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 88 Resp: 2007

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	56.9	44.5	66.7



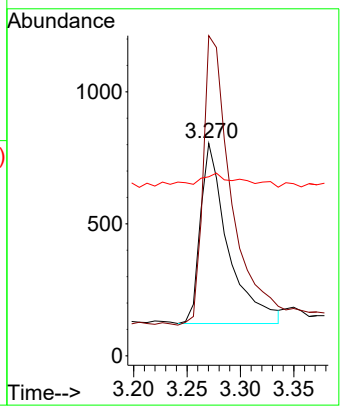


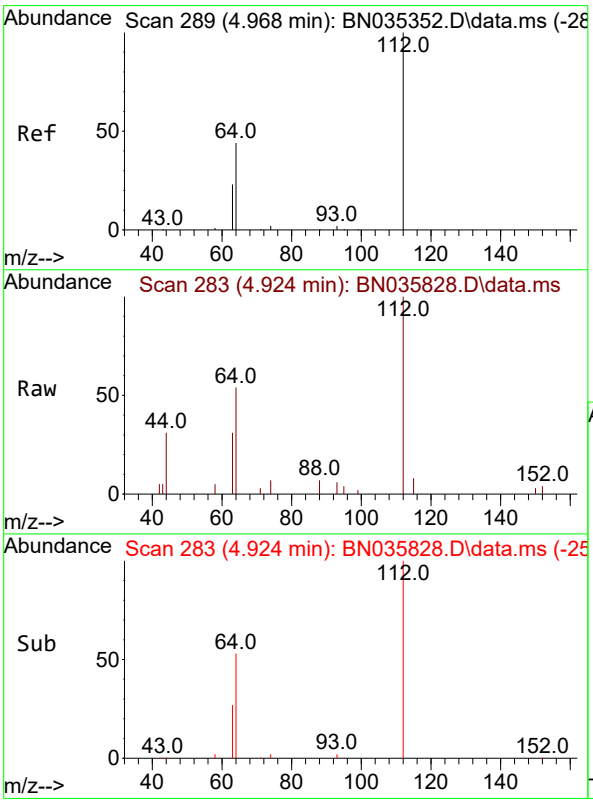
#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1227

Ion	Ratio	Lower	Upper
42	100		
74	178.7	124.9	187.3
44	14.2	2.2	3.4#

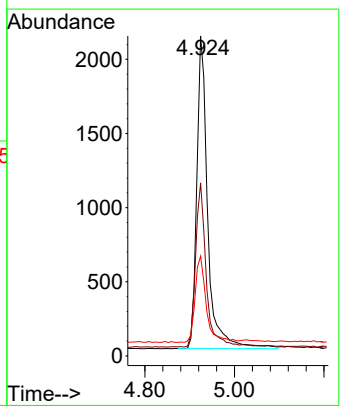


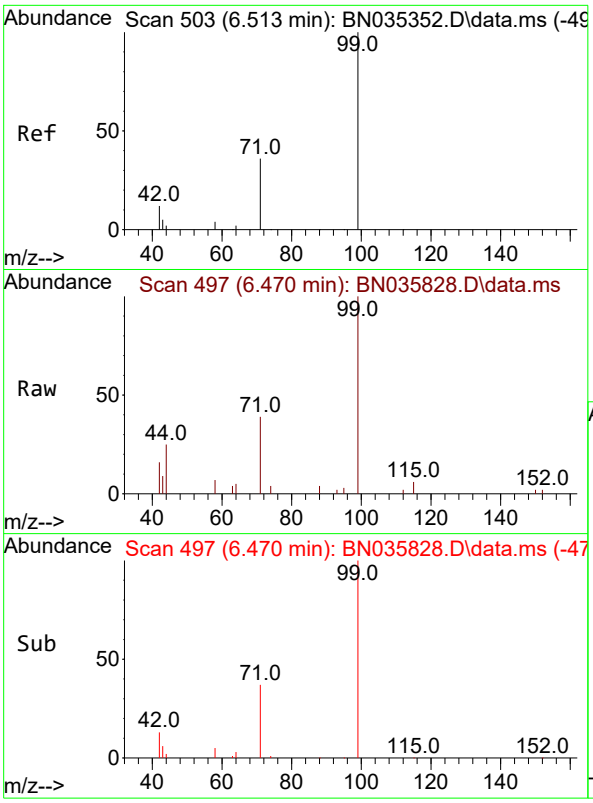


#4
2-Fluorophenol
Concen: 0.358 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:112 Resp: 3589

Ion	Ratio	Lower	Upper
112	100		
64	51.1	39.8	59.8
63	27.8	21.0	31.6



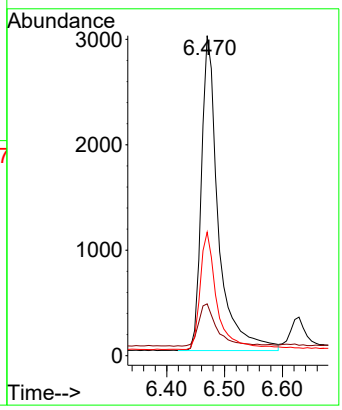


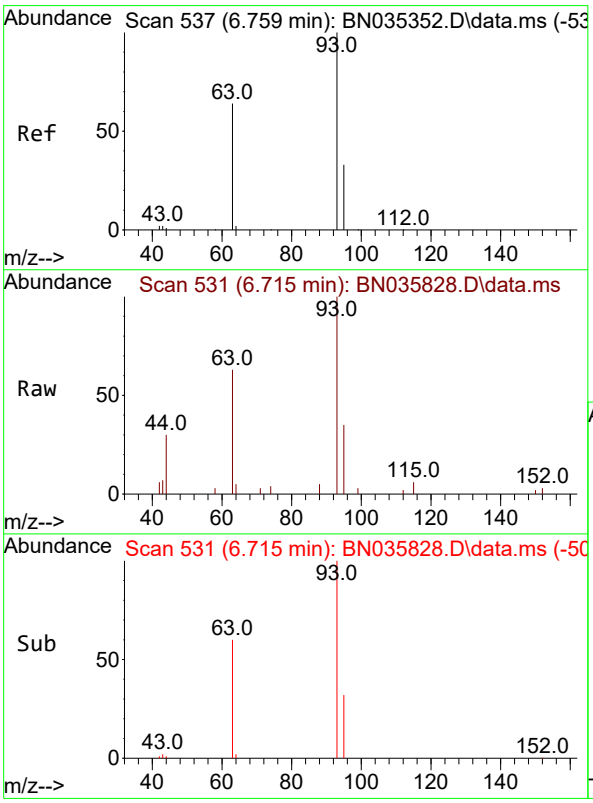
#5
Phenol-d6
Concen: 0.506 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6110

Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	37.7	29.3	43.9

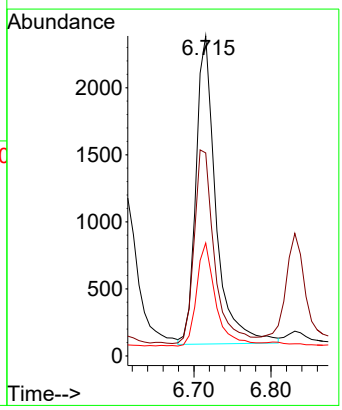


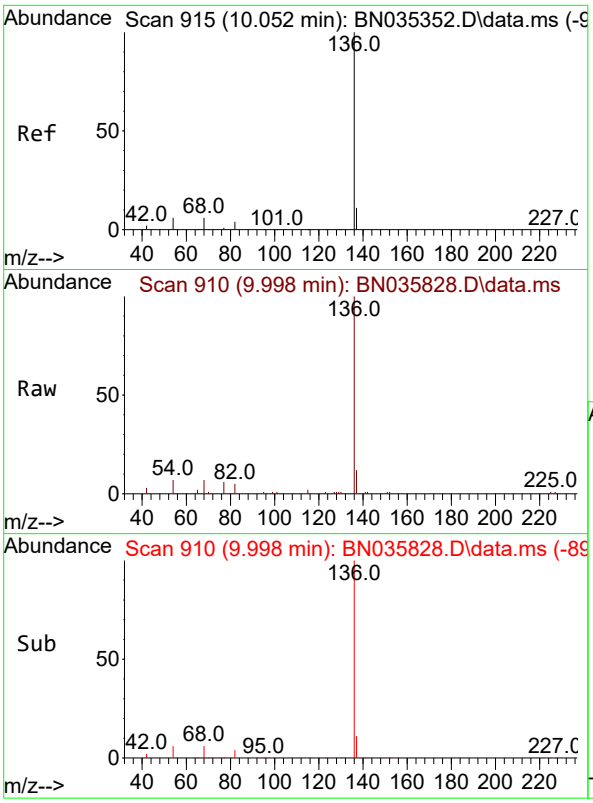


#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 93 Resp: 4129

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	31.8	25.7	38.5



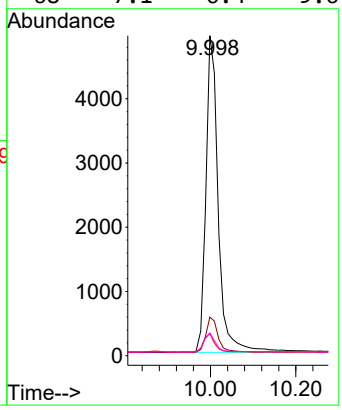


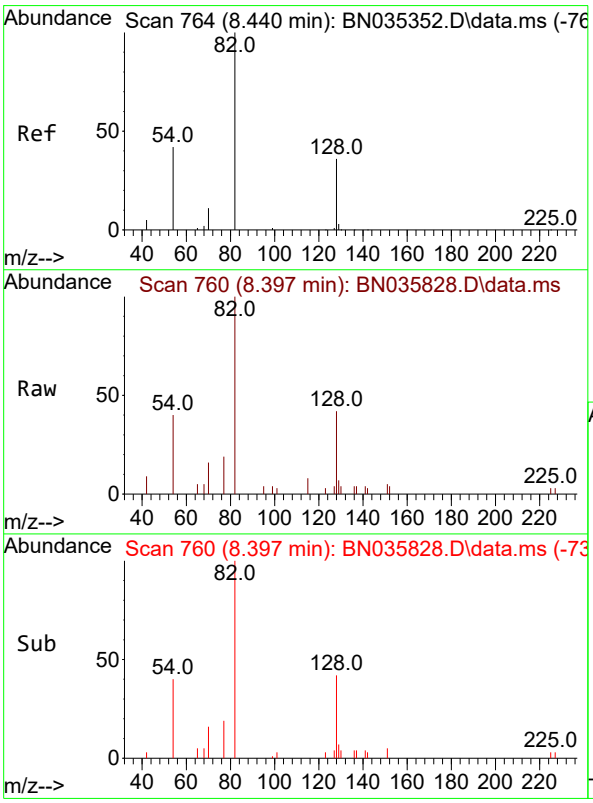
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 9840

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6

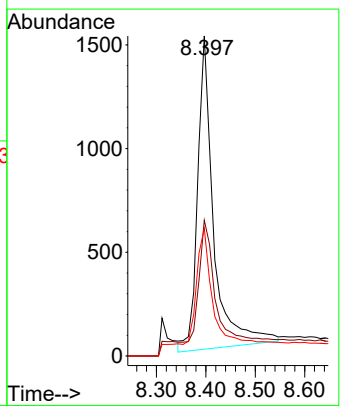


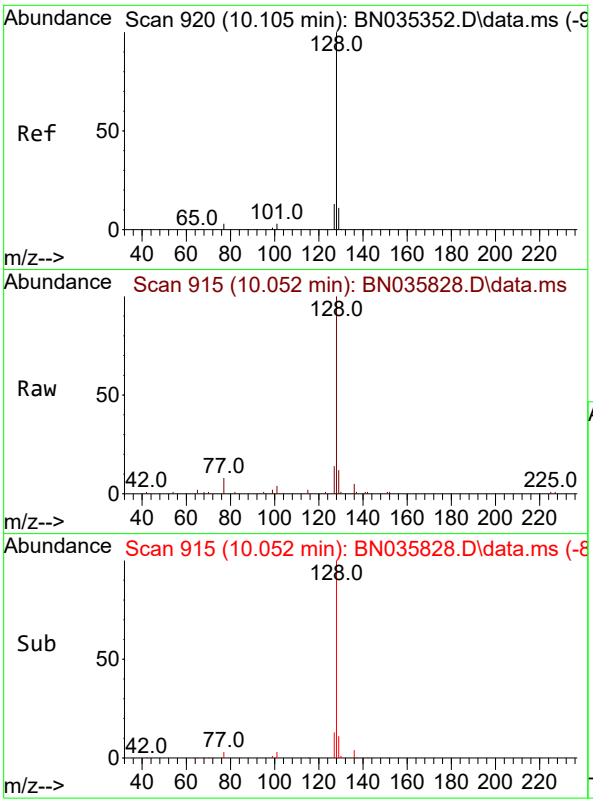


#8
Nitrobenzene-d5
Concen: 0.567 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 82 Resp: 3407

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	39.9	36.7	55.1



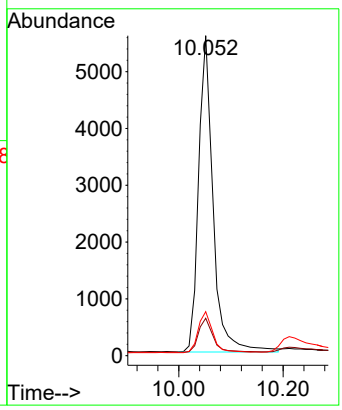


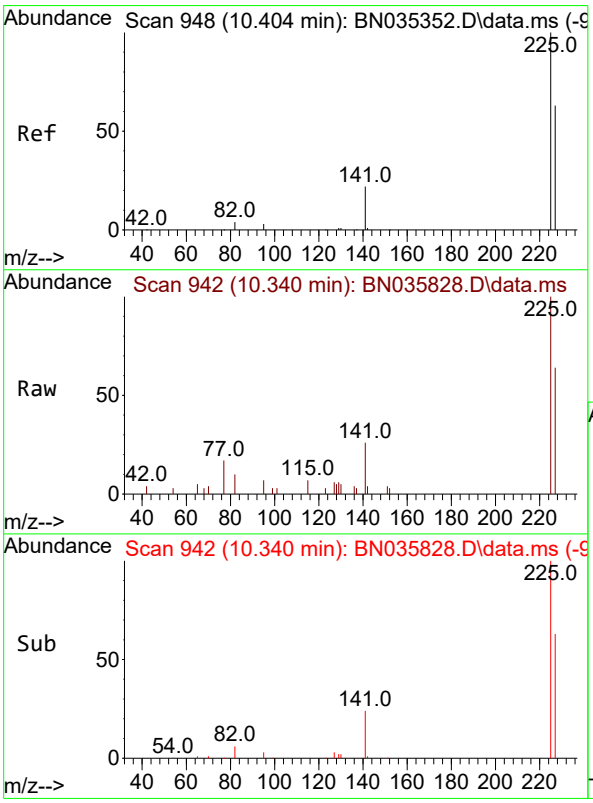
#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 10772

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.8	11.4	17.2

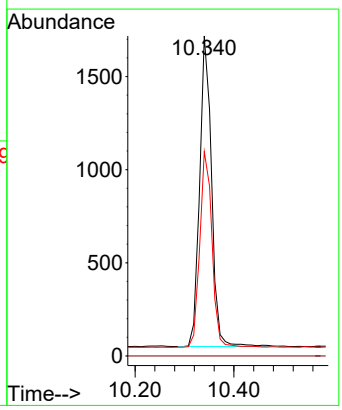


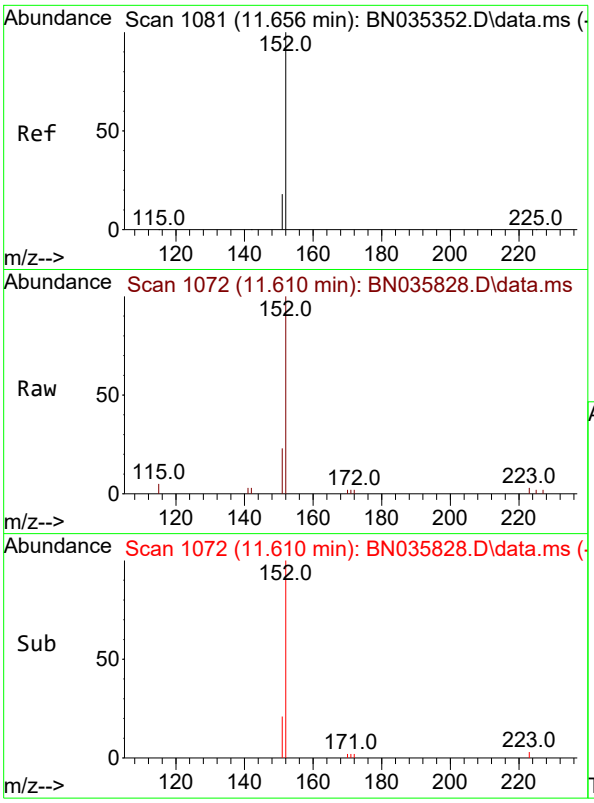


#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:225 Resp: 2784

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9



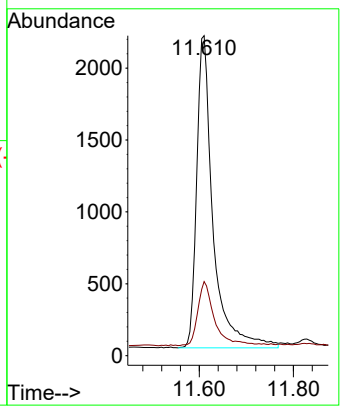


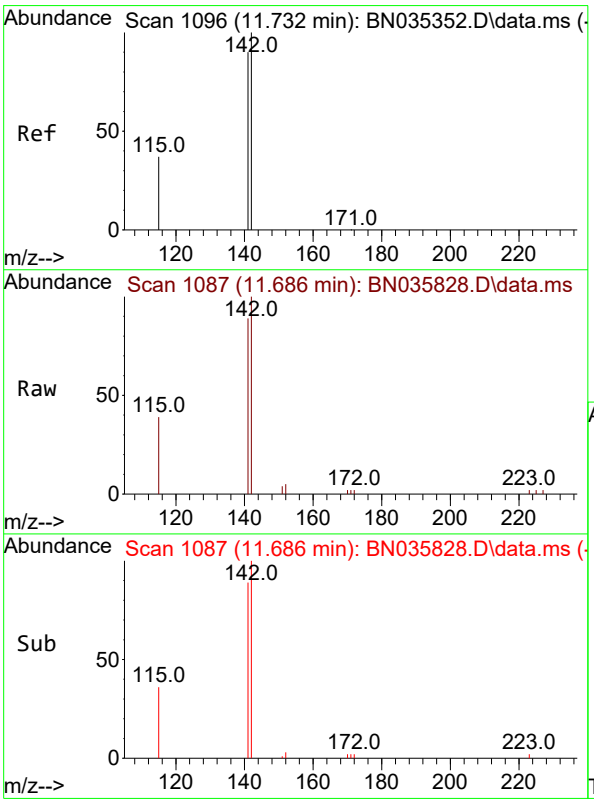
#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5246

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

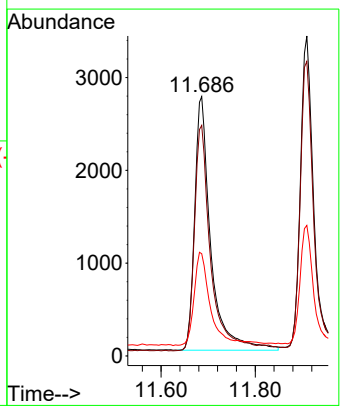


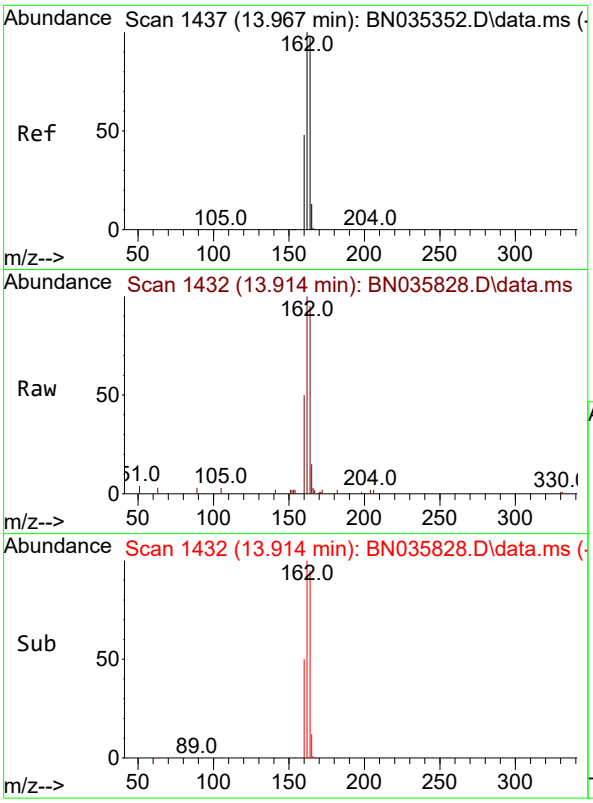


#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:142 Resp: 6505

Ion	Ratio	Lower	Upper
142	100		
141	88.9	72.2	108.4
115	39.4	31.4	47.0



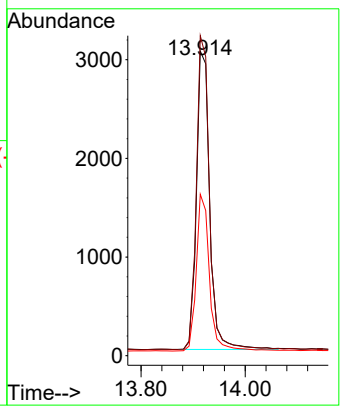


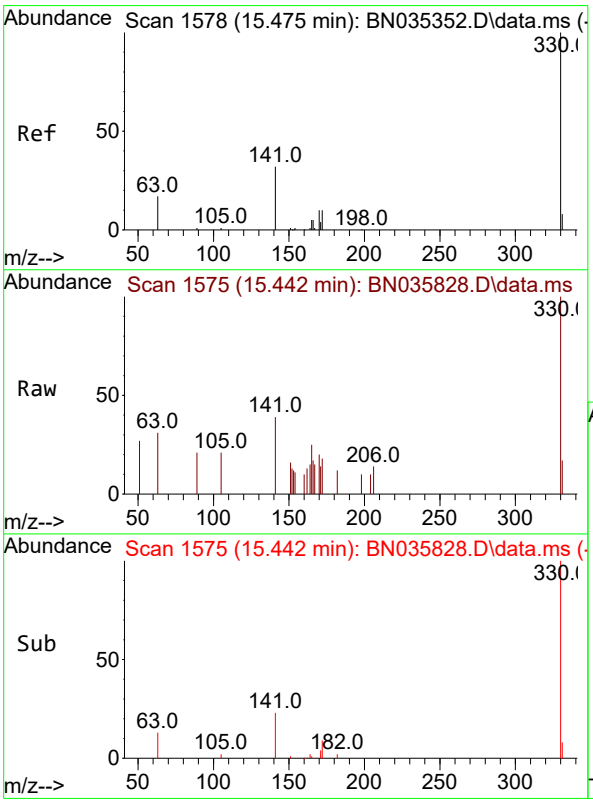
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 5373

Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.2	123.2
160	53.0	40.1	60.1

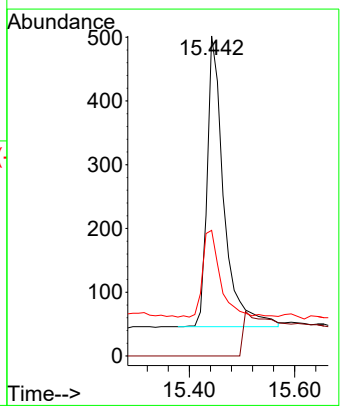


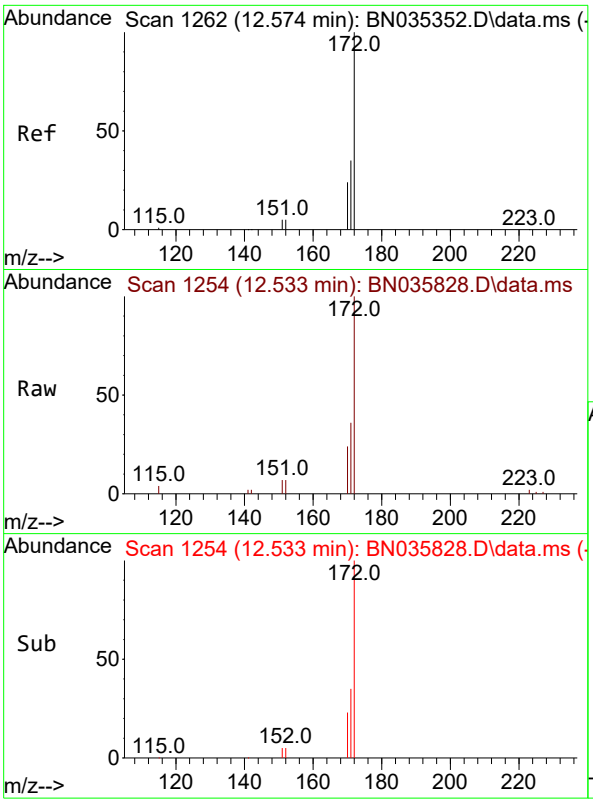


#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:330 Resp: 1040

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.0	26.6	40.0



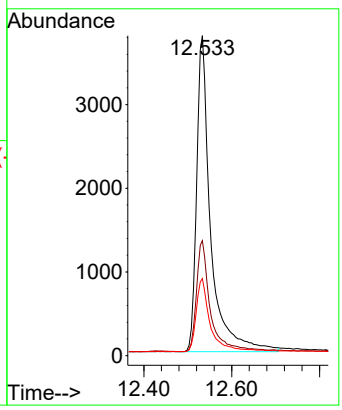


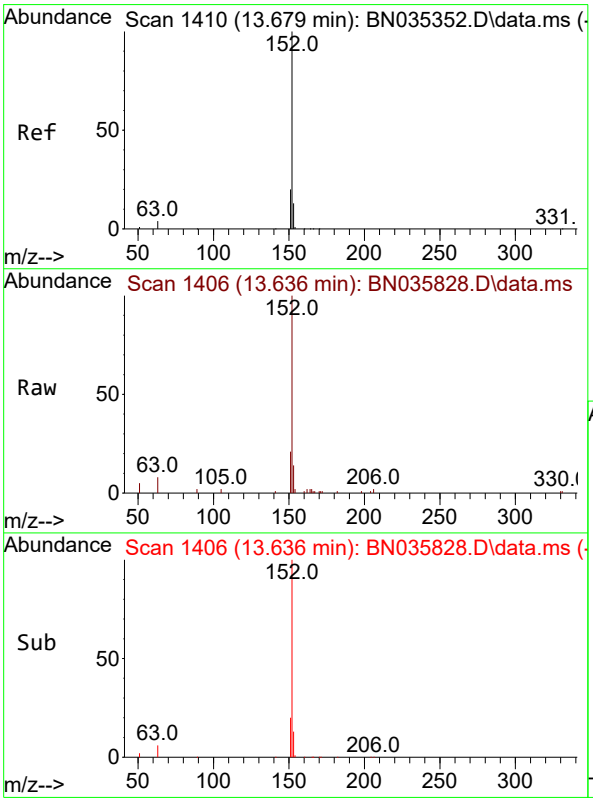
#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 8409

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.1	19.8	29.8

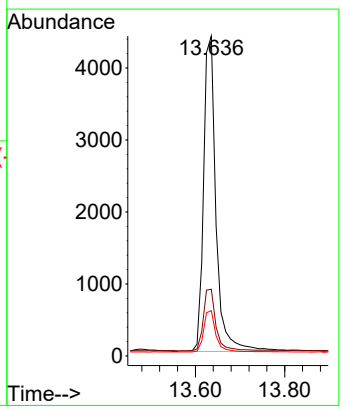


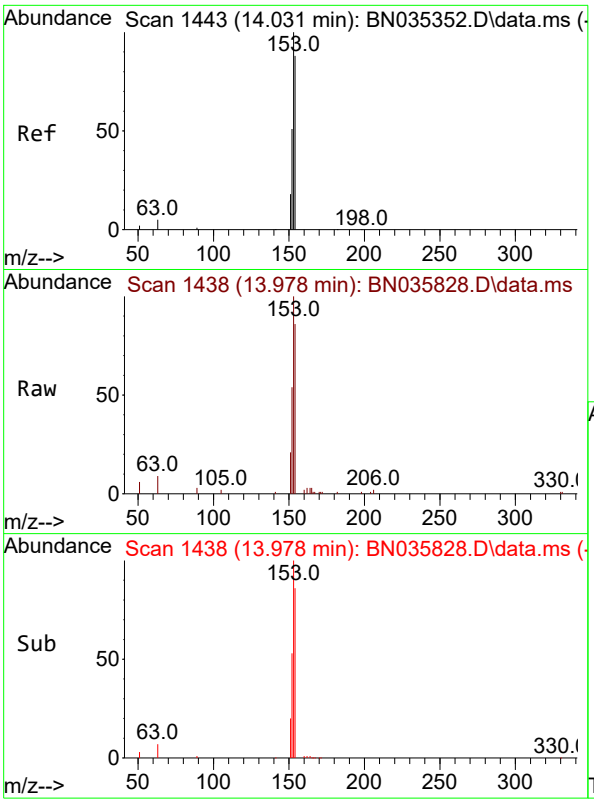


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 8453

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6



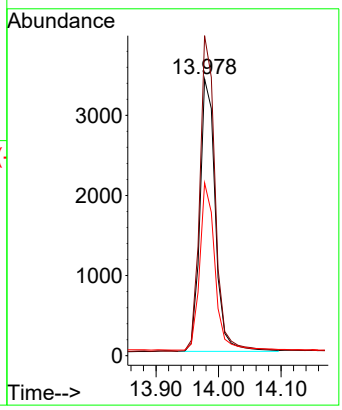


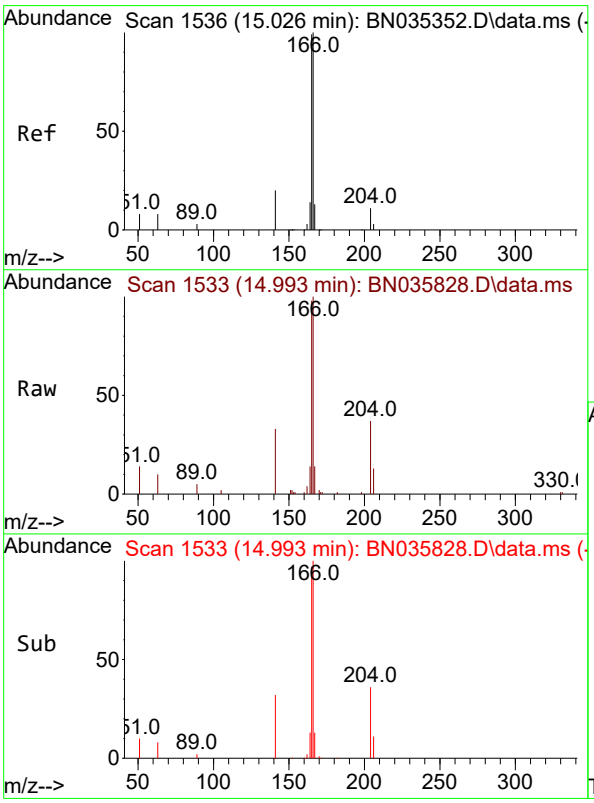
#17
Acenaphthene
Concen: 0.389 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 5821

Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	60.8	49.0	73.6

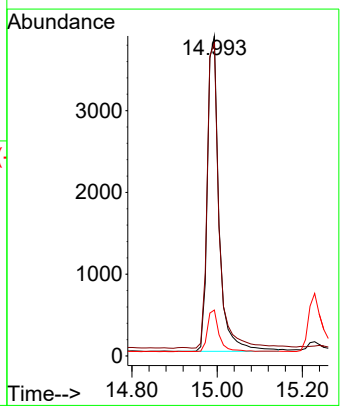


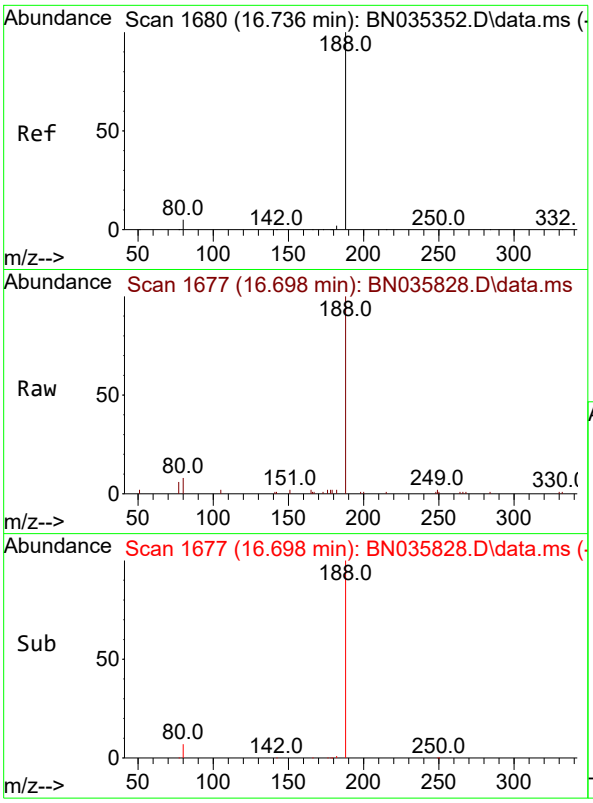


#18
Fluorene
Concen: 0.341 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:166 Resp: 7311

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.0	10.8	16.2



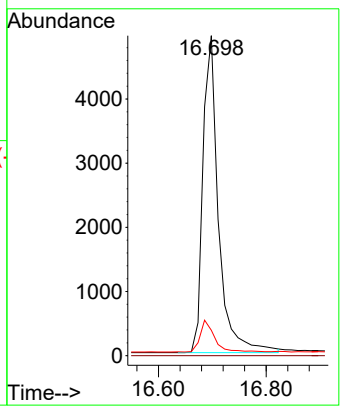


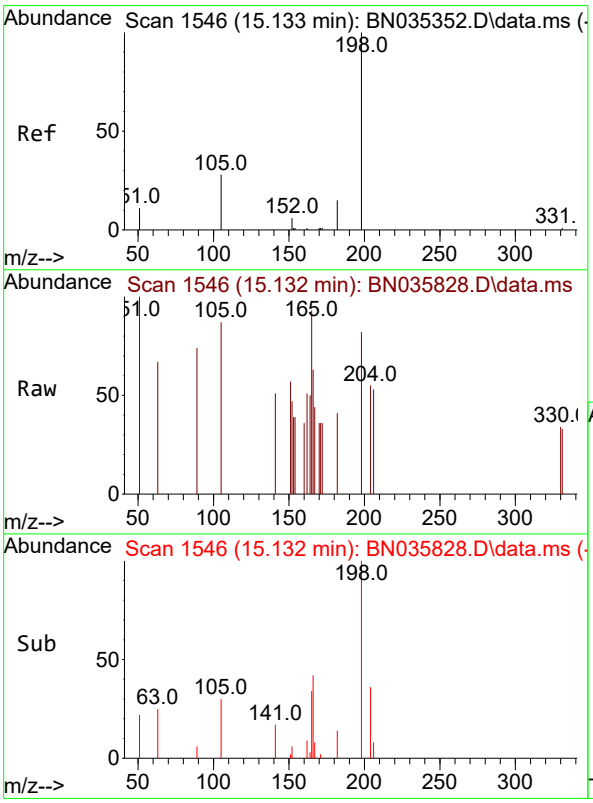
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9905

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	4.6	6.8#

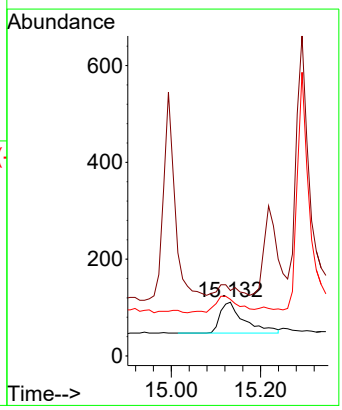


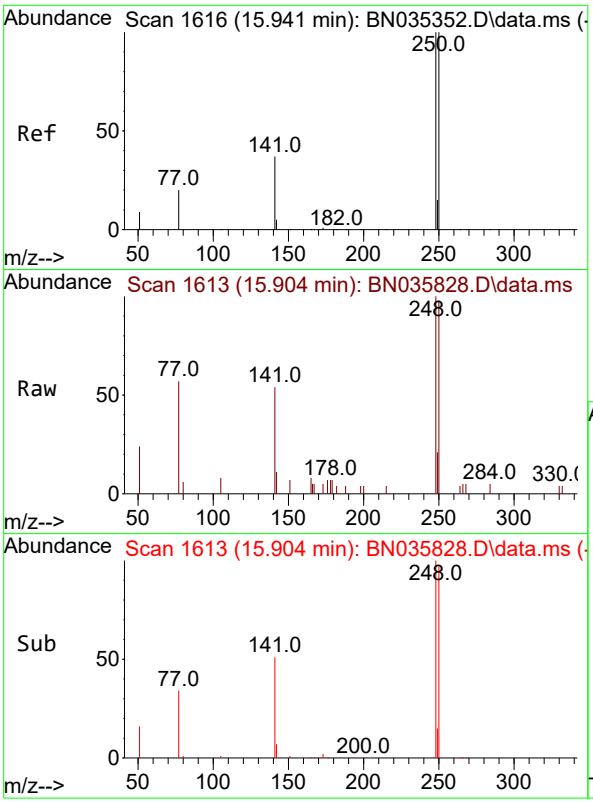


#20
4,6-Dinitro-2-methylphenol
Concen: 0.245 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:198 Resp: 239

Ion	Ratio	Lower	Upper
198	100		
51	121.6	46.5	69.7#
105	105.4	45.3	67.9#



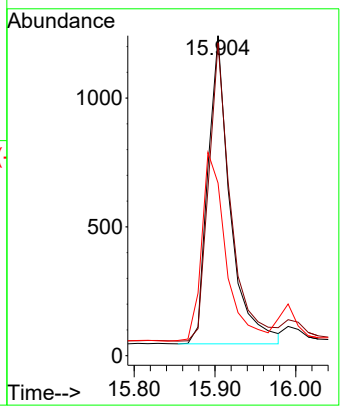


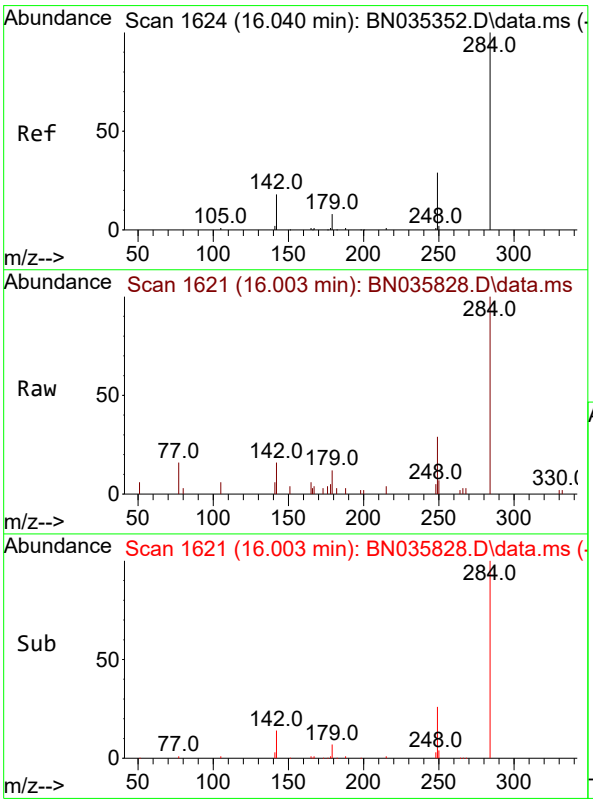
#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2287

Ion	Ratio	Lower	Upper
248	100		
250	97.8	80.6	120.8
141	53.9	31.5	47.3#

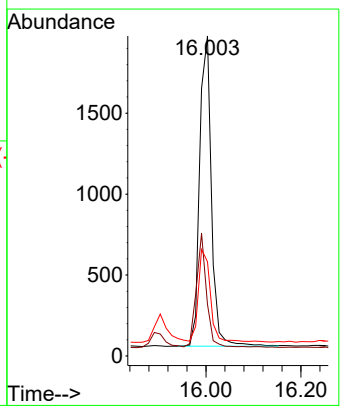


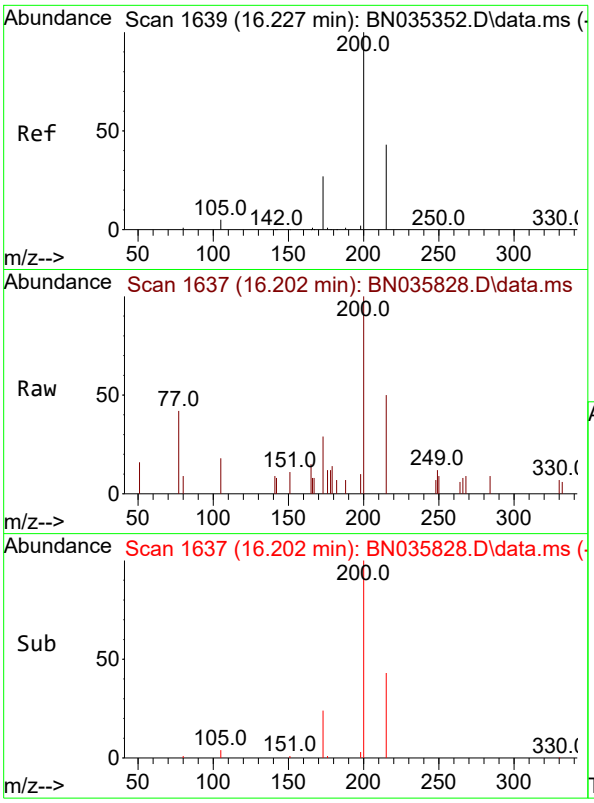


#22
Hexachlorobenzene
Concen: 0.484 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:284 Resp: 3296

Ion	Ratio	Lower	Upper
284	100		
142	32.1	26.7	40.1
249	30.7	24.6	36.8



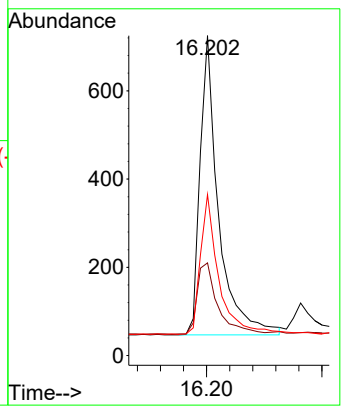


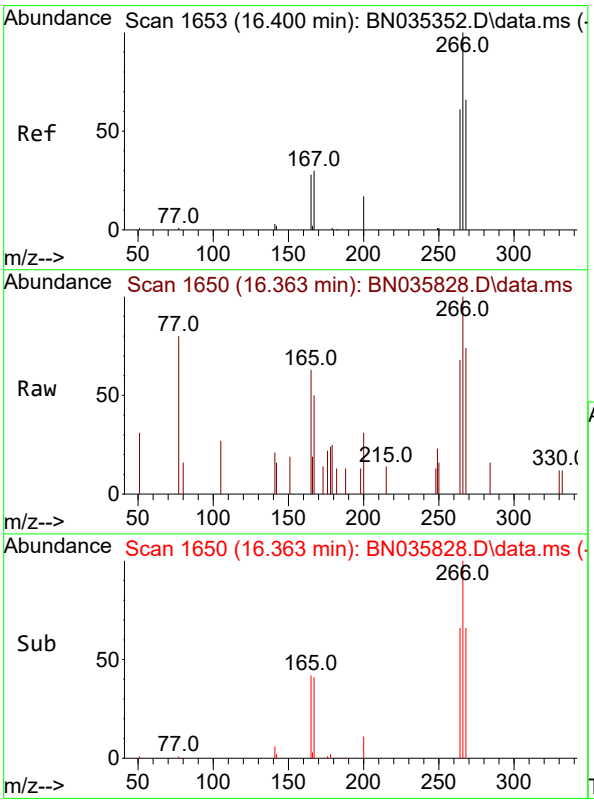
#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1504

Ion	Ratio	Lower	Upper
200	100		
173	29.0	24.1	36.1
215	50.3	36.9	55.3

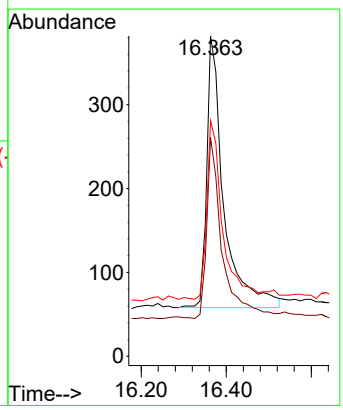


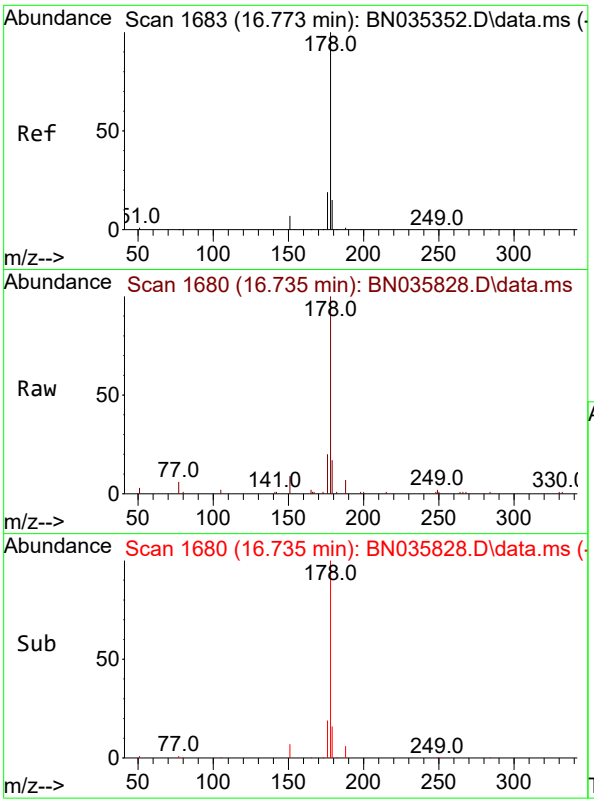


#24
Pentachlorophenol
Concen: 0.303 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:266 Resp: 898

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	61.1	43.3	64.9



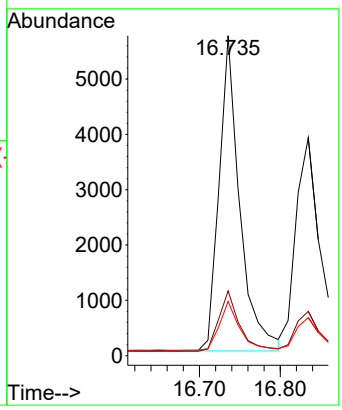


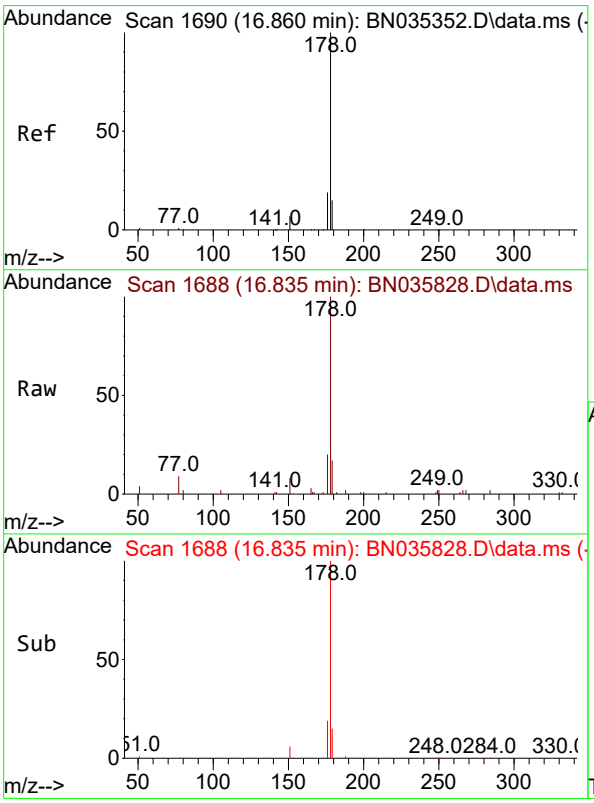
#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 10097

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5

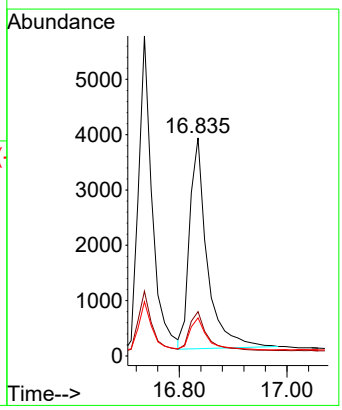


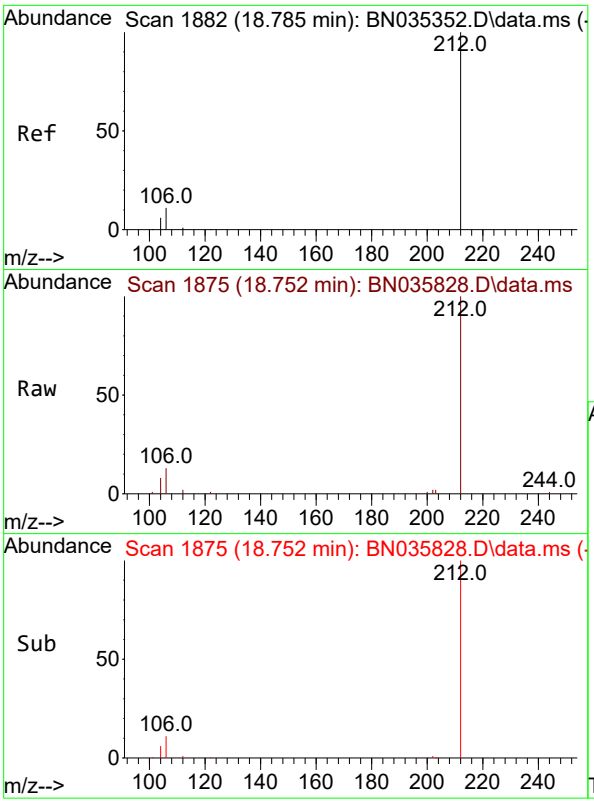


#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 8619

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.5	12.6	18.8



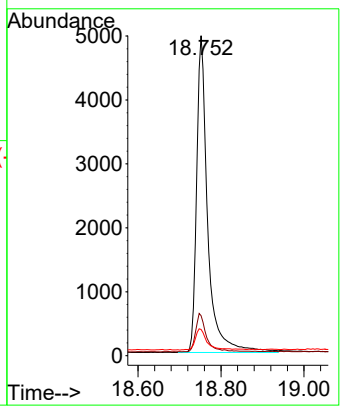


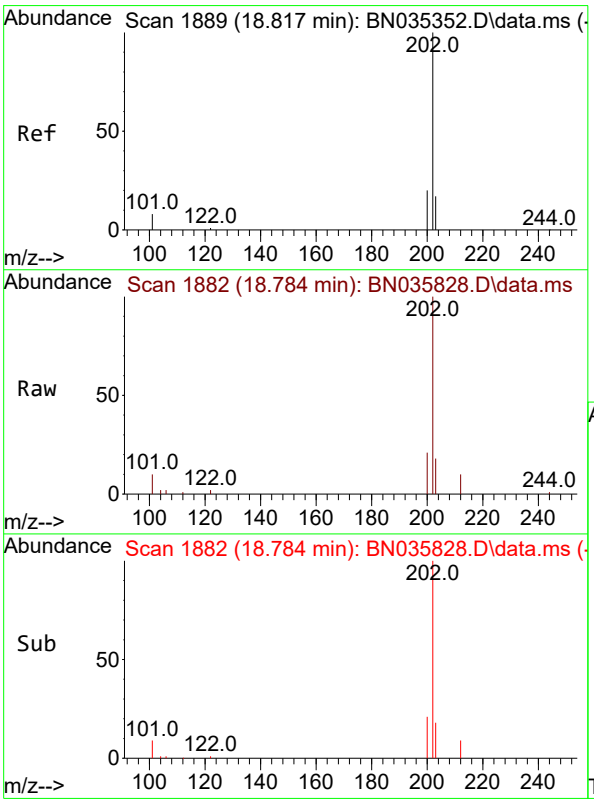
#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 9222

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	7.0	5.3	7.9

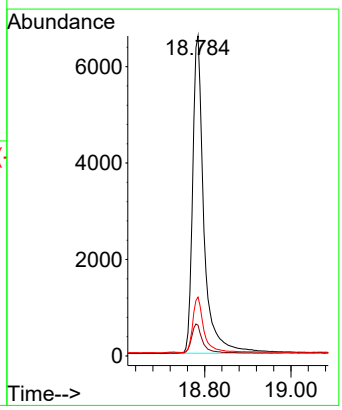


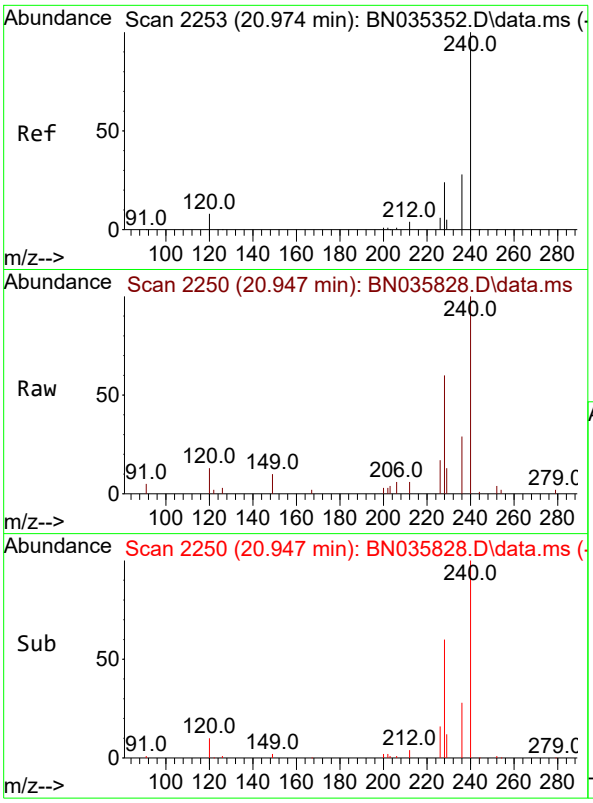


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 11973

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	17.3	13.7	20.5



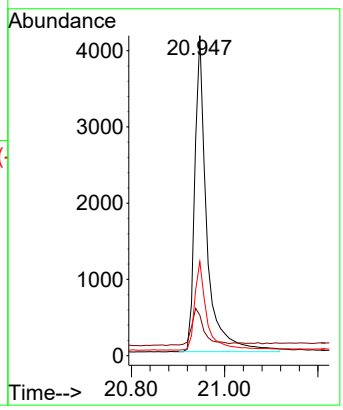


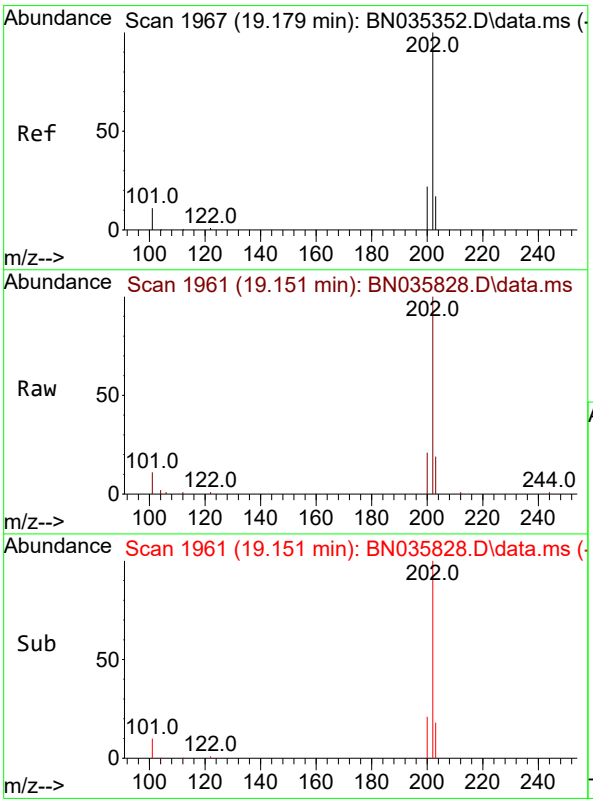
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 7447

Ion	Ratio	Lower	Upper
240	100		
120	12.6	7.9	11.9#
236	29.4	22.9	34.3

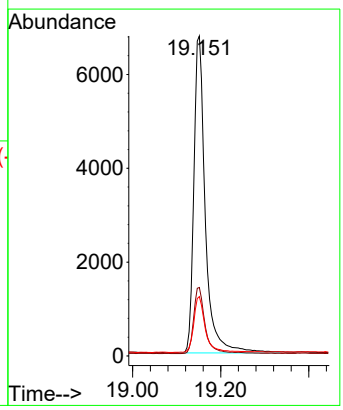


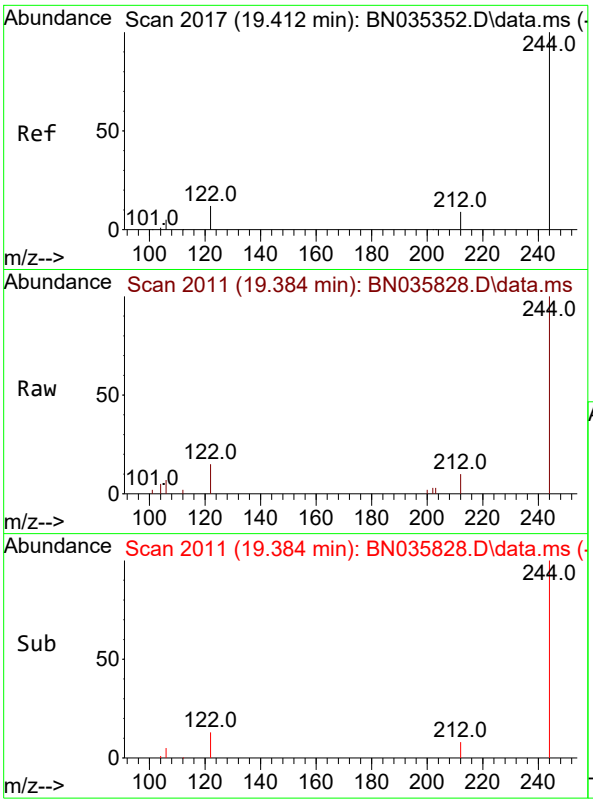


#30
Pyrene
Concen: 0.445 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 12223

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5



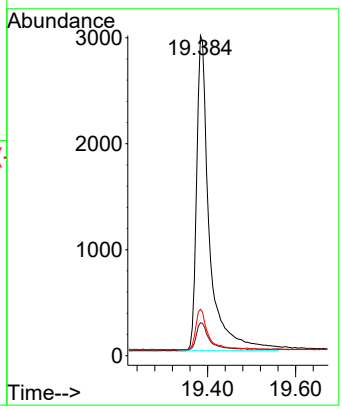


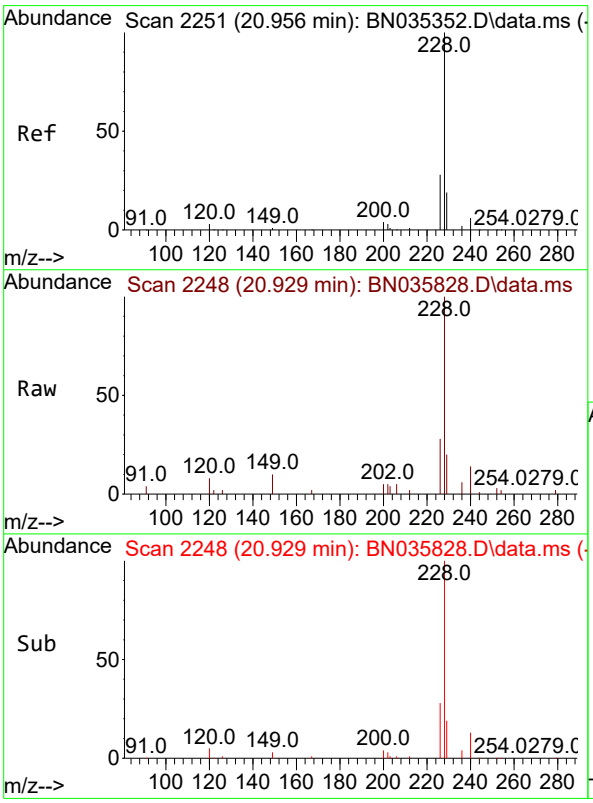
#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 6024

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.5	10.3	15.5

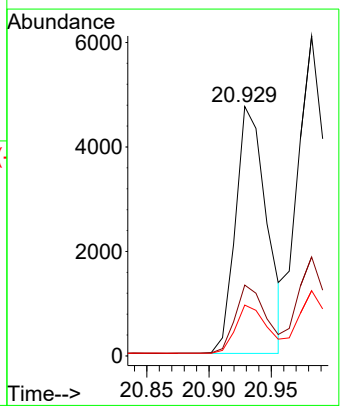


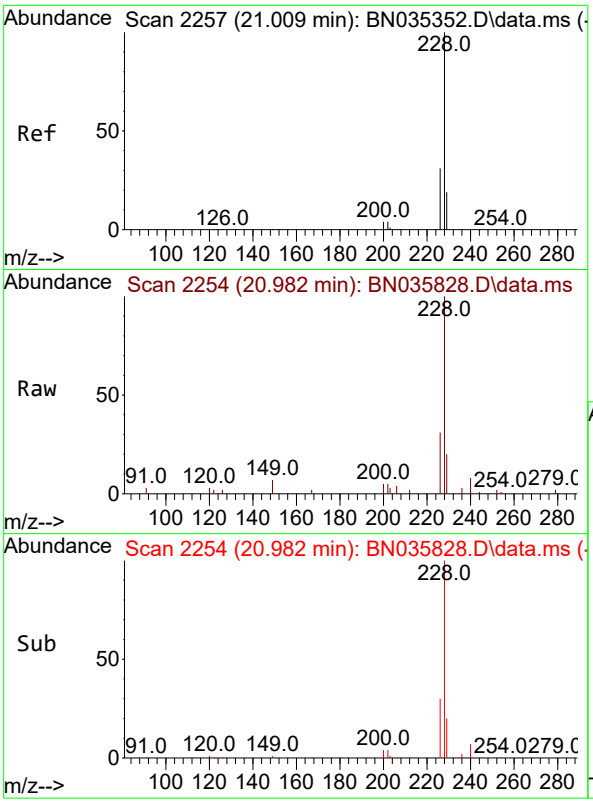


#32
Benzo(a)anthracene
Concen: 0.315 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 8203

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.4	15.8	23.8



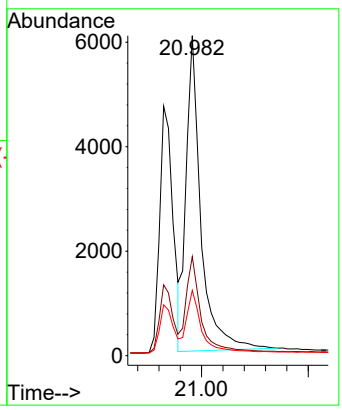


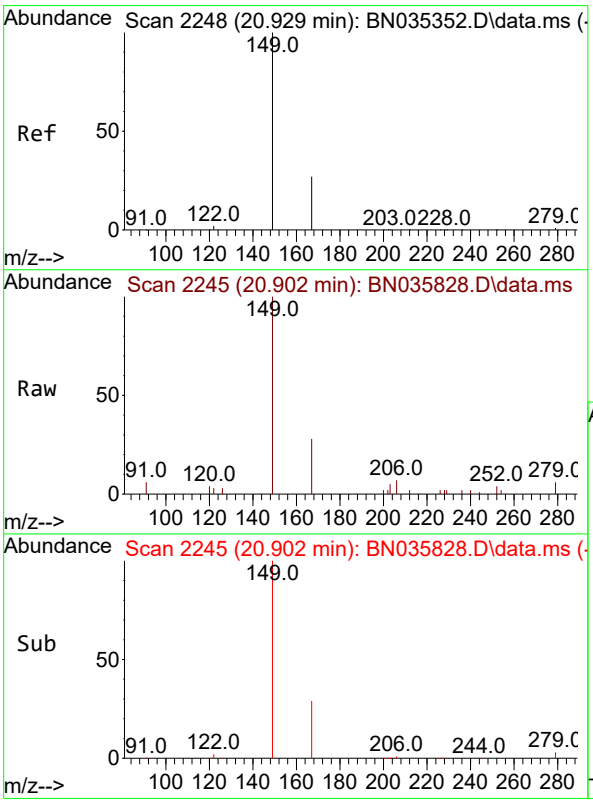
#33
Chrysene
Concen: 0.433 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 11628

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	37.0
229	20.4	15.9	23.9

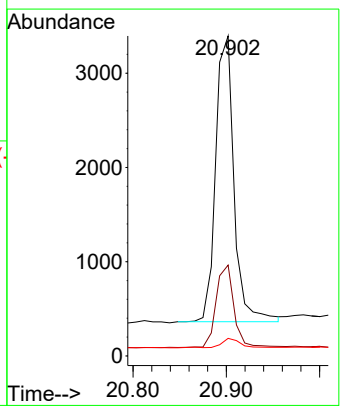


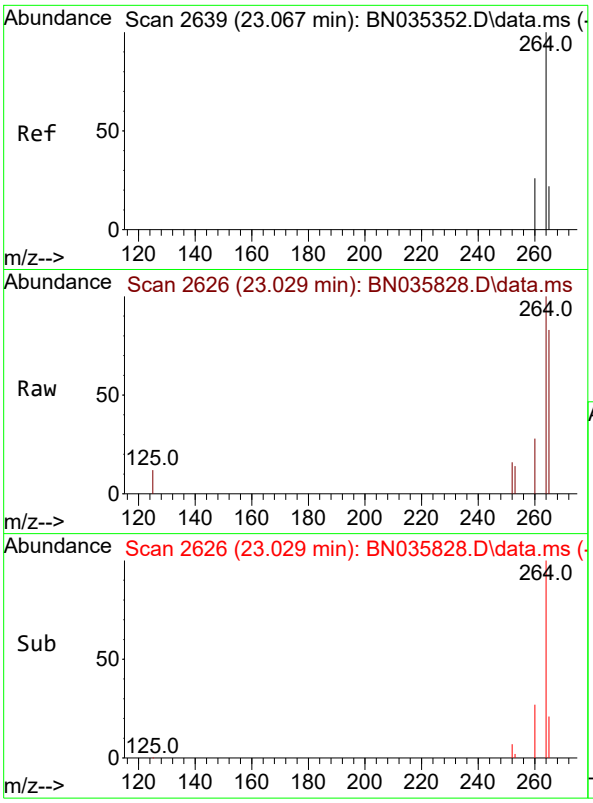


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:149 Resp: 4135

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.5	2.7	4.1



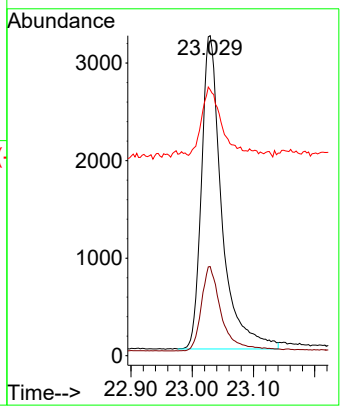


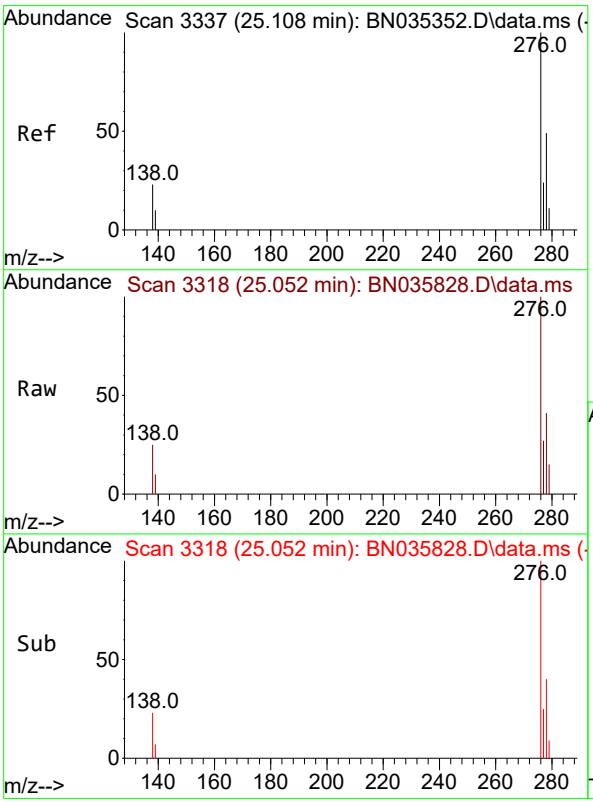
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 7426

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	83.1	40.2	60.4#

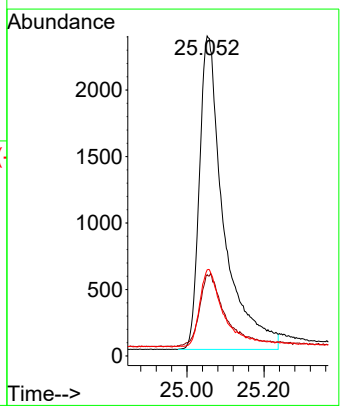


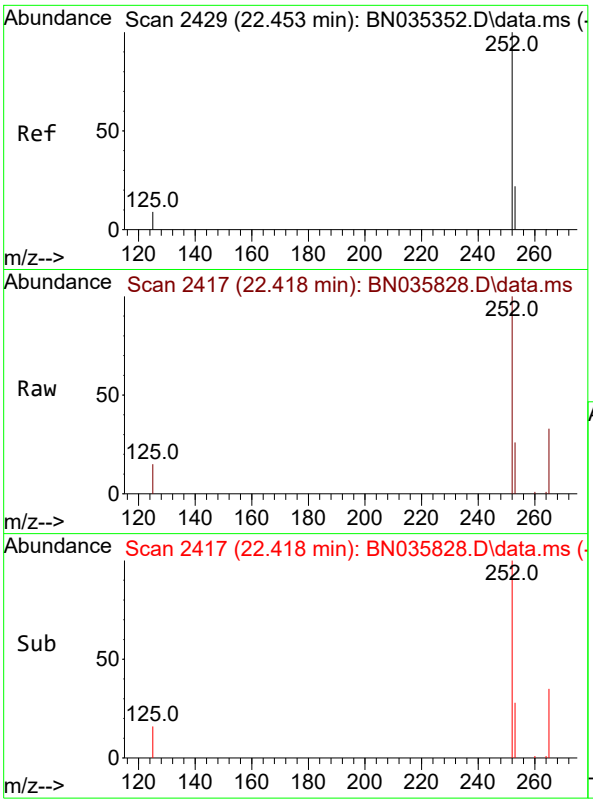


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.355 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 10298

Ion	Ratio	Lower	Upper
276	100		
138	8.7	19.4	29.0#
277	22.9	19.8	29.6



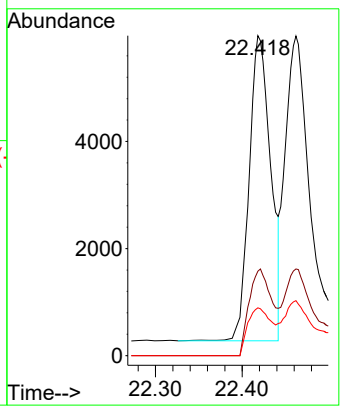


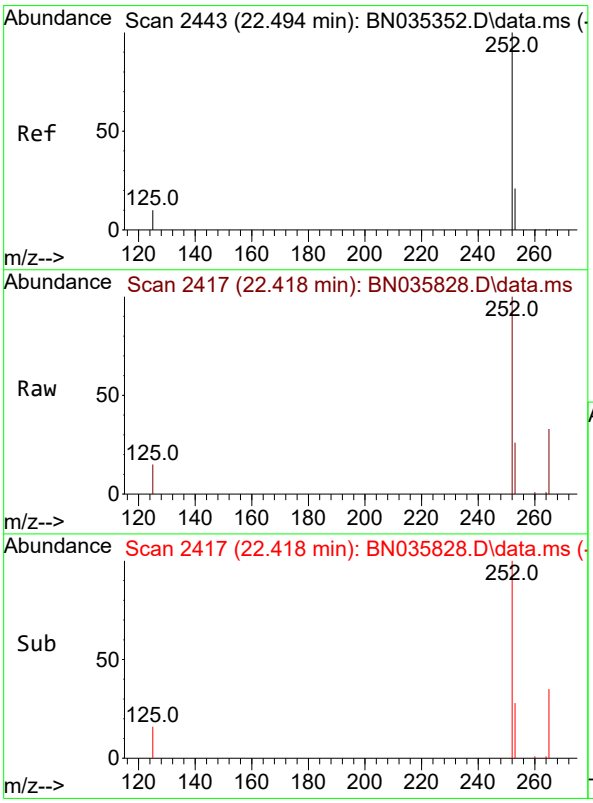
#37
Benzo(b)fluoranthene
Concen: 0.635 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 17240

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.6	29.4
125	15.0	9.6	14.4#

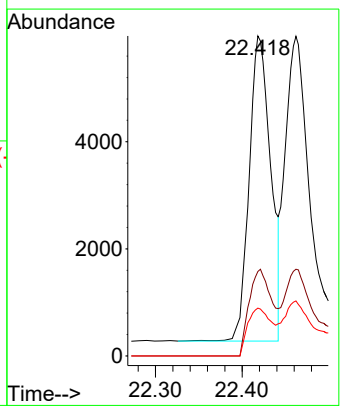


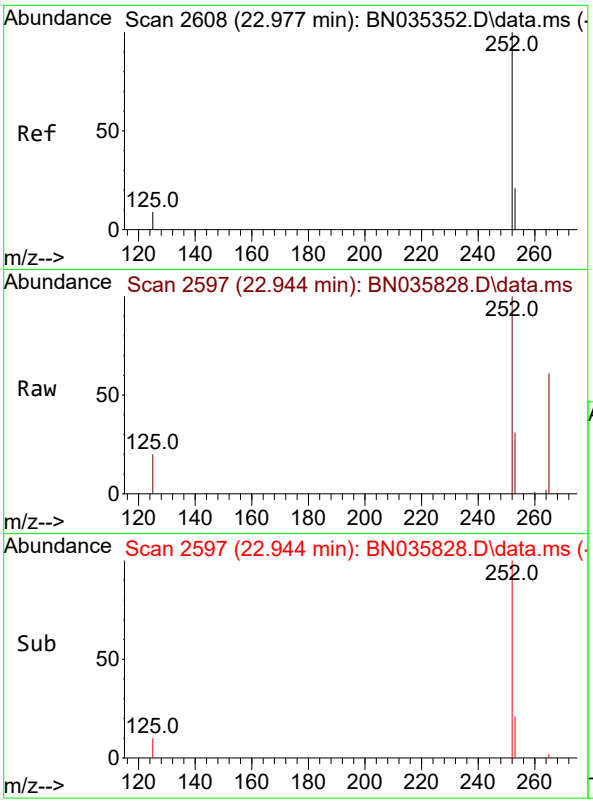


#38
Benzo(k)fluoranthene
Concen: 0.645 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 17240

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.5	29.3
125	15.0	10.2	15.4



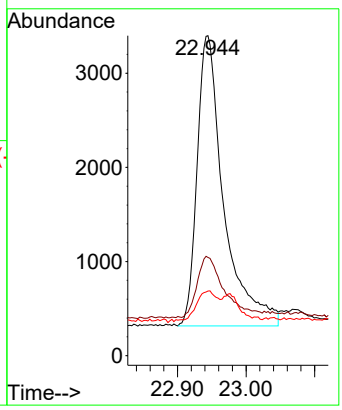


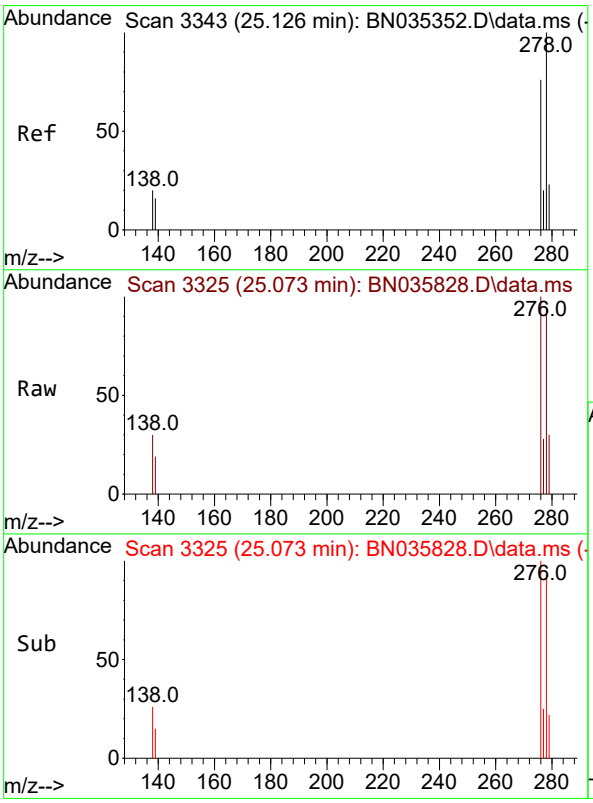
#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 8337

Ion	Ratio	Lower	Upper
252	100		
253	30.7	20.2	30.4#
125	20.2	10.9	16.3#

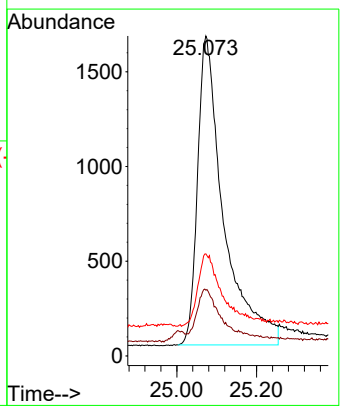


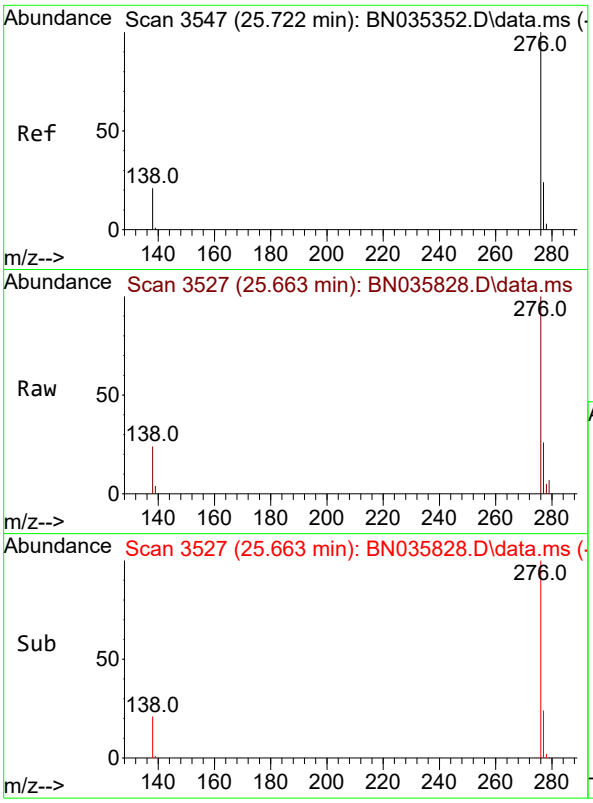


#40
Dibenzo(a,h)anthracene
Concen: 0.323 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:278 Resp: 7409

Ion	Ratio	Lower	Upper
278	100		
139	20.5	14.2	21.4
279	31.9	20.5	30.7#



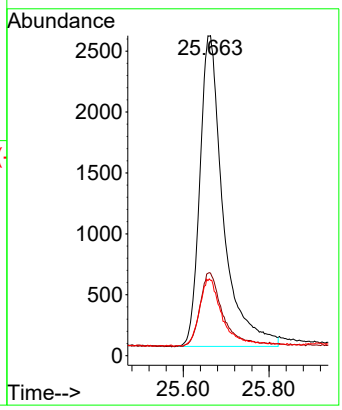


#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.663 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 9651

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	23.6	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

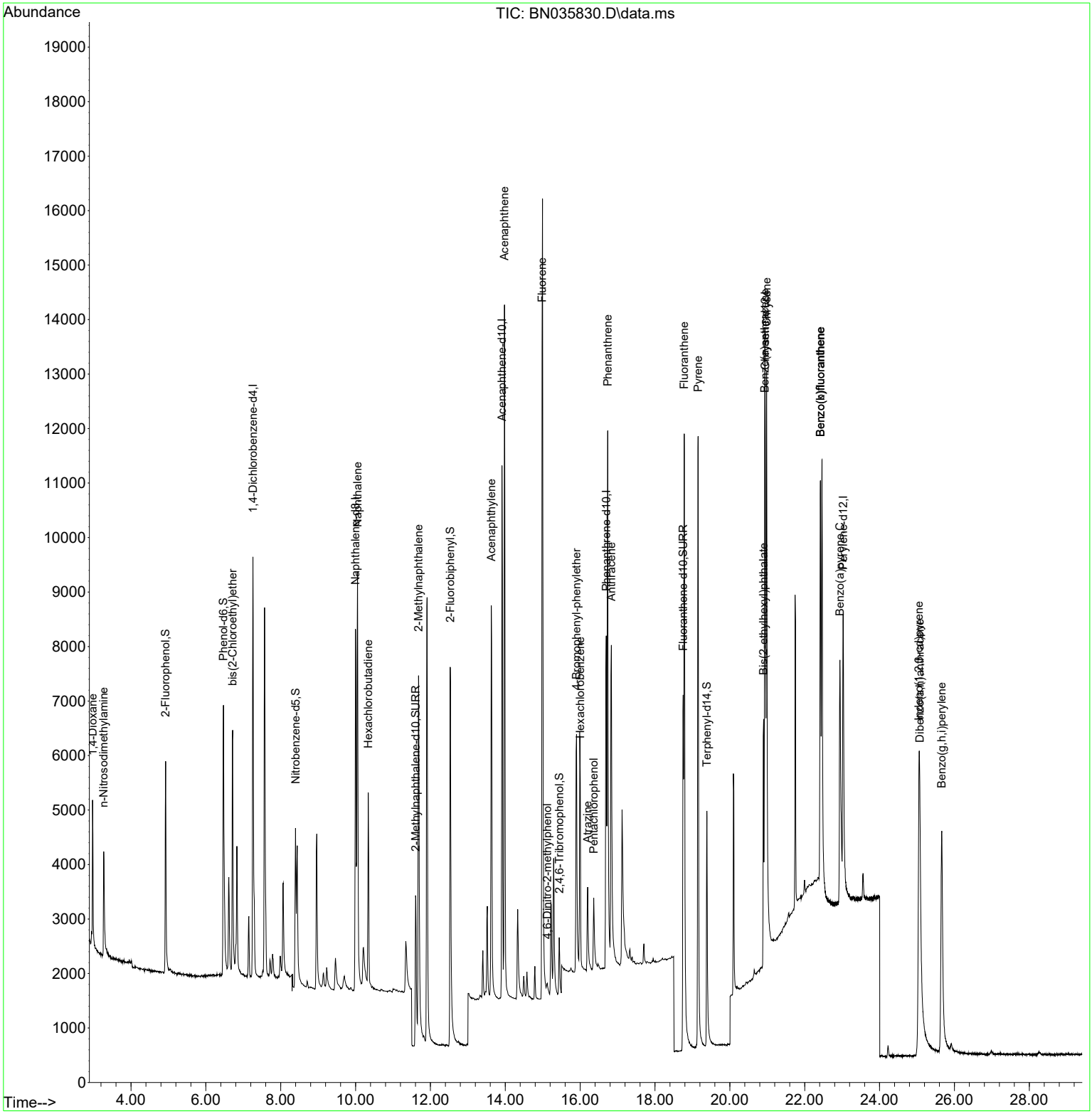
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3866	0.400	ng		-0.01
7) Naphthalene-d8	9.998	136	9955	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	5956	0.400	ng		-0.02
19) Phenanthrene-d10	16.698	188	11143	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	7851	0.400	ng		# 0.00
35) Perylene-d12	23.026	264	7870	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3514	0.363	ng		-0.01
5) Phenol-d6	6.470	99	6003	0.516	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3360	0.553	ng		-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5482	0.352	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	1203	0.285	ng		-0.01
15) 2-Fluorobiphenyl	12.528	172	9033	0.401	ng		-0.02
27) Fluoranthene-d10	18.752	212	9737	0.308	ng		0.00
31) Terphenyl-d14	19.384	244	6543	0.422	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1940	0.525	ng		99
3) n-Nitrosodimethylamine	3.270	42	1162	0.377	ng	#	83
6) bis(2-Chloroethyl)ether	6.715	93	4053	0.415	ng		99
9) Naphthalene	10.052	128	10855	0.413	ng		99
10) Hexachlorobutadiene	10.340	225	2815	0.465	ng	#	100
12) 2-Methylnaphthalene	11.681	142	6938	0.369	ng		98
16) Acenaphthylene	13.625	152	9384	0.375	ng		100
17) Acenaphthene	13.978	154	6532	0.393	ng		100
18) Fluorene	14.983	166	8318	0.350	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	301	0.275	ng	#	35
21) 4-Bromophenyl-phenylether	15.904	248	2677	0.411	ng	#	94
22) Hexachlorobenzene	16.003	284	3900	0.510	ng		96
23) Atrazine	16.202	200	1790	0.386	ng		96
24) Pentachlorophenol	16.363	266	1032	0.310	ng		88
25) Phenanthrene	16.735	178	11523	0.376	ng		100
26) Anthracene	16.835	178	9576	0.346	ng		100
28) Fluoranthene	18.780	202	13046	0.316	ng		100
30) Pyrene	19.152	202	13156	0.454	ng		100
32) Benzo(a)anthracene	20.929	228	8776	0.320	ng		100
33) Chrysene	20.983	228	12184	0.430	ng		100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4711	0.434	ng		100
36) Indeno(1,2,3-cd)pyrene	25.052	276	10972	0.357	ng		99
37) Benzo(b)fluoranthene	22.418	252	14430	0.501	ng	#	95
38) Benzo(k)fluoranthene	22.418	252	14430	0.509	ng		95
39) Benzo(a)pyrene	22.942	252	8861	0.374	ng	#	88
40) Dibenzo(a,h)anthracene	25.076	278	7792	0.321	ng		92
41) Benzo(g,h,i)perylene	25.661	276	10218	0.403	ng		99

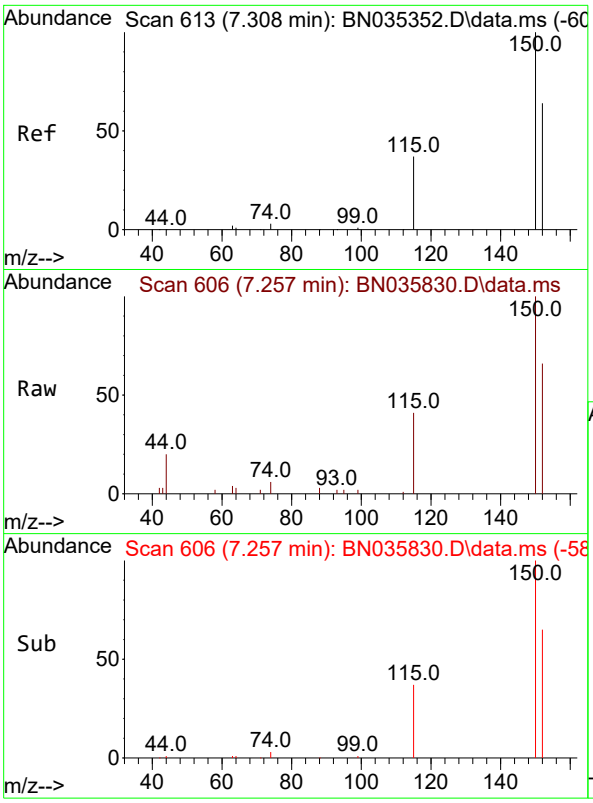
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035830.D
Acq On : 24 Dec 2024 20:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



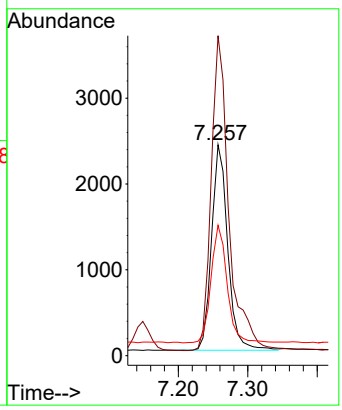


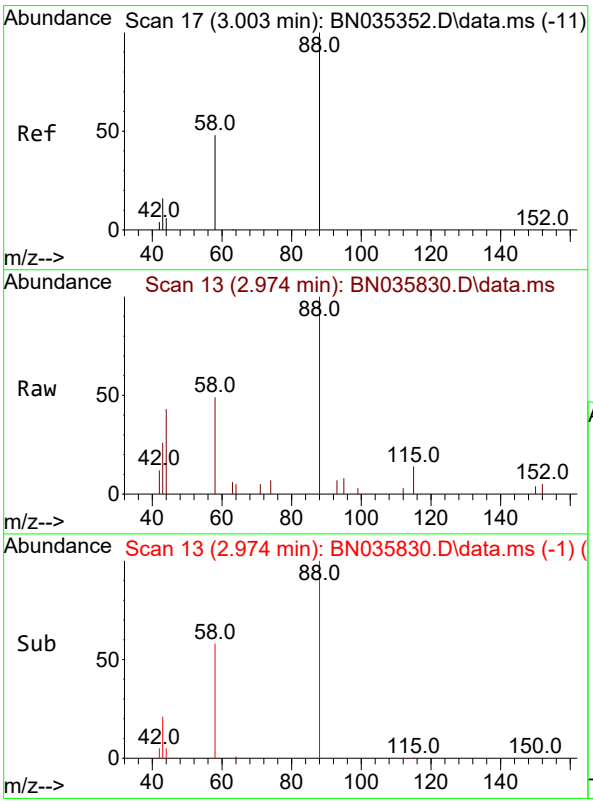
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3866

Ion	Ratio	Lower	Upper
152	100		
150	151.7	124.0	186.0
115	61.8	49.6	74.4

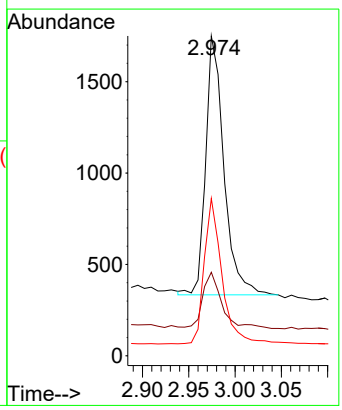


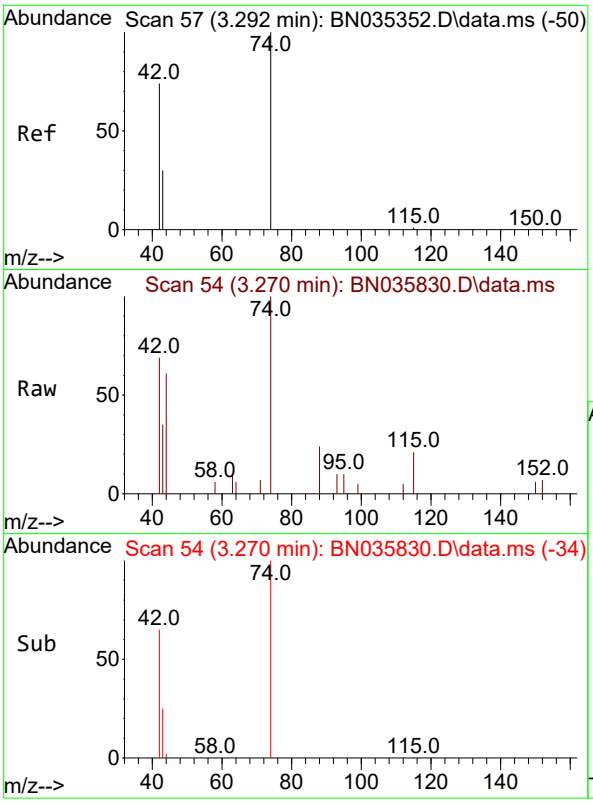


#2
1,4-Dioxane
Concen: 0.525 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 88 Resp: 1940

Ion	Ratio	Lower	Upper
88	100		
43	22.6	17.2	25.8
58	55.1	44.5	66.7



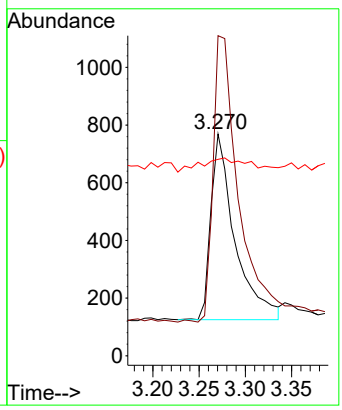


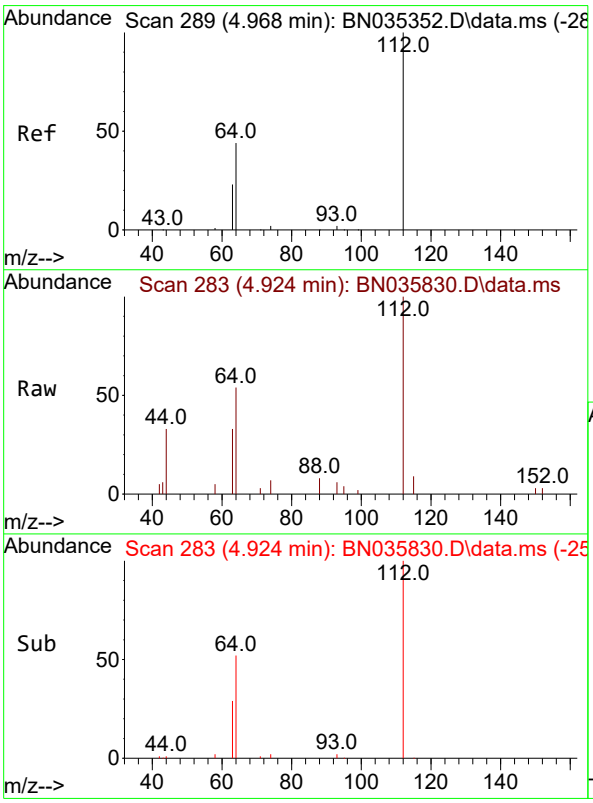
#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1162

Ion	Ratio	Lower	Upper
42	100		
74	177.6	124.9	187.3
44	15.8	2.2	3.4#

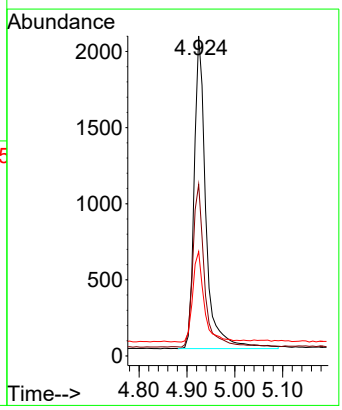


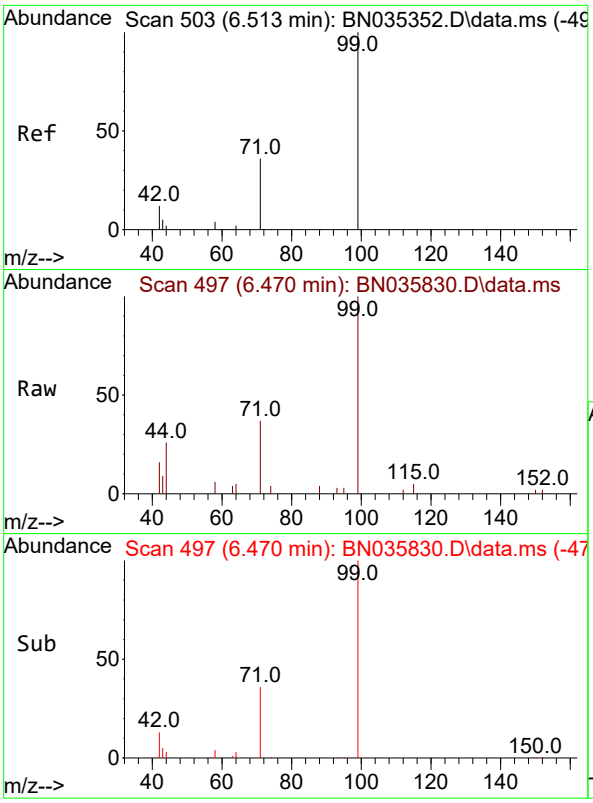


#4
2-Fluorophenol
Concen: 0.363 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:112 Resp: 3514

Ion	Ratio	Lower	Upper
112	100		
64	50.9	39.8	59.8
63	27.9	21.0	31.6



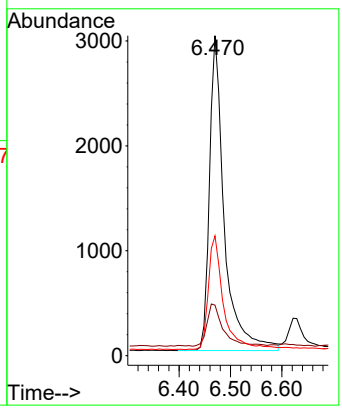


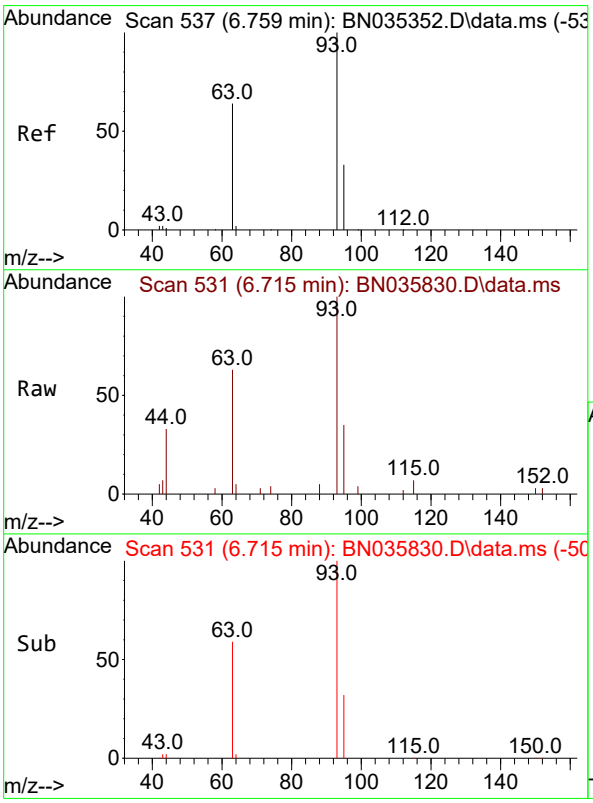
#5
Phenol-d6
Concen: 0.516 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 6003

Ion	Ratio	Lower	Upper
99	100		
42	14.8	11.4	17.2
71	37.8	29.3	43.9

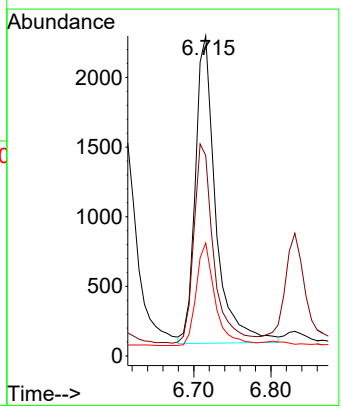


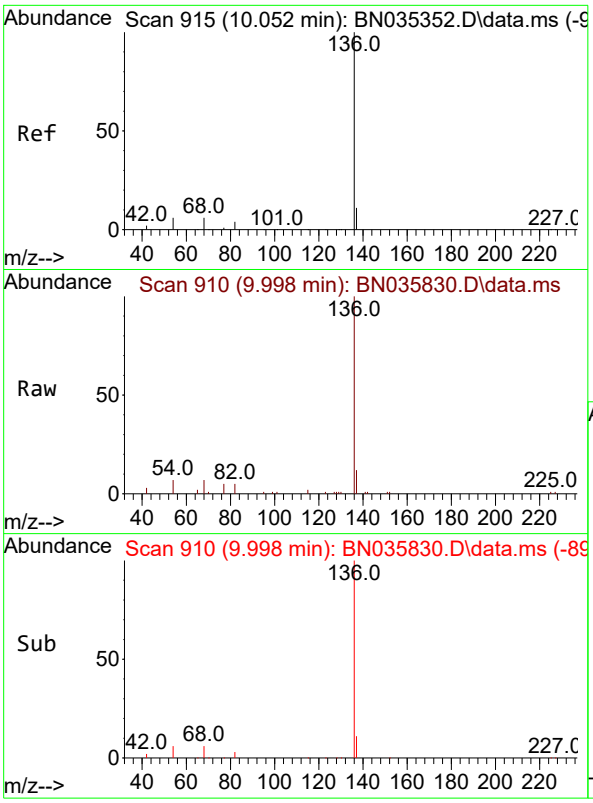


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 93 Resp: 4053

Ion	Ratio	Lower	Upper
93	100		
63	63.1	50.4	75.6
95	31.0	25.7	38.5



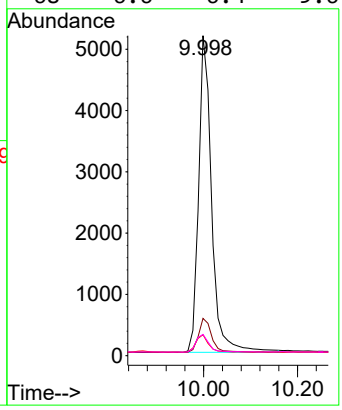


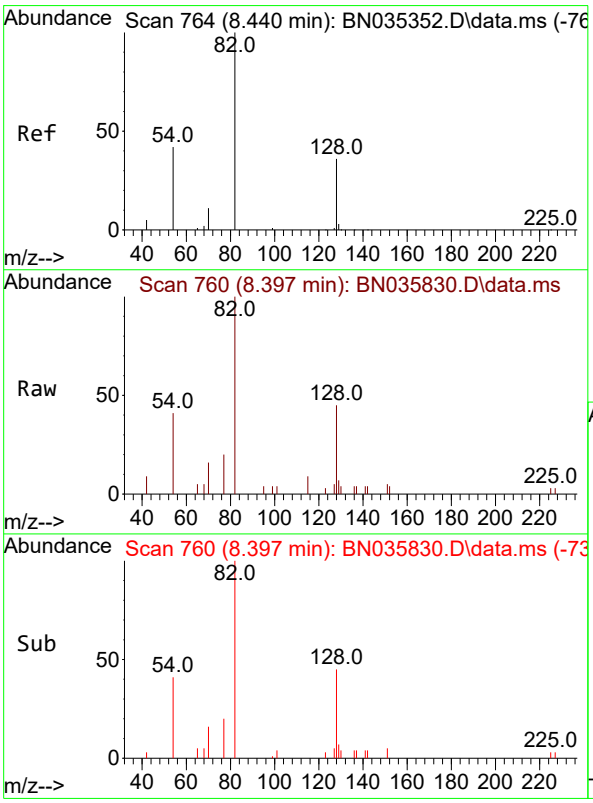
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 9955

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	6.6	6.1	9.1
68	6.6	6.4	9.6

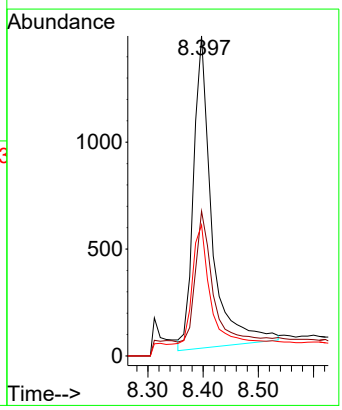


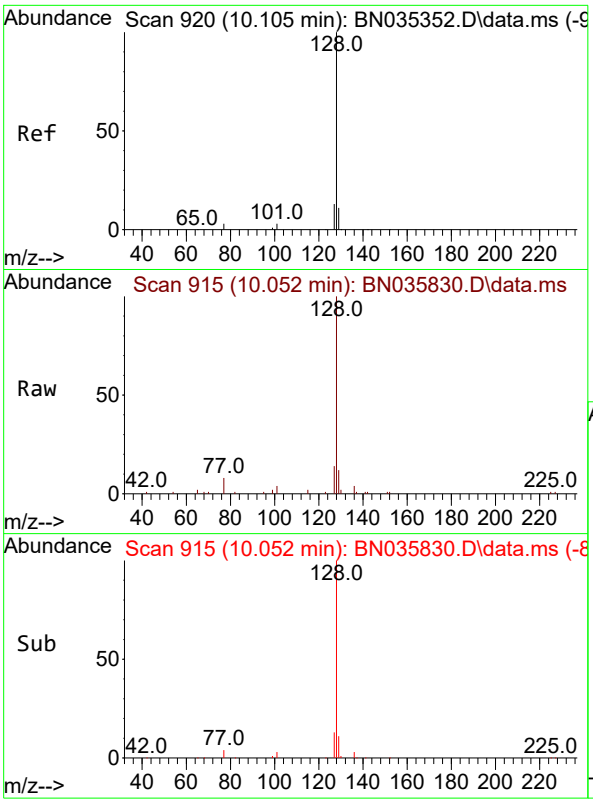


#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion: 82 Resp: 3360

Ion	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.9	36.7	55.1



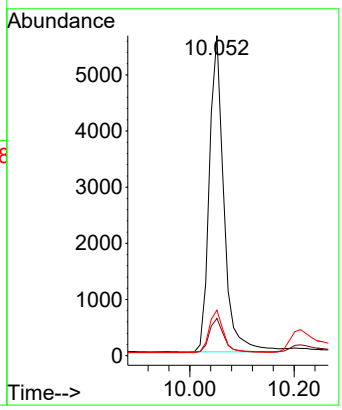


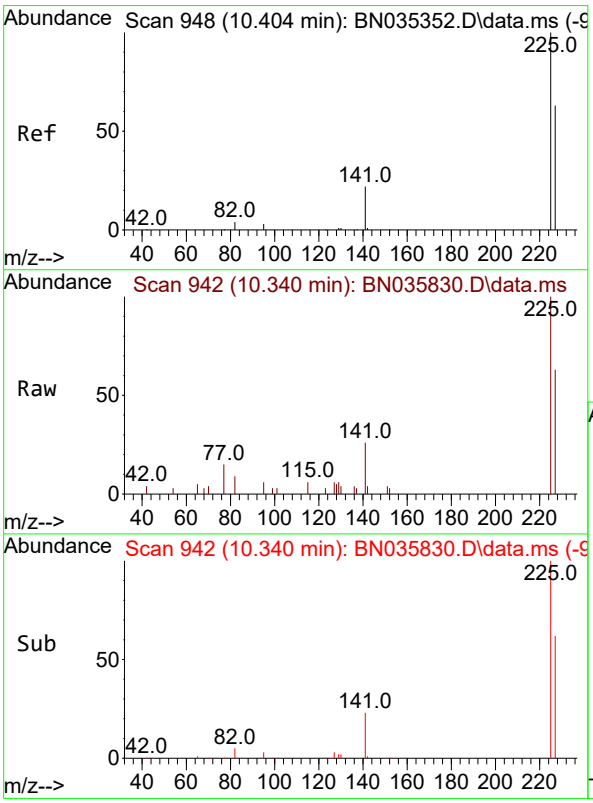
#9
Naphthalene
Concen: 0.413 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 10855

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

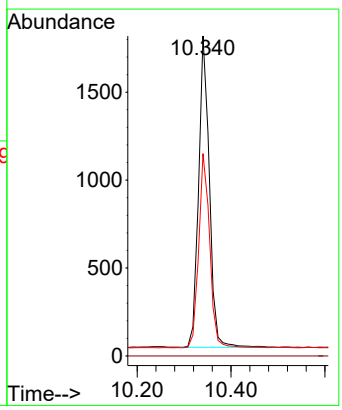


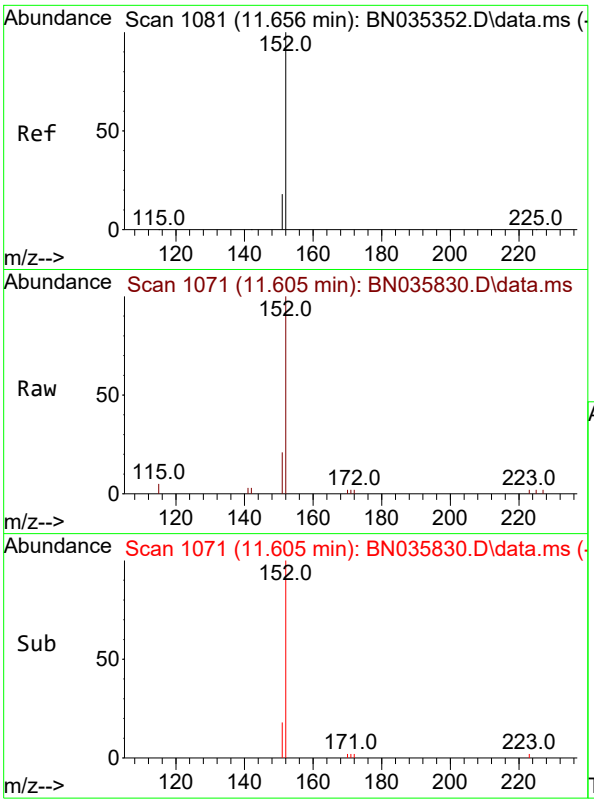


#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:225 Resp: 2815

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



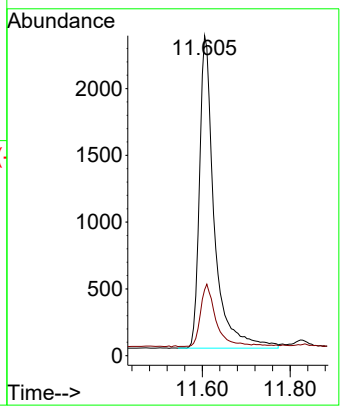


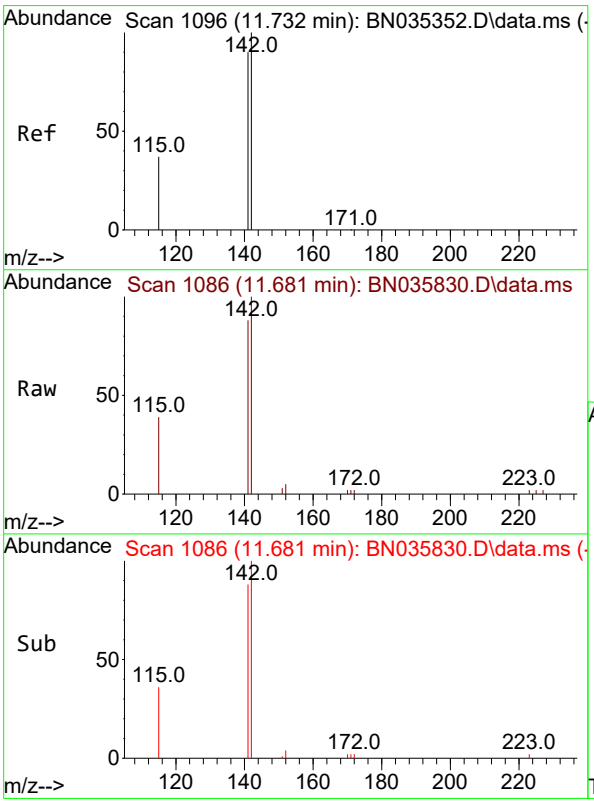
#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5482

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0

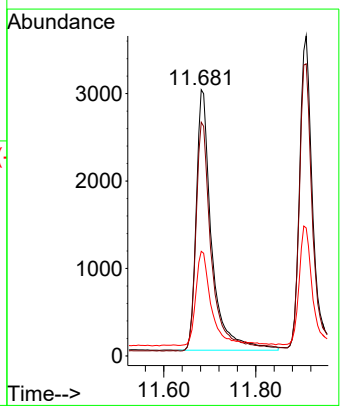


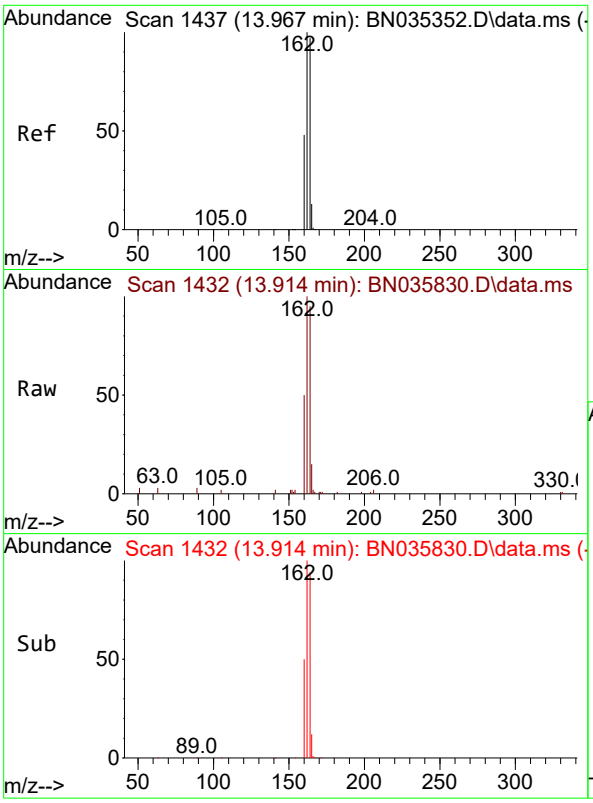


#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:142 Resp: 6938

Ion	Ratio	Lower	Upper
142	100		
141	87.8	72.2	108.4
115	39.3	31.4	47.0



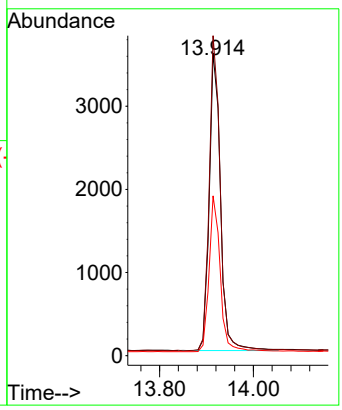


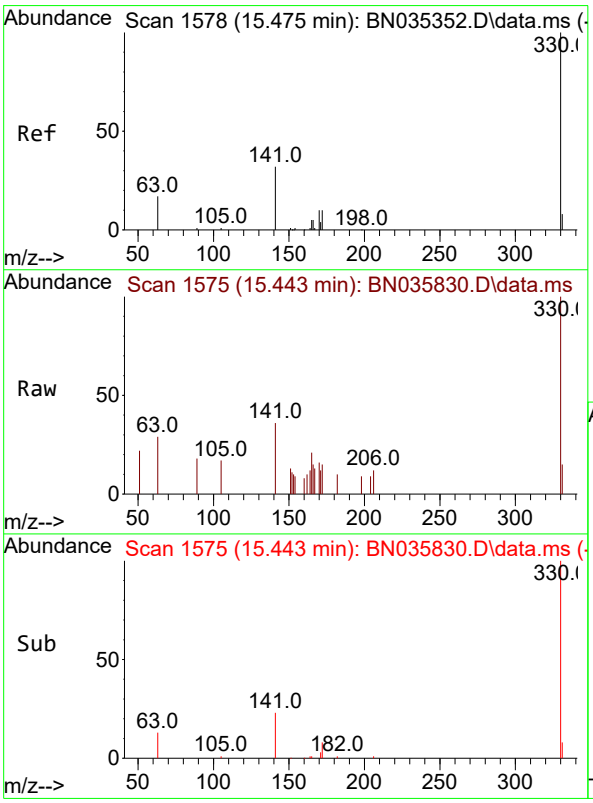
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5956

Ion	Ratio	Lower	Upper
164	100		
162	105.8	82.2	123.2
160	52.9	40.1	60.1

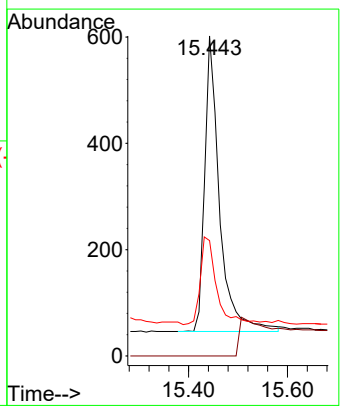


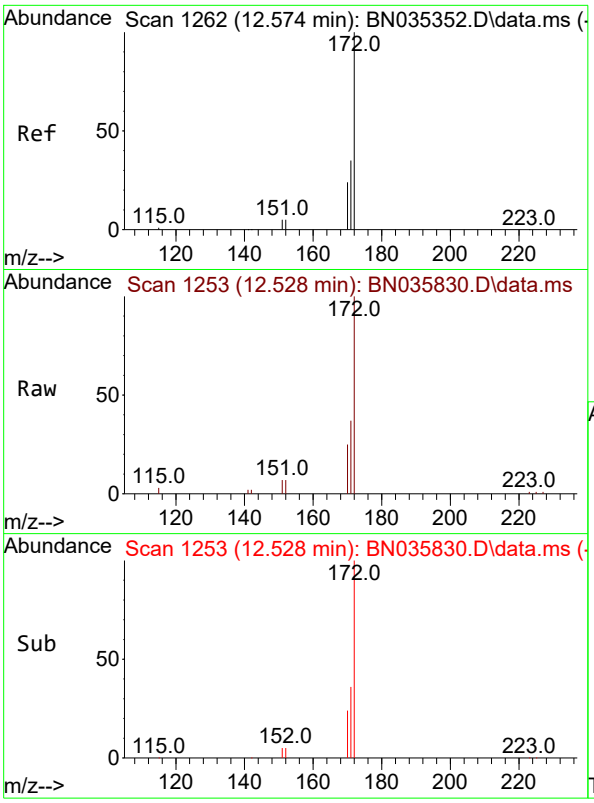


#14
2,4,6-Tribromophenol
Concen: 0.285 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:330 Resp: 1203

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0



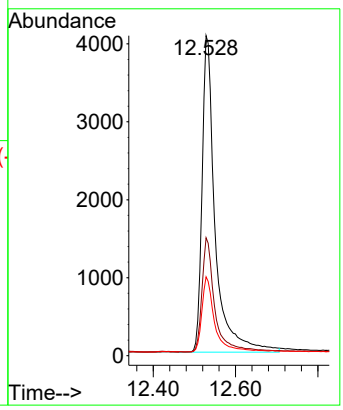


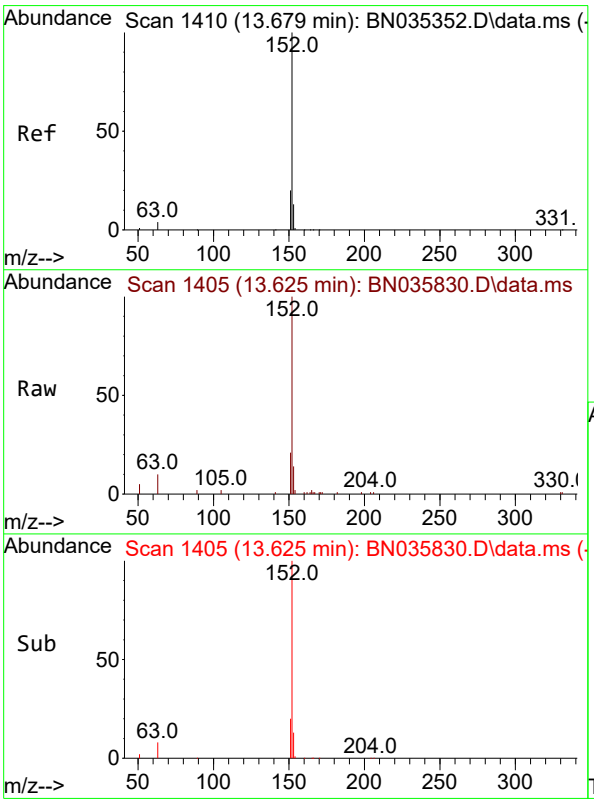
#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 9033

Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.0	43.4
170	24.7	19.8	29.8

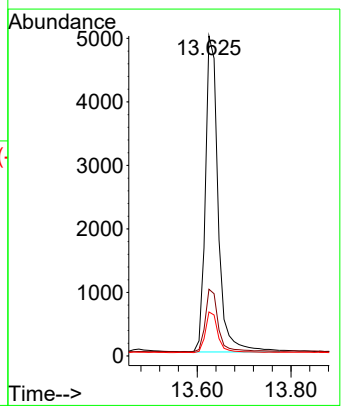


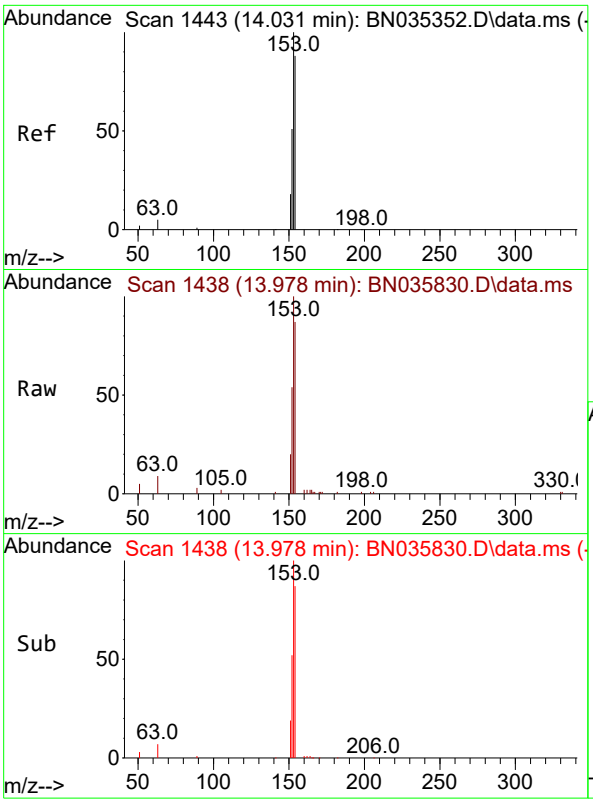


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:152 Resp: 9384

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	12.7	10.4	15.6



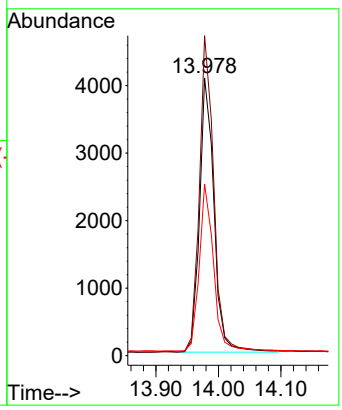


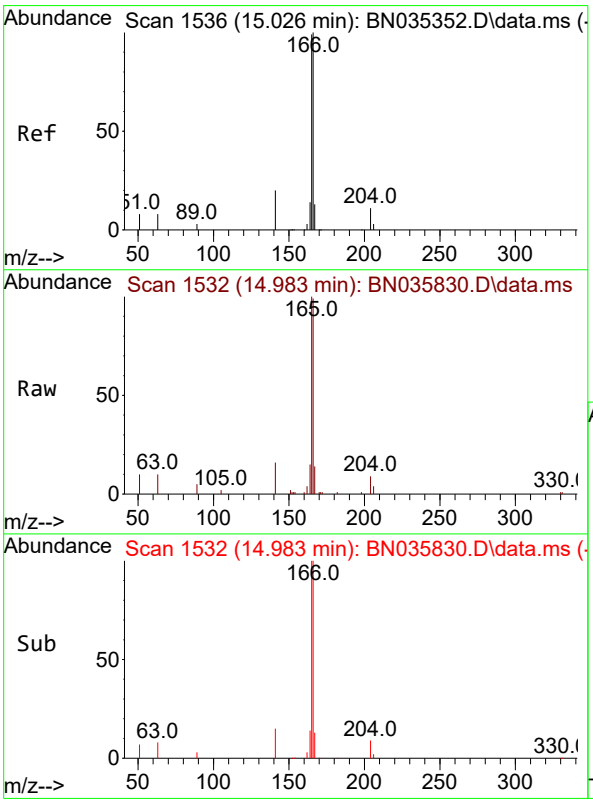
#17
Acenaphthene
Concen: 0.393 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 6532

Ion	Ratio	Lower	Upper
154	100		
153	115.7	92.6	139.0
152	60.6	49.0	73.6

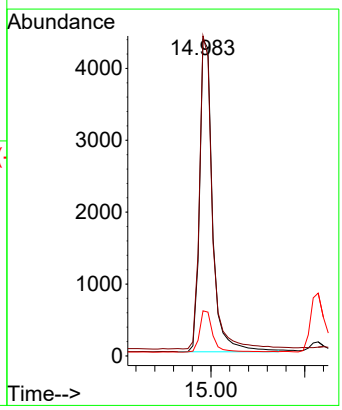


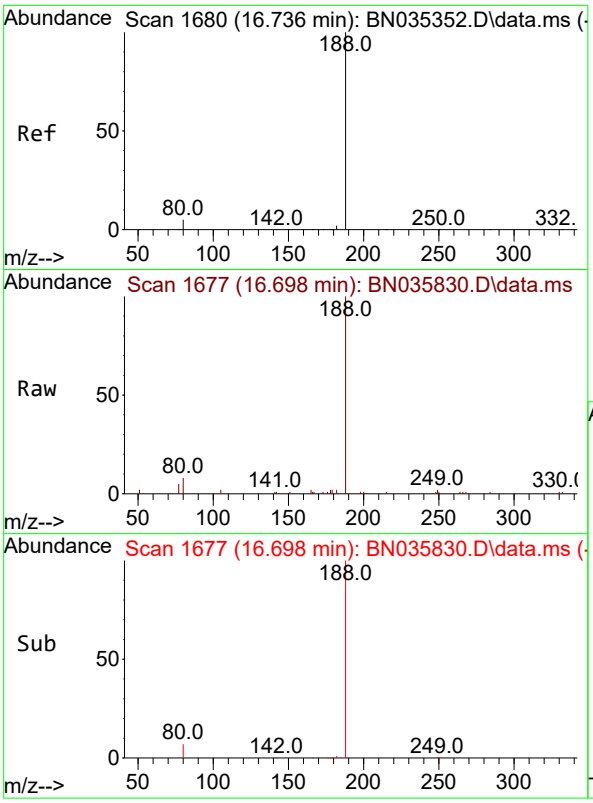


#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:166 Resp: 8318

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.4	10.8	16.2



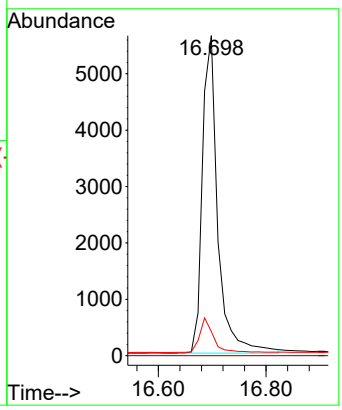


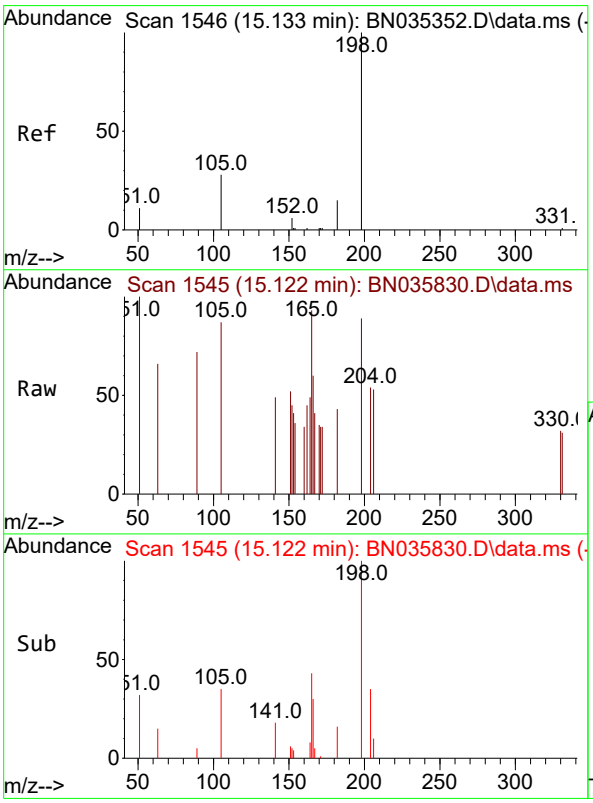
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 11143

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.6	4.6	6.8#

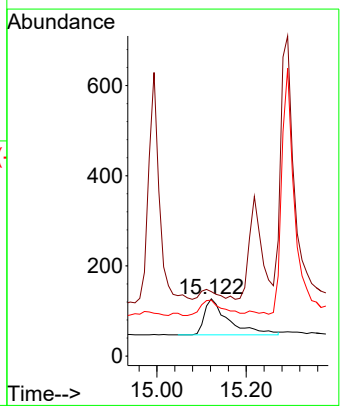


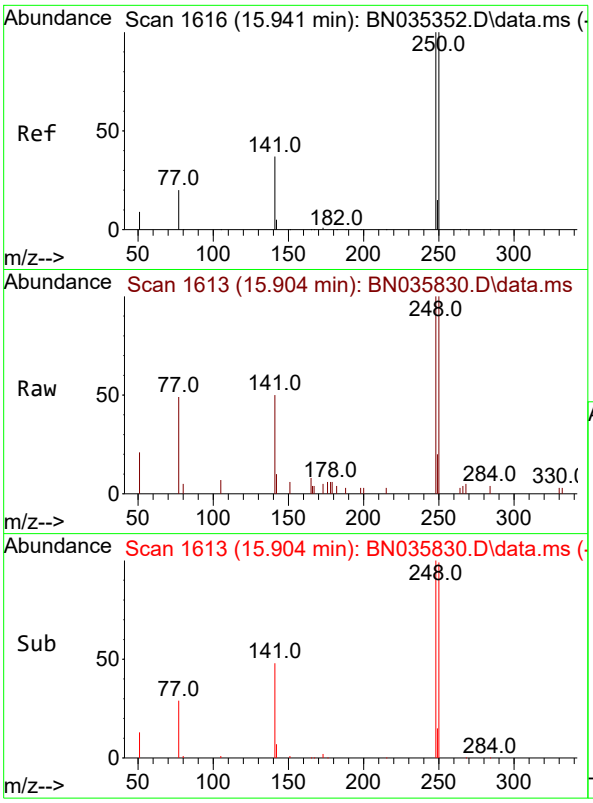


#20
4,6-Dinitro-2-methylphenol
Concen: 0.275 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:198 Resp: 301

Ion	Ratio	Lower	Upper
198	100		
51	112.6	46.5	69.7#
105	97.6	45.3	67.9#



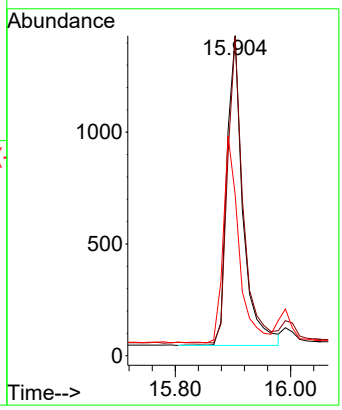


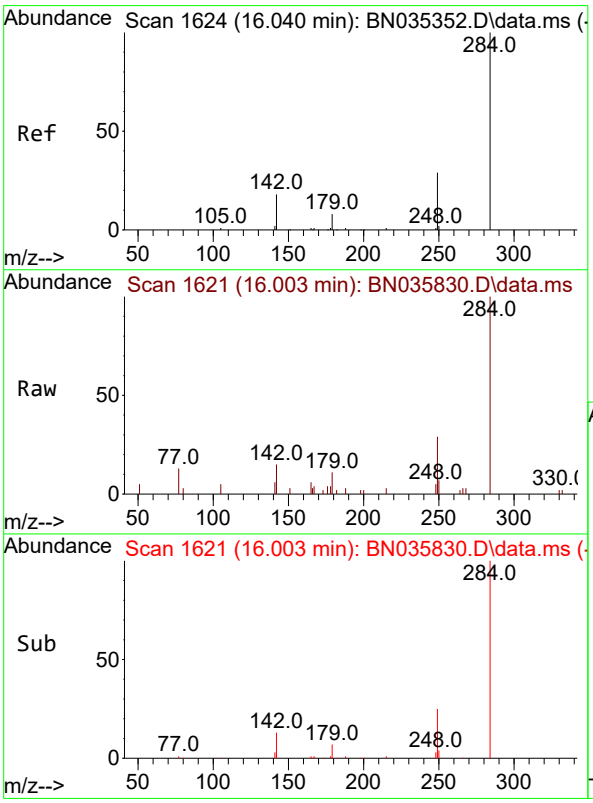
#21
4-Bromophenyl-phenylether
Concen: 0.411 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2677

Ion	Ratio	Lower	Upper
248	100		
250	99.7	80.6	120.8
141	50.3	31.5	47.3#

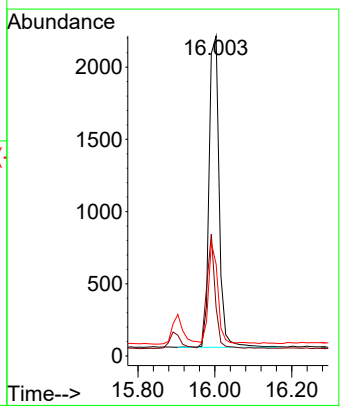


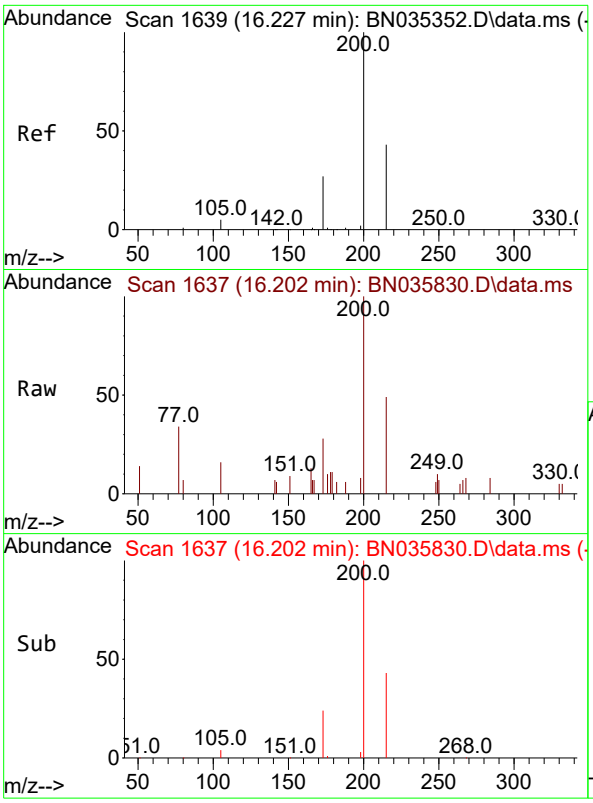


#22
Hexachlorobenzene
Concen: 0.510 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:284 Resp: 3900

Ion	Ratio	Lower	Upper
284	100		
142	30.4	26.7	40.1
249	29.3	24.6	36.8



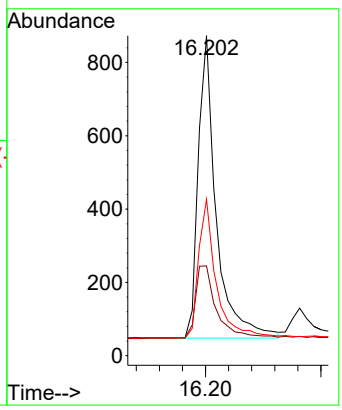


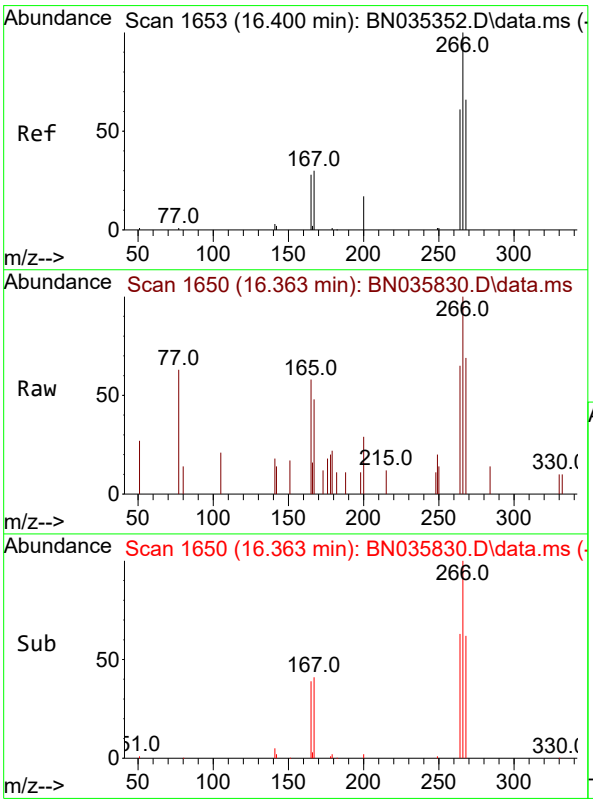
#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1790

Ion	Ratio	Lower	Upper
200	100		
173	28.1	24.1	36.1
215	48.9	36.9	55.3

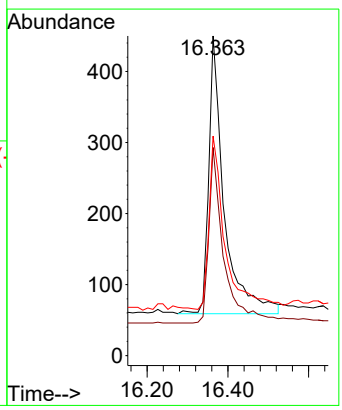


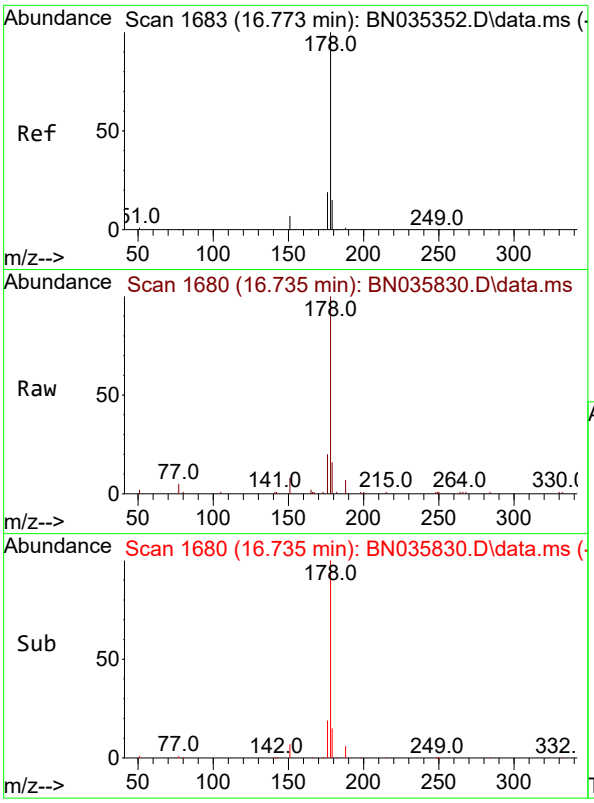


#24
Pentachlorophenol
Concen: 0.310 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:266 Resp: 1032

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	63.5	43.3	64.9



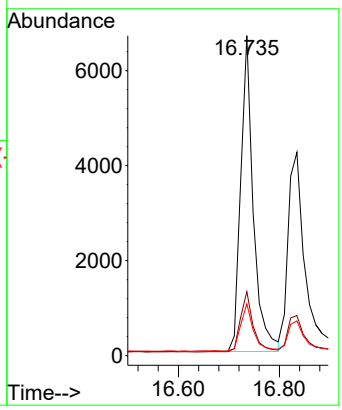


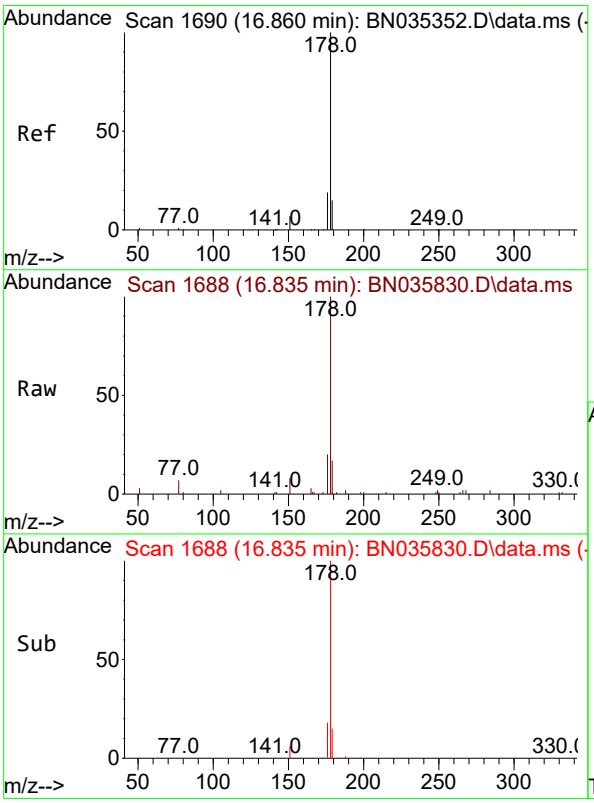
#25
Phenanthrene
Concen: 0.376 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 11523

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.6	12.3	18.5

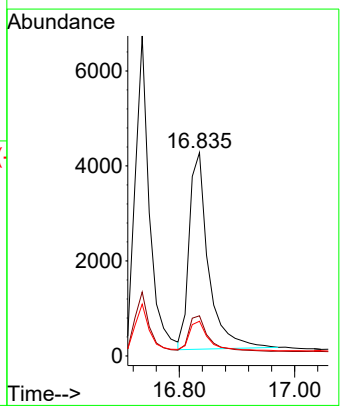


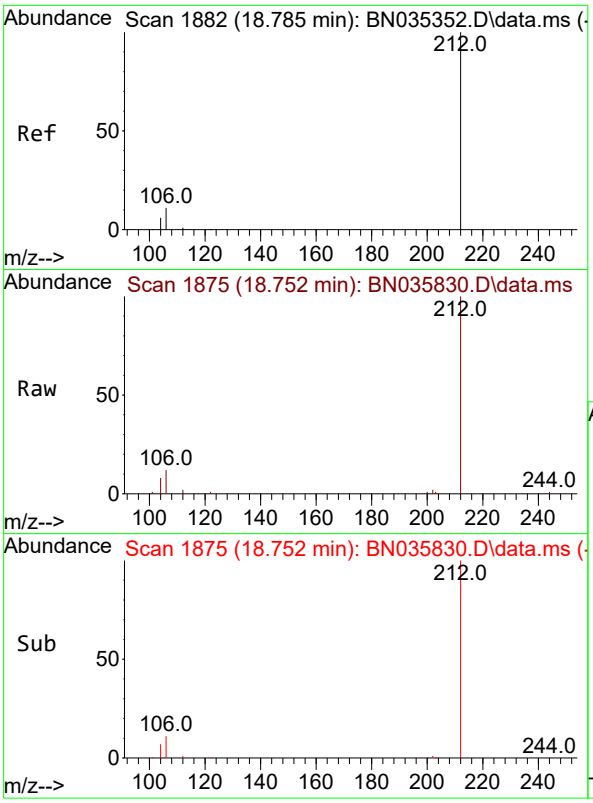


#26
Anthracene
Concen: 0.346 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:178 Resp: 9576

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.6	12.6	18.8



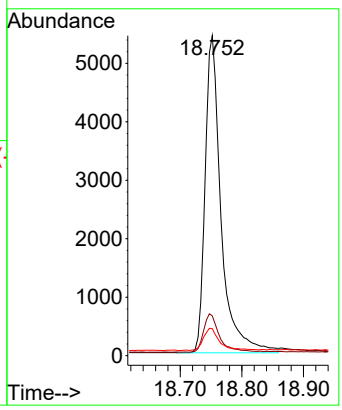


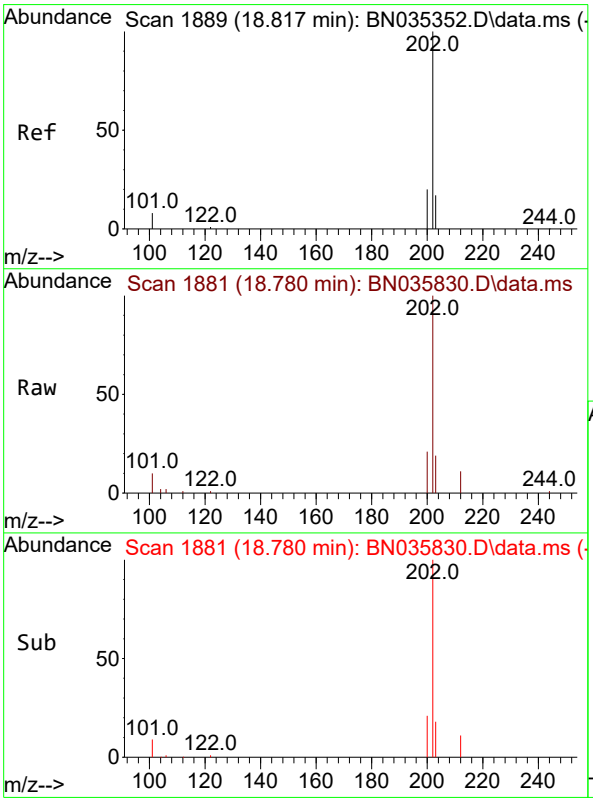
#27
Fluoranthene-d10
Concen: 0.308 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 9737

Ion	Ratio	Lower	Upper
212	100		
106	12.0	9.2	13.8
104	7.3	5.3	7.9

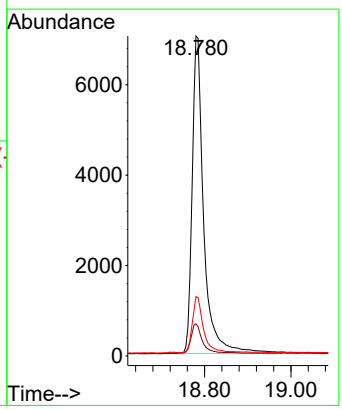


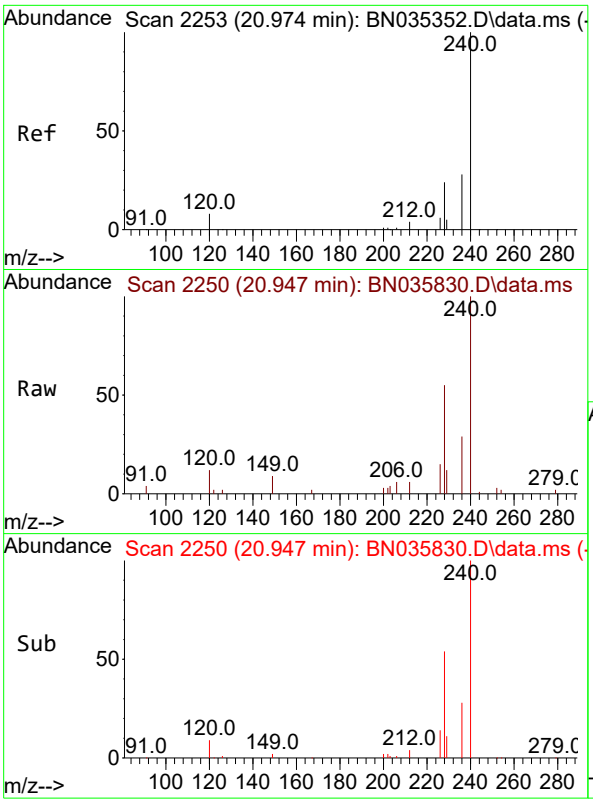


#28
Fluoranthene
Concen: 0.316 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13046

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	17.0	13.7	20.5



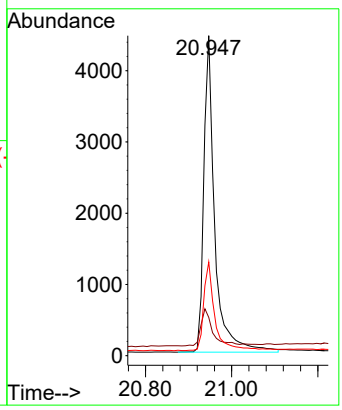


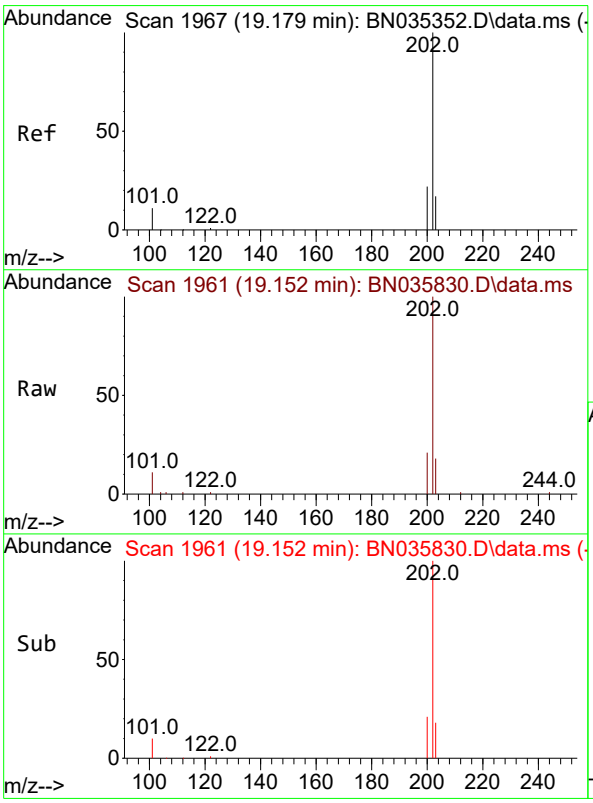
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 7851

Ion	Ratio	Lower	Upper
240	100		
120	11.9	7.9	11.9#
236	29.3	22.9	34.3

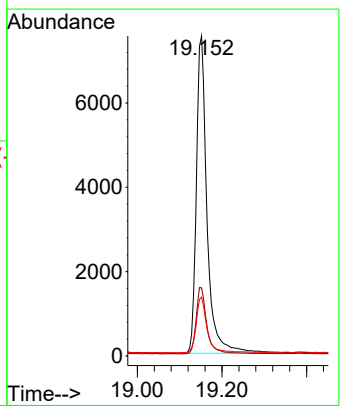


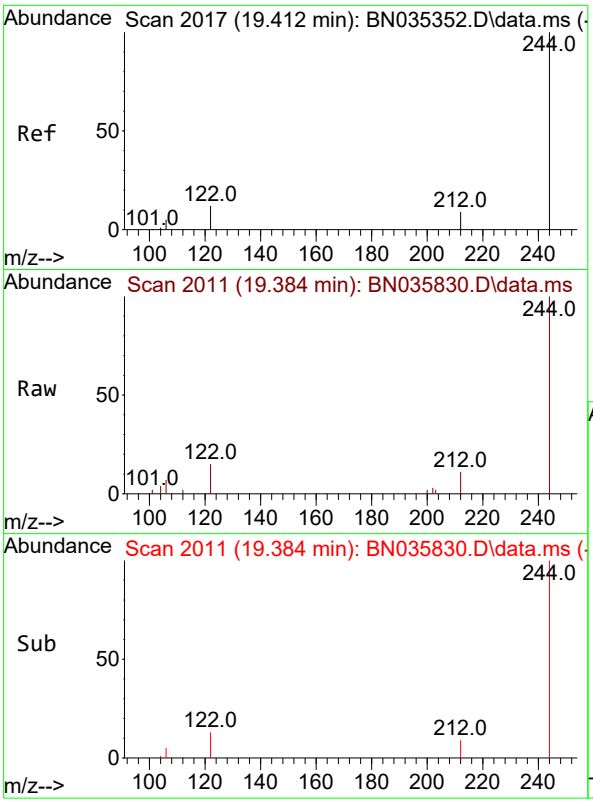


#30
Pyrene
Concen: 0.454 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:202 Resp: 13156

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.9	14.3	21.5



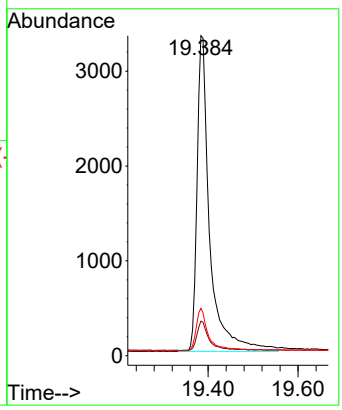


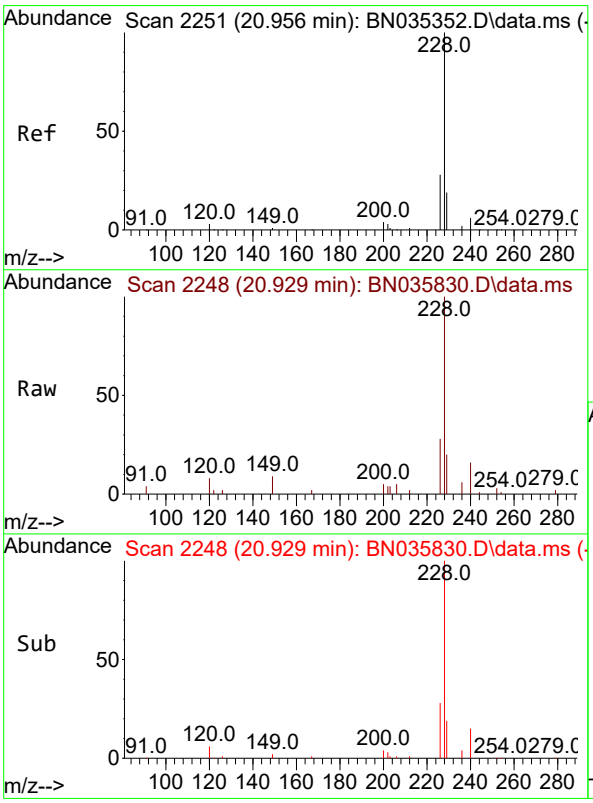
#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6543

Ion	Ratio	Lower	Upper
244	100		
212	10.8	8.1	12.1
122	14.8	10.3	15.5

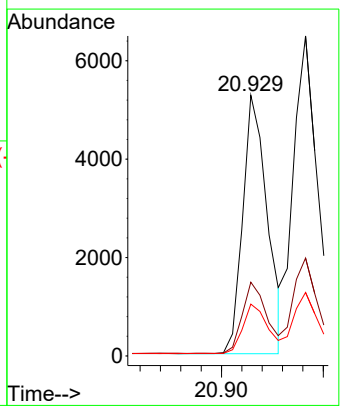


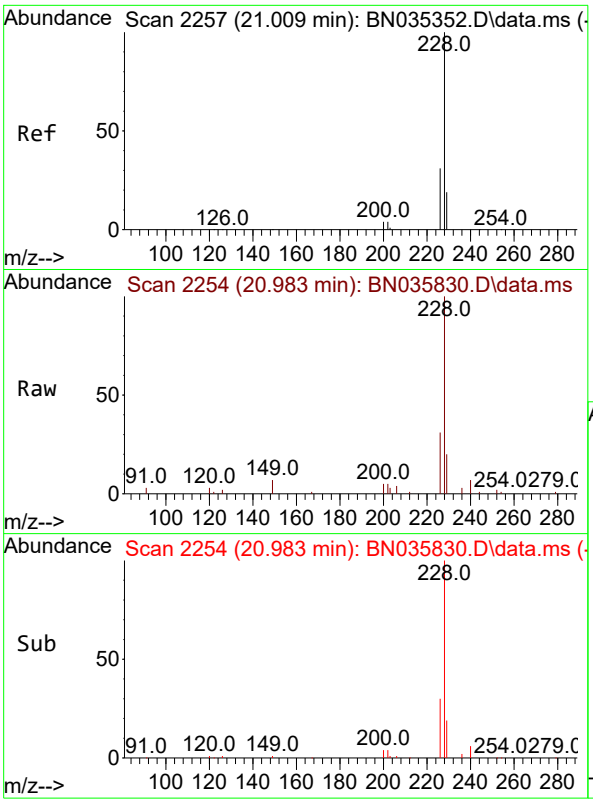


#32
Benzo(a)anthracene
Concen: 0.320 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:228 Resp: 8776

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	19.9	15.8	23.8



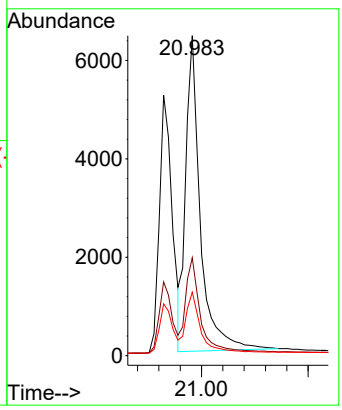


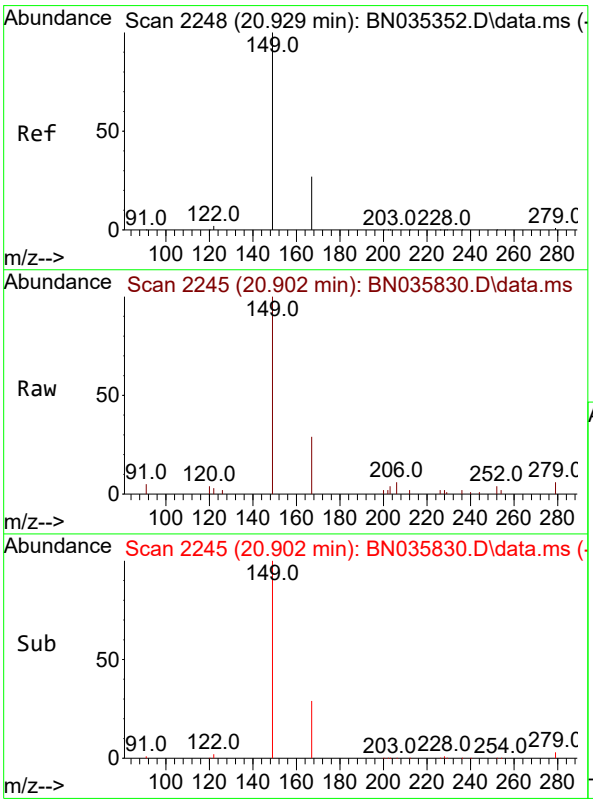
#33
Chrysene
Concen: 0.430 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 12184

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.9	15.9	23.9

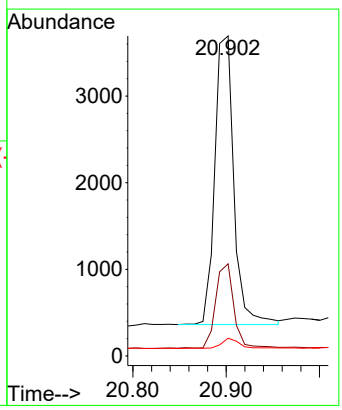


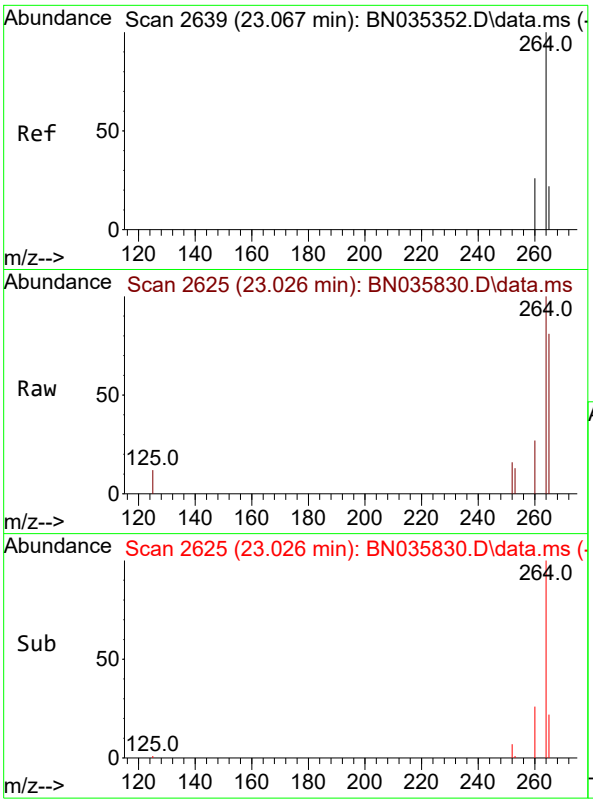


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.434 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:149 Resp: 4711

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1



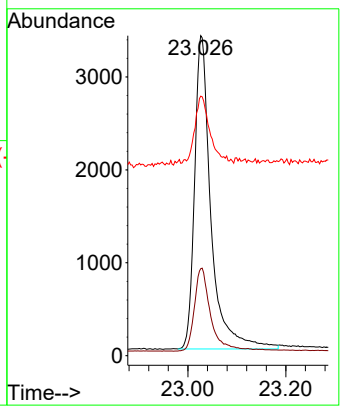


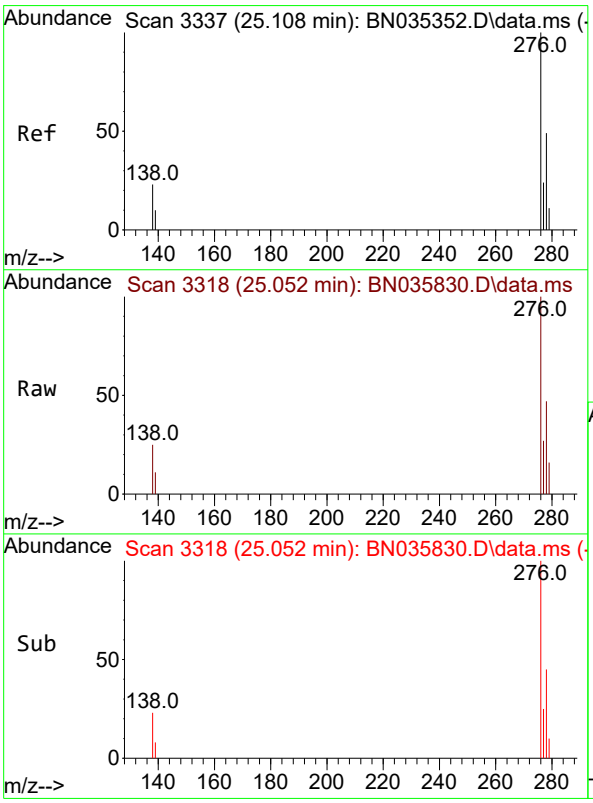
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 7870

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	81.1	40.2	60.4#

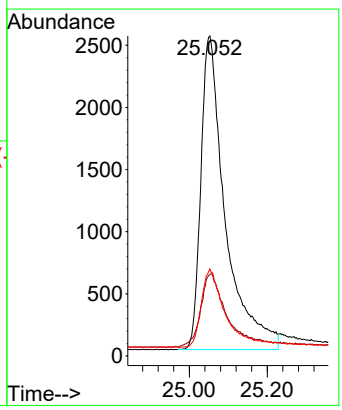


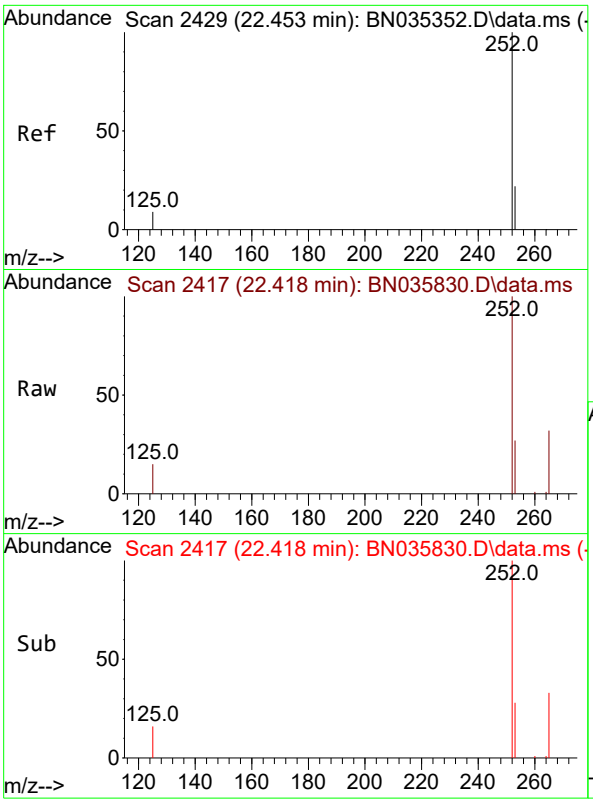


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:276 Resp: 10972

Ion	Ratio	Lower	Upper
276	100		
138	24.1	19.4	29.0
277	23.8	19.8	29.6



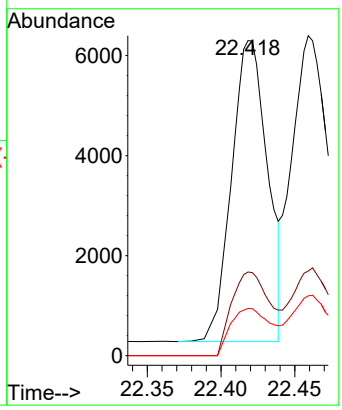


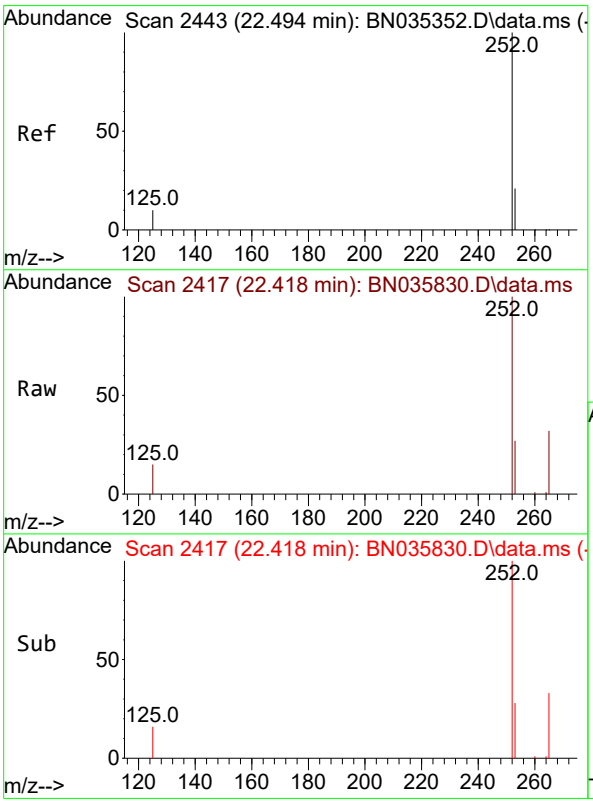
#37
Benzo(b)fluoranthene
Concen: 0.501 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 14430

Ion	Ratio	Lower	Upper
252	100		
253	26.6	19.6	29.4
125	15.0	9.6	14.4#

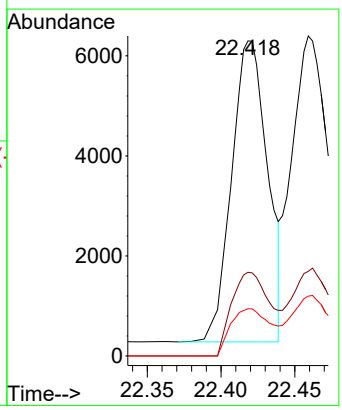


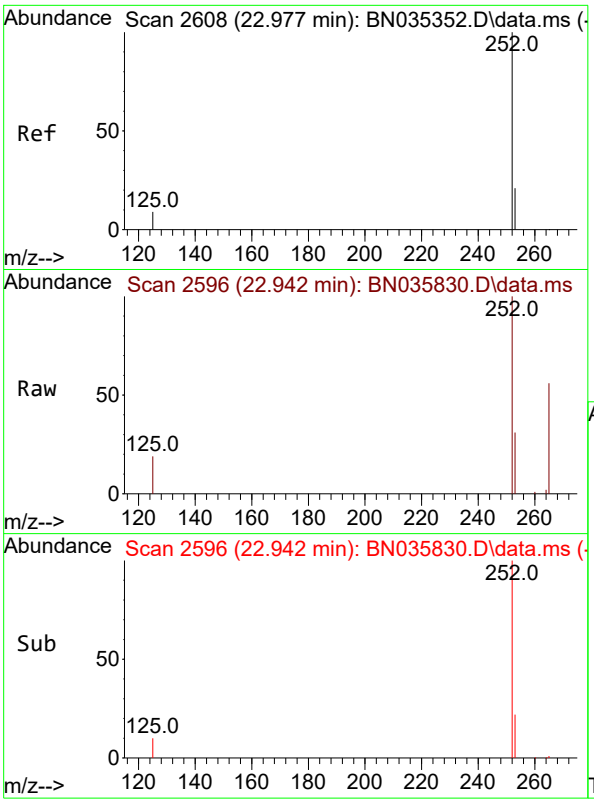


#38
Benzo(k)fluoranthene
Concen: 0.509 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:252 Resp: 14430

Ion	Ratio	Lower	Upper
252	100		
253	26.6	19.5	29.3
125	15.0	10.2	15.4



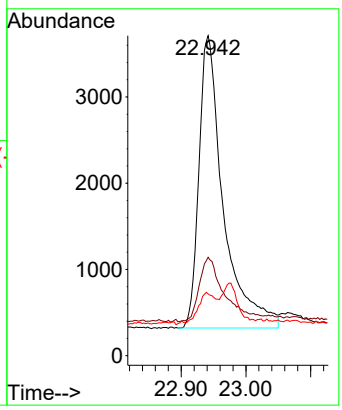


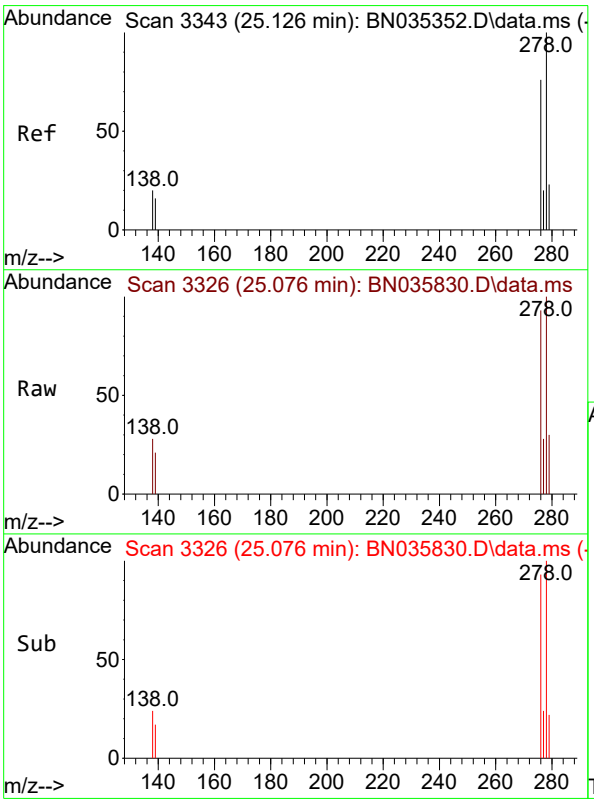
#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 8861

Ion	Ratio	Lower	Upper
252	100		
253	30.7	20.2	30.4#
125	19.3	10.9	16.3#

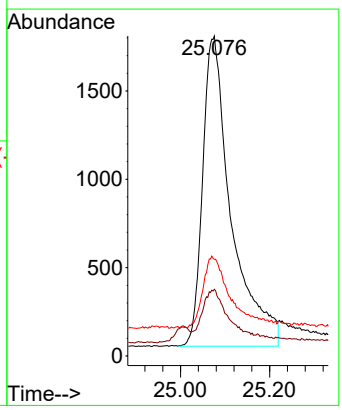


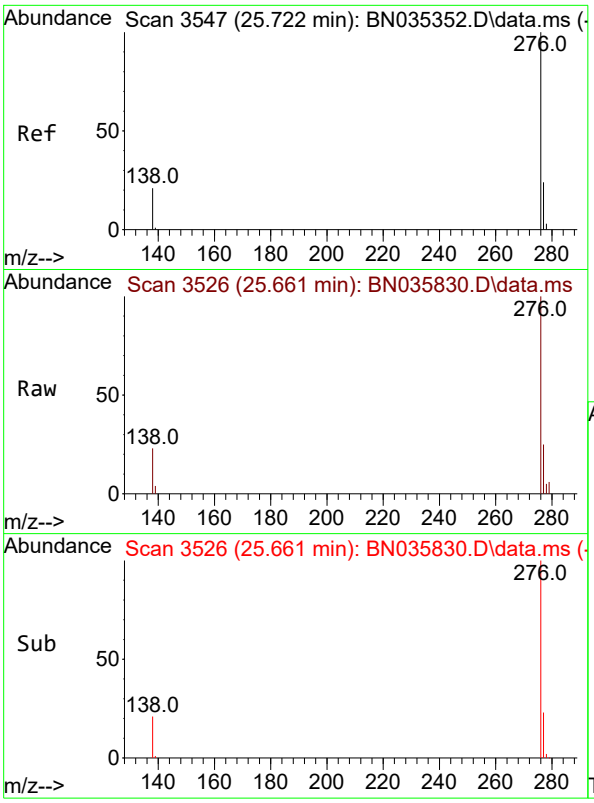


#40
Dibenzo(a,h)anthracene
Concen: 0.321 ng
RT: 25.076 min Scan# 3326
Delta R.T. -0.006 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Tgt Ion:278 Resp: 7792

Ion	Ratio	Lower	Upper
278	100		
139	20.9	14.2	21.4
279	30.2	20.5	30.7



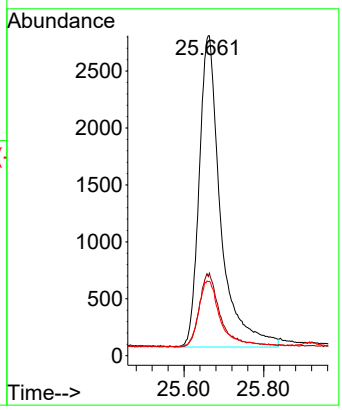


#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.661 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN035830.D
Acq: 24 Dec 2024 20:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 10218

Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.9	29.9
138	23.2	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3277	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7724	0.400	ng	#-0.01
13) Acenaphthene-d10	13.914	164	4815	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	10024	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8069	0.400	ng	0.00
35) Perylene-d12	23.026	264	7784	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	965	0.118	ng	-0.01
5) Phenol-d6	6.477	99	504	0.051	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2228	0.472	ng	0.00
11) 2-Methylnaphthalene-d10	11.605	152	4512	0.373	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	723	0.212	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	7112	0.391	ng	-0.02
27) Fluoranthene-d10	18.747	212	11675	0.411	ng	-0.01
31) Terphenyl-d14	19.375	244	8422	0.529	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	506	0.162	ng	# 77
25) Phenanthrene	16.736	178	582	0.021	ng	# 92
26) Anthracene	16.736	178	569	0.023	ng	94
34) Bis(2-ethylhexyl)phtha...	20.893	149	981	0.088	ng	# 98

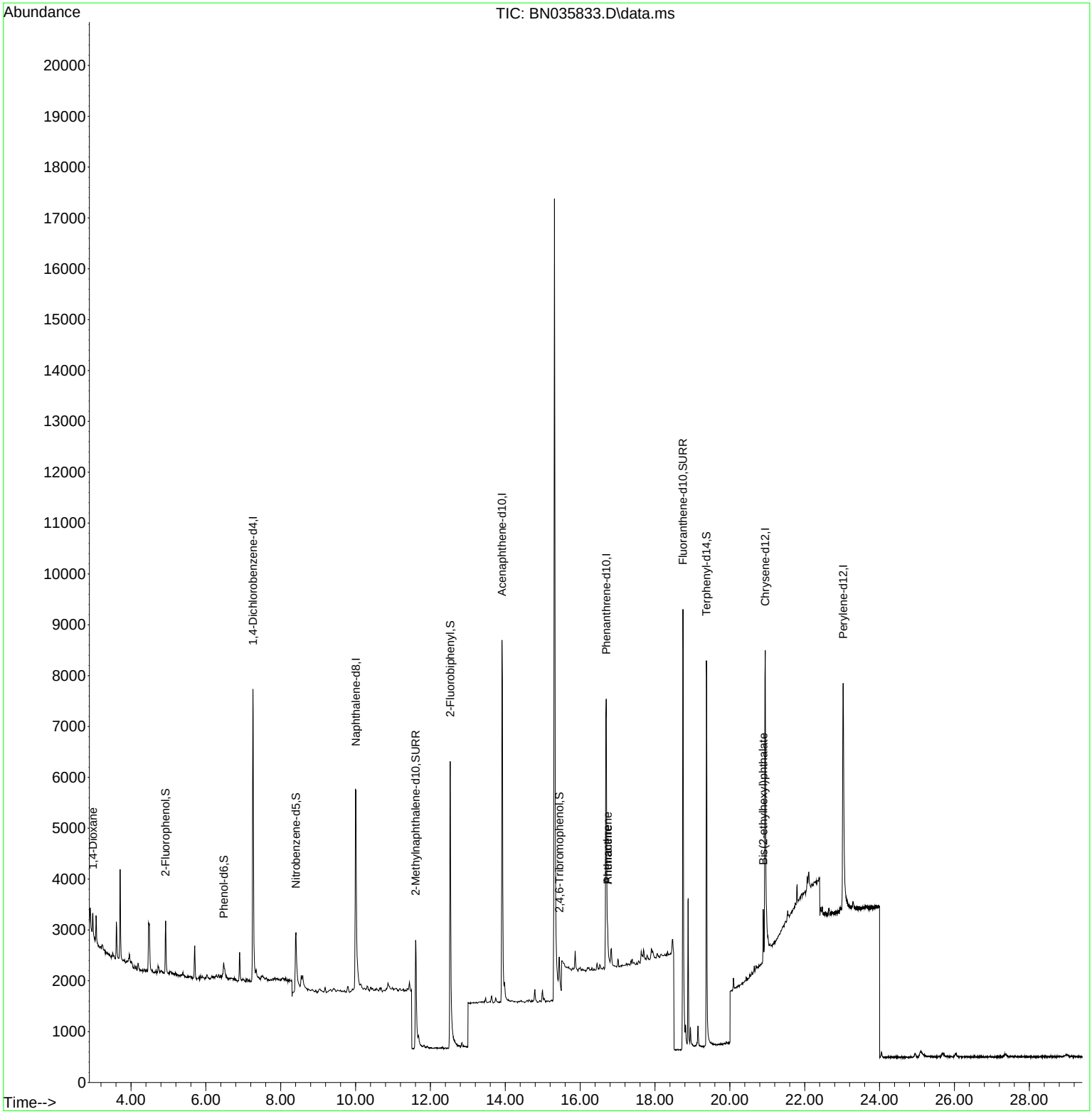
(#) = qualifier out of range (m) = manual integration (+) = signals summed

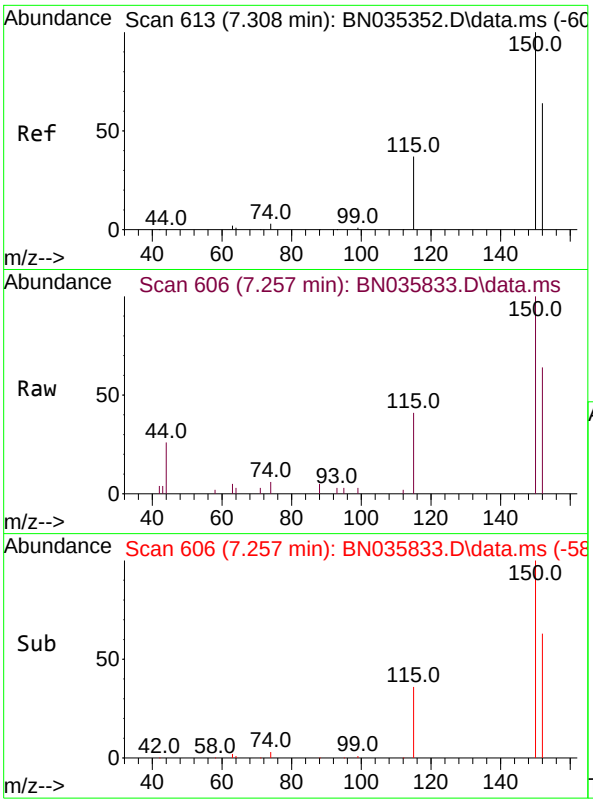
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035833.D
Acq On : 24 Dec 2024 23:18
Operator : RC/JU
Sample : P5376-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Quant Time: Dec 25 02:35:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



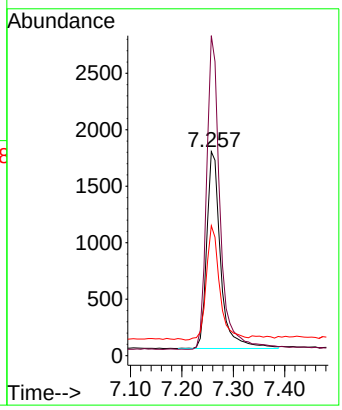


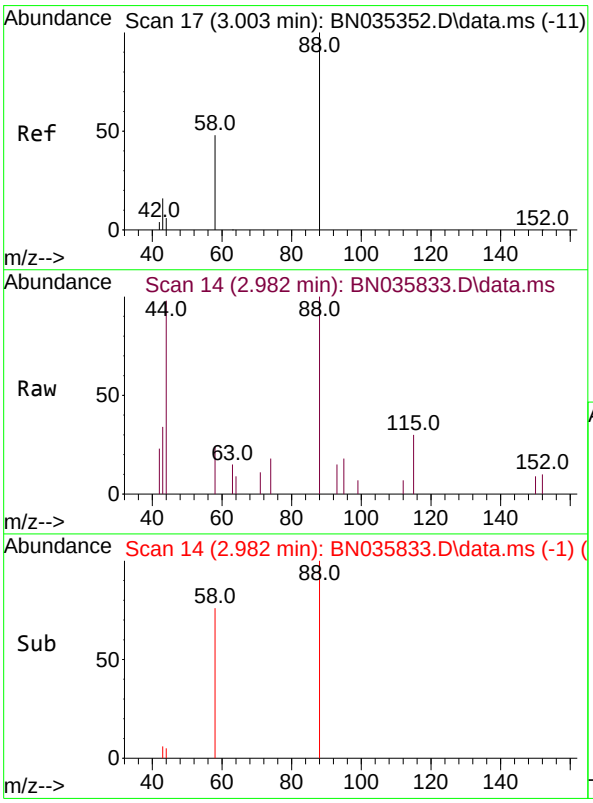
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Tgt Ion:152 Resp: 3277

Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.0	186.0
115	63.7	49.6	74.4

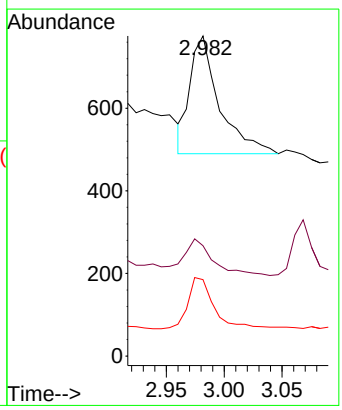


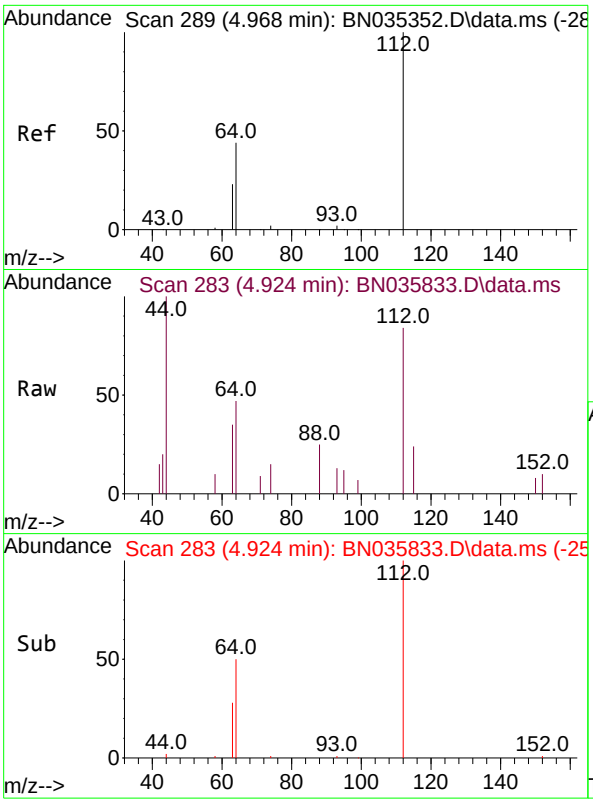


#2
1,4-Dioxane
Concen: 0.162 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 88 Resp: 506

Ion	Ratio	Lower	Upper
88	100		
43	32.0	17.2	25.8#
58	38.5	44.5	66.7#



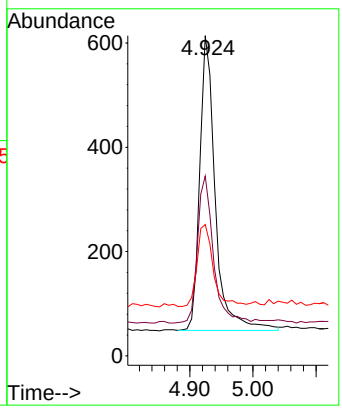


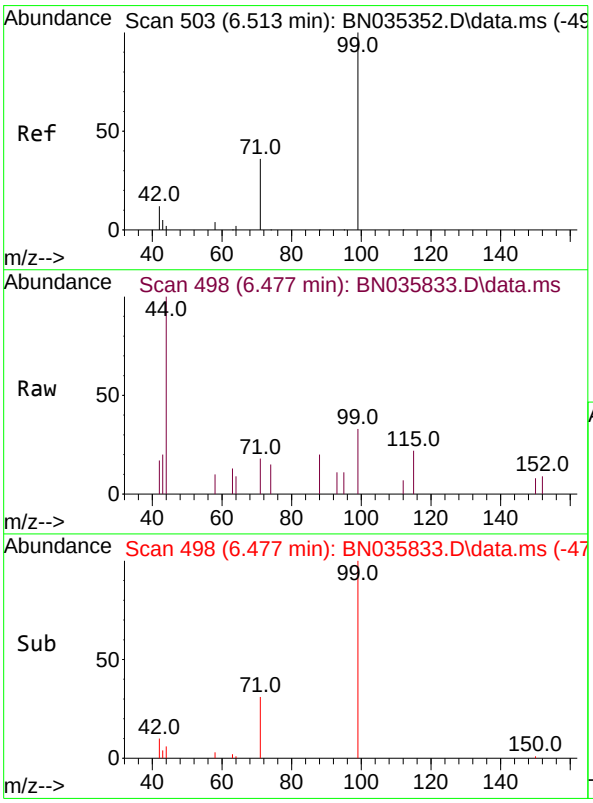
#4
2-Fluorophenol
Concen: 0.118 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Tgt Ion:112 Resp: 965

Ion	Ratio	Lower	Upper
112	100		
64	50.8	39.8	59.8
63	28.6	21.0	31.6

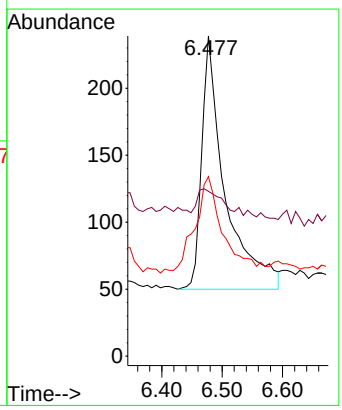


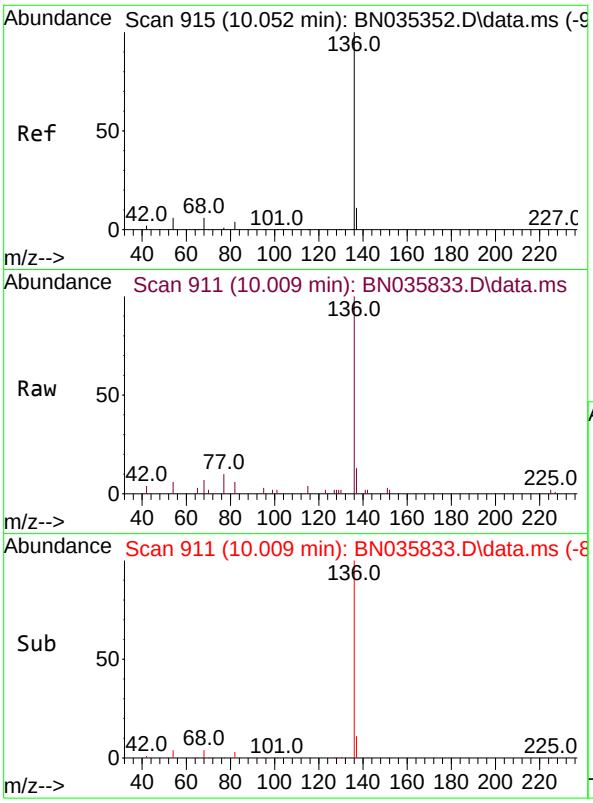


#5
Phenol-d6
Concen: 0.051 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 99 Resp: 504

Ion	Ratio	Lower	Upper
99	100		
42	12.7	11.4	17.2
71	47.0	29.3	43.9#



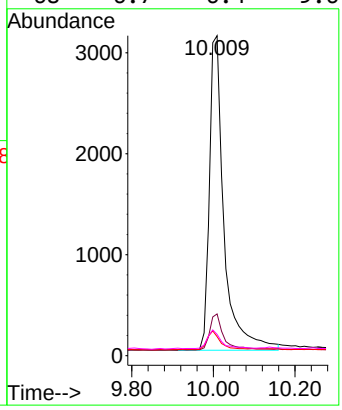


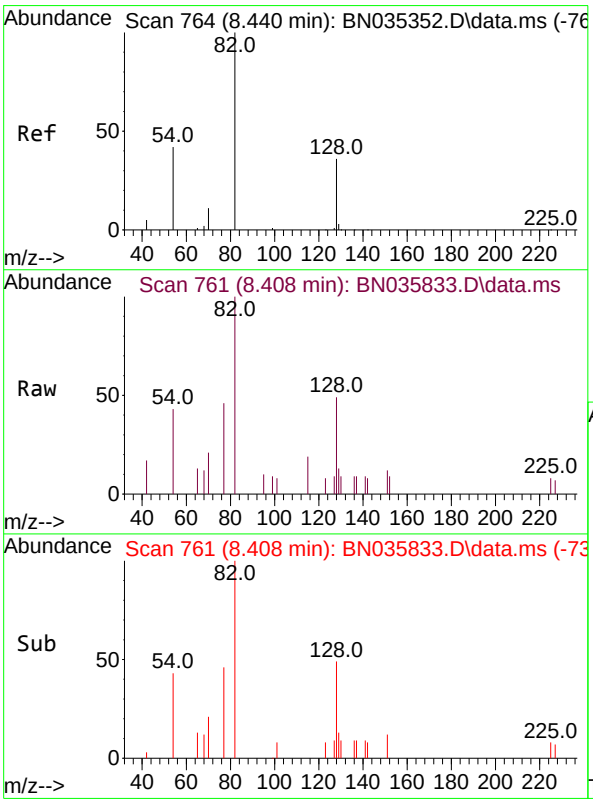
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Tgt Ion:136 Resp: 7724

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	6.0	6.1	9.1#
68	6.7	6.4	9.6

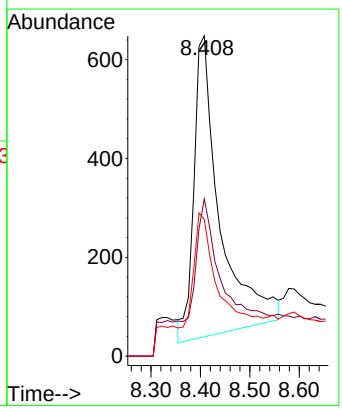


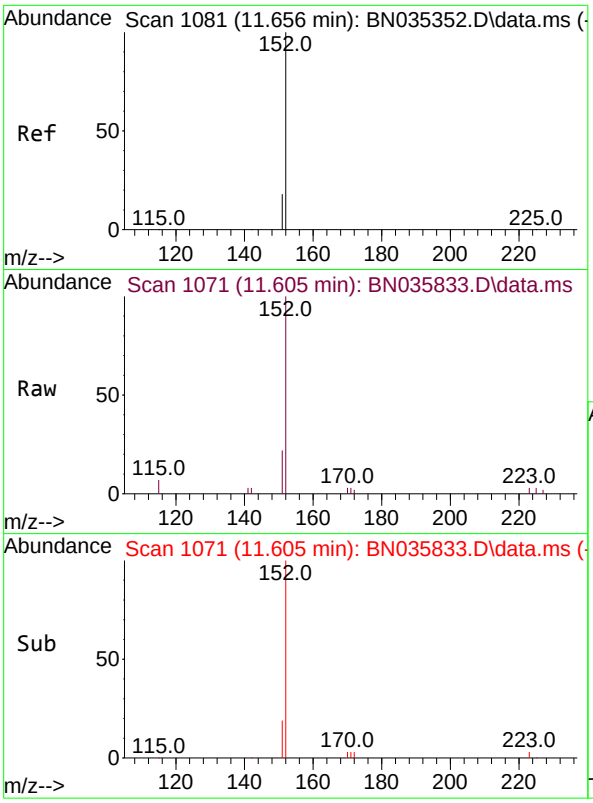


#8
Nitrobenzene-d5
Concen: 0.472 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion: 82 Resp: 2228

Ion	Ratio	Lower	Upper
82	100		
128	49.1	33.4	50.0
54	42.7	36.7	55.1



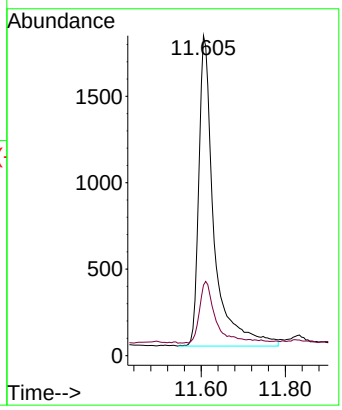


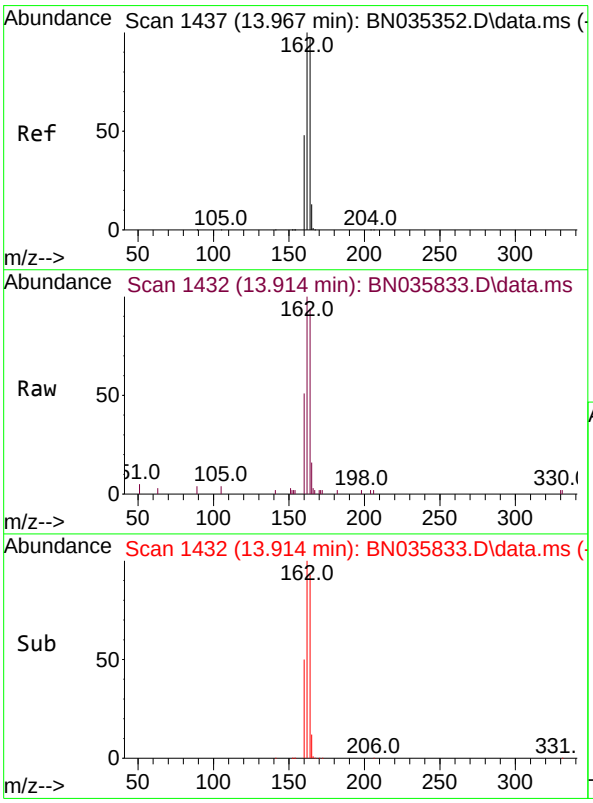
#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Tgt Ion:152 Resp: 4512

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0

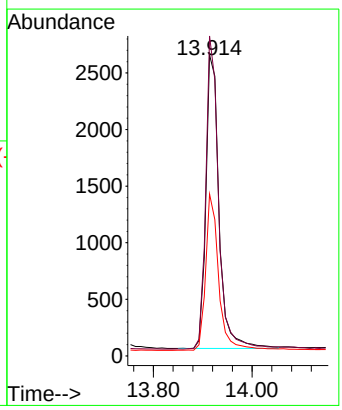


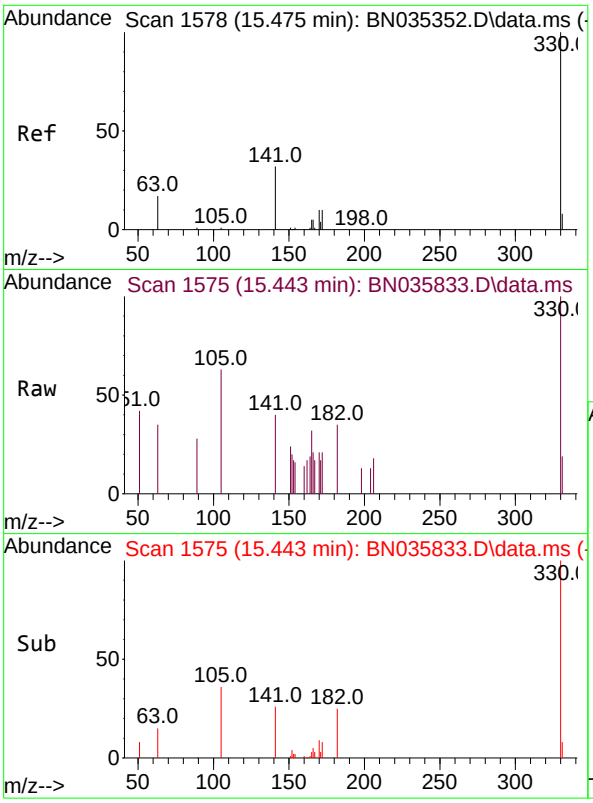


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:164 Resp: 4815

Ion	Ratio	Lower	Upper
164	100		
162	106.3	82.2	123.2
160	53.8	40.1	60.1



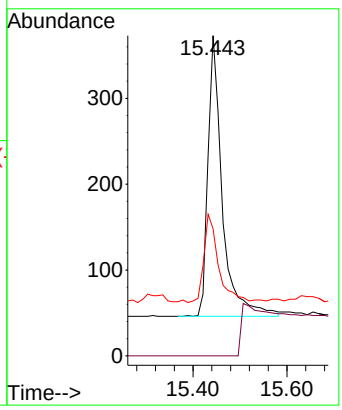


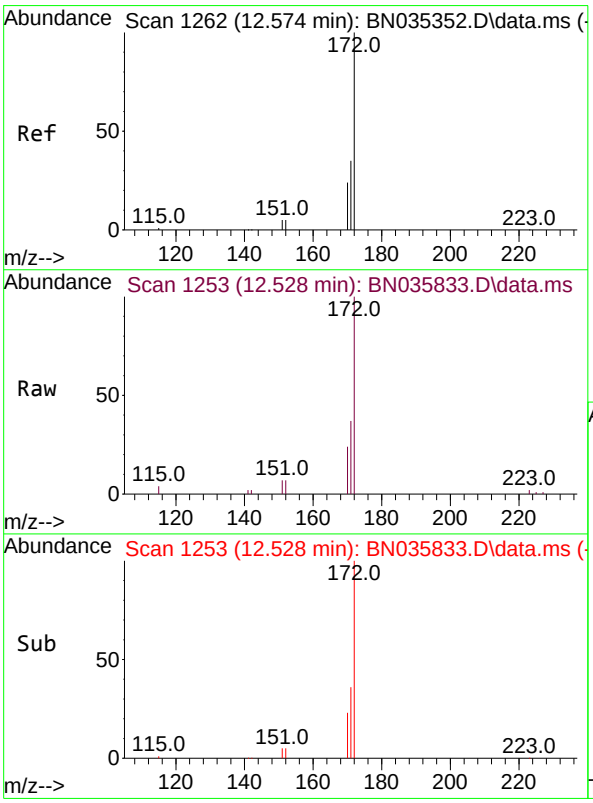
#14
2,4,6-Tribromophenol
Concen: 0.212 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Tgt Ion:330 Resp: 723

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.5	26.6	40.0

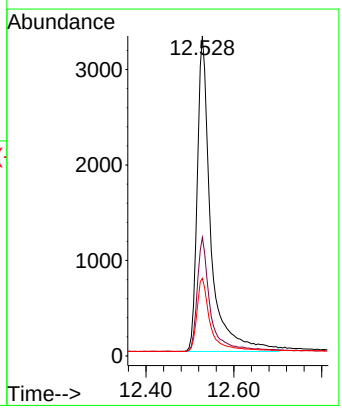


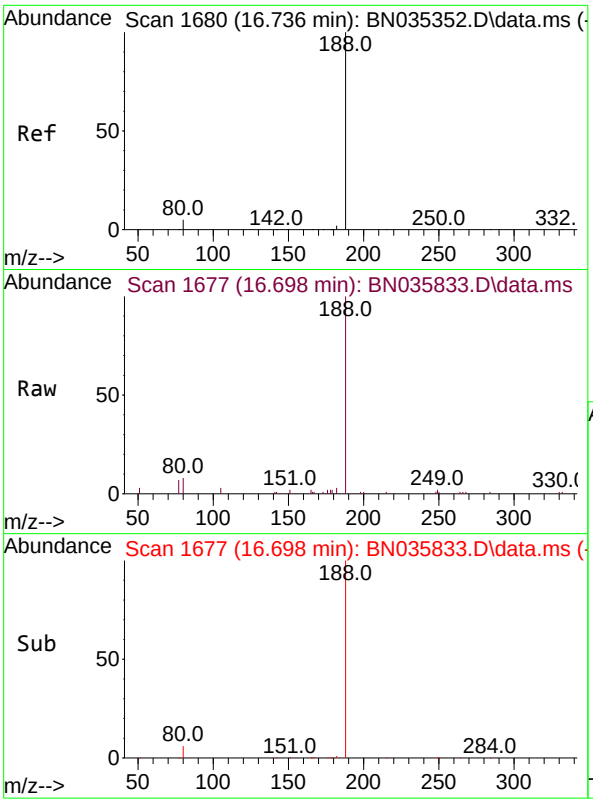


#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:172 Resp: 7112

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.0	43.4
170	24.3	19.8	29.8



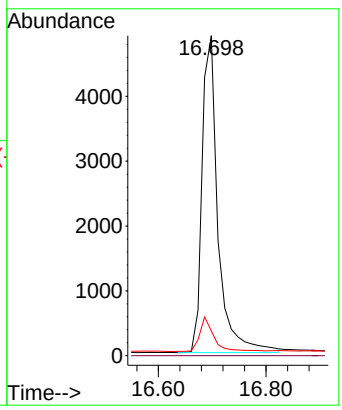


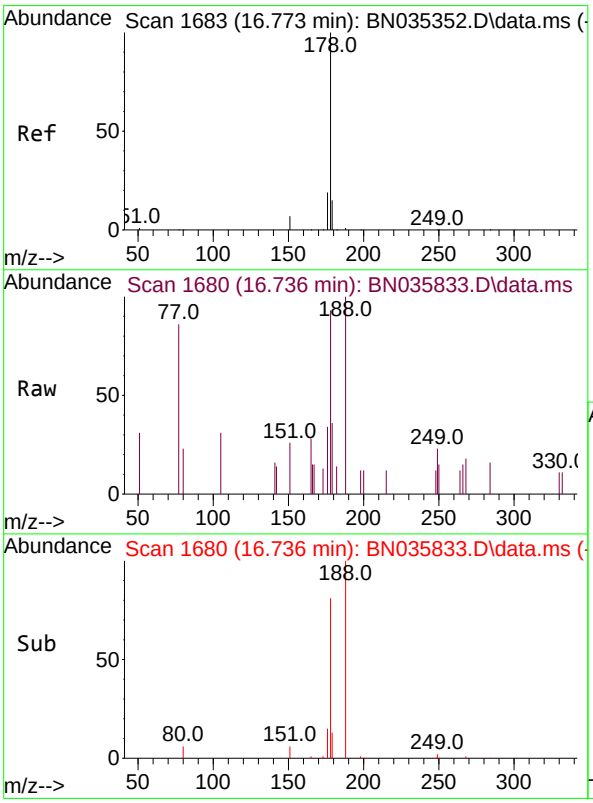
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Tgt Ion:188 Resp: 10024

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	4.6	6.8#

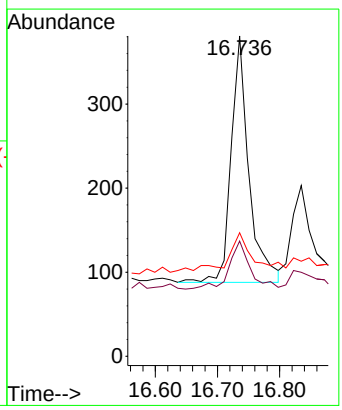


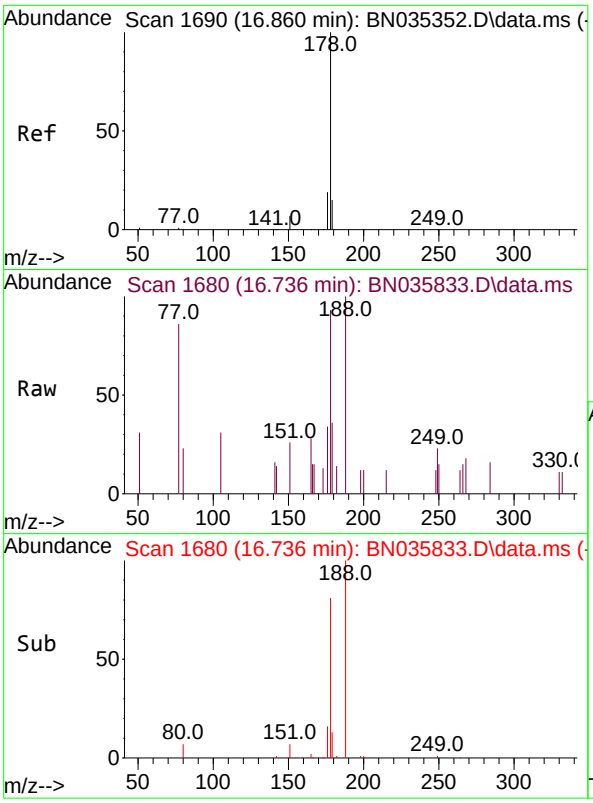


#25
Phenanthrene
Concen: 0.021 ng
RT: 16.736 min Scan# 1680
Delta R.T. -0.013 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:178 Resp: 582

Ion	Ratio	Lower	Upper
178	100		
176	23.0	15.4	23.2
179	18.7	12.3	18.5#



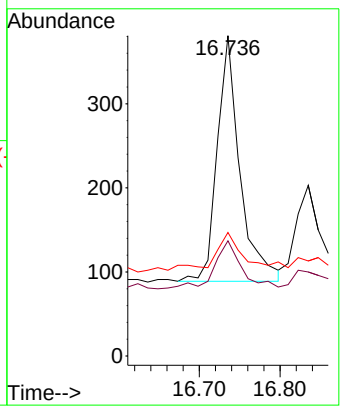


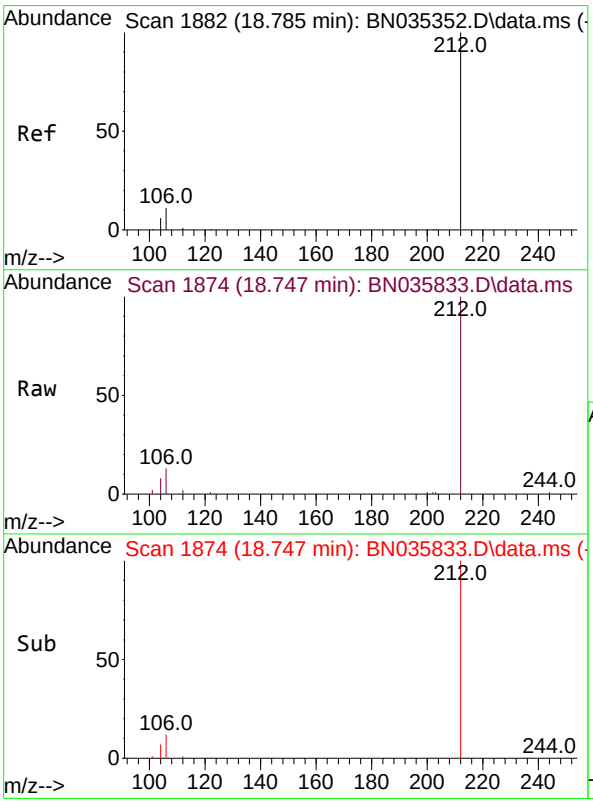
#26
Anthracene
Concen: 0.023 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.099 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Tgt Ion:178 Resp: 569

Ion	Ratio	Lower	Upper
178	100		
176	22.0	15.0	22.6
179	18.1	12.6	18.8

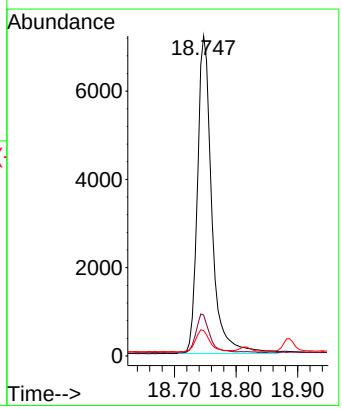


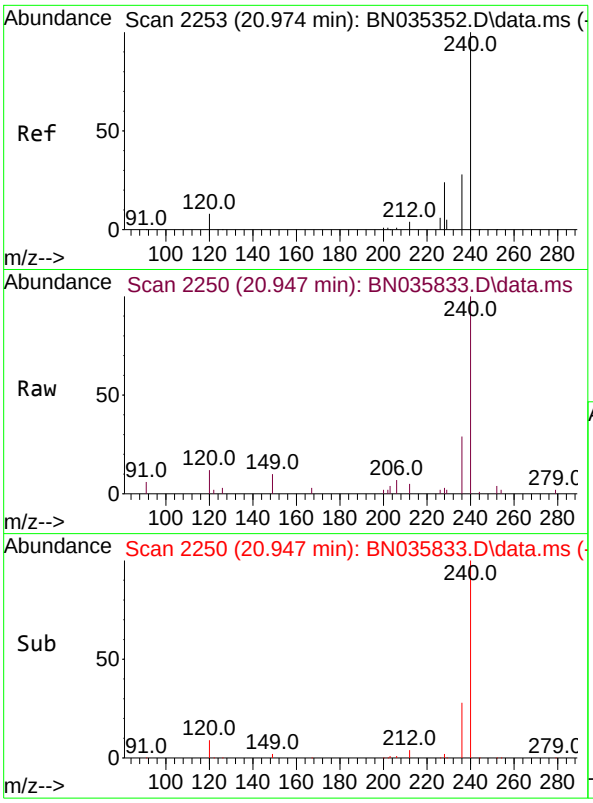


#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:212 Resp: 11675

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	7.0	5.3	7.9



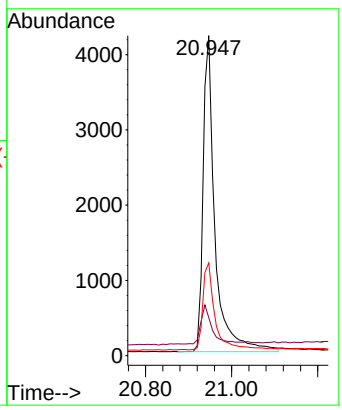


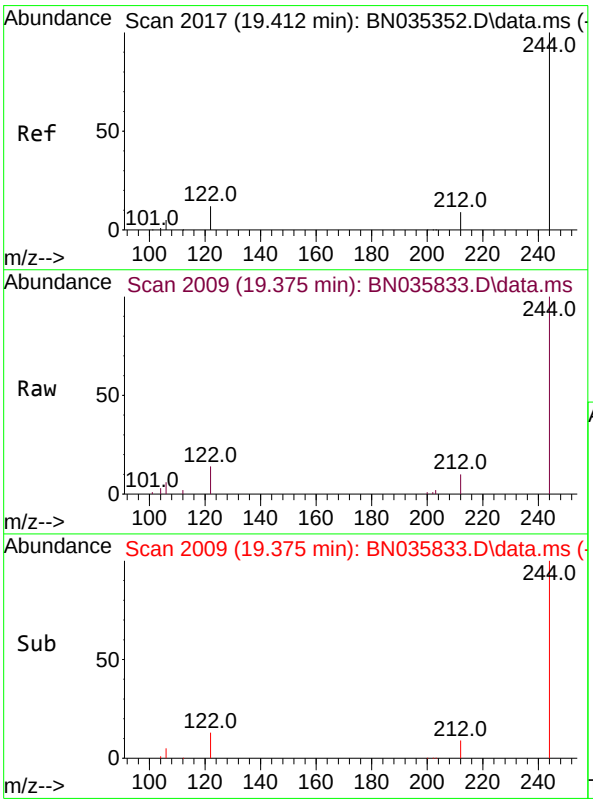
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Tgt Ion:240 Resp: 8069

Ion	Ratio	Lower	Upper
240	100		
120	11.9	7.9	11.9
236	29.0	22.9	34.3

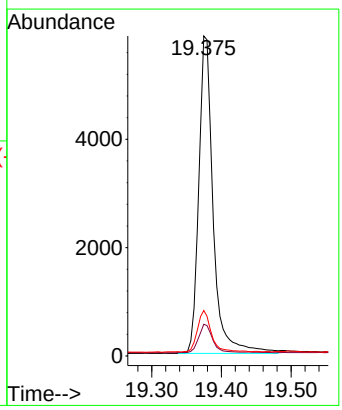


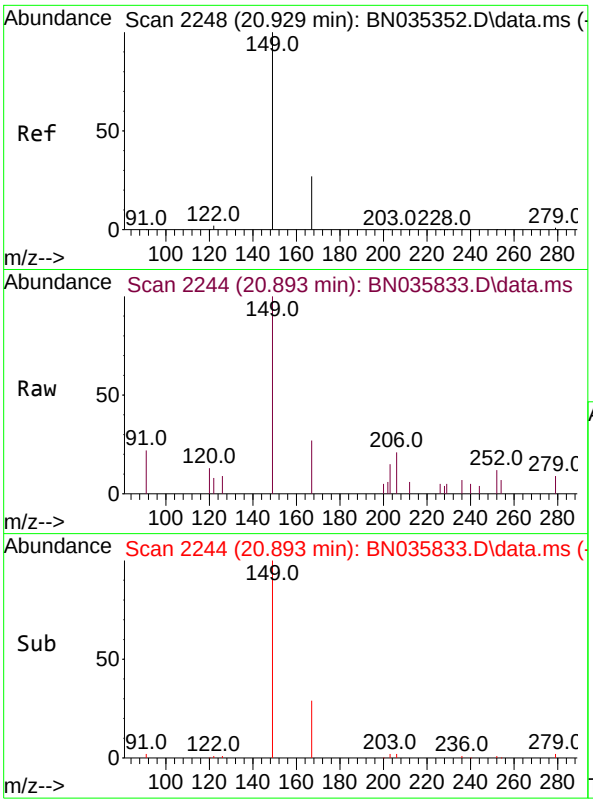


#31
Terphenyl-d14
Concen: 0.529 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:244 Resp: 8422

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	14.2	10.3	15.5



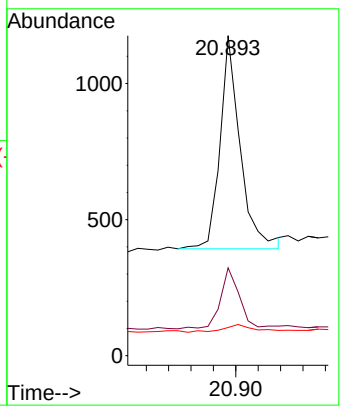


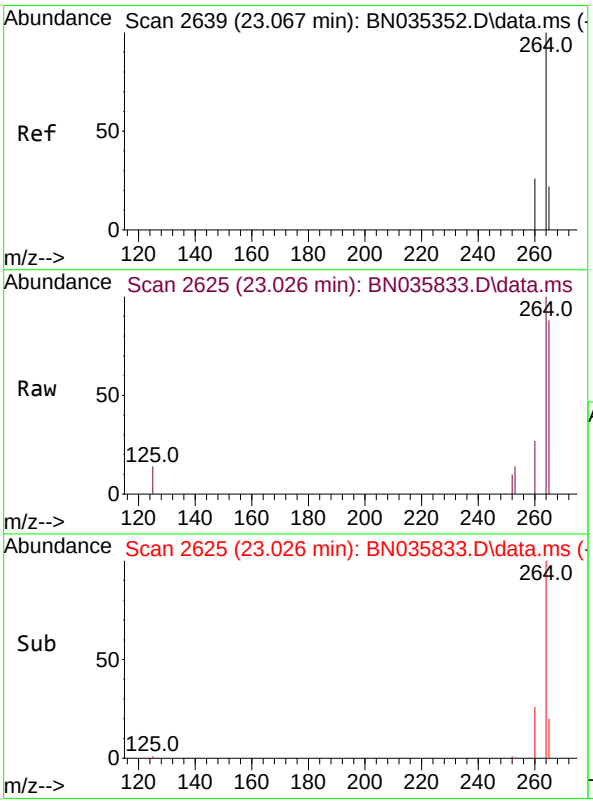
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20241219

Tgt Ion:149 Resp: 981

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	6.7	2.7	4.1#

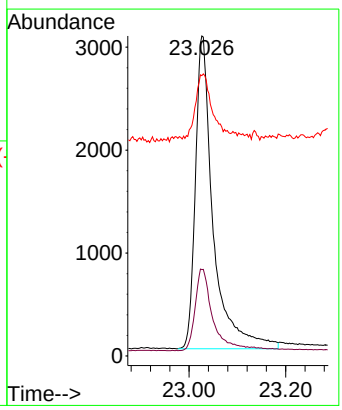




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035833.D
Acq: 24 Dec 2024 23:18

Tgt Ion:264 Resp: 7784

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	87.6	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

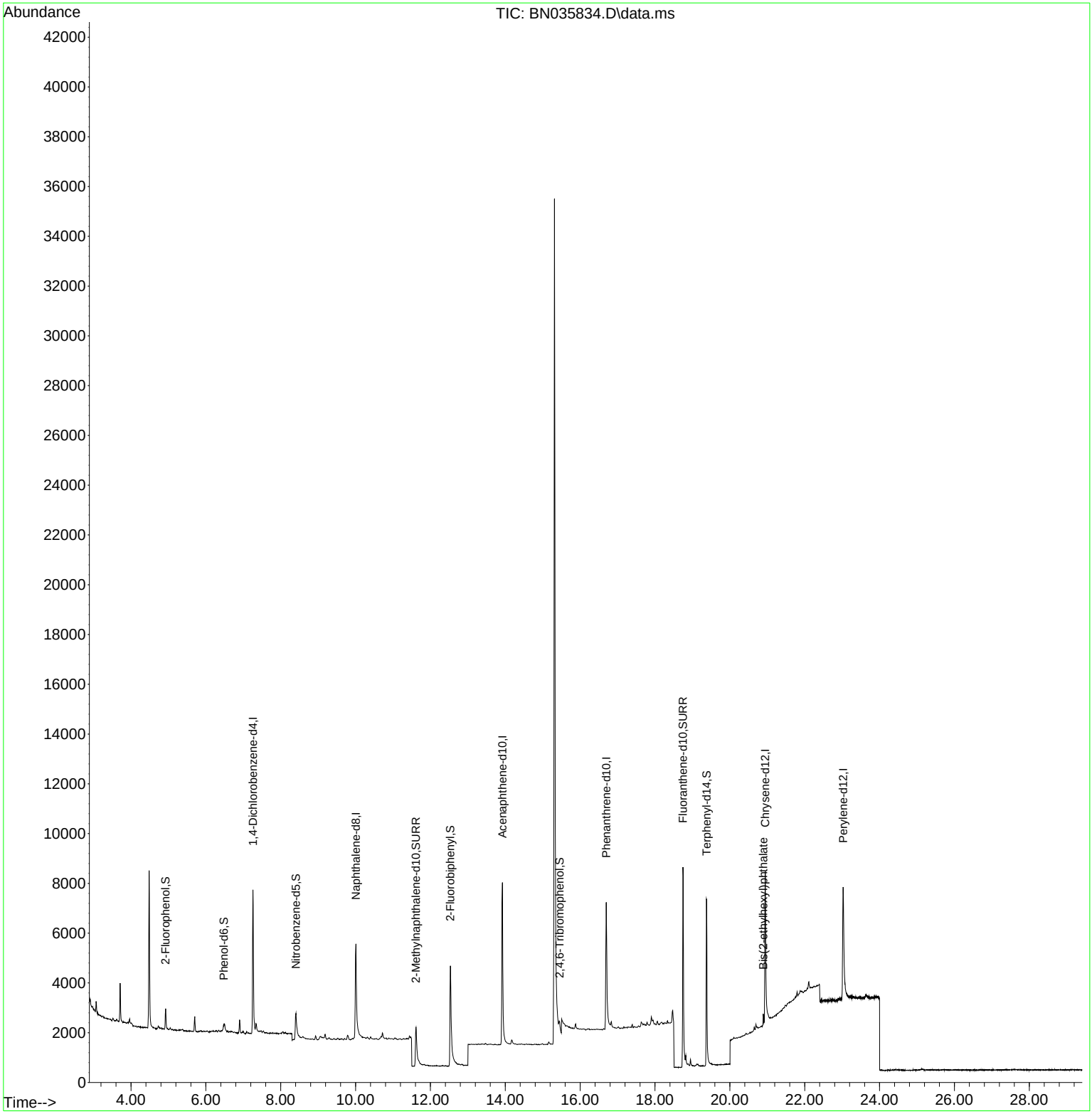
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3211	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	7680	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4788	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10028	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8231	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	7812	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	770	0.096	ng	-0.01
5) Phenol-d6	6.477	99	388	0.040	ng	-0.01
8) Nitrobenzene-d5	8.408	82	2039	0.435	ng	0.00
11) 2-Methylnaphthalene-d10	11.616	152	4135	0.344	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	529	0.156	ng	0.00
15) 2-Fluorobiphenyl	12.533	172	6614	0.365	ng	-0.01
27) Fluoranthene-d10	18.747	212	11419	0.402	ng	-0.01
31) Terphenyl-d14	19.379	244	8341	0.514	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.893	149	474	0.042	ng	# 96

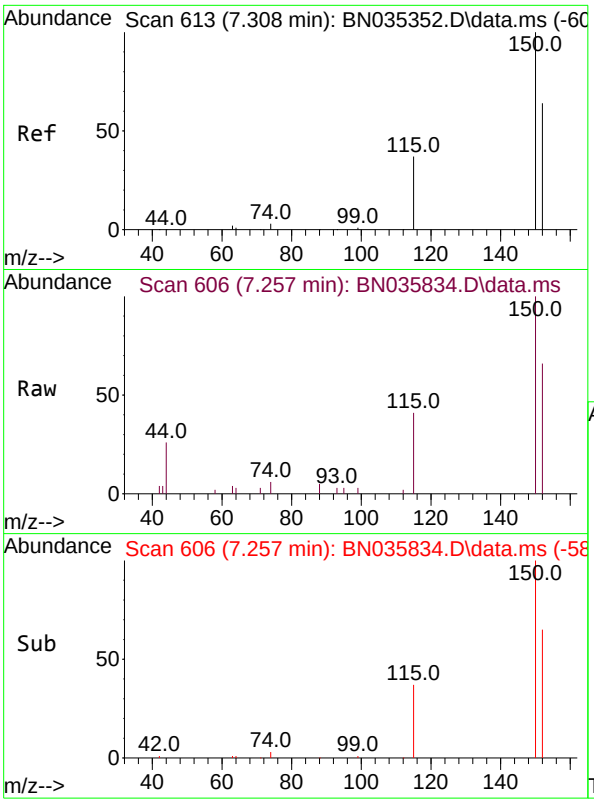
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035834.D
Acq On : 24 Dec 2024 23:53
Operator : RC/JU
Sample : P5376-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Quant Time: Dec 25 02:35:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



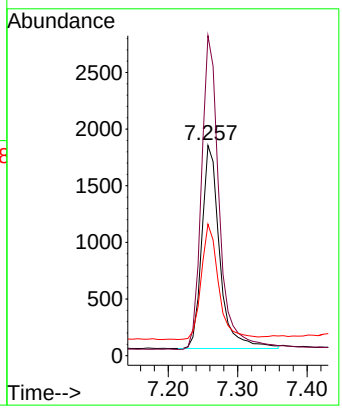


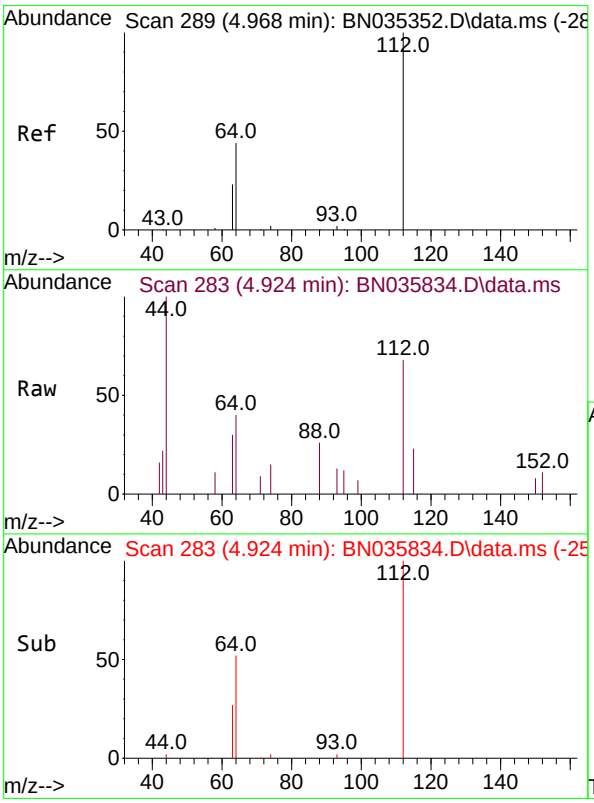
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Tgt Ion:152 Resp: 3211

Ion	Ratio	Lower	Upper
152	100		
150	152.2	124.0	186.0
115	62.6	49.6	74.4

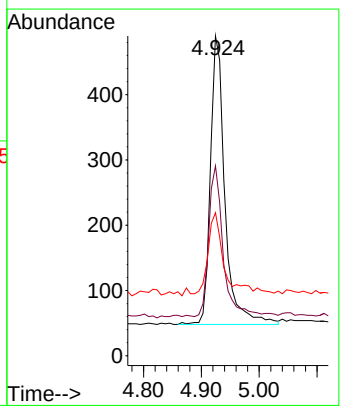


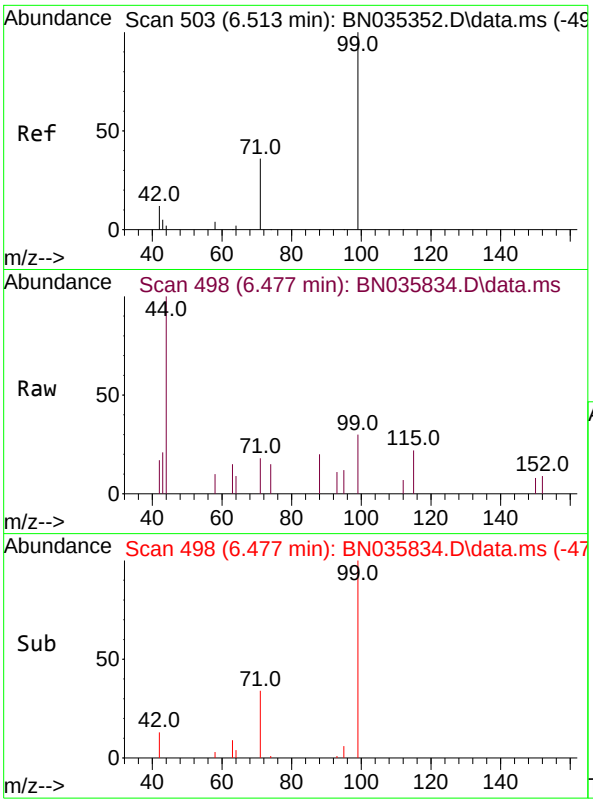


#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:112 Resp: 770

Ion	Ratio	Lower	Upper
112	100		
64	53.1	39.8	59.8
63	31.9	21.0	31.6#



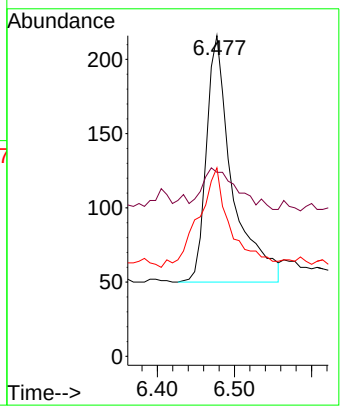


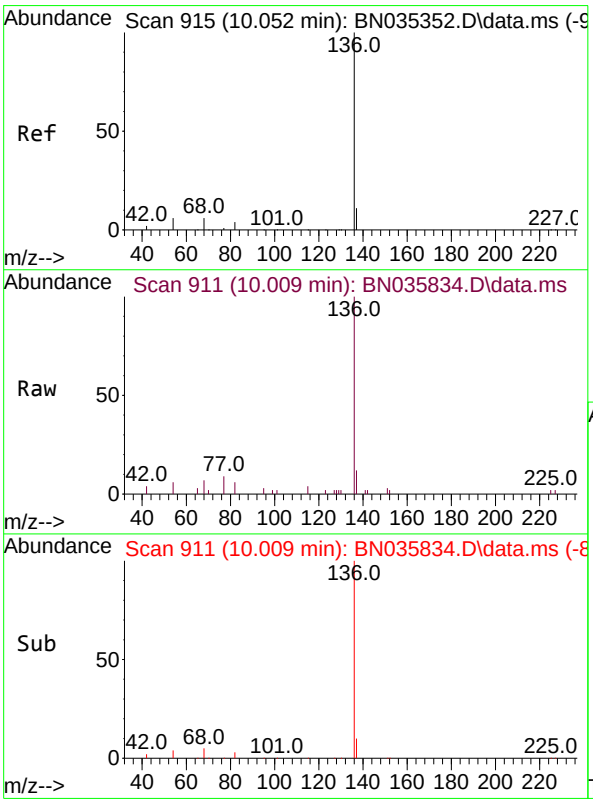
#5
Phenol-d6
Concen: 0.040 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Tgt Ion: 99 Resp: 388

Ion	Ratio	Lower	Upper
99	100		
42	25.5	11.4	17.2#
71	49.7	29.3	43.9#

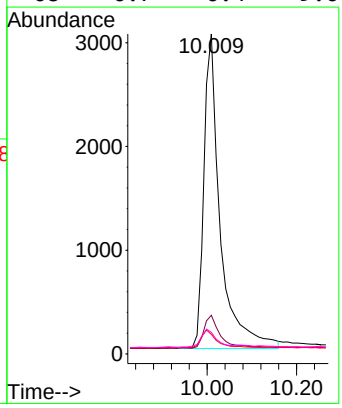


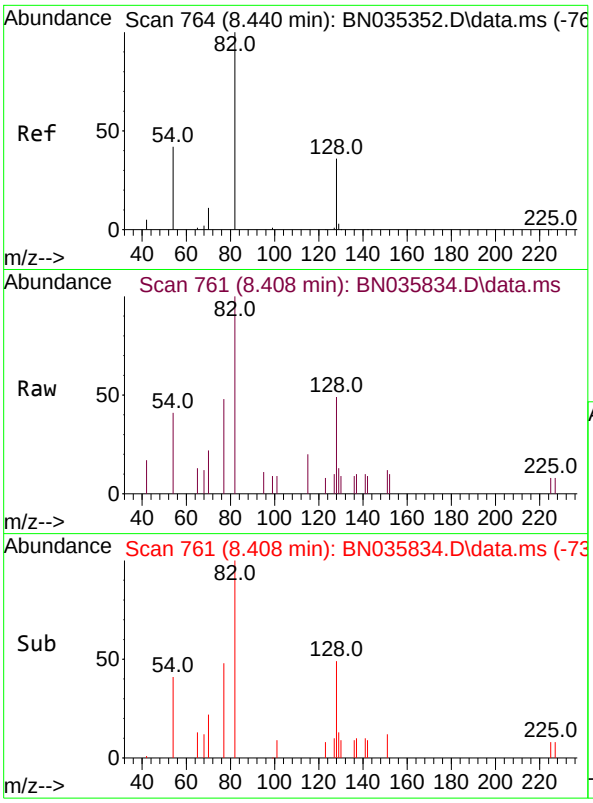


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:136 Resp: 7680

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.2	6.1	9.1
68	6.7	6.4	9.6



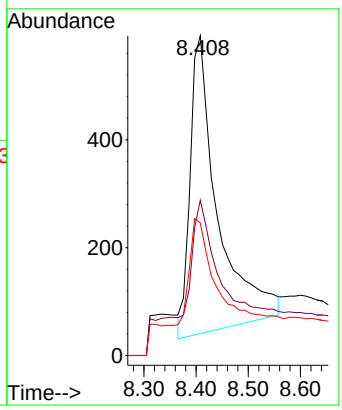


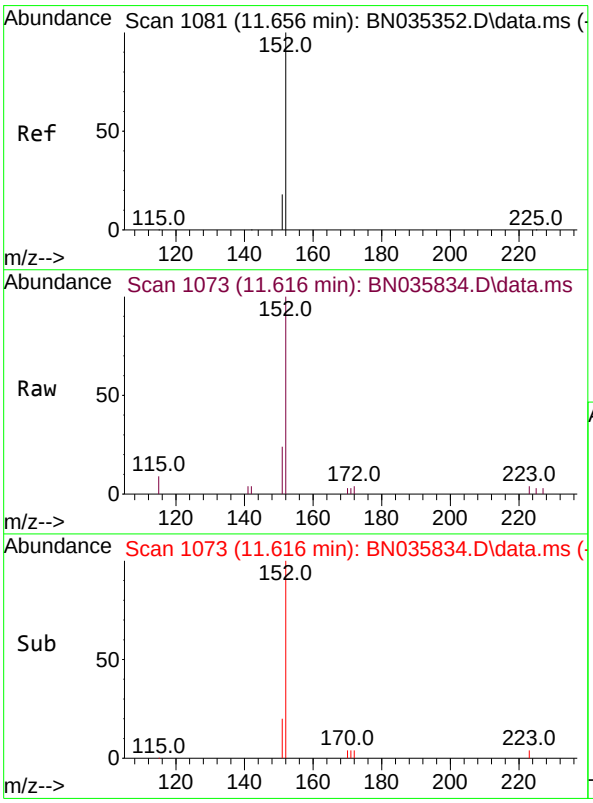
#8
Nitrobenzene-d5
Concen: 0.435 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Tgt Ion: 82 Resp: 2039

Ion	Ratio	Lower	Upper
82	100		
128	48.6	33.4	50.0
54	41.5	36.7	55.1

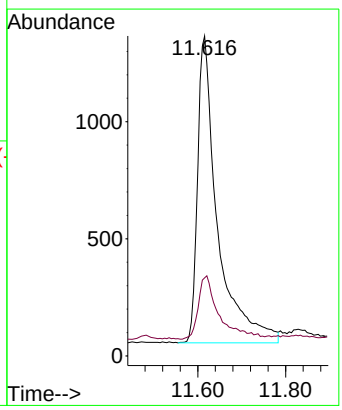


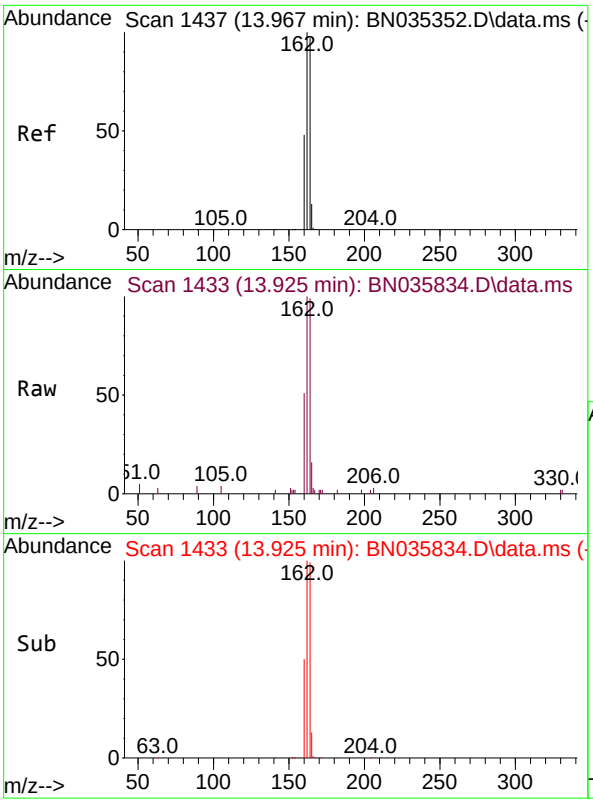


#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:152 Resp: 4135

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	25.0



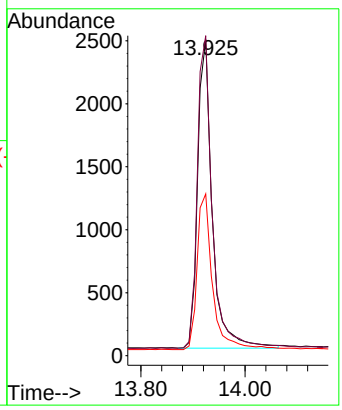


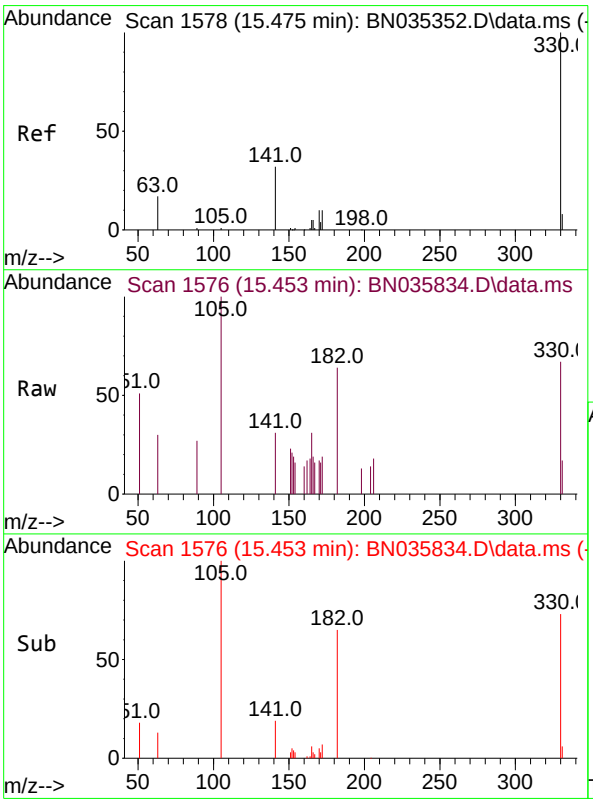
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Tgt Ion:164 Resp: 4788

Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.2	123.2
160	51.2	40.1	60.1

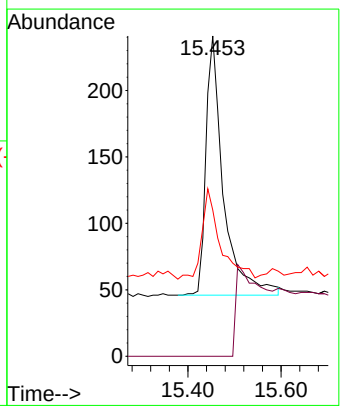


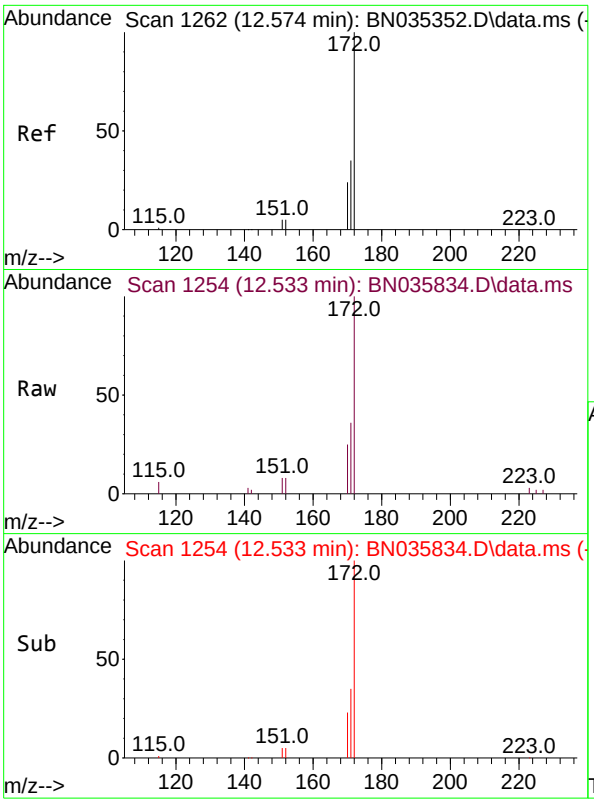


#14
2,4,6-Tribromophenol
Concen: 0.156 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:330 Resp: 529

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	35.3	26.6	40.0



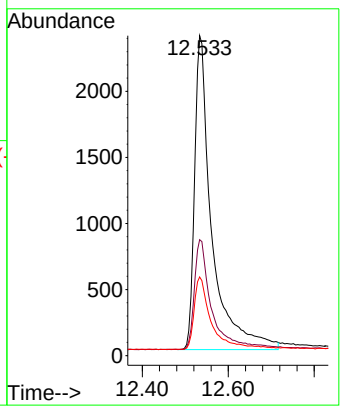


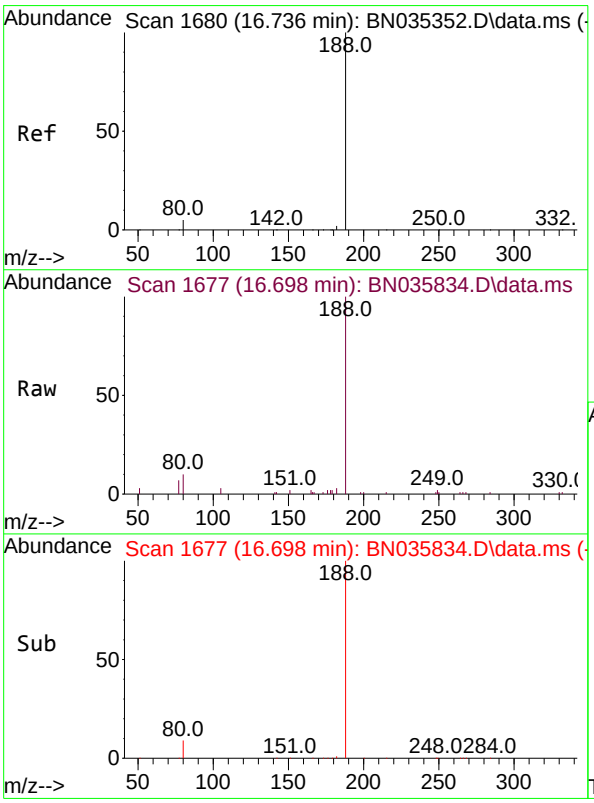
#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Tgt Ion:172 Resp: 6614

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.6	19.8	29.8

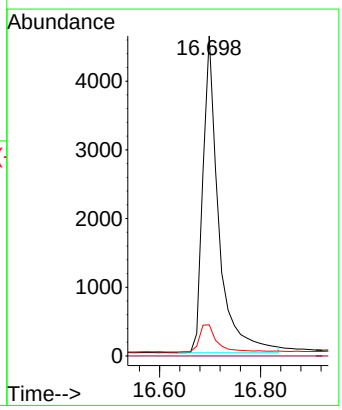


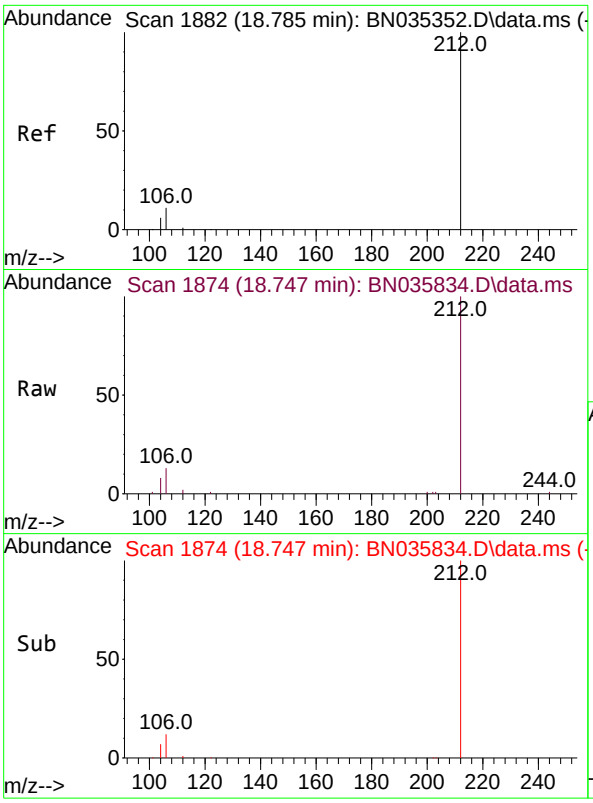


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:188 Resp: 10028

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	4.6	6.8#



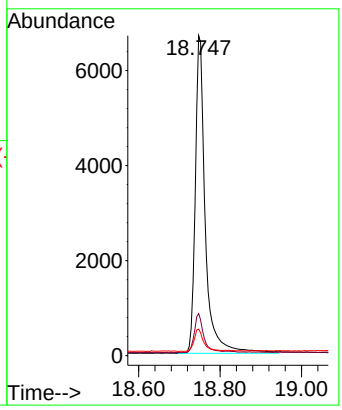


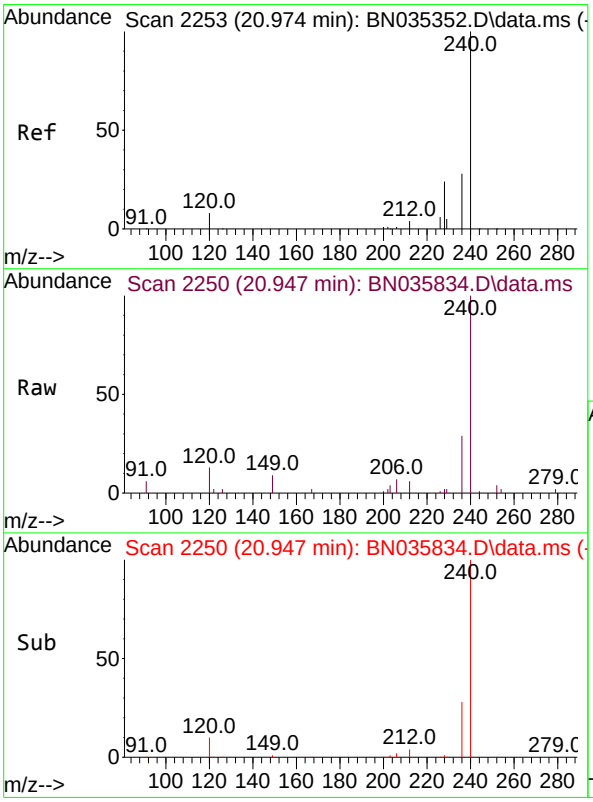
#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Tgt Ion:212 Resp: 11419

Ion	Ratio	Lower	Upper
212	100		
106	11.2	9.2	13.8
104	6.7	5.3	7.9

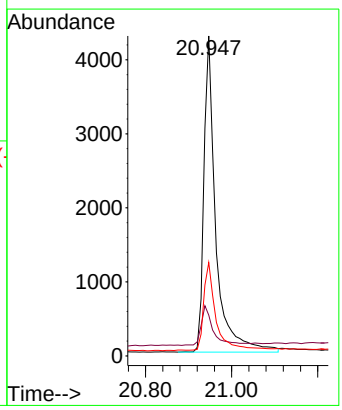


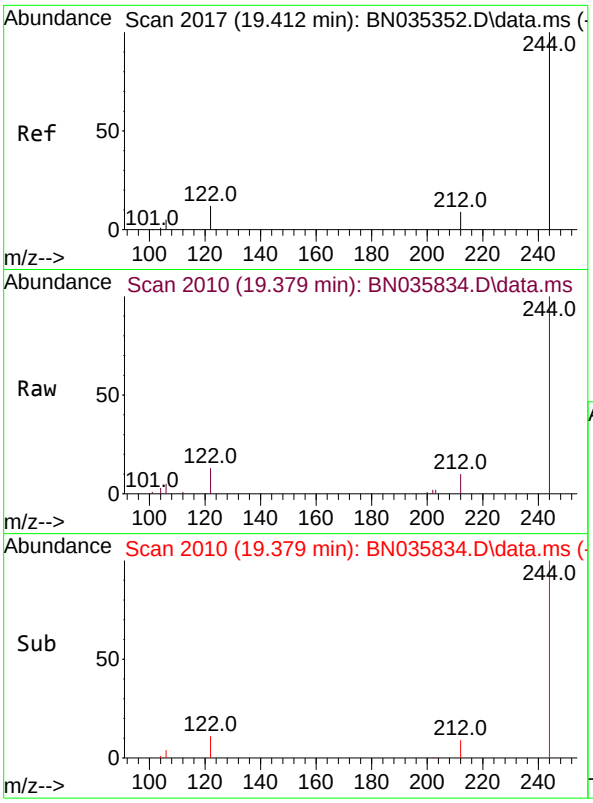


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:240 Resp: 8231

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9#
236	29.2	22.9	34.3



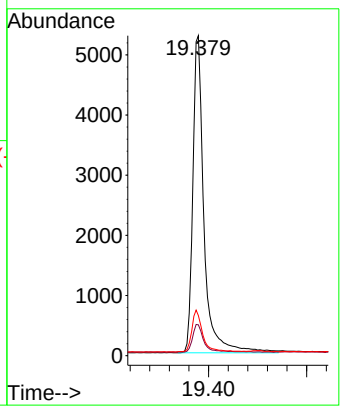


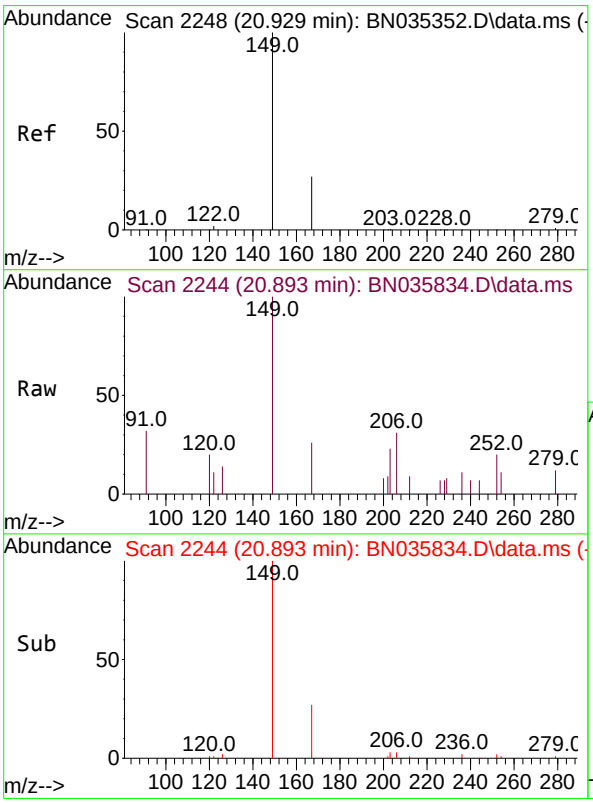
#31
Terphenyl-d14
Concen: 0.514 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Tgt Ion:244 Resp: 8341

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.6	10.3	15.5

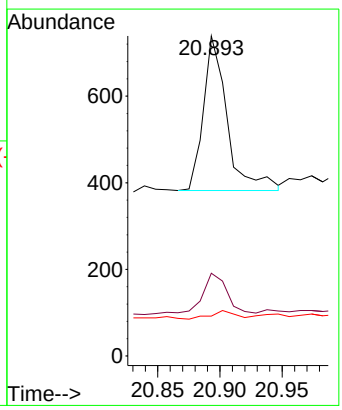


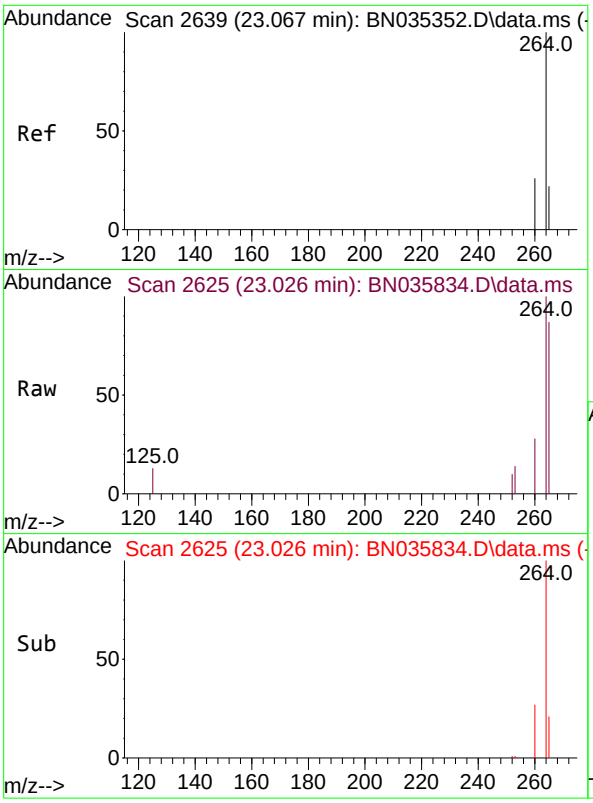


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.042 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Tgt Ion:149 Resp: 474

Ion	Ratio	Lower	Upper
149	100		
167	26.2	22.2	33.4
279	5.7	2.7	4.1#



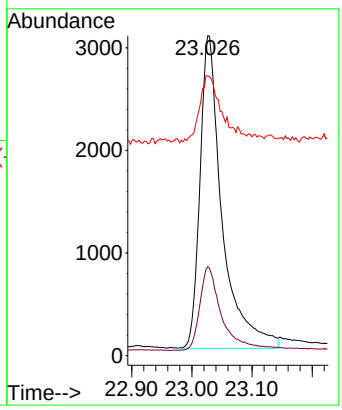


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035834.D
Acq: 24 Dec 2024 23:53

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20241219

Tgt Ion:264 Resp: 7812

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.4	32.2
265	87.5	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Quant Time: Dec 25 02:35:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

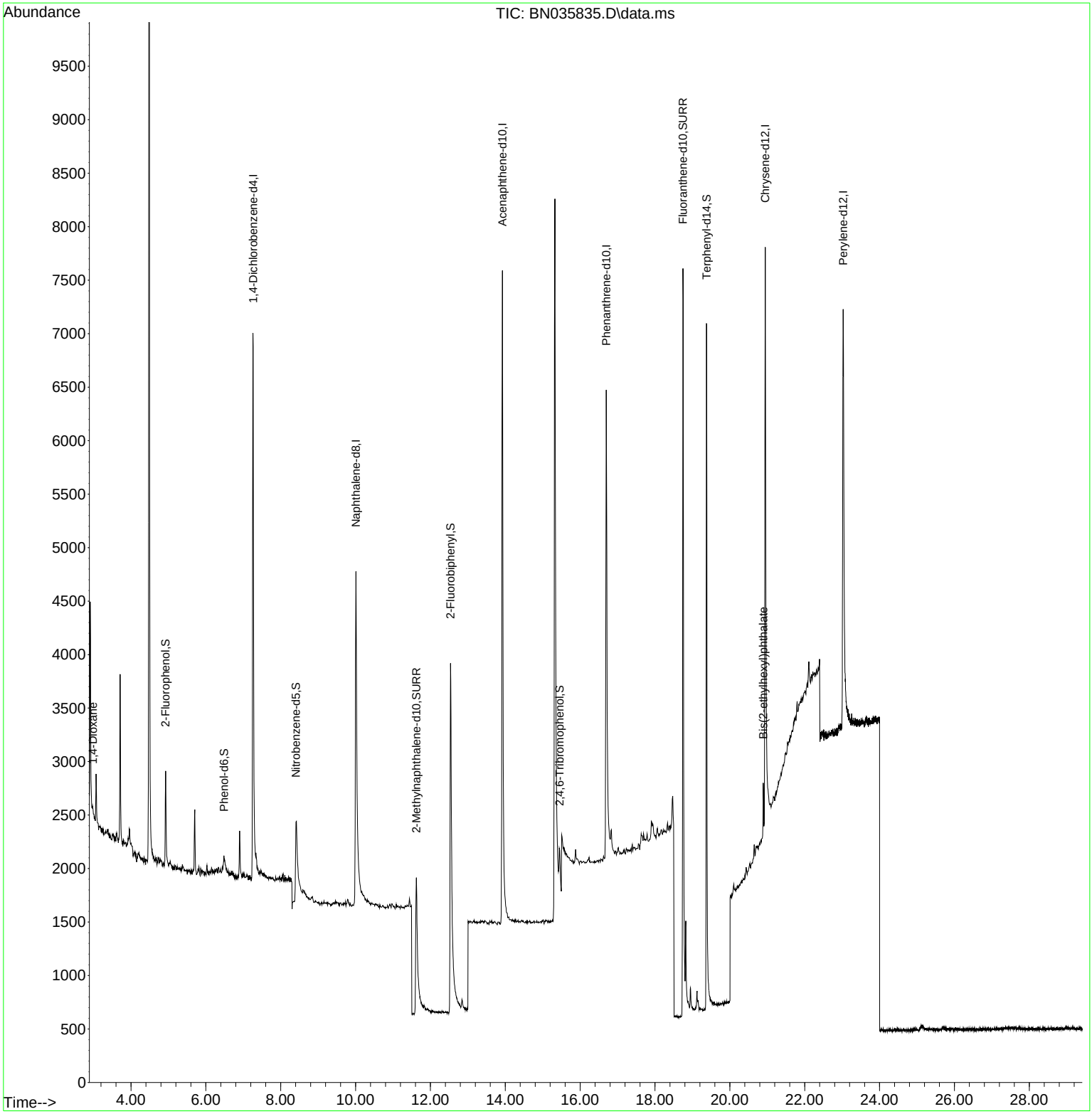
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3270	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	7393	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	4622	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9153	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7437	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	7071	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	859	0.105	ng	-0.01
5) Phenol-d6	6.484	99	361	0.037	ng	0.00
8) Nitrobenzene-d5	8.408	82	2688	0.595	ng	0.00
11) 2-Methylnaphthalene-d10	11.626	152	3916	0.338	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	618	0.188	ng	0.00
15) 2-Fluorobiphenyl	12.539	172	6261	0.358	ng	0.00
27) Fluoranthene-d10	18.747	212	10636	0.410	ng	-0.01
31) Terphenyl-d14	19.379	244	7814	0.533	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	63	0.020	ng	# 71
34) Bis(2-ethylhexyl)phtha...	20.893	149	496	0.048	ng	99

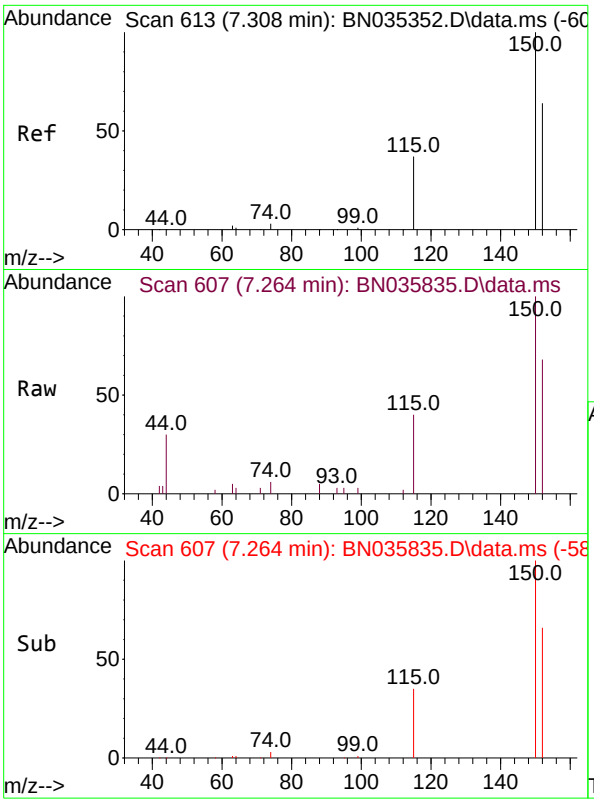
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035835.D
Acq On : 25 Dec 2024 00:29
Operator : RC/JU
Sample : P5376-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Quant Time: Dec 25 02:35:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



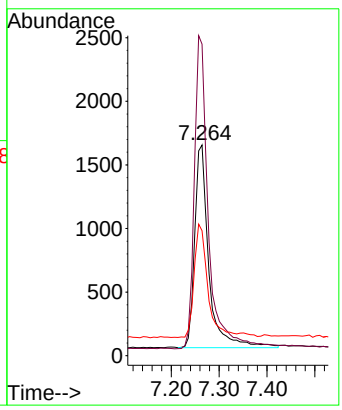


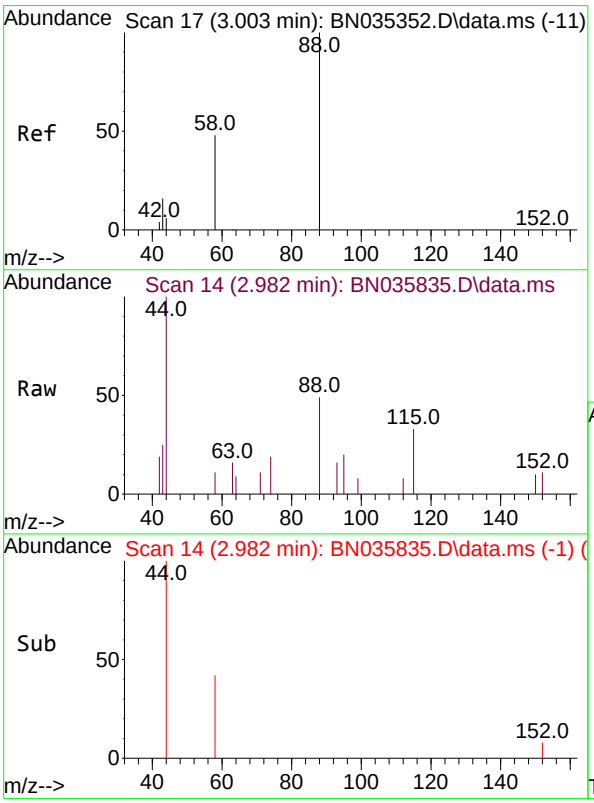
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Tgt Ion:152 Resp: 3270

Ion	Ratio	Lower	Upper
152	100		
150	147.9	124.0	186.0
115	59.3	49.6	74.4

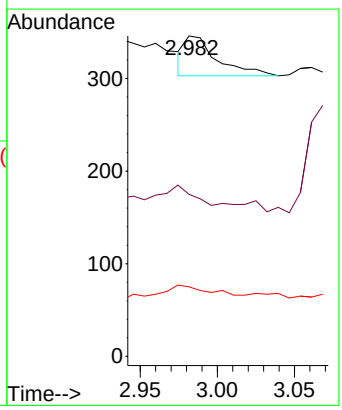


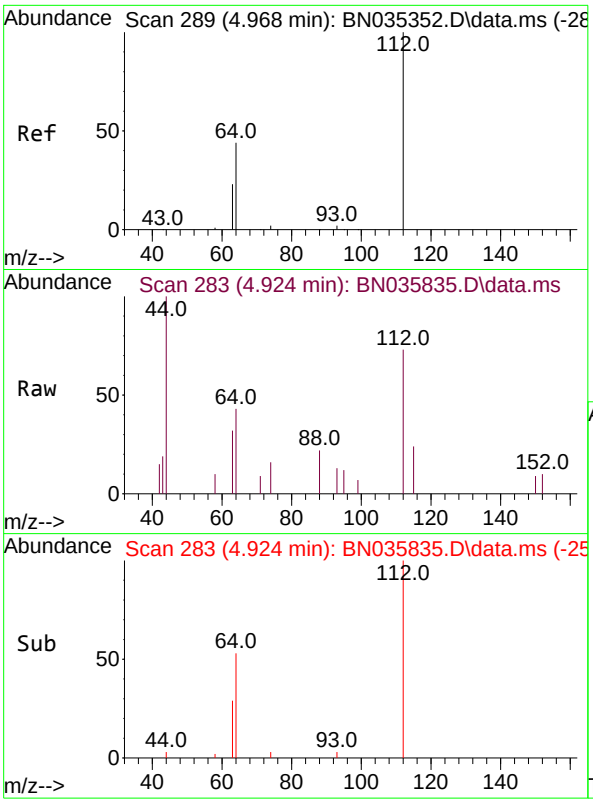


#2
1,4-Dioxane
Concen: 0.020 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 88 Resp: 63

Ion	Ratio	Lower	Upper
88	100		
43	41.3	17.2	25.8#
58	38.1	44.5	66.7#



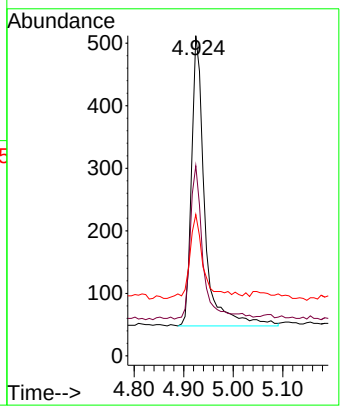


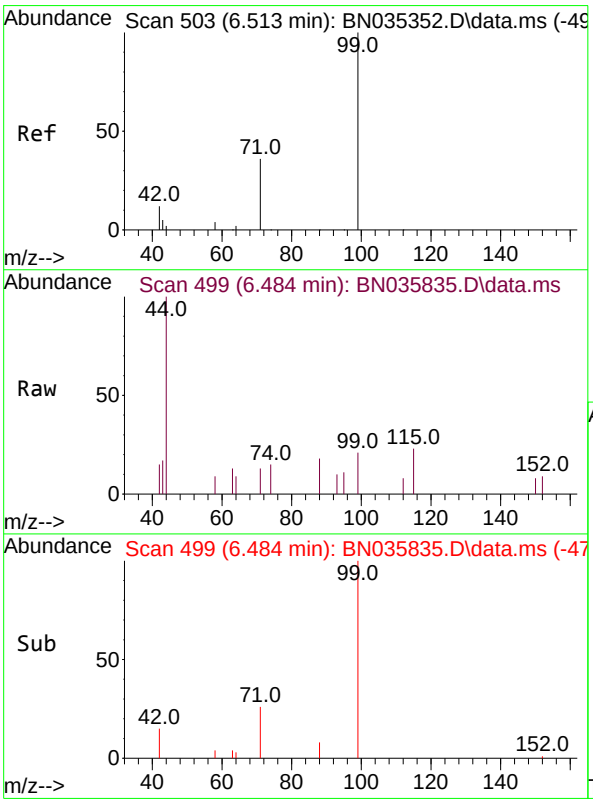
#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Tgt Ion:112 Resp: 859

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	30.2	21.0	31.6

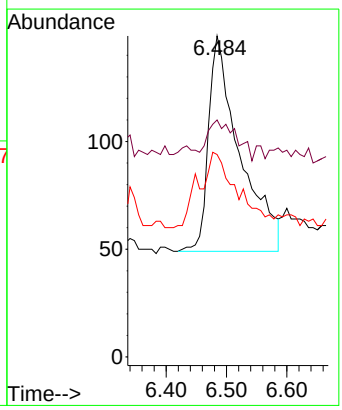


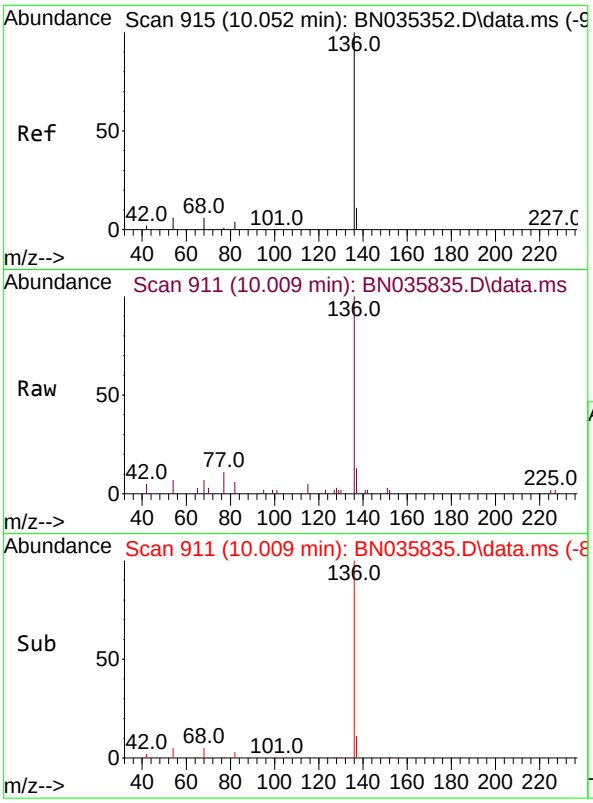


#5
Phenol-d6
Concen: 0.037 ng
RT: 6.484 min Scan# 499
Delta R.T. -0.007 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 99 Resp: 361

Ion	Ratio	Lower	Upper
99	100		
42	16.9	11.4	17.2
71	25.8	29.3	43.9#



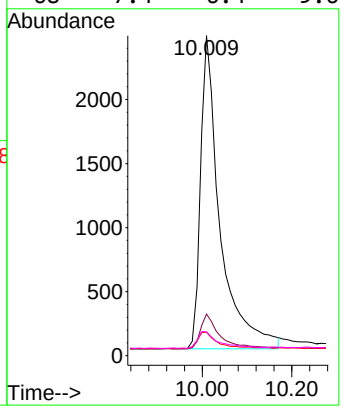


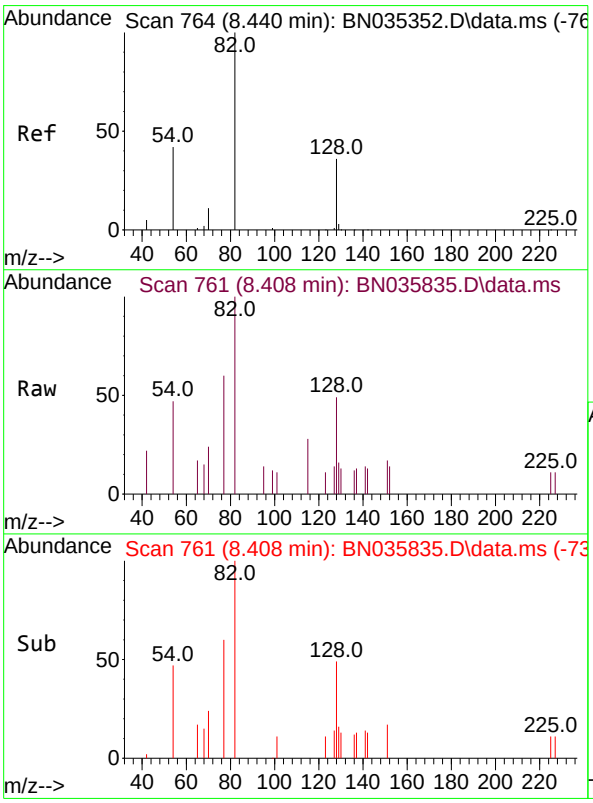
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Tgt Ion:136 Resp: 7393

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.2	15.2
54	7.4	6.1	9.1
68	7.4	6.4	9.6

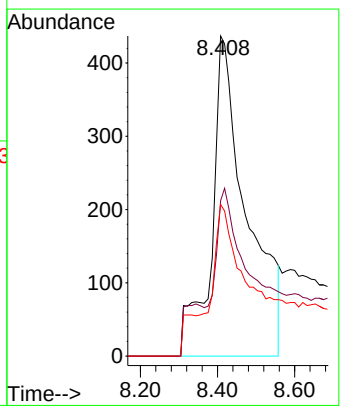


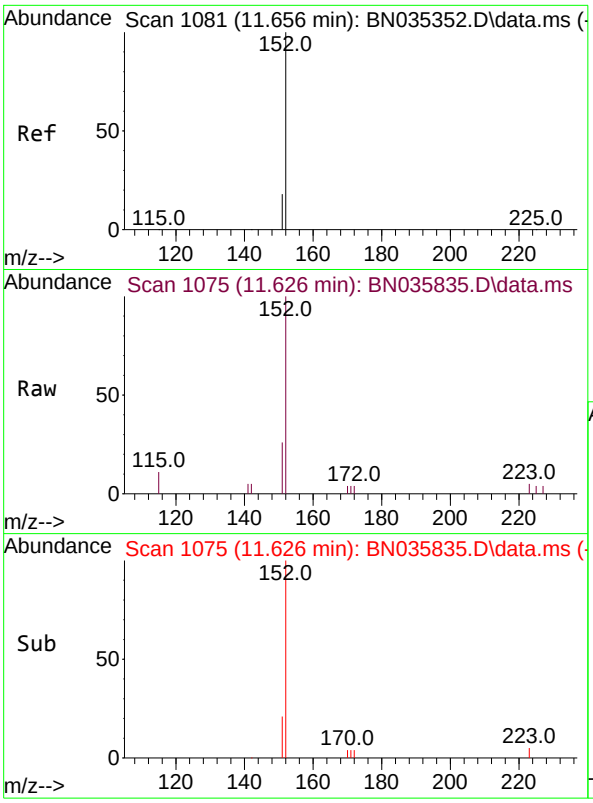


#8
Nitrobenzene-d5
Concen: 0.595 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion: 82 Resp: 2688

Ion	Ratio	Lower	Upper
82	100		
128	48.5	33.4	50.0
54	47.4	36.7	55.1



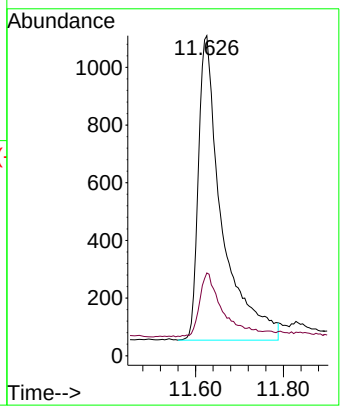


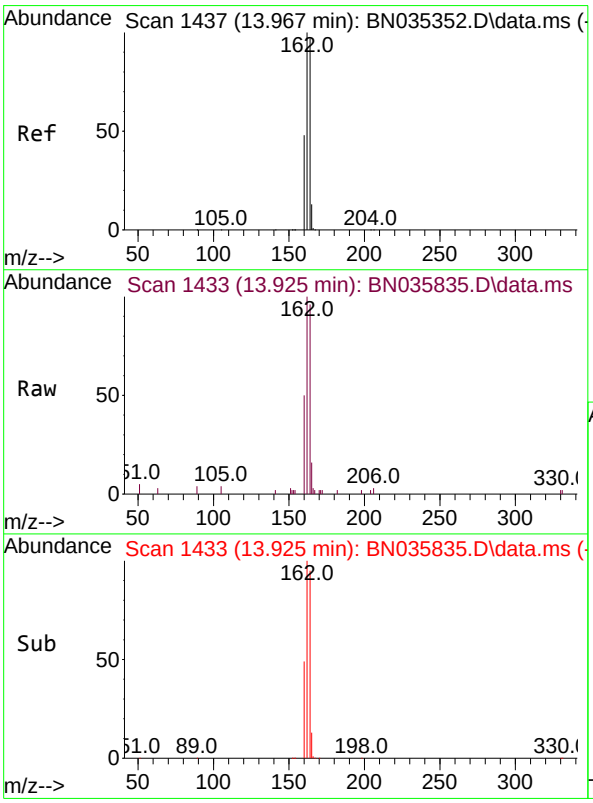
#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 11.626 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Tgt Ion:152 Resp: 3916

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

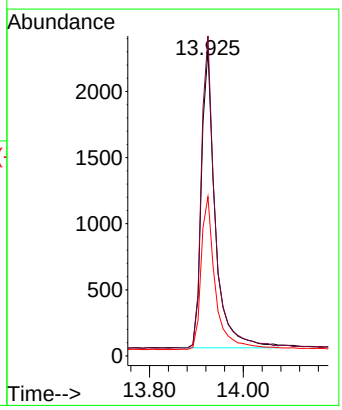


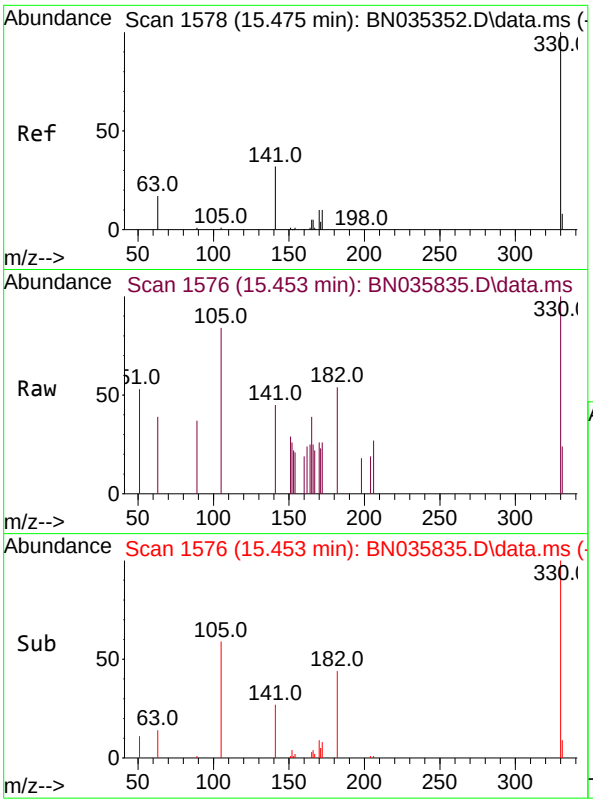


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:164 Resp: 4622

Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.2	123.2
160	52.0	40.1	60.1



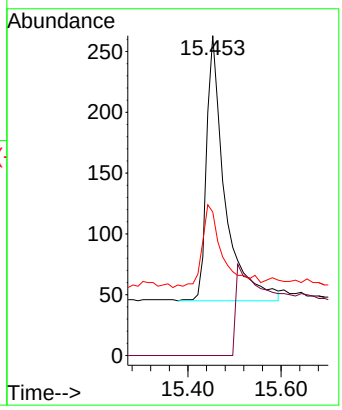


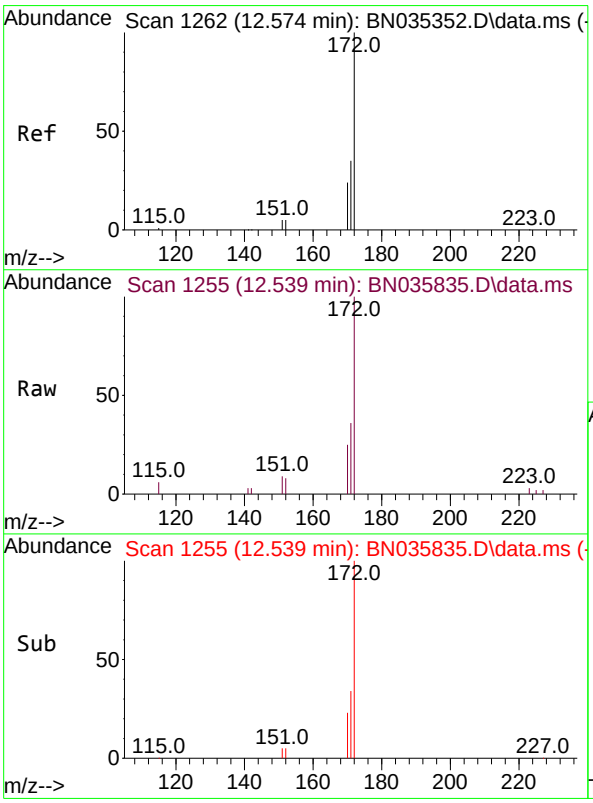
#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.453 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Tgt Ion:330 Resp: 618

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.8	26.6	40.0

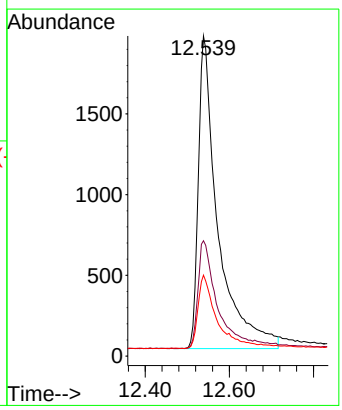


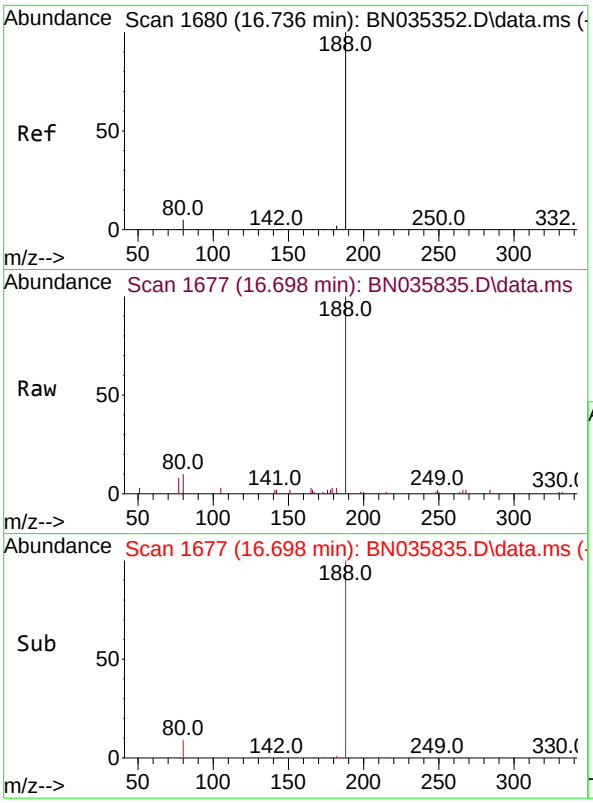


#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.539 min Scan# 1255
Delta R.T. -0.005 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:172 Resp: 6261

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	25.3	19.8	29.8



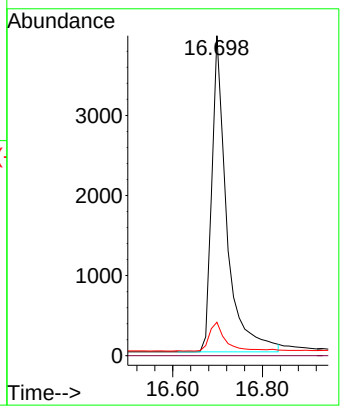


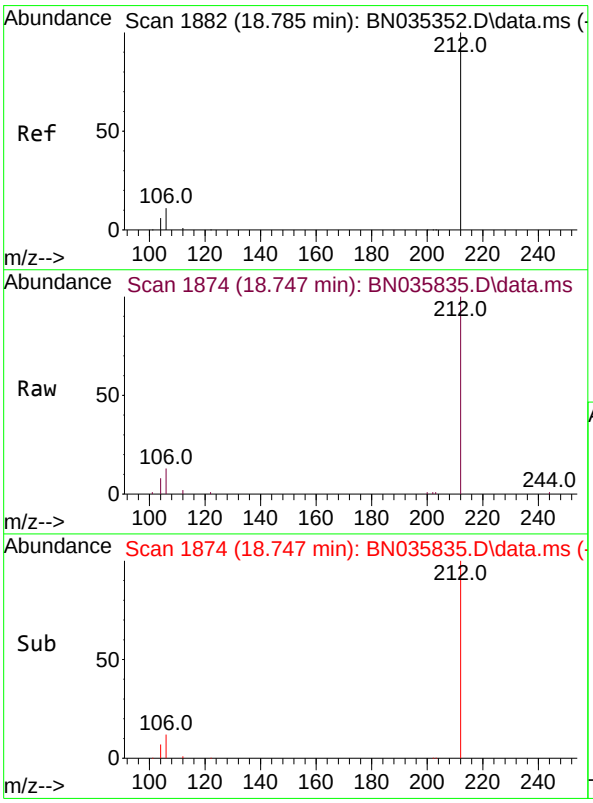
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Tgt Ion:188 Resp: 9153

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	4.6	6.8#

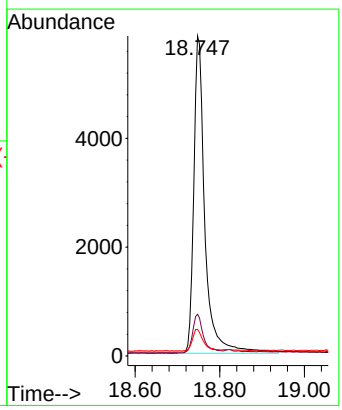


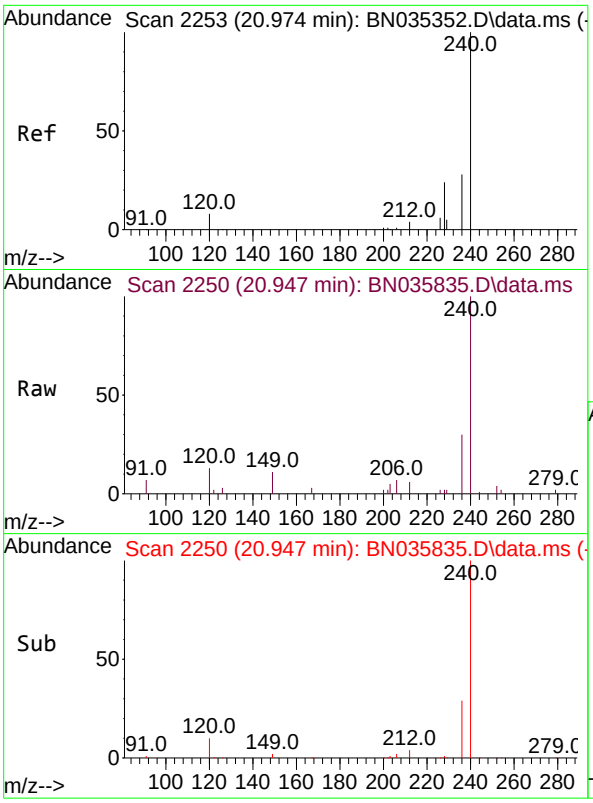


#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 18.747 min Scan# 1874
Delta R.T. -0.014 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:212 Resp: 10636

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.7	5.3	7.9



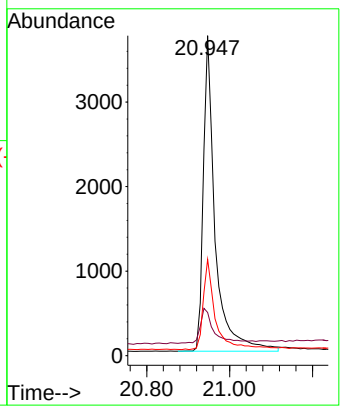


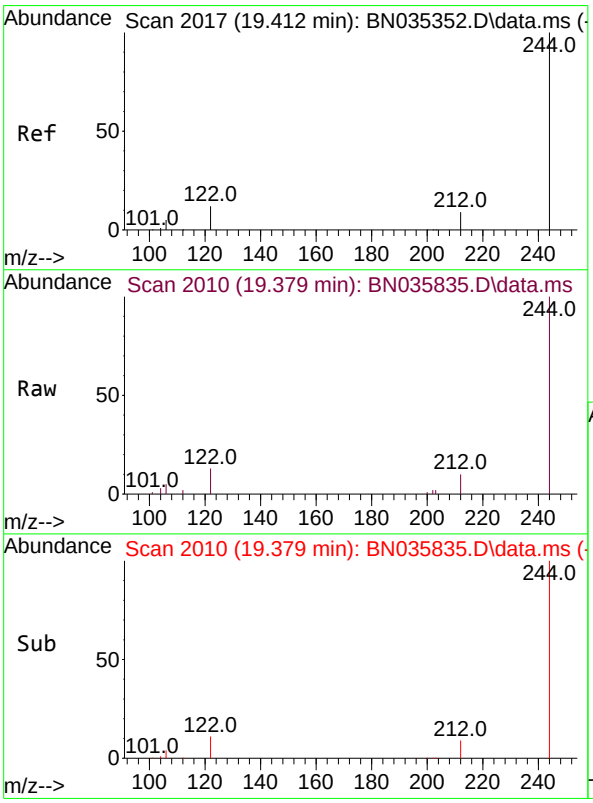
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Tgt Ion:240 Resp: 7437

Ion	Ratio	Lower	Upper
240	100		
120	13.5	7.9	11.9#
236	30.1	22.9	34.3

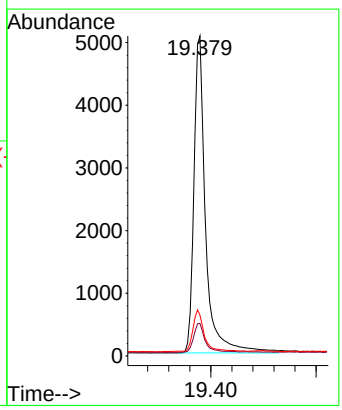


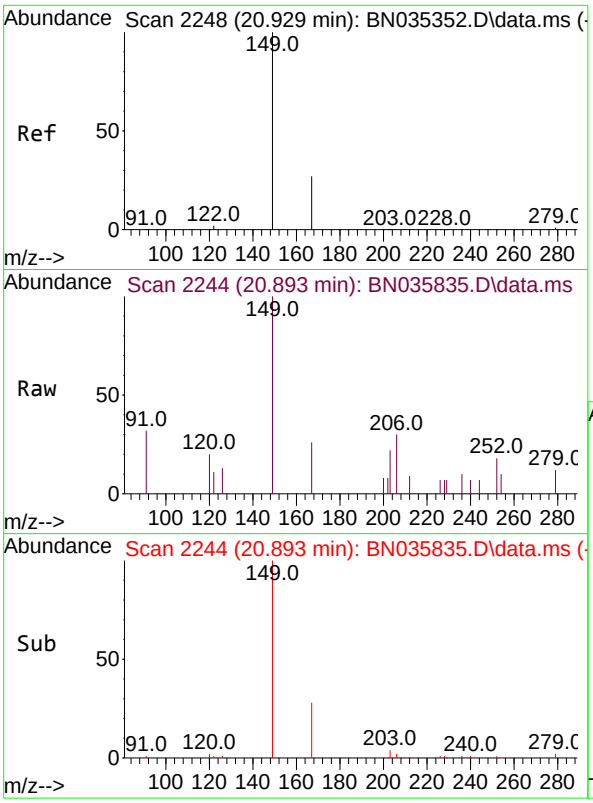


#31
Terphenyl-d14
Concen: 0.533 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:244 Resp: 7814

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.7	10.3	15.5



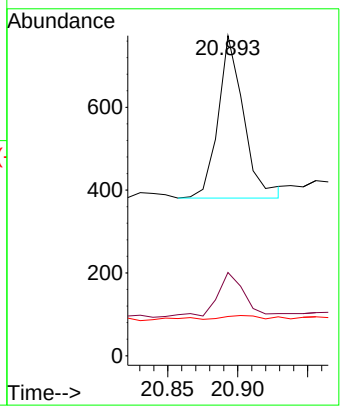


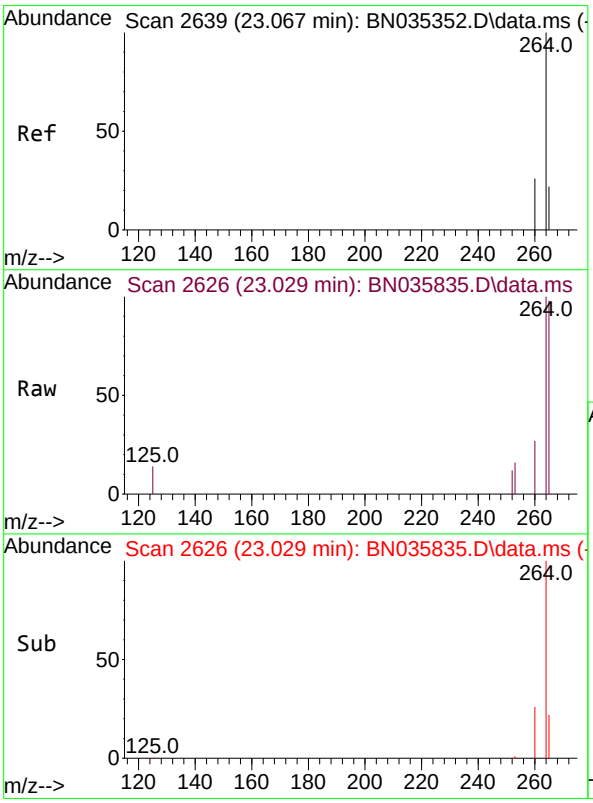
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.048 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Instrument :
BNA_N
ClientSampleId :
TT119S1-20241219

Tgt Ion:149 Resp: 496

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.4
279	3.6	2.7	4.1

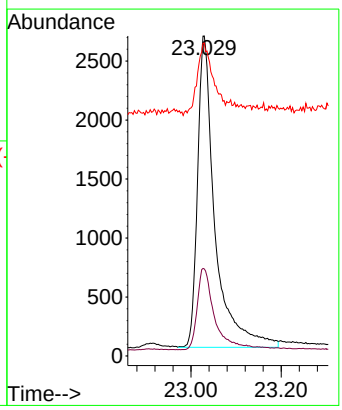




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035835.D
Acq: 25 Dec 2024 00:29

Tgt Ion:264 Resp: 7071

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	97.8	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

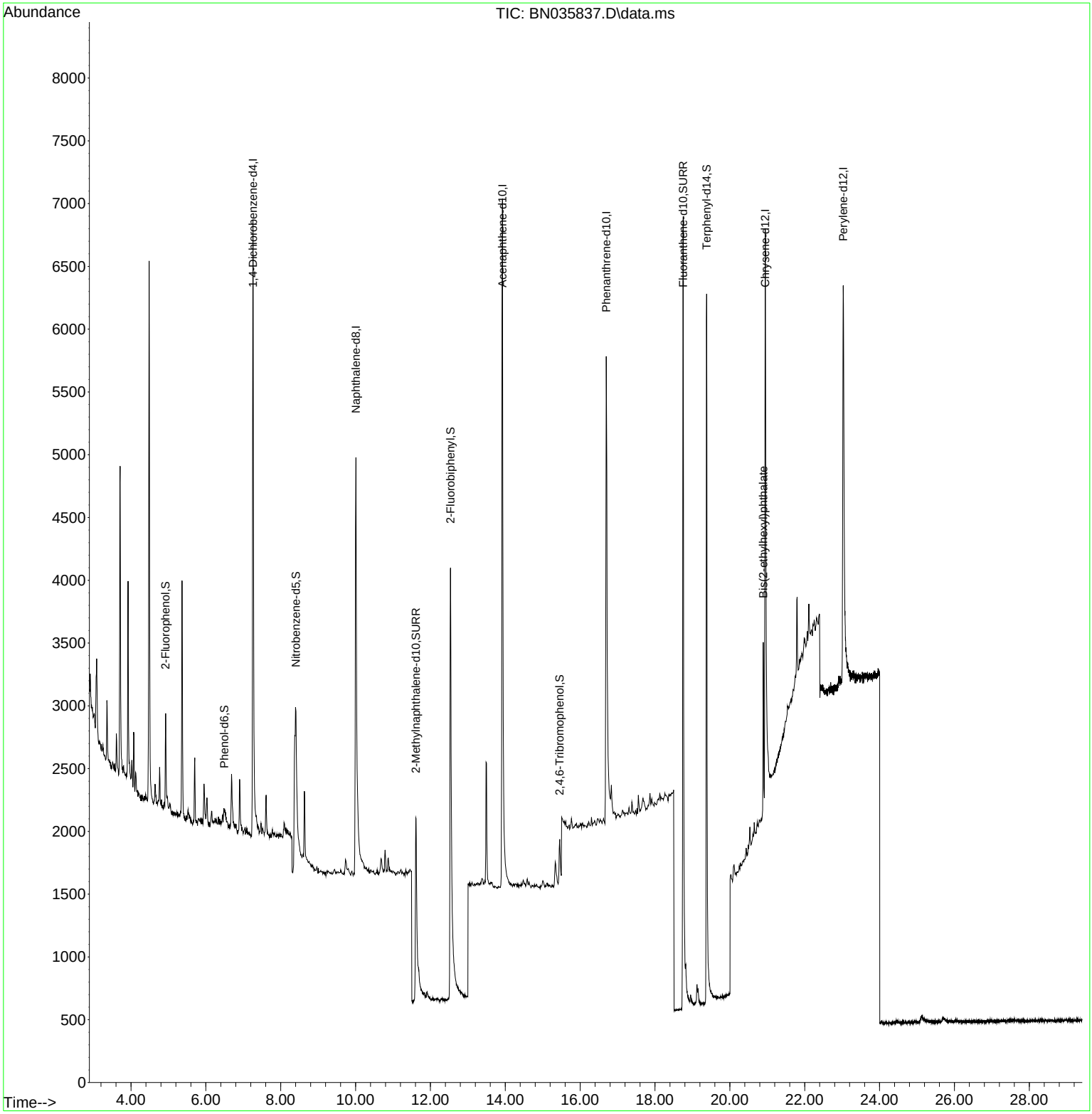
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2951	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	6785	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4279	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	8231	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	6628	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	5858	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	738	0.100	ng	-0.01
5) Phenol-d6	6.492	99	341	0.038	ng	0.00
8) Nitrobenzene-d5	8.408	82	2744	0.662	ng	0.00
11) 2-Methylnaphthalene-d10	11.610	152	3847	0.362	ng	-0.01
14) 2,4,6-Tribromophenol	15.453	330	557	0.183	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6166	0.381	ng	0.00
27) Fluoranthene-d10	18.752	212	9755	0.418	ng	0.00
31) Terphenyl-d14	19.379	244	7505	0.574	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.893	149	1349	0.147	ng	# 100

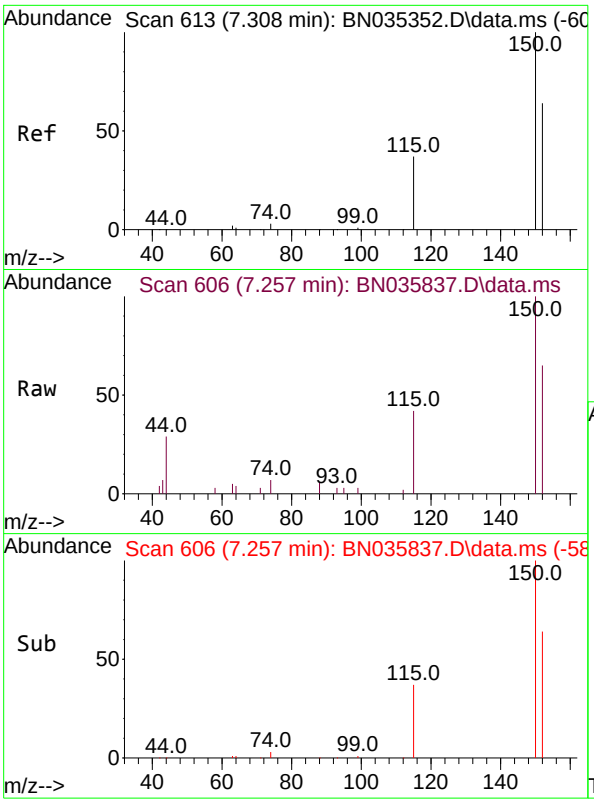
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035837.D
Acq On : 25 Dec 2024 01:40
Operator : RC/JU
Sample : P5376-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Quant Time: Dec 25 02:35:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



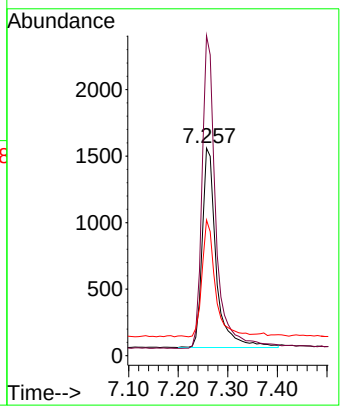


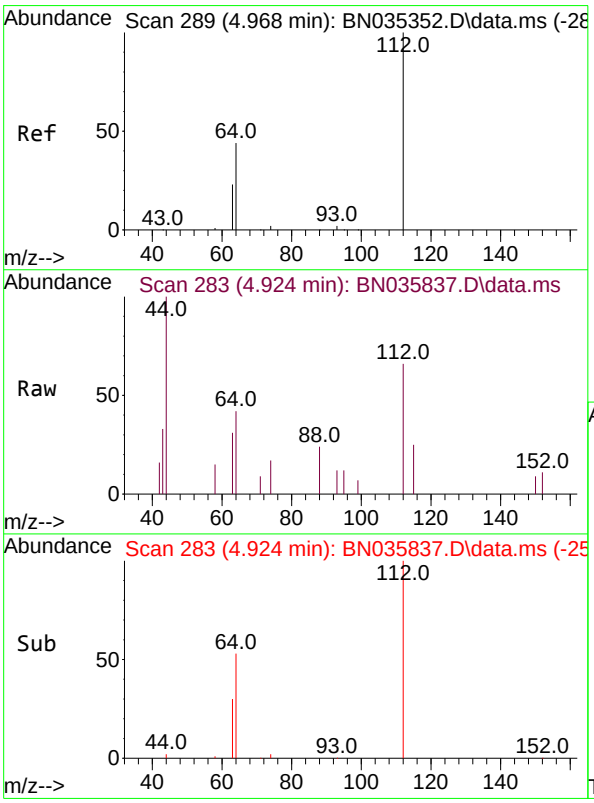
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Tgt Ion:152 Resp: 2951

Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.0	186.0
115	65.4	49.6	74.4

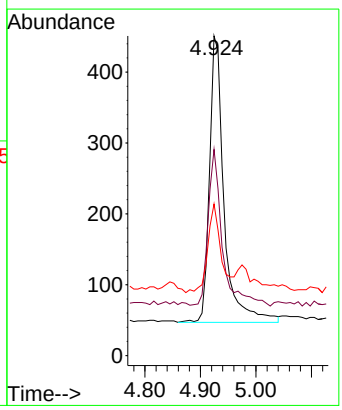


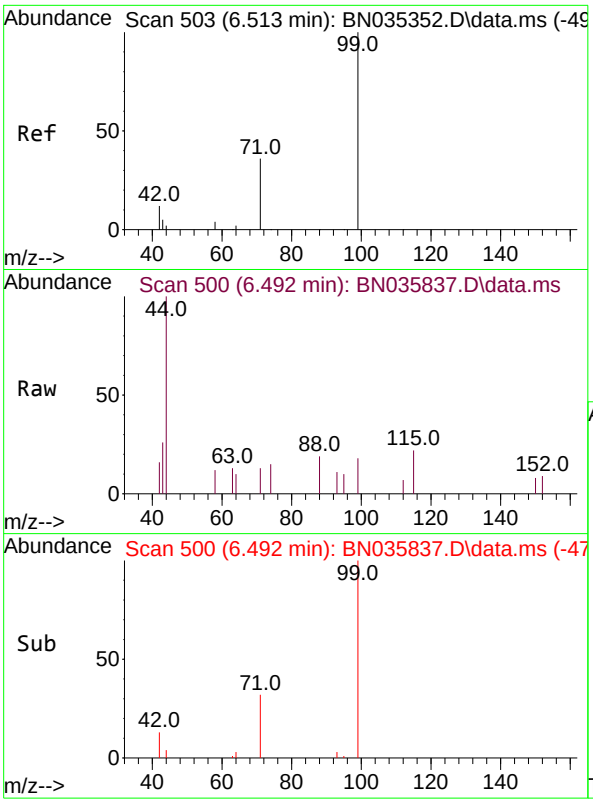


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:112 Resp: 738

Ion	Ratio	Lower	Upper
112	100		
64	53.7	39.8	59.8
63	27.2	21.0	31.6



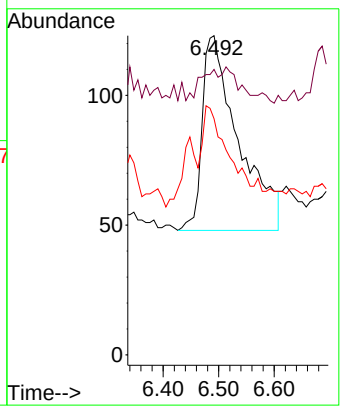


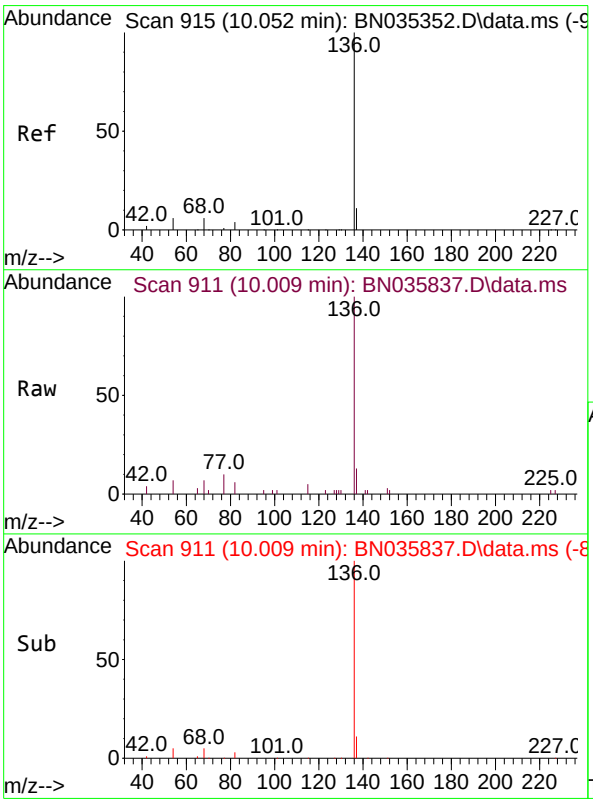
#5
Phenol-d6
Concen: 0.038 ng
RT: 6.492 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Tgt Ion: 99 Resp: 341

Ion	Ratio	Lower	Upper
99	100		
42	6.7	11.4	17.2#
71	30.5	29.3	43.9

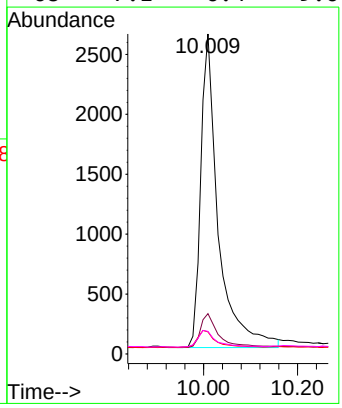


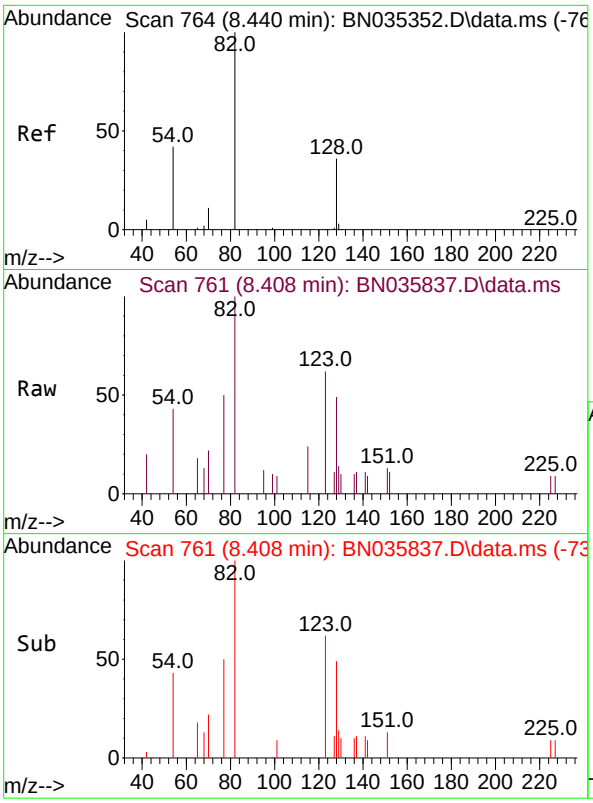


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:136 Resp: 6785

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6



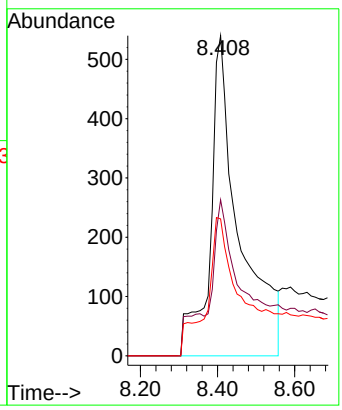


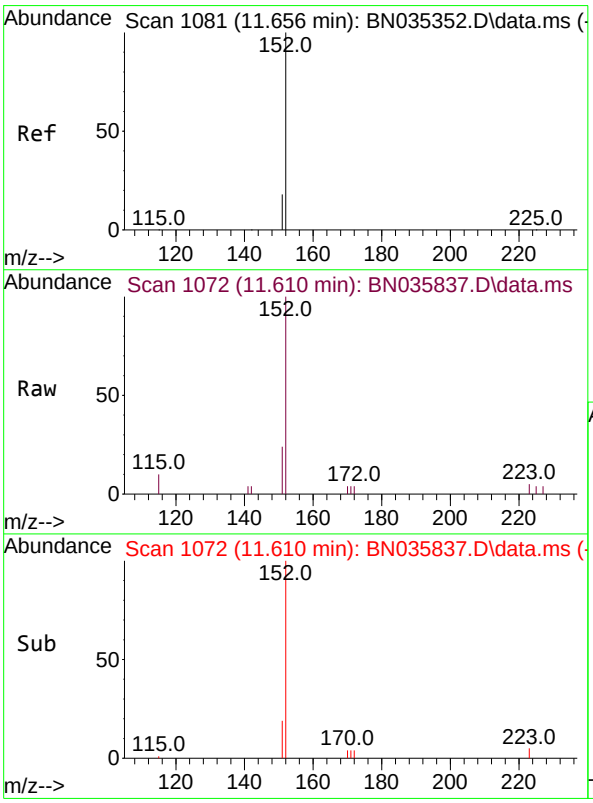
#8
Nitrobenzene-d5
Concen: 0.662 ng
RT: 8.408 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Tgt Ion: 82 Resp: 2744

Ion	Ratio	Lower	Upper
82	100		
128	48.7	33.4	50.0
54	42.8	36.7	55.1

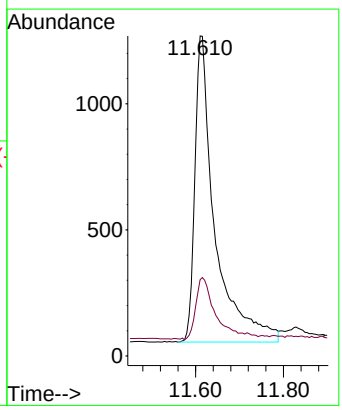


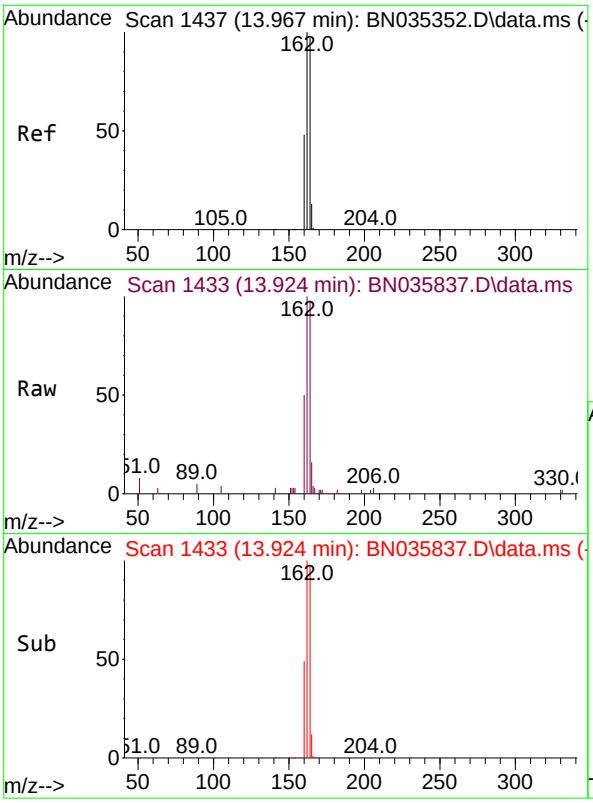


#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:152 Resp: 3847

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0



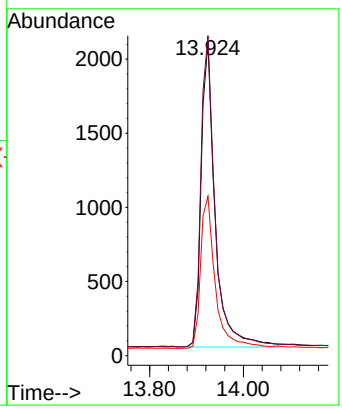


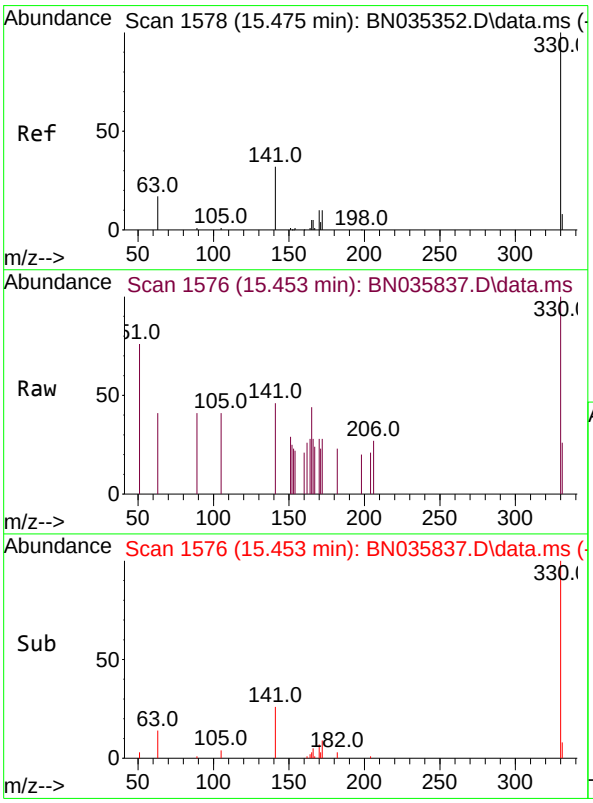
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Tgt Ion:164 Resp: 4279

Ion	Ratio	Lower	Upper
164	100		
162	102.1	82.2	123.2
160	50.9	40.1	60.1

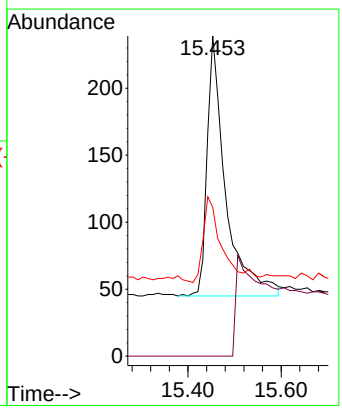


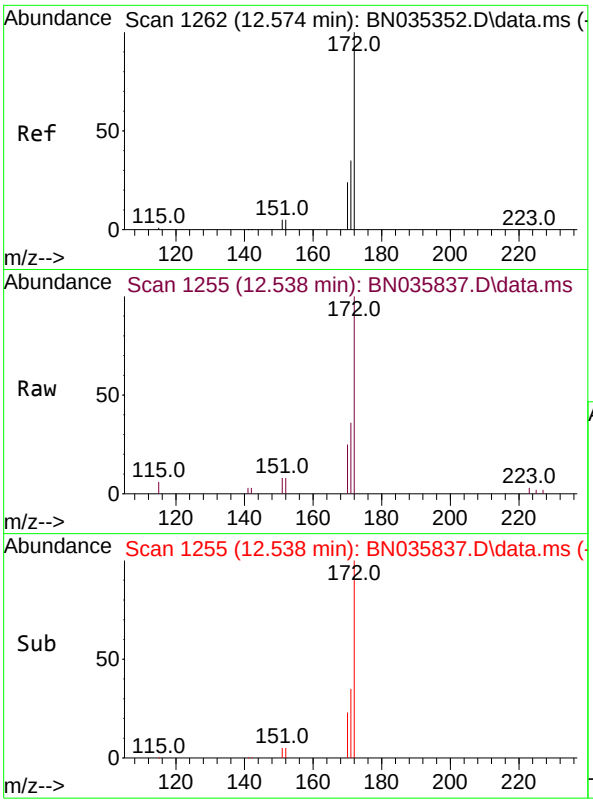


#14
2,4,6-Tribromophenol
Concen: 0.183 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:330 Resp: 557

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.9	26.6	40.0



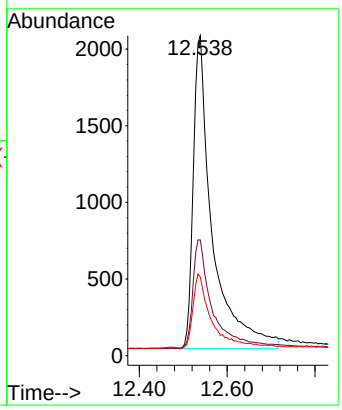


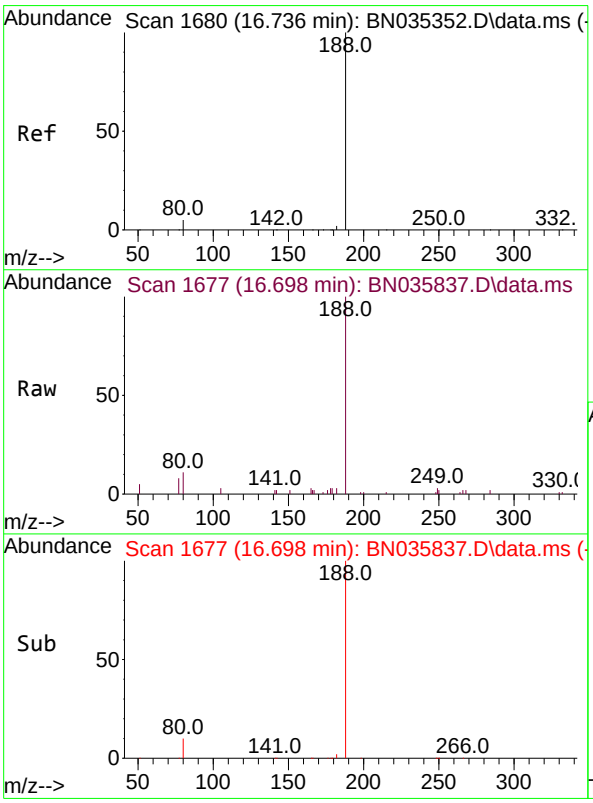
#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Tgt Ion:172 Resp: 6166

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.6	19.8	29.8

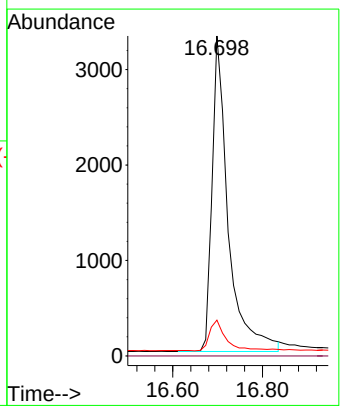


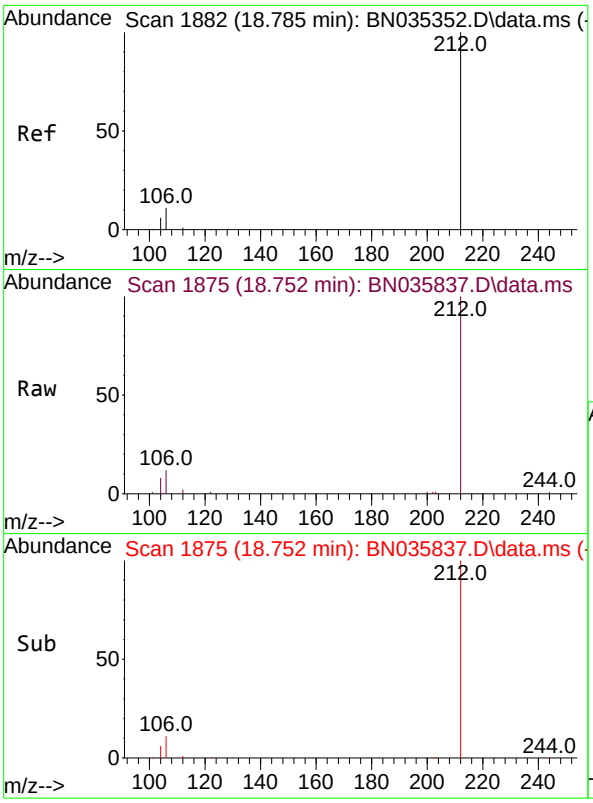


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:188 Resp: 8231

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.2	4.6	6.8#



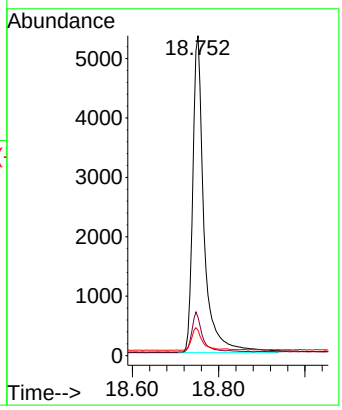


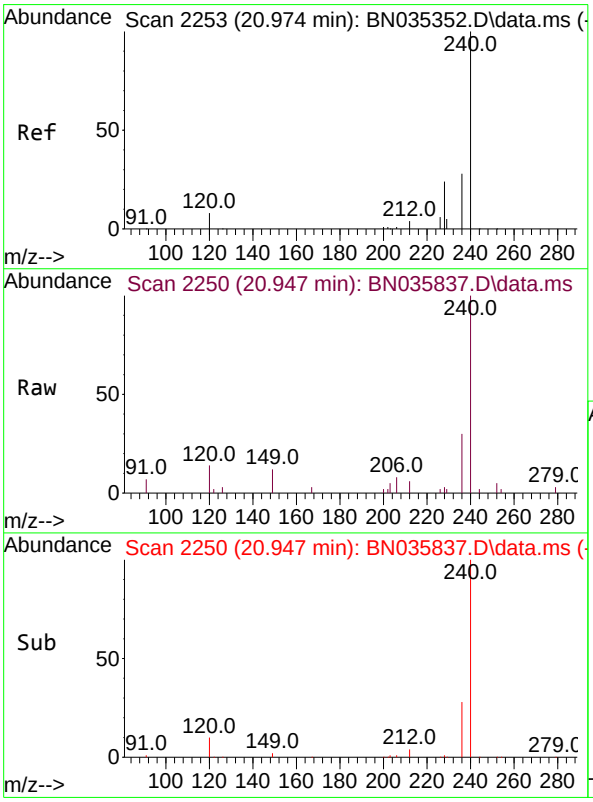
#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Tgt Ion:212 Resp: 9755

Ion	Ratio	Lower	Upper
212	100		
106	12.2	9.2	13.8
104	6.6	5.3	7.9

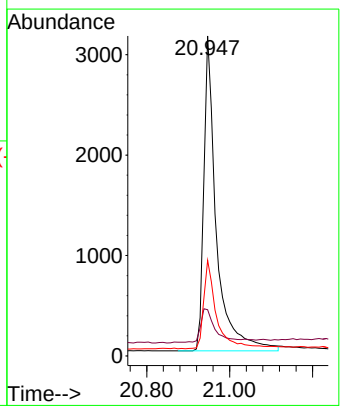


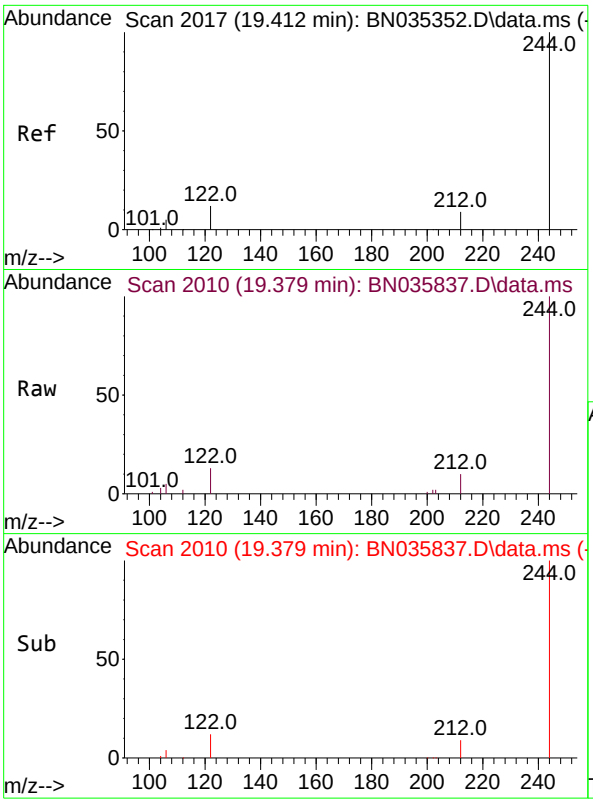


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:240 Resp: 6628

Ion	Ratio	Lower	Upper
240	100		
120	14.4	7.9	11.9#
236	29.9	22.9	34.3



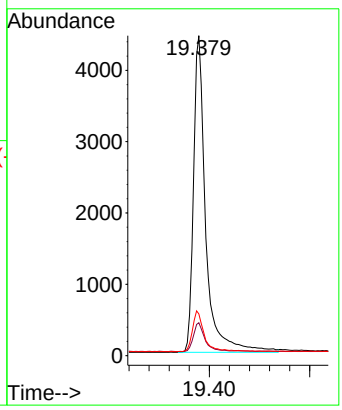


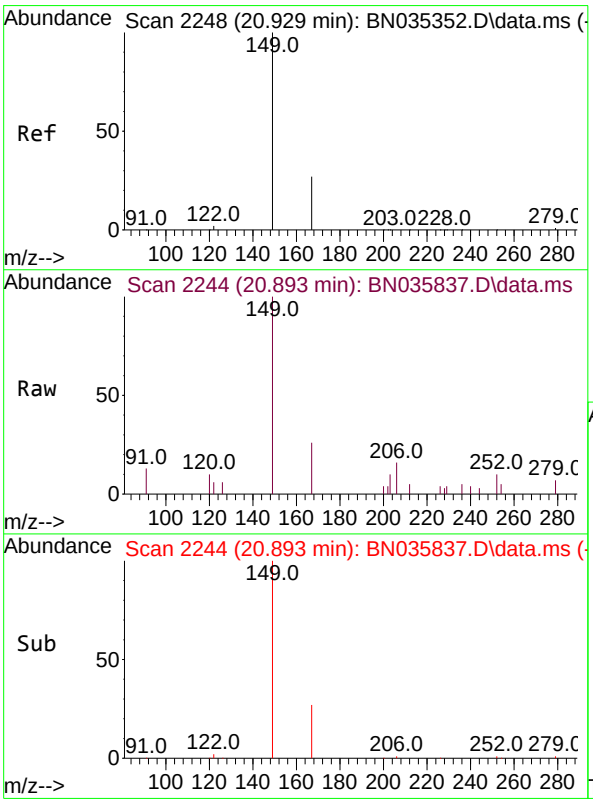
#31
Terphenyl-d14
Concen: 0.574 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Tgt Ion:244 Resp: 7505

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	13.1	10.3	15.5

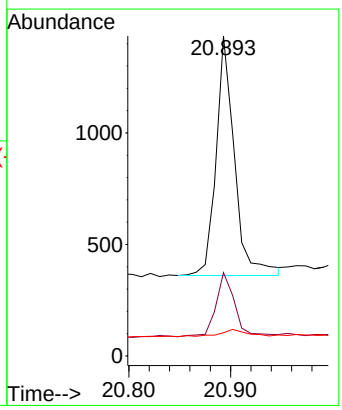


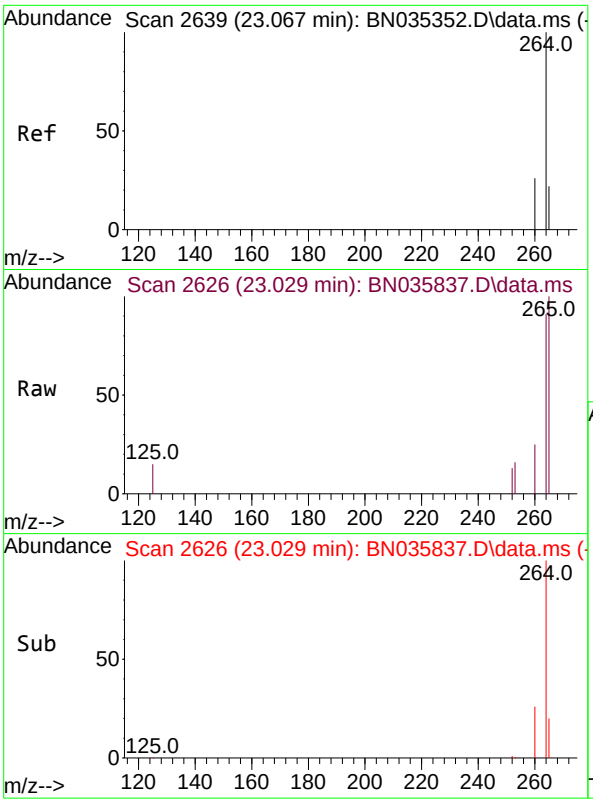


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.147 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Tgt Ion:149 Resp: 1349

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	4.4	2.7	4.1#



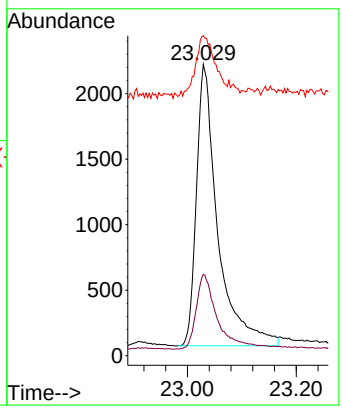


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035837.D
Acq: 25 Dec 2024 01:40

Instrument :
BNA_N
ClientSampleId :
FB03-20241219

Tgt Ion:264 Resp: 5858

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	109.9	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

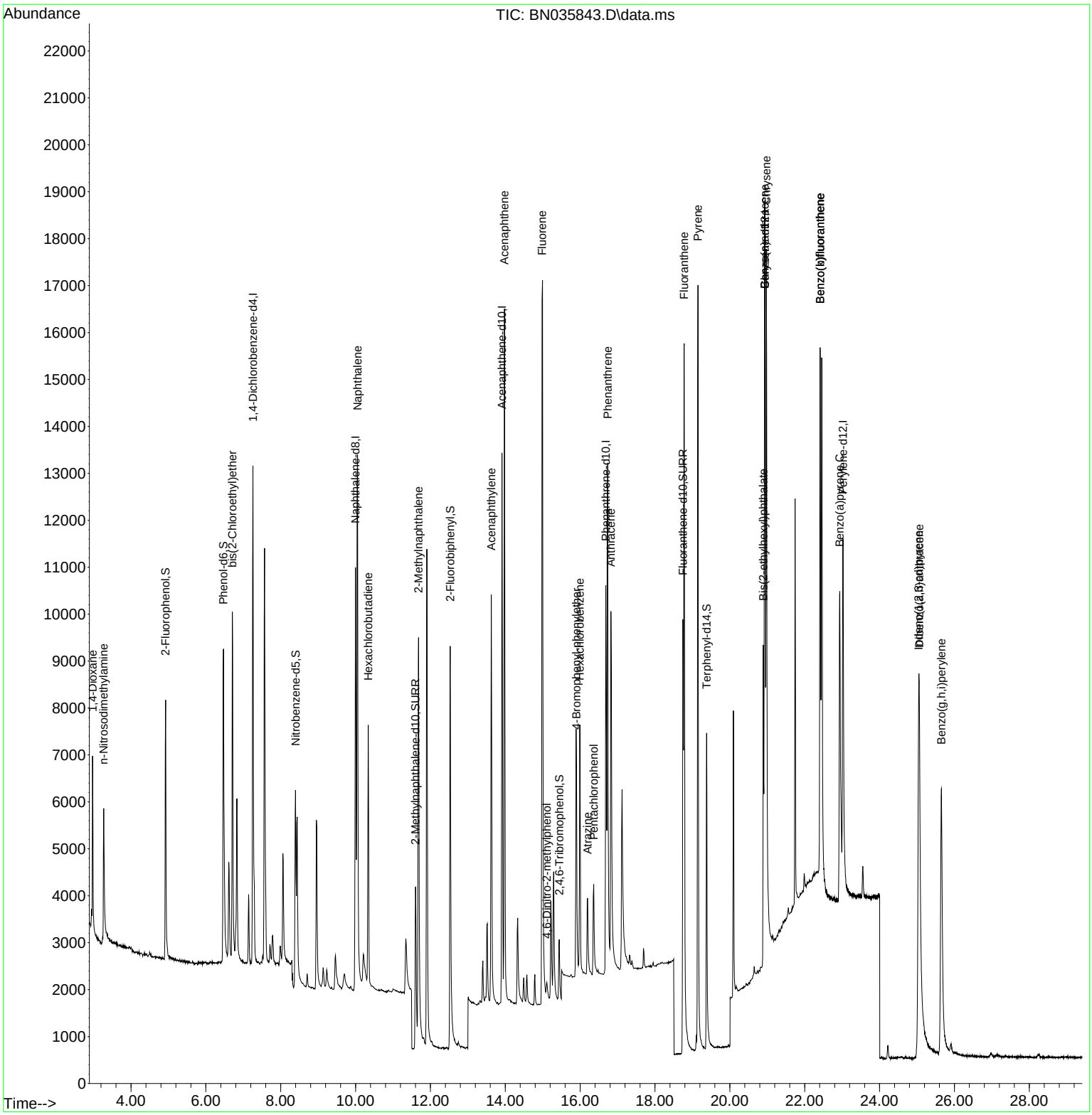
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	5156	0.400	ng		-0.01
7) Naphthalene-d8	9.998	136	13078	0.400	ng		#-0.02
13) Acenaphthene-d10	13.914	164	6801	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	13499	0.400	ng		#-0.01
29) Chrysene-d12	20.938	240	10827	0.400	ng		#-0.02
35) Perylene-d12	23.023	264	11272	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	4881	0.378	ng		-0.01
5) Phenol-d6	6.470	99	8113	0.523	ng		-0.02
8) Nitrobenzene-d5	8.397	82	4915	0.615	ng		-0.01
11) 2-Methylnaphthalene-d10	11.600	152	6864	0.335	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	1590	0.329	ng		-0.01
15) 2-Fluorobiphenyl	12.528	172	10817	0.421	ng		-0.02
27) Fluoranthene-d10	18.747	212	12946	0.338	ng		-0.01
31) Terphenyl-d14	19.379	244	8772	0.411	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	2628	0.533	ng		99
3) n-Nitrosodimethylamine	3.270	42	1575	0.384	ng	#	83
6) bis(2-Chloroethyl)ether	6.708	93	6304	0.483	ng		99
9) Naphthalene	10.052	128	17615	0.511	ng		98
10) Hexachlorobutadiene	10.340	225	4448	0.559	ng	#	99
12) 2-Methylnaphthalene	11.681	142	8694	0.352	ng		98
16) Acenaphthylene	13.625	152	10564	0.370	ng		99
17) Acenaphthene	13.978	154	7280	0.384	ng		99
18) Fluorene	14.983	166	9290	0.342	ng		100
20) 4,6-Dinitro-2-methylph...	15.111	198	461	0.347	ng	#	44
21) 4-Bromophenyl-phenylether	15.904	248	2960	0.375	ng		96
22) Hexachlorobenzene	15.991	284	4352	0.469	ng		95
23) Atrazine	16.202	200	2032	0.362	ng		93
24) Pentachlorophenol	16.363	266	1431	0.355	ng	#	85
25) Phenanthrene	16.735	178	14253	0.384	ng		99
26) Anthracene	16.822	178	11727	0.350	ng		99
28) Fluoranthene	18.780	202	16856	0.337	ng		99
30) Pyrene	19.147	202	17619	0.441	ng		99
32) Benzo(a)anthracene	20.929	228	13110	0.346	ng		99
33) Chrysene	20.974	228	16237	0.416	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	5933	0.397	ng		99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15331	0.348	ng		99
37) Benzo(b)fluoranthene	22.412	252	25617	0.621	ng	#	96
38) Benzo(k)fluoranthene	22.412	252	25617	0.631	ng		97
39) Benzo(a)pyrene	22.936	252	12667	0.373	ng	#	90
40) Dibenzo(a,h)anthracene	25.061	278	11116	0.320	ng		94
41) Benzo(g,h,i)perylene	25.652	276	14070	0.387	ng		98

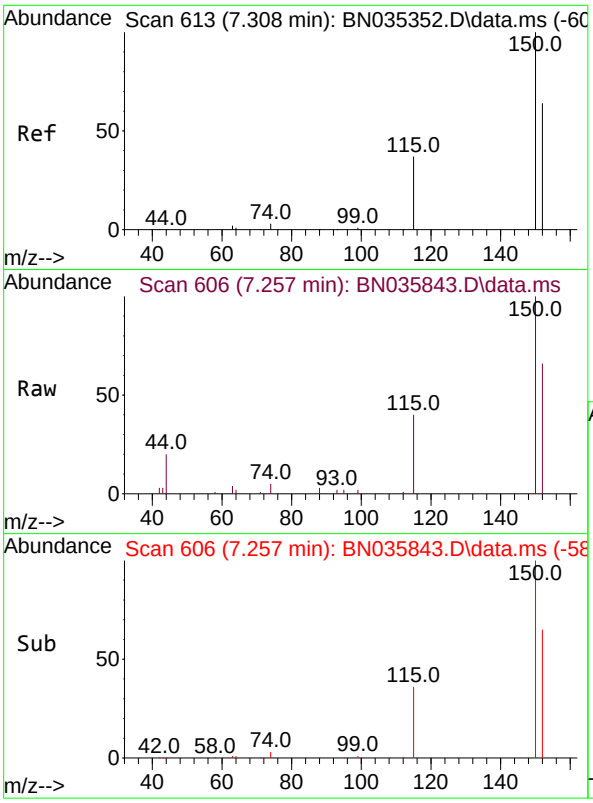
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035843.D
Acq On : 25 Dec 2024 05:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 25 07:05:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



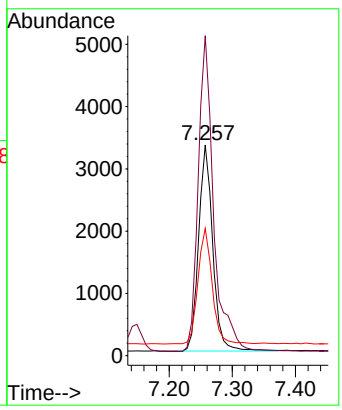


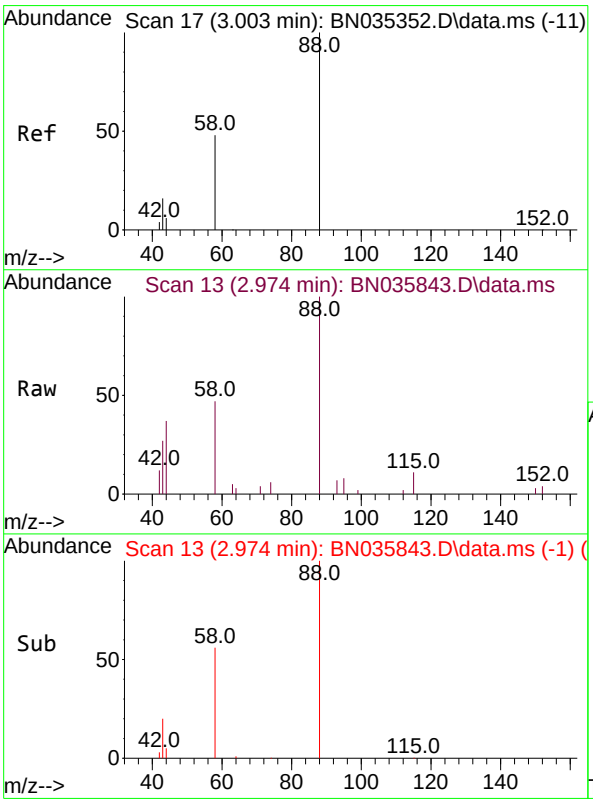
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5156

Ion	Ratio	Lower	Upper
152	100		
150	151.9	124.0	186.0
115	60.4	49.6	74.4

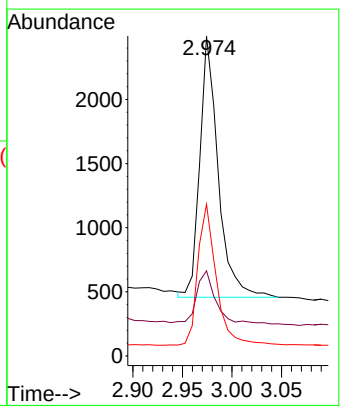


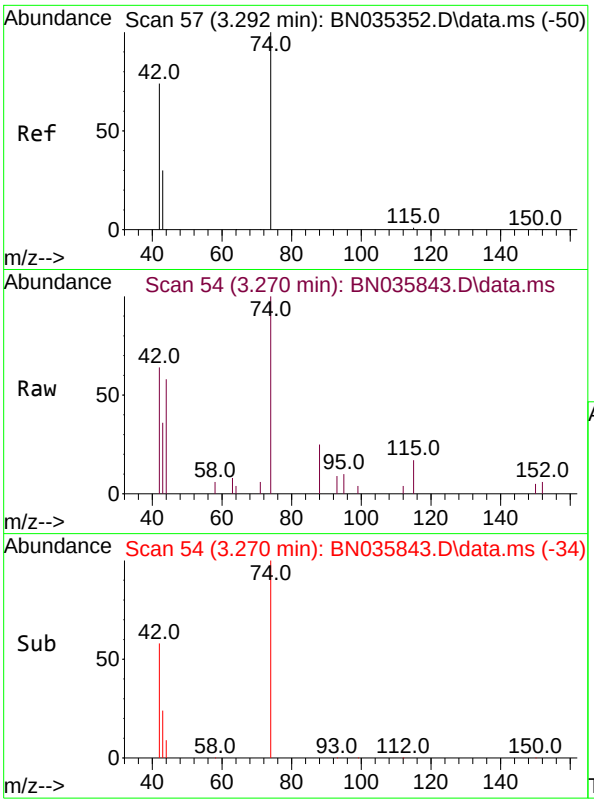


#2
1,4-Dioxane
Concen: 0.533 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 88 Resp: 2628

Ion	Ratio	Lower	Upper
88	100		
43	21.2	17.2	25.8
58	54.7	44.5	66.7



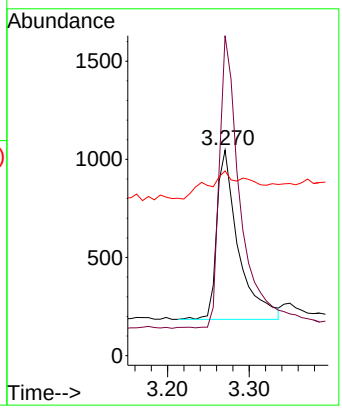


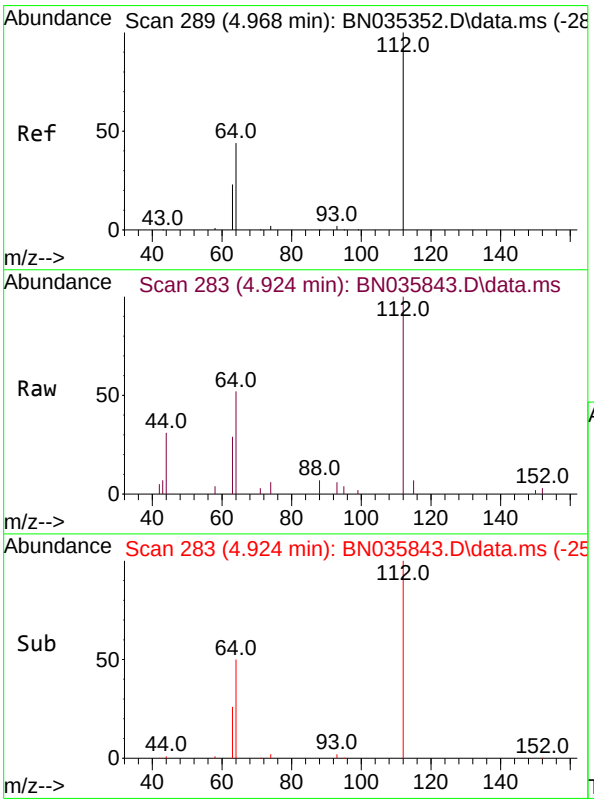
#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1575

Ion	Ratio	Lower	Upper
42	100		
74	177.0	124.9	187.3
44	20.2	2.2	3.4#

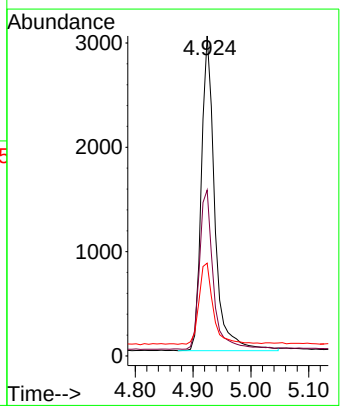


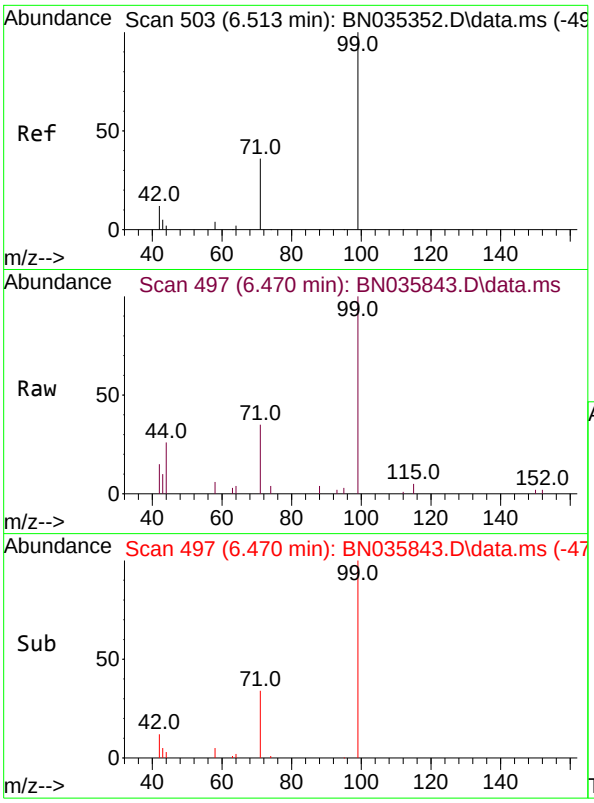


#4
2-Fluorophenol
Concen: 0.378 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:112 Resp: 4881

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	27.3	21.0	31.6



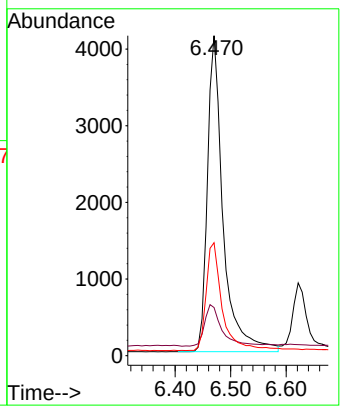


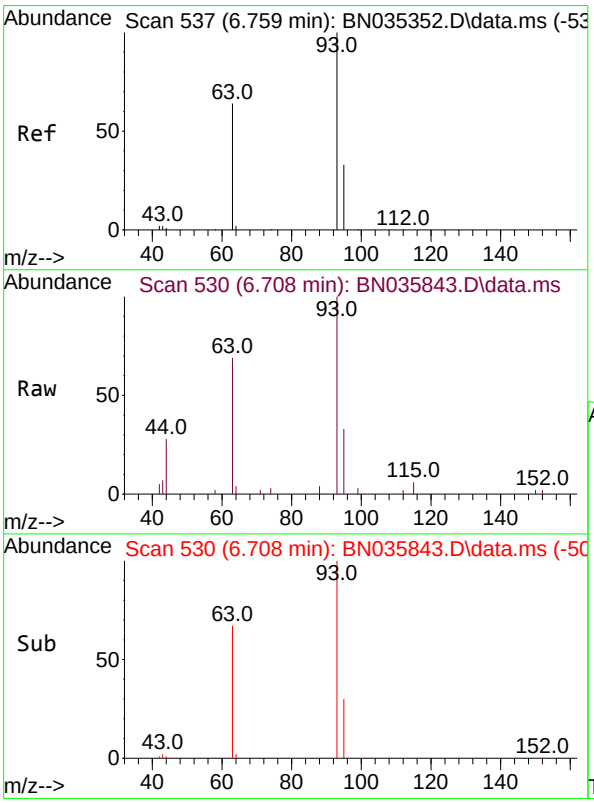
#5
Phenol-d6
Concen: 0.523 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 8113

Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.5	29.3	43.9

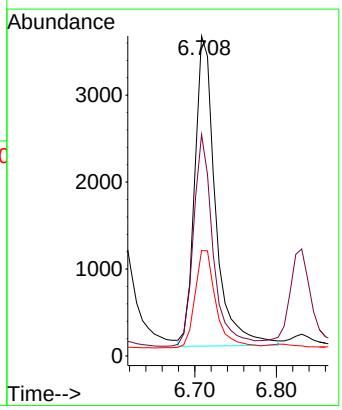


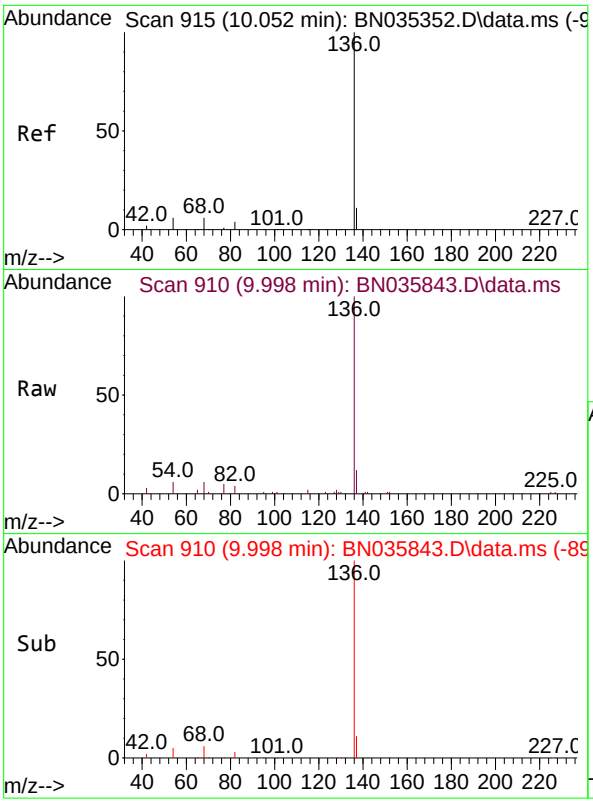


#6
bis(2-Chloroethyl)ether
Concen: 0.483 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 93 Resp: 6304

Ion	Ratio	Lower	Upper
93	100		
63	64.6	50.4	75.6
95	32.1	25.7	38.5



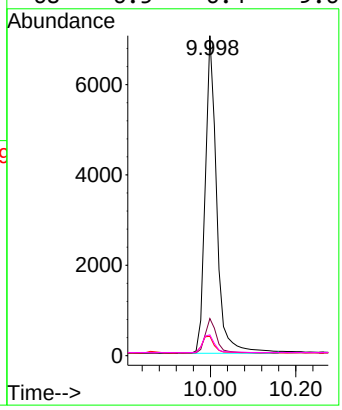


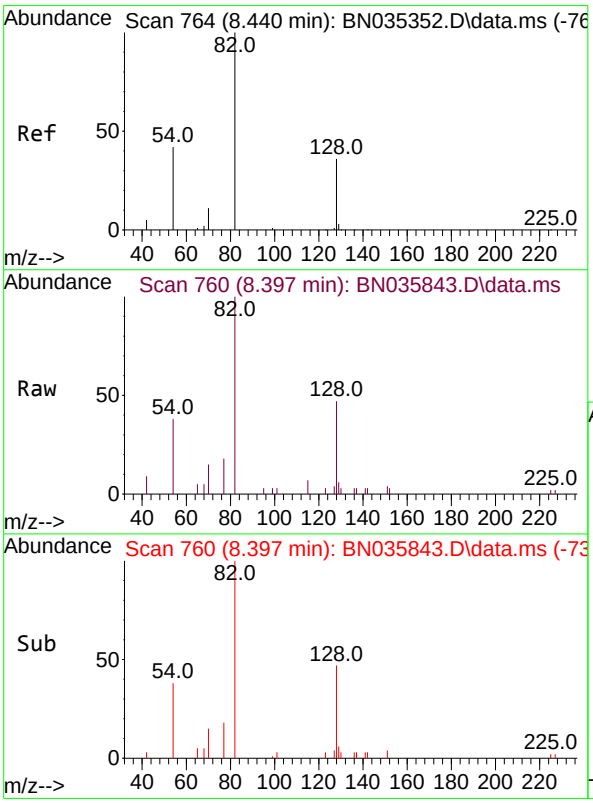
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 13078

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	6.1	6.1	9.1#
68	6.5	6.4	9.6

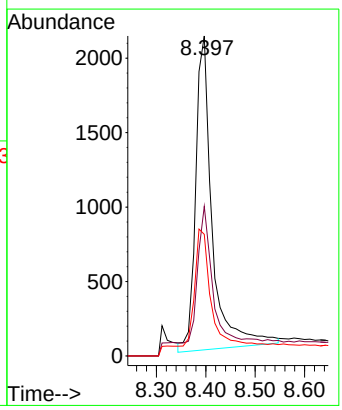


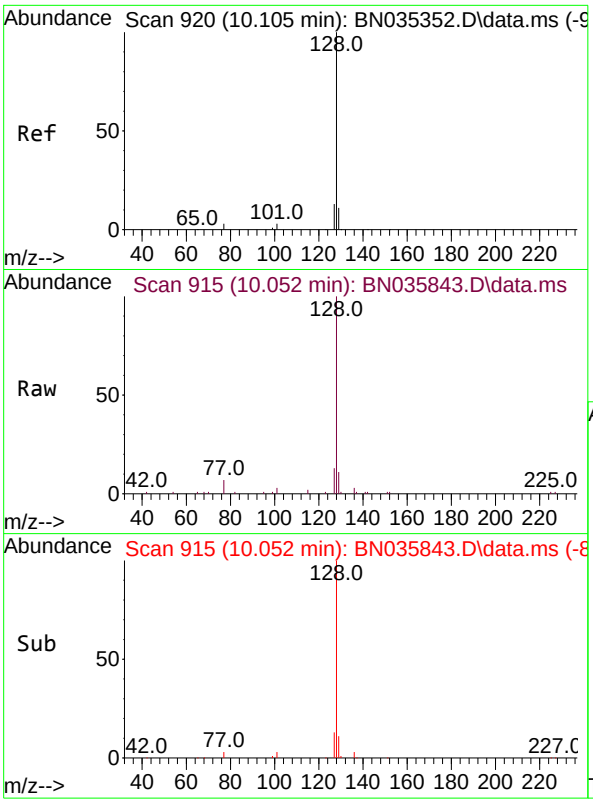


#8
Nitrobenzene-d5
Concen: 0.615 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion: 82 Resp: 4915

Ion	Ratio	Lower	Upper
82	100		
128	46.8	33.4	50.0
54	38.0	36.7	55.1



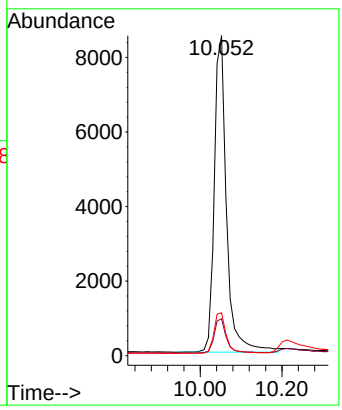


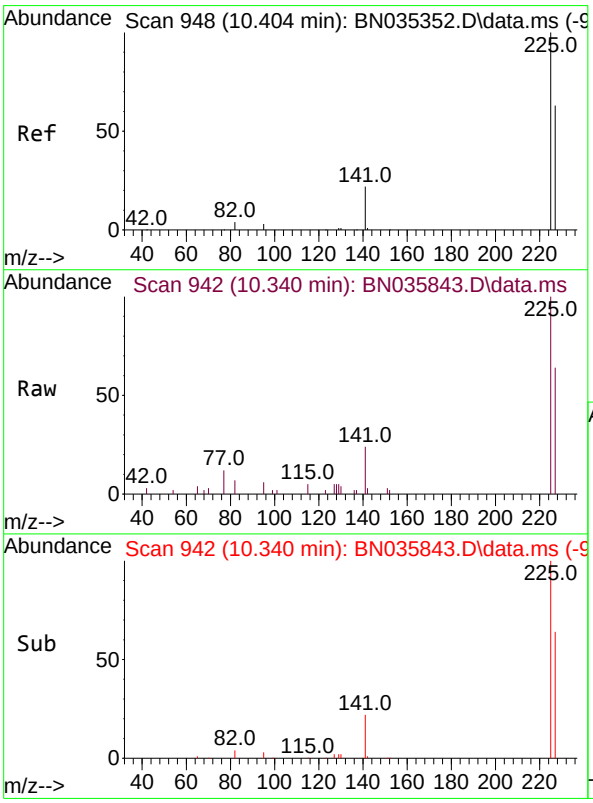
#9
Naphthalene
Concen: 0.511 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 17615

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.8	14.6
127	13.4	11.4	17.2

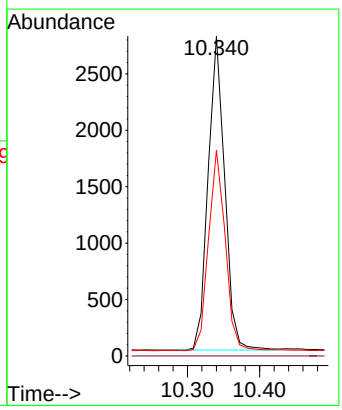


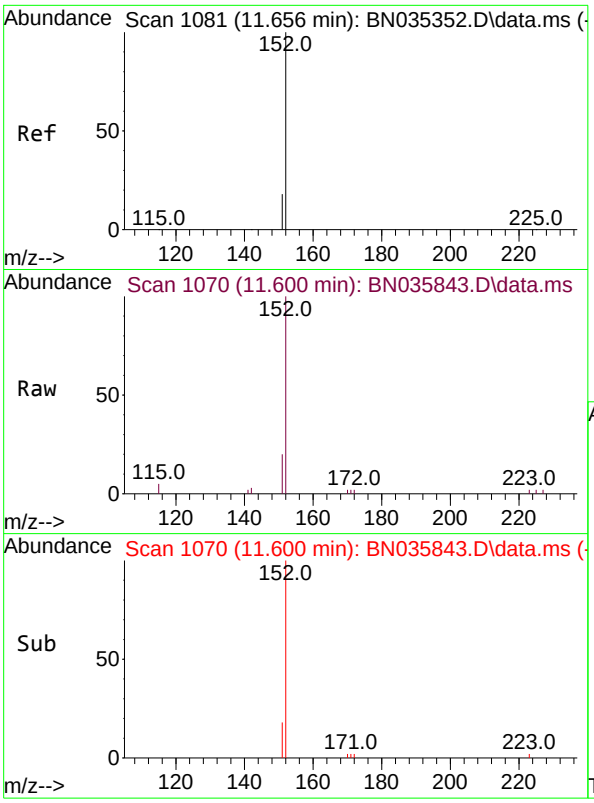


#10
Hexachlorobutadiene
Concen: 0.559 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:225 Resp: 4448

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.3	76.9



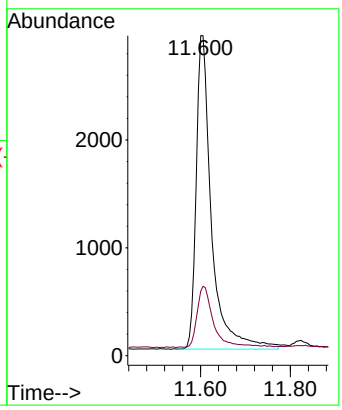


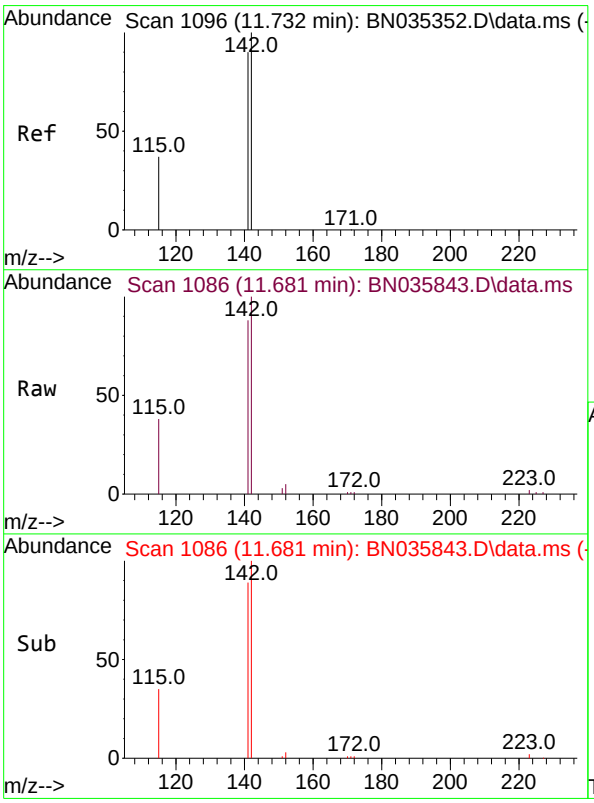
#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6864

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

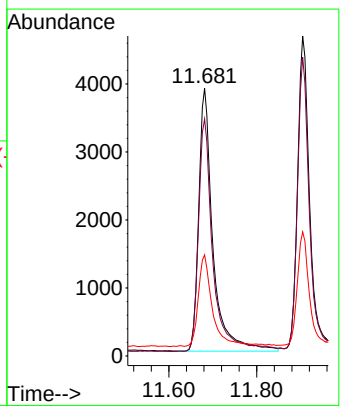


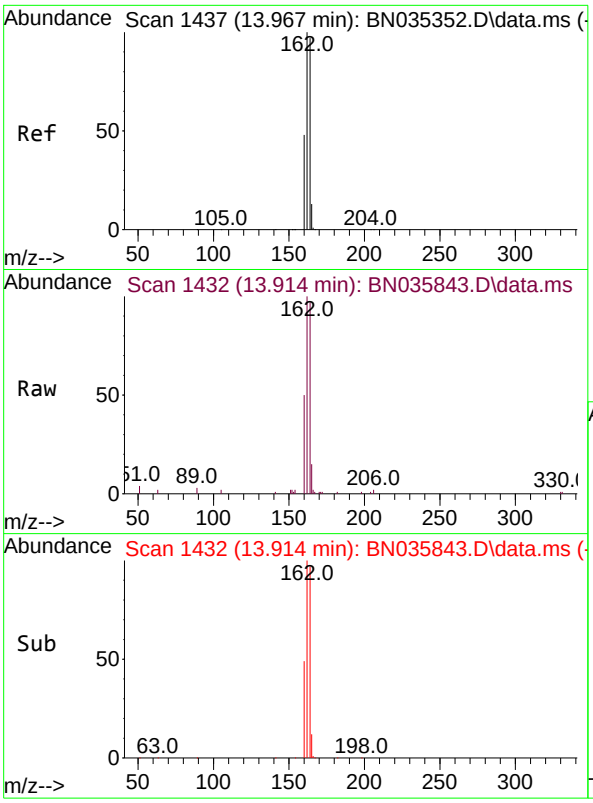


#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:142 Resp: 8694

Ion	Ratio	Lower	Upper
142	100		
141	88.5	72.2	108.4
115	37.8	31.4	47.0



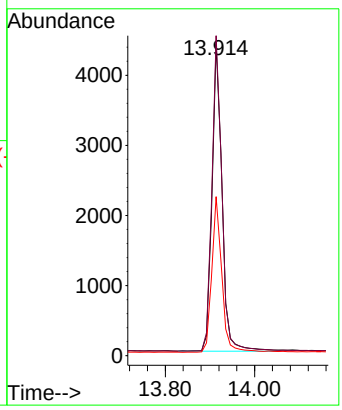


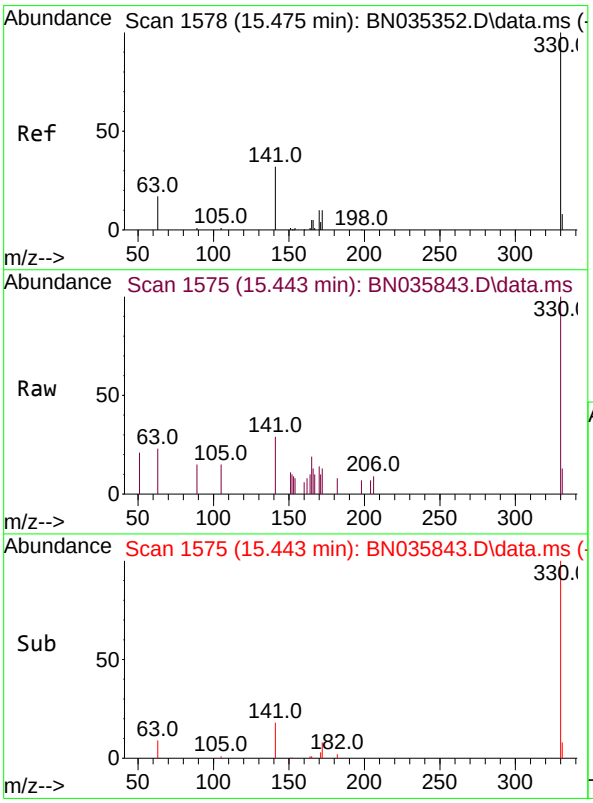
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 6801

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	51.0	40.1	60.1

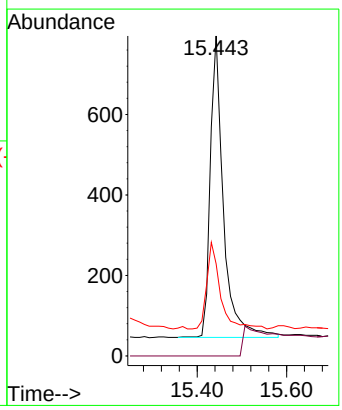


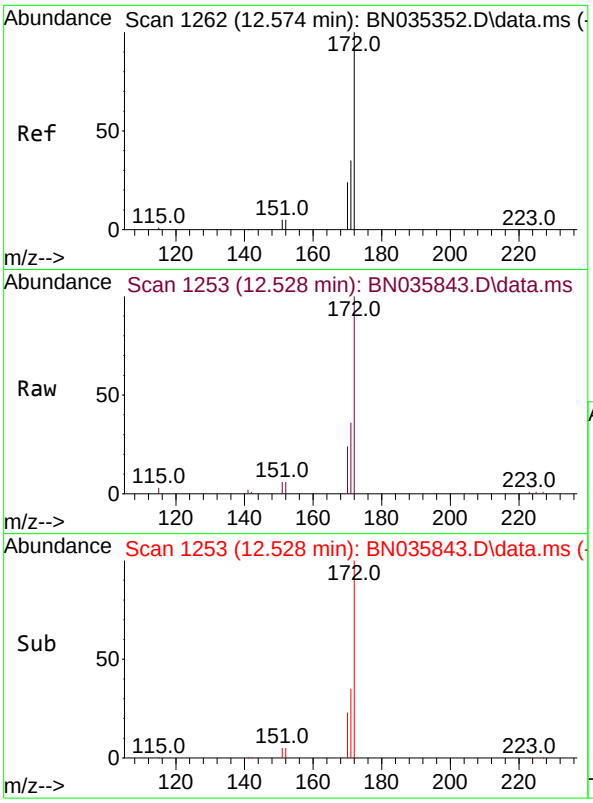


#14
2,4,6-Tribromophenol
Concen: 0.329 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:330 Resp: 1590

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.5	26.6	40.0



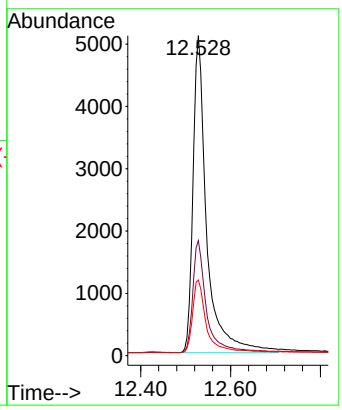


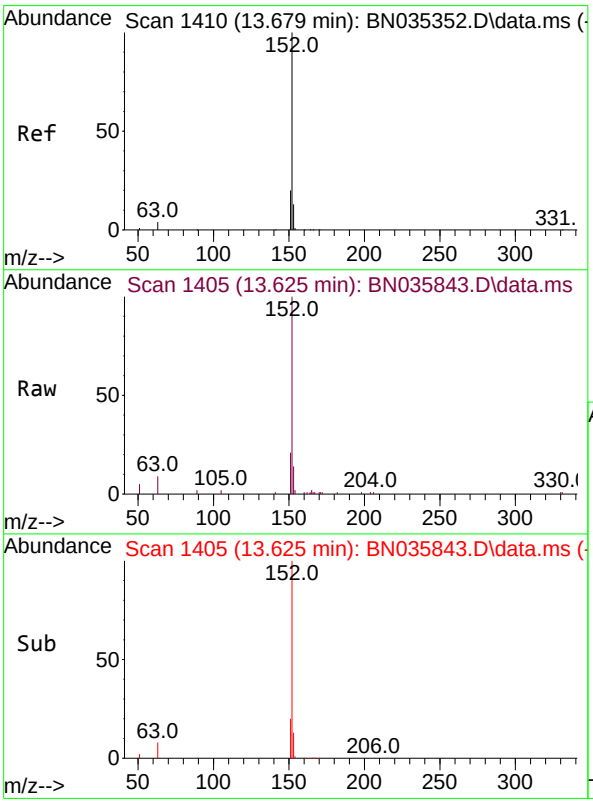
#15
2-Fluorobiphenyl
Concen: 0.421 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 10817

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	23.6	19.8	29.8

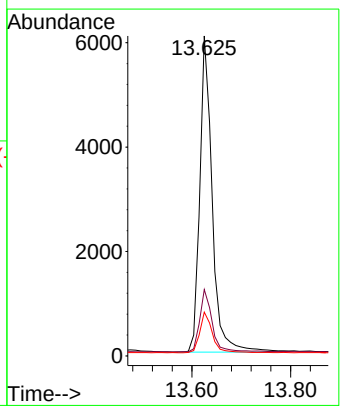


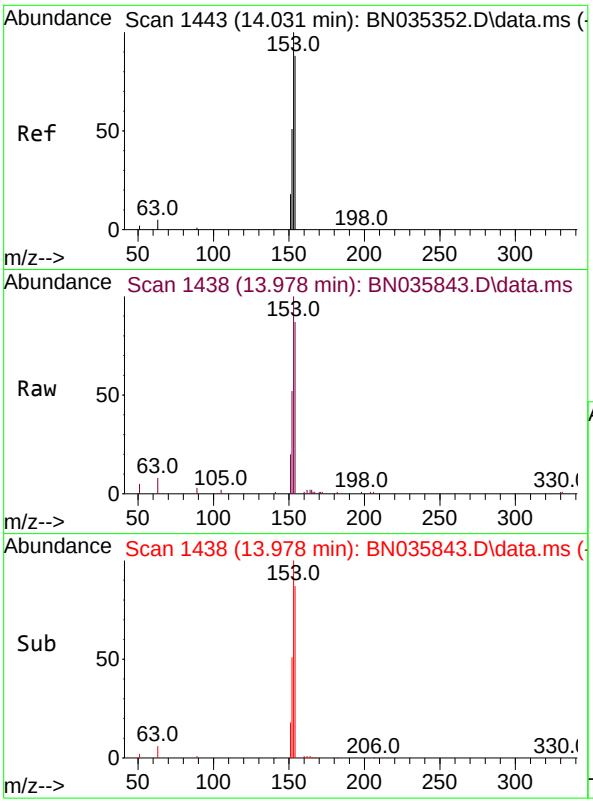


#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:152 Resp: 10564

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.1	10.4	15.6



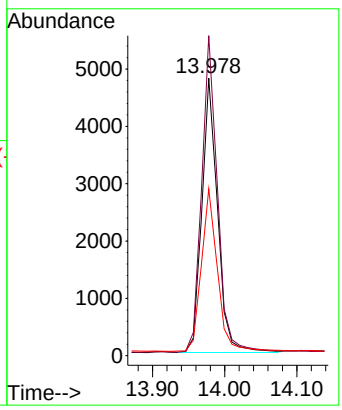


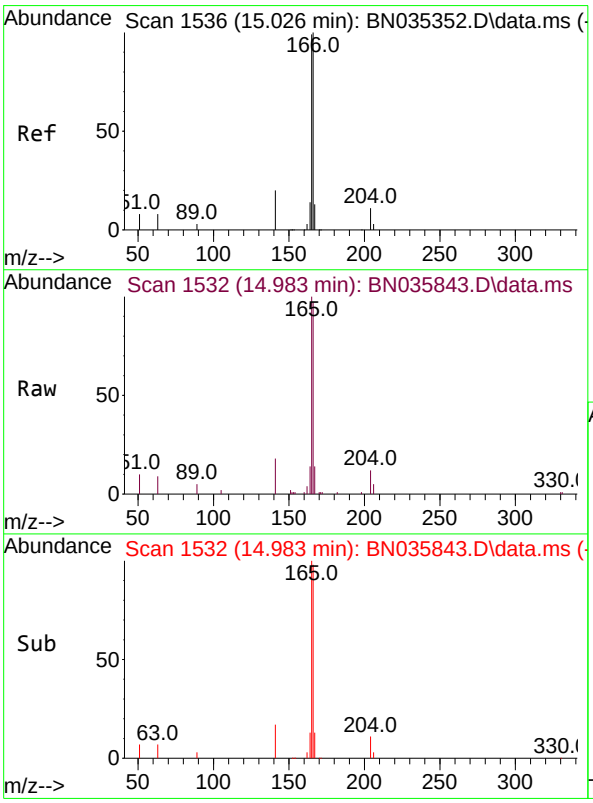
#17
Acenaphthene
Concen: 0.384 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 7280

Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	60.3	49.0	73.6

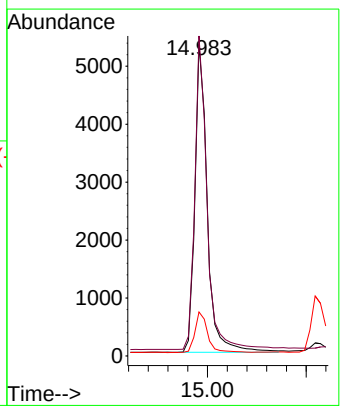


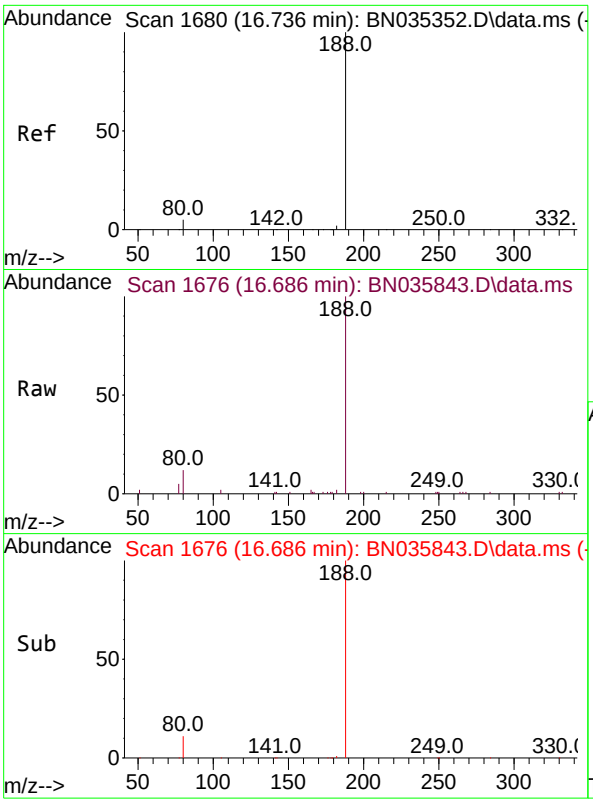


#18
Fluorene
Concen: 0.342 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:166 Resp: 9290

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.7	119.5
167	13.4	10.8	16.2



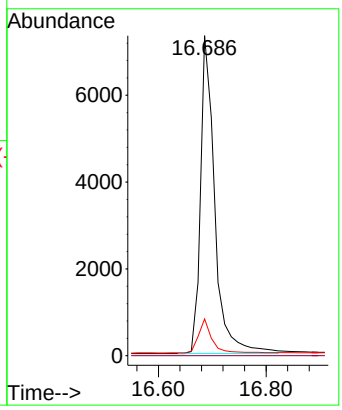


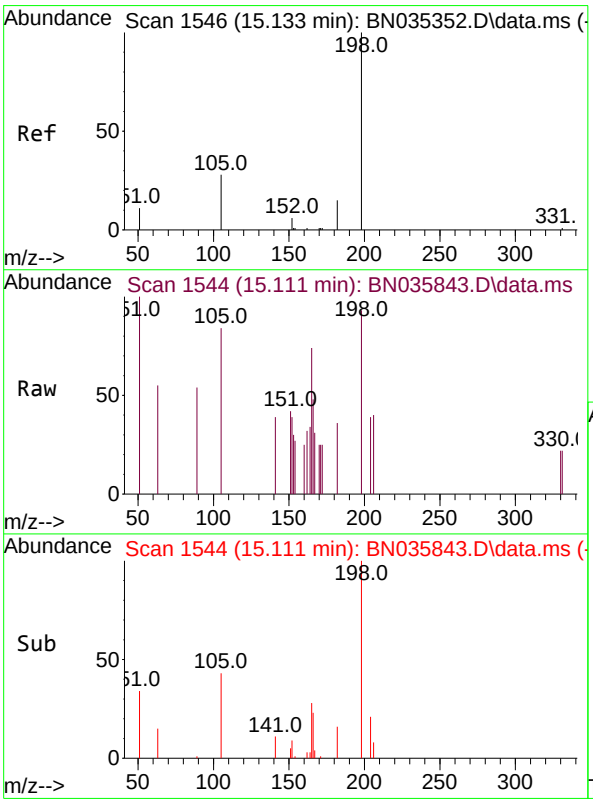
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 13499

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	4.6	6.8#

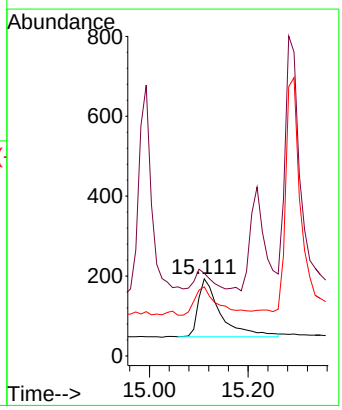


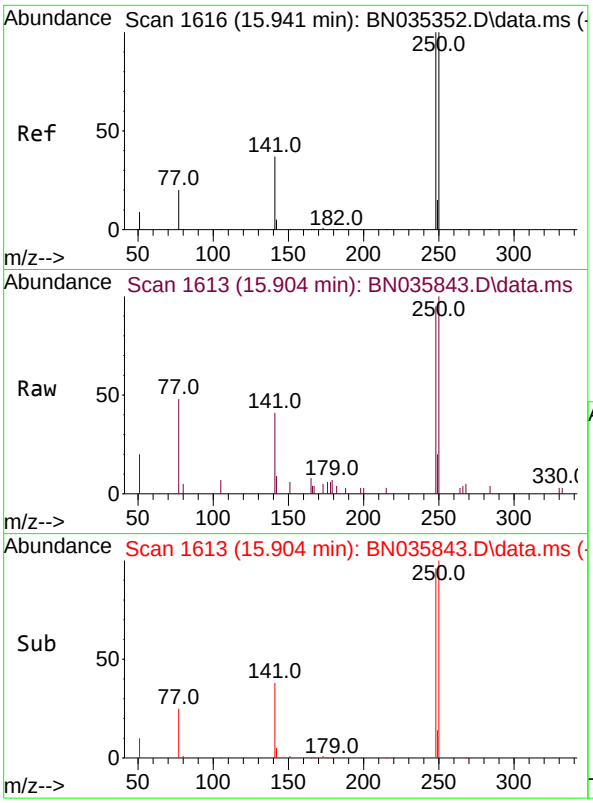


#20
4,6-Dinitro-2-methylphenol
Concen: 0.347 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:198 Resp: 461

Ion	Ratio	Lower	Upper
198	100		
51	107.3	46.5	69.7#
105	89.6	45.3	67.9#



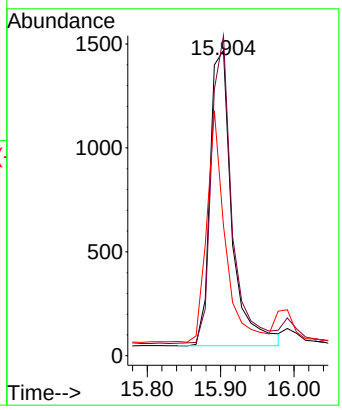


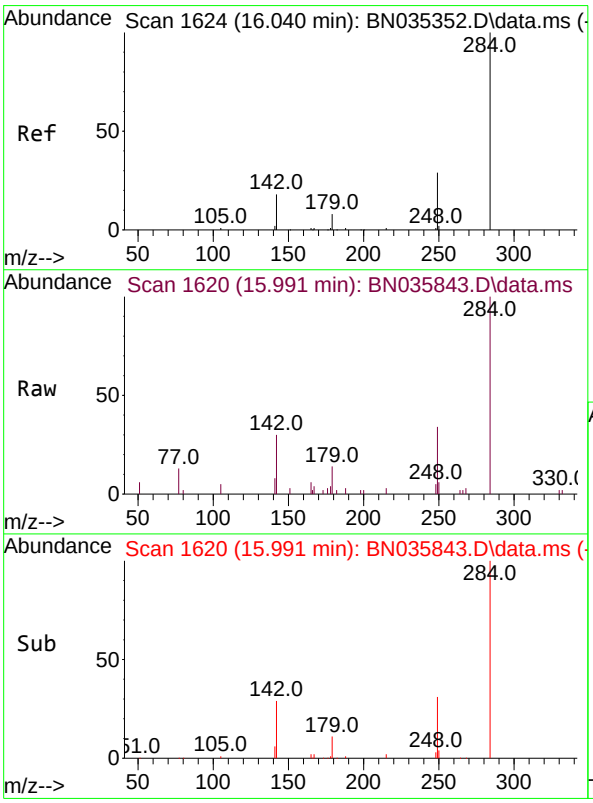
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2960

Ion	Ratio	Lower	Upper
248	100		
250	104.8	80.6	120.8
141	42.5	31.5	47.3

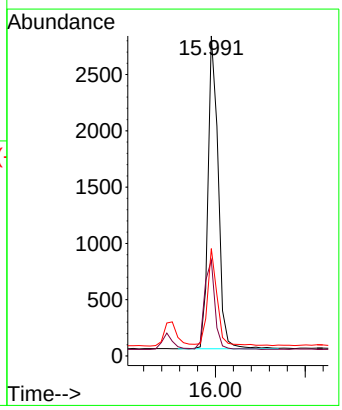


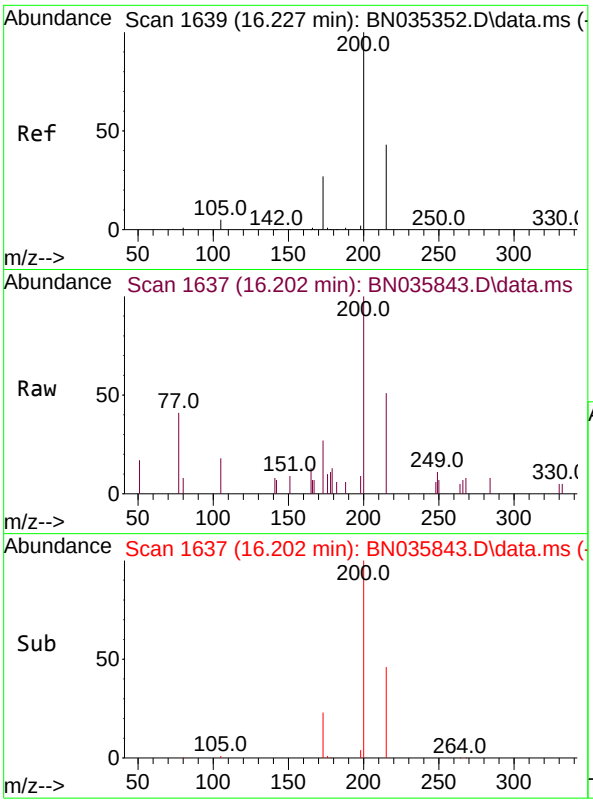


#22
Hexachlorobenzene
Concen: 0.469 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:284 Resp: 4352

Ion	Ratio	Lower	Upper
284	100		
142	29.5	26.7	40.1
249	29.5	24.6	36.8



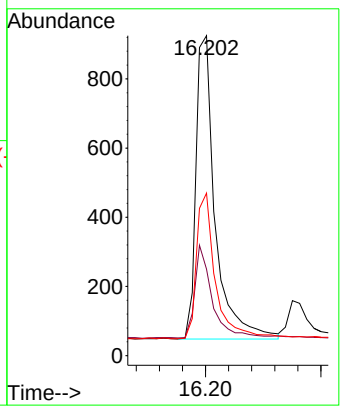


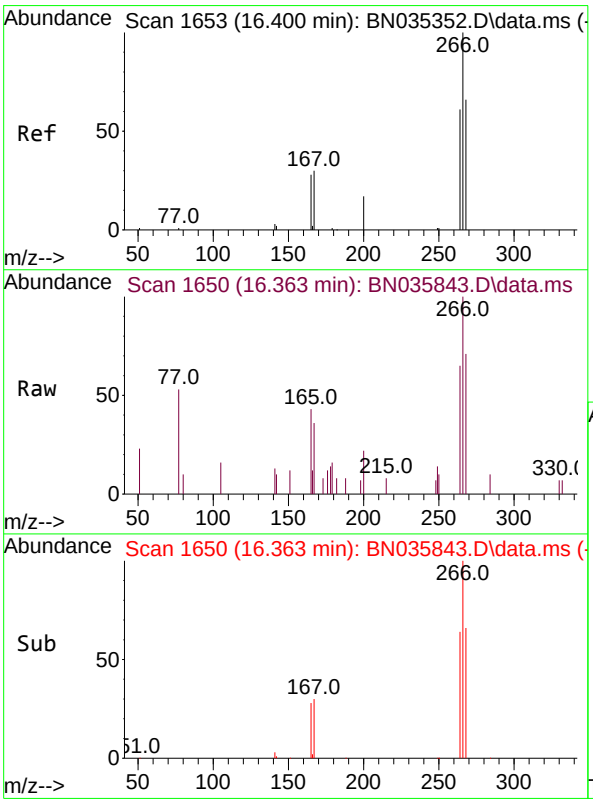
#23
Atrazine
Concen: 0.362 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2032

Ion	Ratio	Lower	Upper
200	100		
173	27.0	24.1	36.1
215	50.8	36.9	55.3

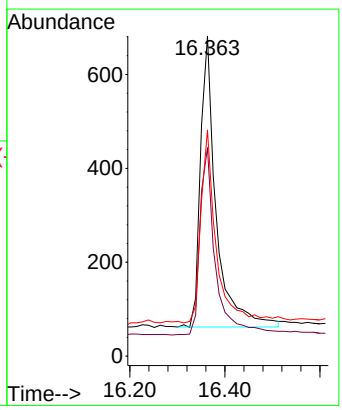


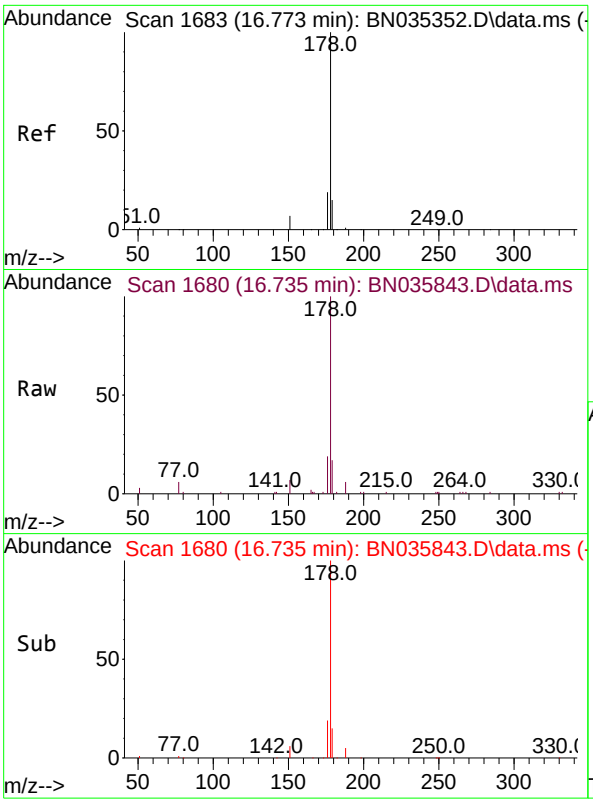


#24
Pentachlorophenol
Concen: 0.355 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:266 Resp: 1431

Ion	Ratio	Lower	Upper
266	100		
264	63.7	42.3	63.5#
268	64.5	43.3	64.9



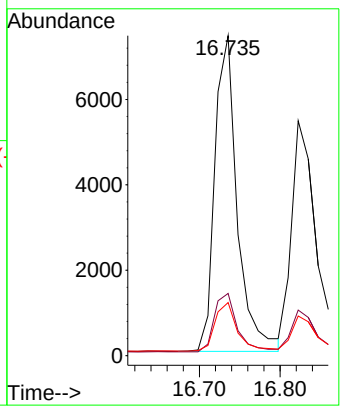


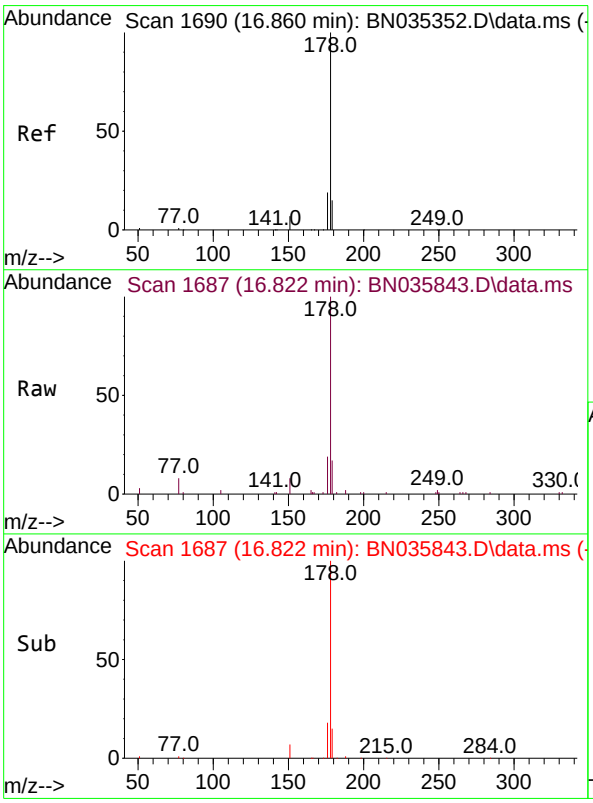
#25
Phenanthrene
Concen: 0.384 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 14253

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.4	12.3	18.5

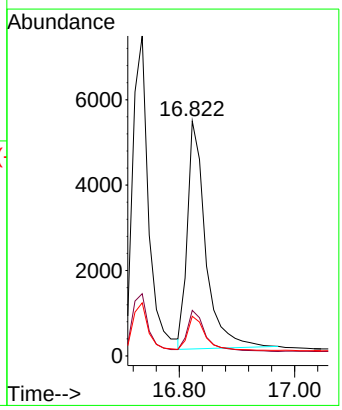


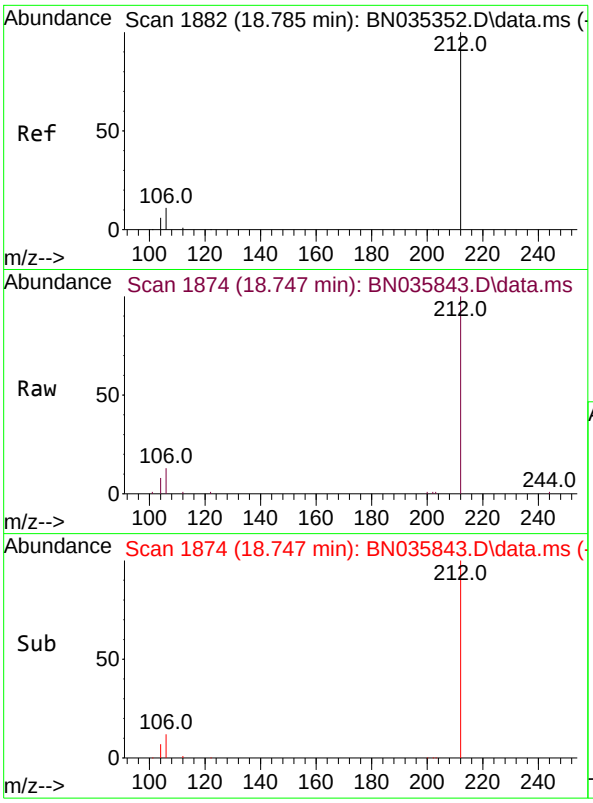


#26
Anthracene
Concen: 0.350 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:178 Resp: 11727

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.0	12.6	18.8



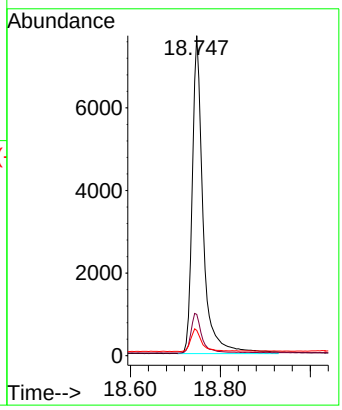


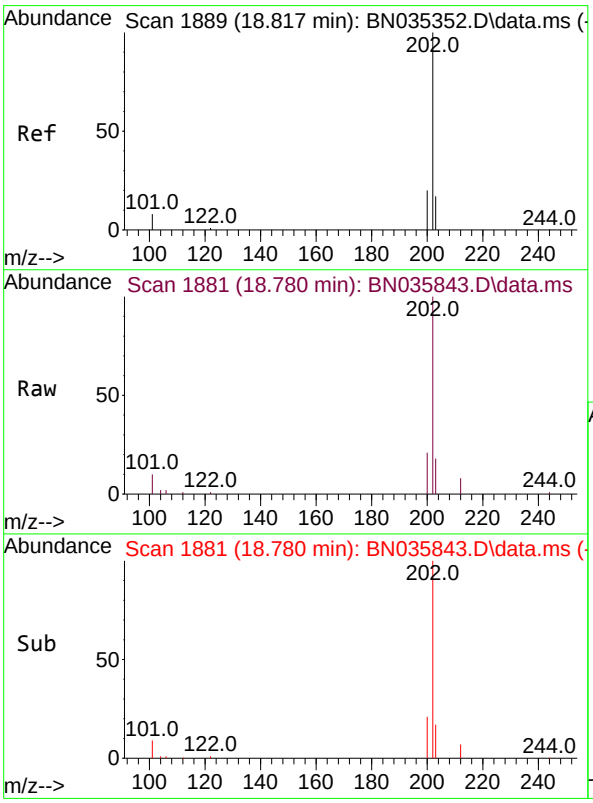
#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 12946

Ion	Ratio	Lower	Upper
212	100		
106	12.6	9.2	13.8
104	7.2	5.3	7.9

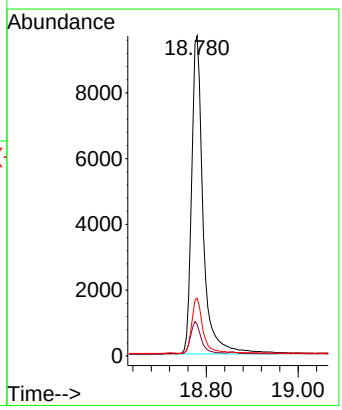


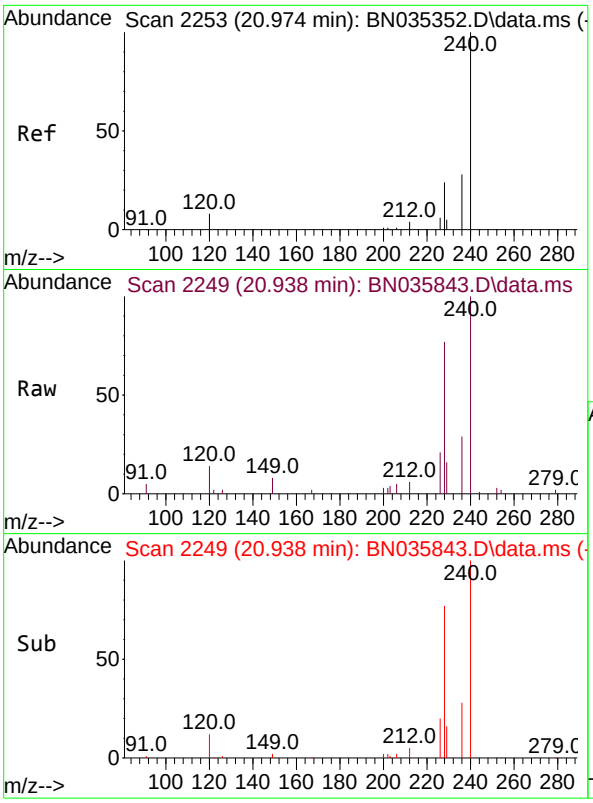


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 16856

Ion	Ratio	Lower	Upper
202	100		
101	9.9	7.4	11.0
203	16.7	13.7	20.5



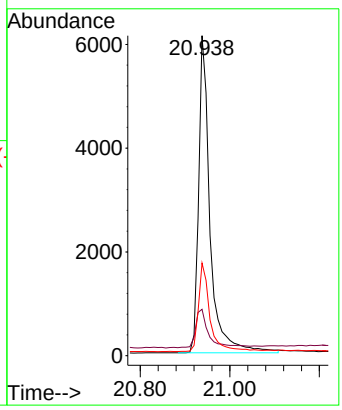


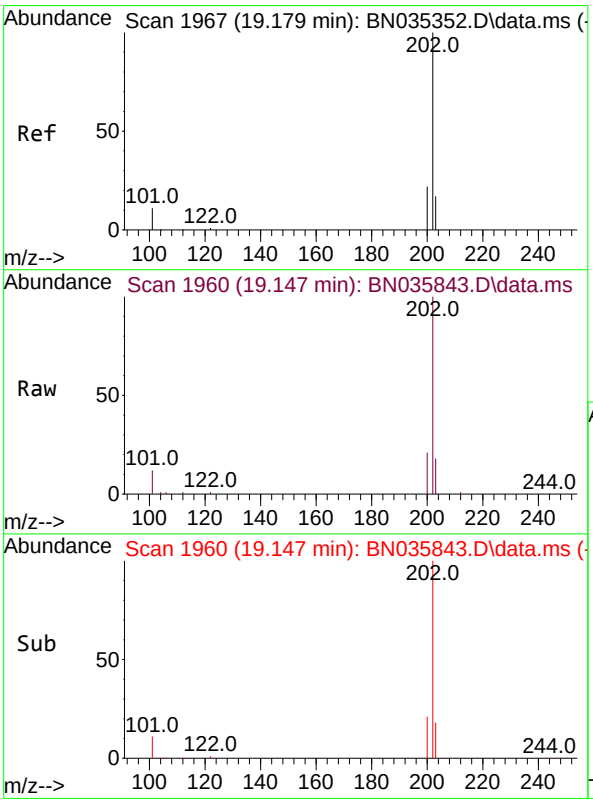
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 10827

Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9#
236	29.0	22.9	34.3

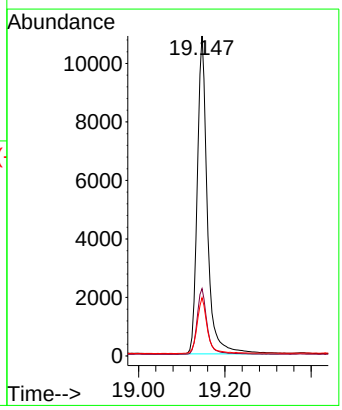


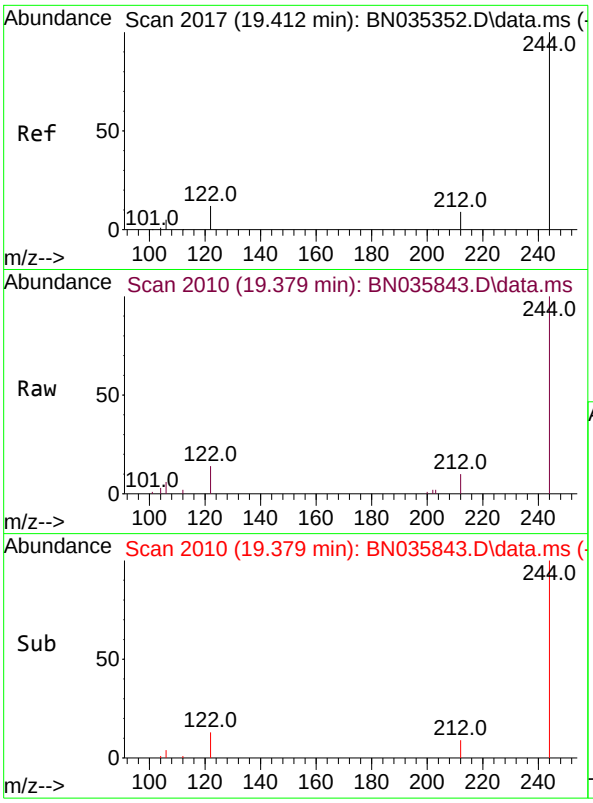


#30
Pyrene
Concen: 0.441 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:202 Resp: 17619

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.8	14.3	21.5



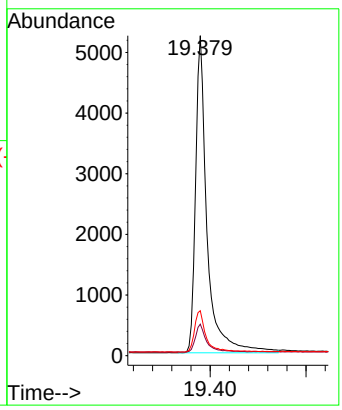


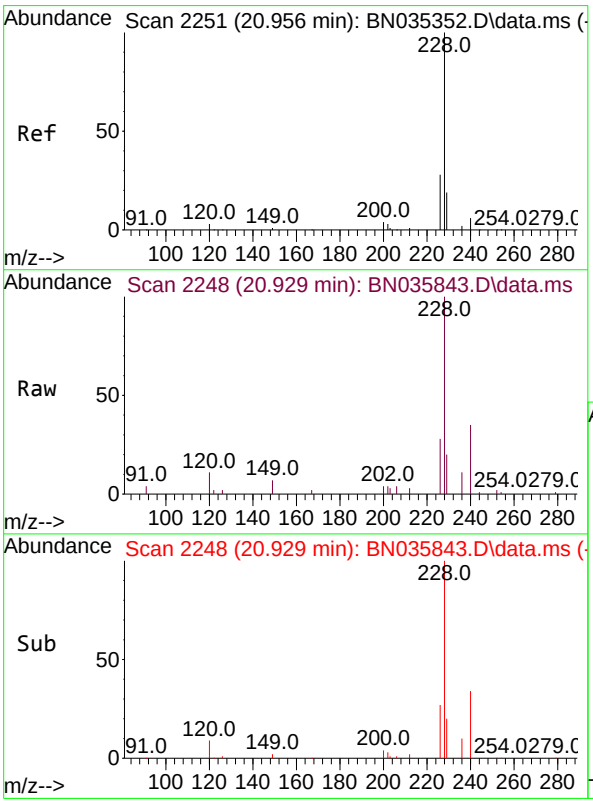
#31
Terphenyl-d14
Concen: 0.411 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 8772

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	14.1	10.3	15.5

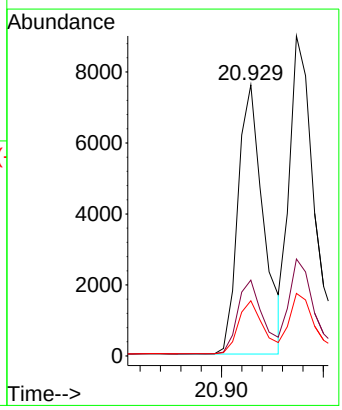


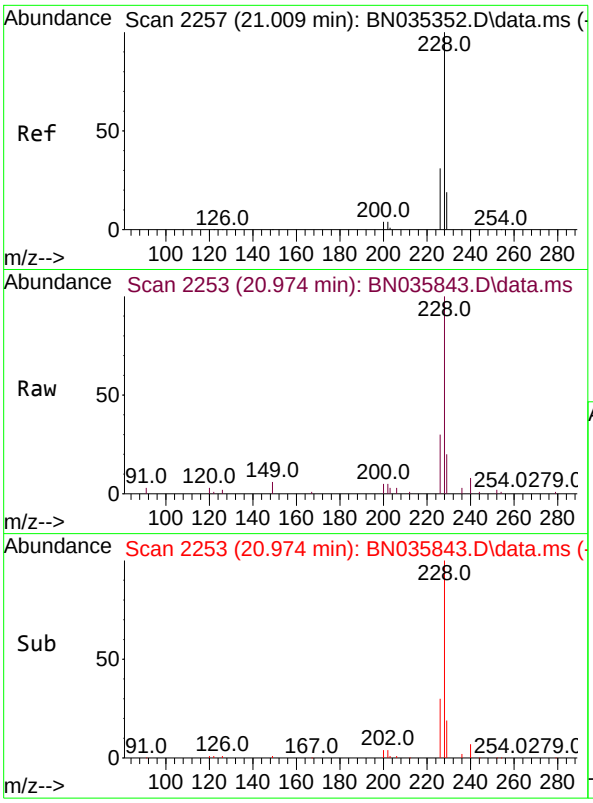


#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:228 Resp: 13110

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.3	15.8	23.8



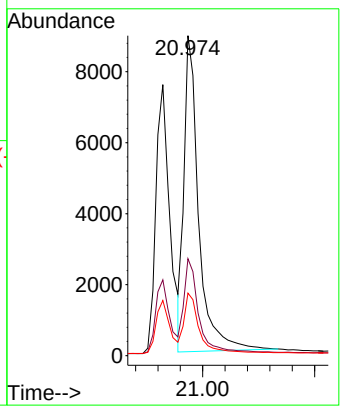


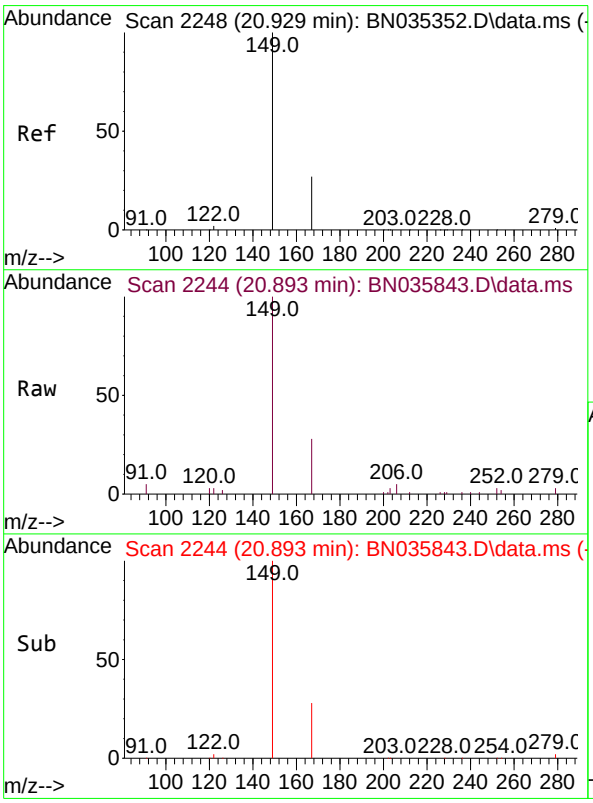
#33
Chrysene
Concen: 0.416 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 16237

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.5	15.9	23.9

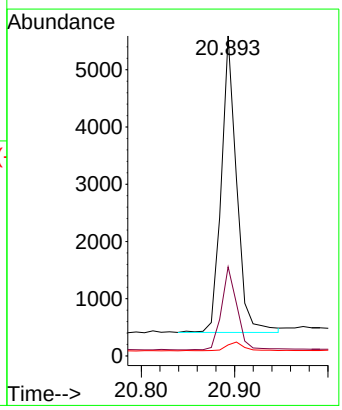


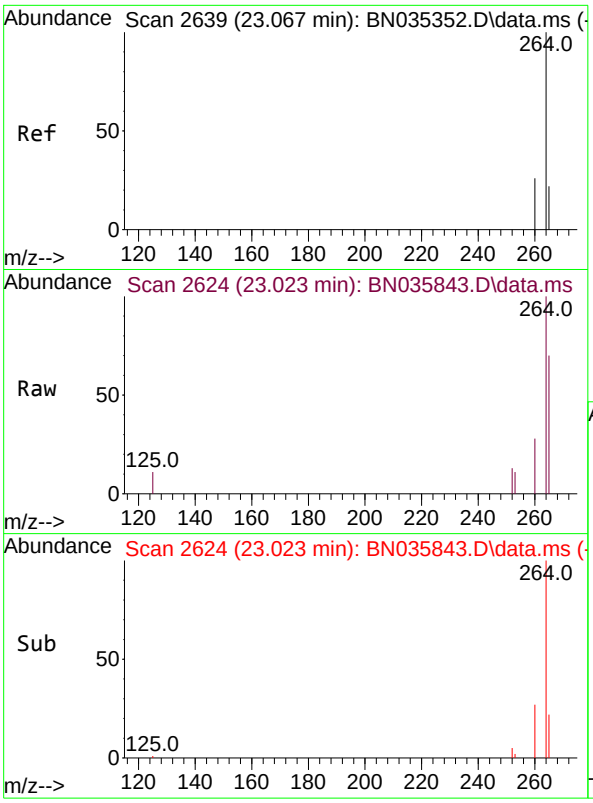


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.397 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:149 Resp: 5933

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.5	2.7	4.1



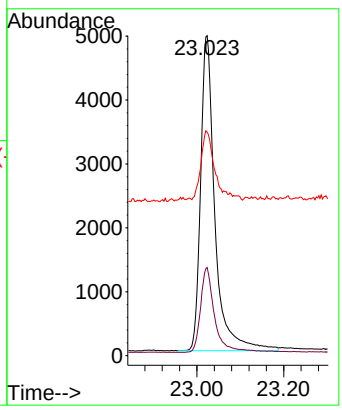


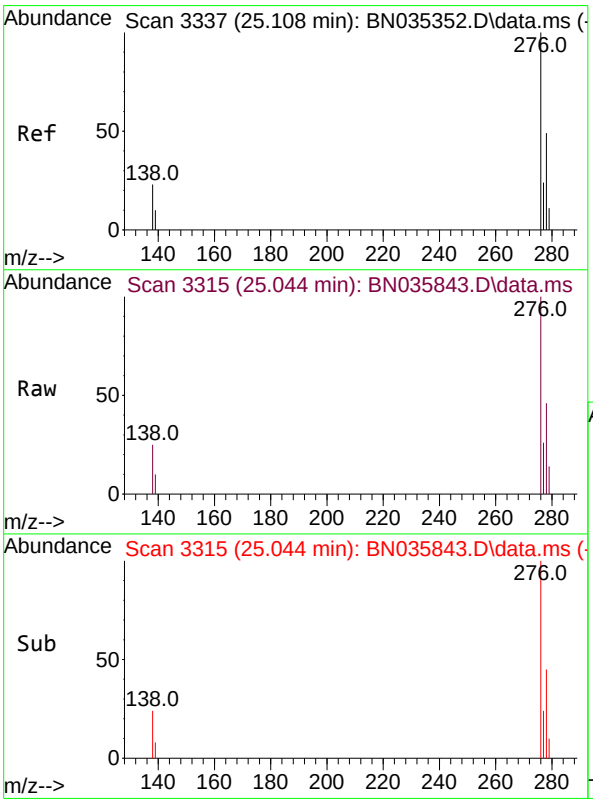
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 11272

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	69.9	40.2	60.4#

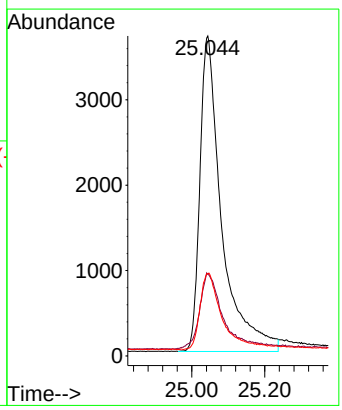


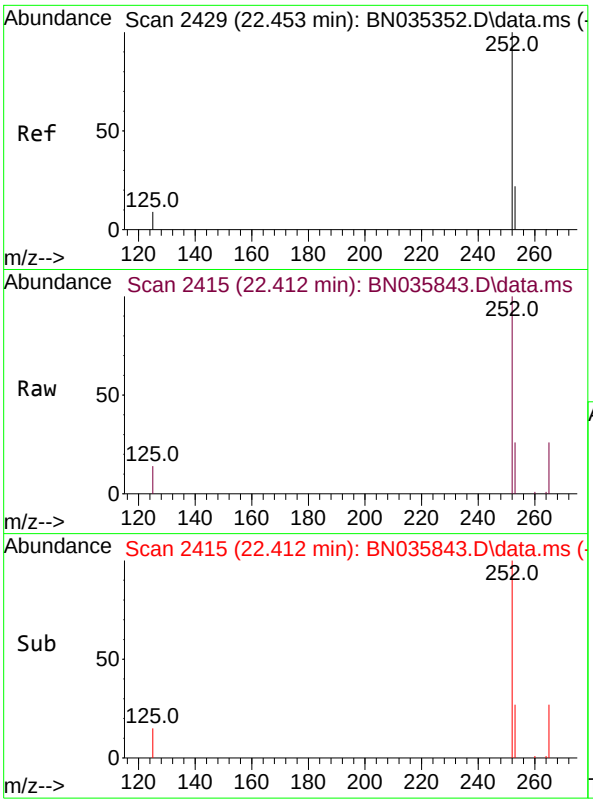


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:276 Resp: 15331

Ion	Ratio	Lower	Upper
276	100		
138	24.4	19.4	29.0
277	24.2	19.8	29.6



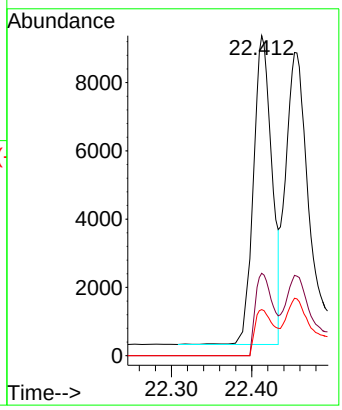


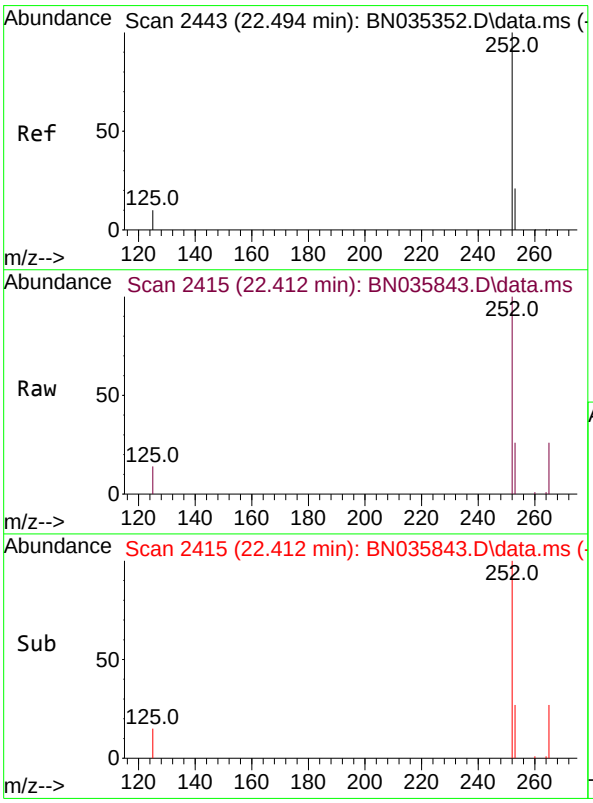
#37
Benzo(b)fluoranthene
Concen: 0.621 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 25617

Ion	Ratio	Lower	Upper
252	100		
253	25.7	19.6	29.4
125	14.4	9.6	14.4#

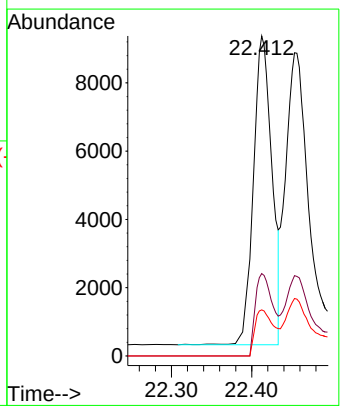


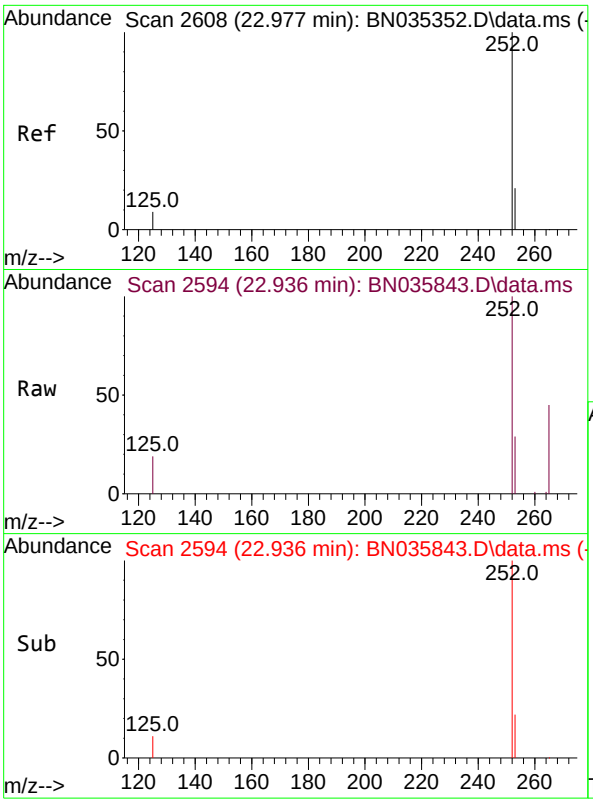


#38
Benzo(k)fluoranthene
Concen: 0.631 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.059 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:252 Resp: 25617

Ion	Ratio	Lower	Upper
252	100		
253	25.7	19.5	29.3
125	14.4	10.2	15.4



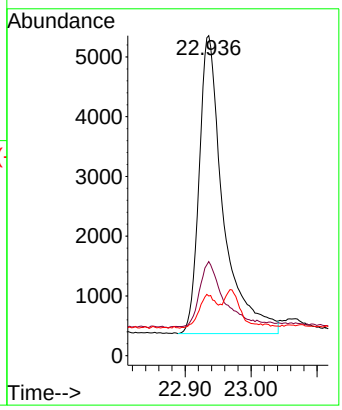


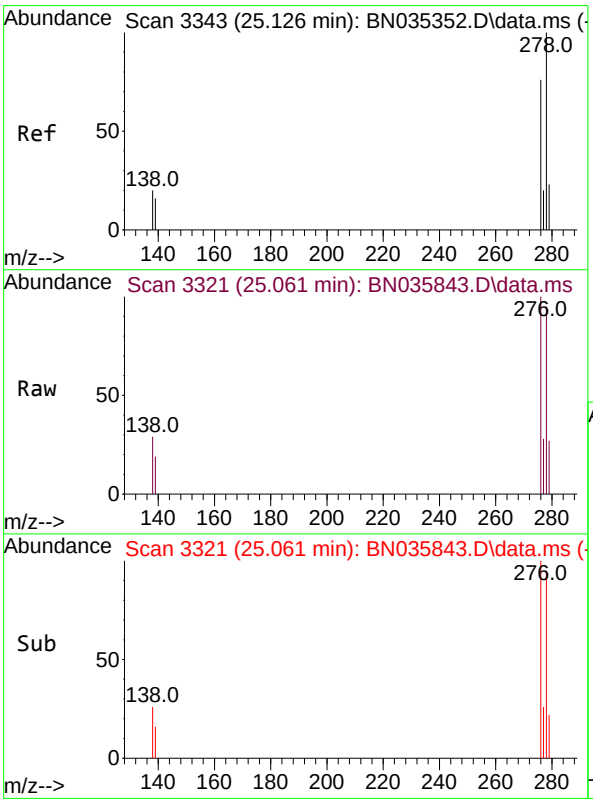
#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.936 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 12667

Ion	Ratio	Lower	Upper
252	100		
253	29.4	20.2	30.4
125	18.6	10.9	16.3#

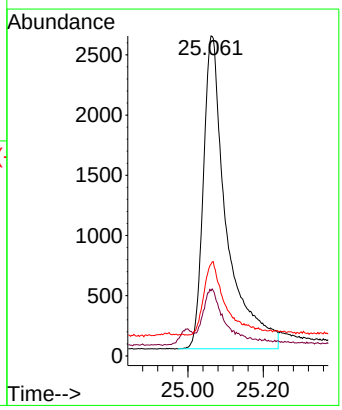


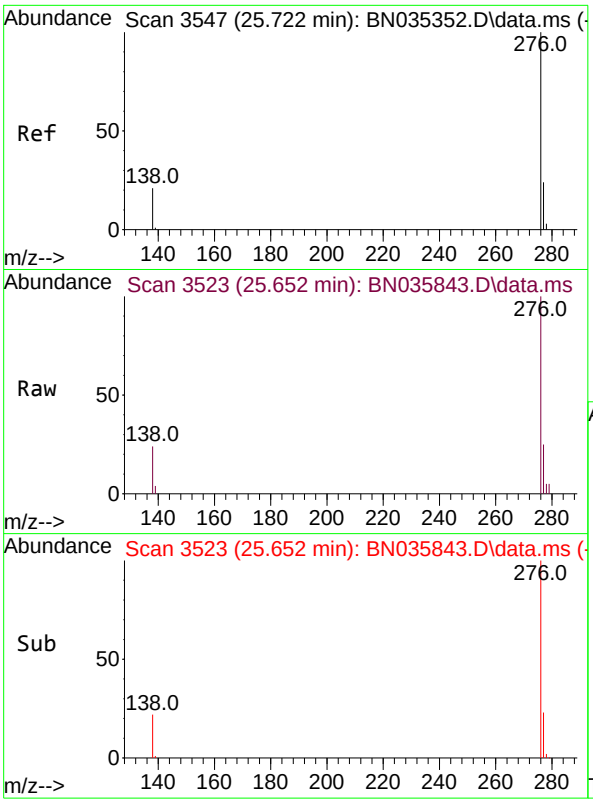


#40
Dibenzo(a,h)anthracene
Concen: 0.320 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Tgt Ion:278 Resp: 11116

Ion	Ratio	Lower	Upper
278	100		
139	20.4	14.2	21.4
279	28.7	20.5	30.7



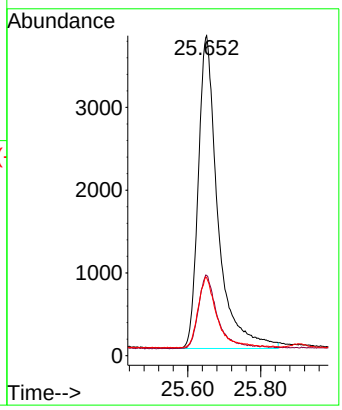


#41
Benzo(g,h,i)perylene
Concen: 0.387 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.027 min
Lab File: BN035843.D
Acq: 25 Dec 2024 05:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 14070

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	24.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

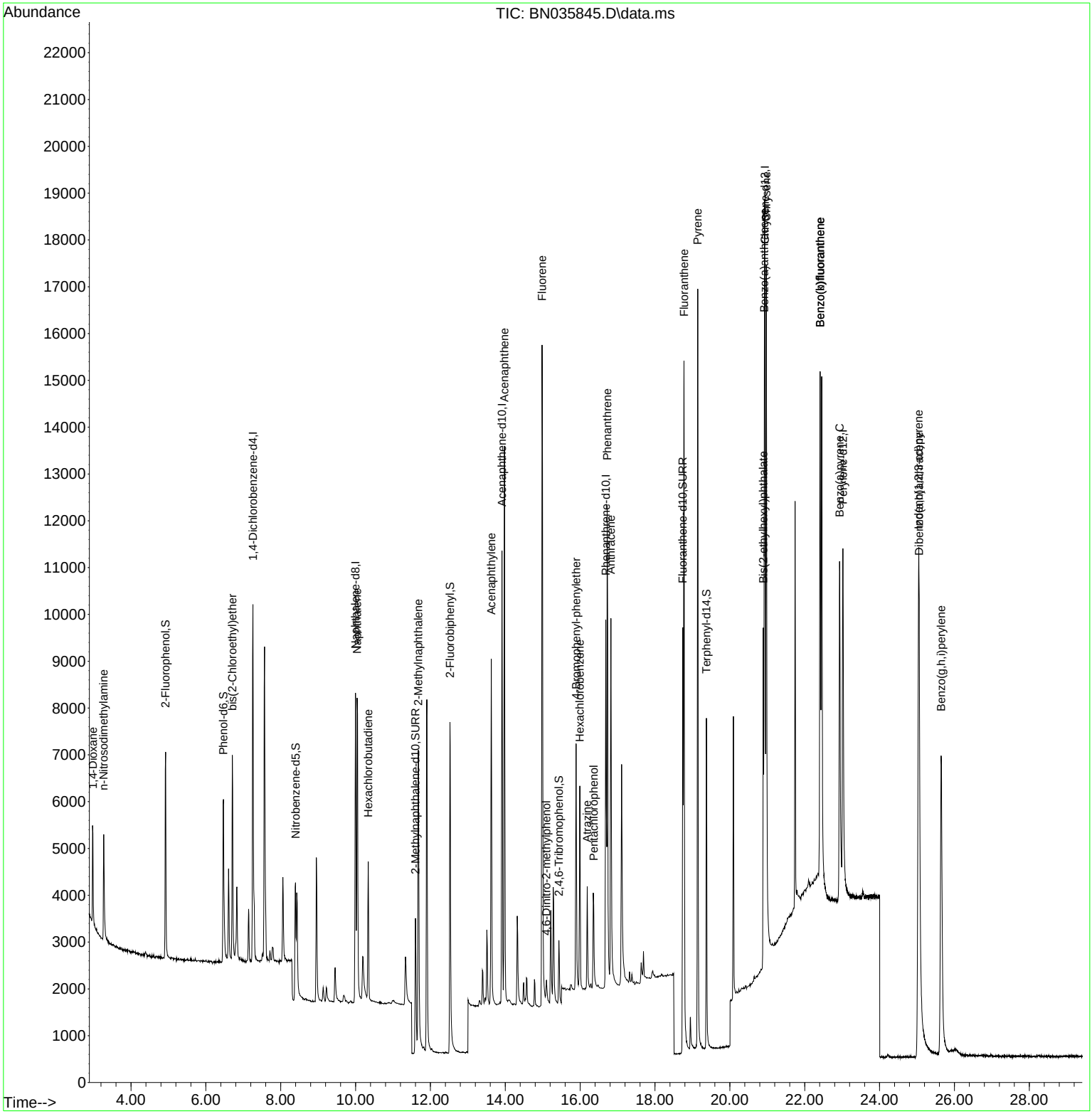
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	9322	0.400	ng		#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400	ng		#-0.01
29) Chrysene-d12	20.938	240	9932	0.400	ng		#-0.02
35) Perylene-d12	23.021	264	10817	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3777	0.402	ng		-0.01
5) Phenol-d6	6.470	99	4175	0.369	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3148	0.553	ng		-0.01
11) 2-Methylnaphthalene-d10	11.600	152	5080	0.348	ng		-0.02
14) 2,4,6-Tribromophenol	15.432	330	1338	0.350	ng		-0.02
15) 2-Fluorobiphenyl	12.523	172	8104	0.398	ng		-0.02
27) Fluoranthene-d10	18.743	212	11161	0.350	ng		-0.02
31) Terphenyl-d14	19.375	244	7783	0.397	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1520	0.423	ng		97
3) n-Nitrosodimethylamine	3.270	42	1223	0.409	ng	#	82
6) bis(2-Chloroethyl)ether	6.708	93	3599	0.379	ng		99
9) Naphthalene	10.041	128	9440	0.384	ng		100
10) Hexachlorobutadiene	10.340	225	2352	0.415	ng	#	99
12) 2-Methylnaphthalene	11.676	142	5939	0.337	ng		98
16) Acenaphthylene	13.625	152	8340	0.369	ng		100
17) Acenaphthene	13.978	154	5695	0.379	ng		99
18) Fluorene	14.983	166	7523	0.350	ng		99
20) 4,6-Dinitro-2-methylph...	15.100	198	526	0.475	ng	#	39
21) 4-Bromophenyl-phenylether	15.891	248	2443	0.371	ng	#	87
22) Hexachlorobenzene	15.991	284	3482	0.450	ng		95
23) Atrazine	16.189	200	1843	0.393	ng		97
24) Pentachlorophenol	16.363	266	1383	0.411	ng		87
25) Phenanthrene	16.723	178	11602	0.375	ng		100
26) Anthracene	16.822	178	10005	0.358	ng		100
28) Fluoranthene	18.775	202	14489	0.347	ng		98
30) Pyrene	19.142	202	15278	0.417	ng		100
32) Benzo(a)anthracene	20.920	228	12798	0.368	ng		100
33) Chrysene	20.974	228	14214	0.397	ng		100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6282	0.458	ng		100
36) Indeno(1,2,3-cd)pyrene	25.041	276	15946	0.377	ng		97
37) Benzo(b)fluoranthene	22.412	252	19565	0.494	ng	#	96
38) Benzo(k)fluoranthene	22.412	252	19565	0.502	ng		96
39) Benzo(a)pyrene	22.933	252	12458	0.382	ng	#	92
40) Dibenzo(a,h)anthracene	25.058	278	12678	0.380	ng		96
41) Benzo(g,h,i)perylene	25.646	276	14614	0.419	ng		98

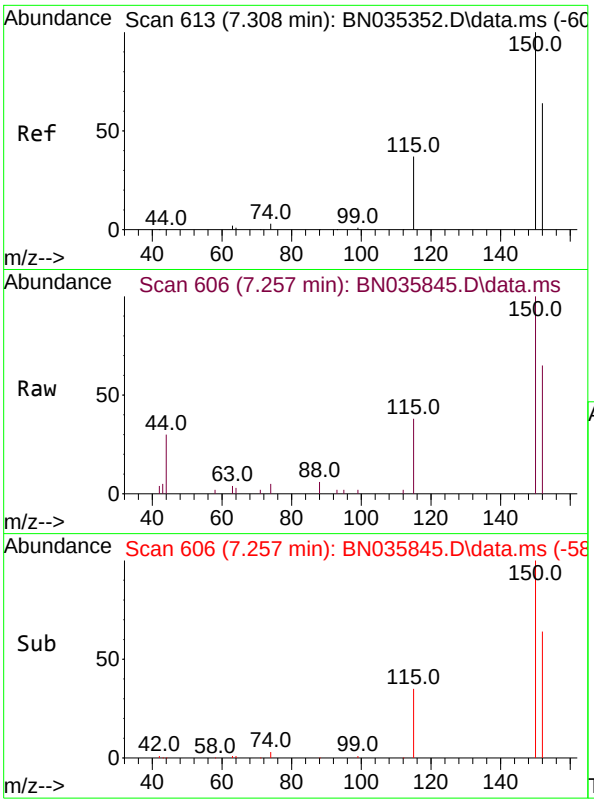
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



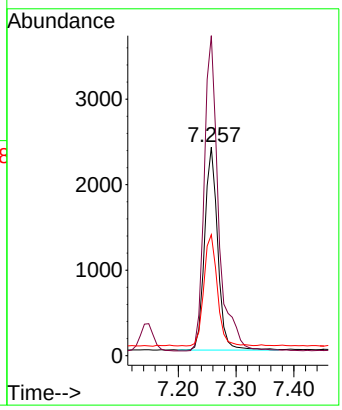


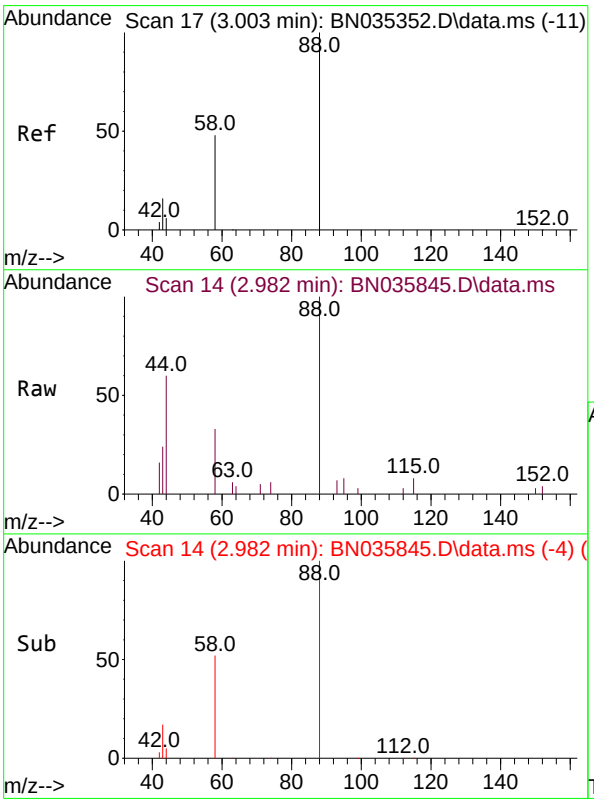
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3755

Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.0	186.0
115	58.0	49.6	74.4

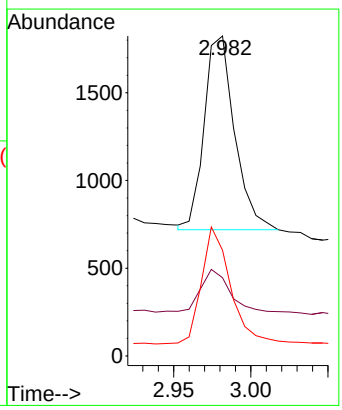


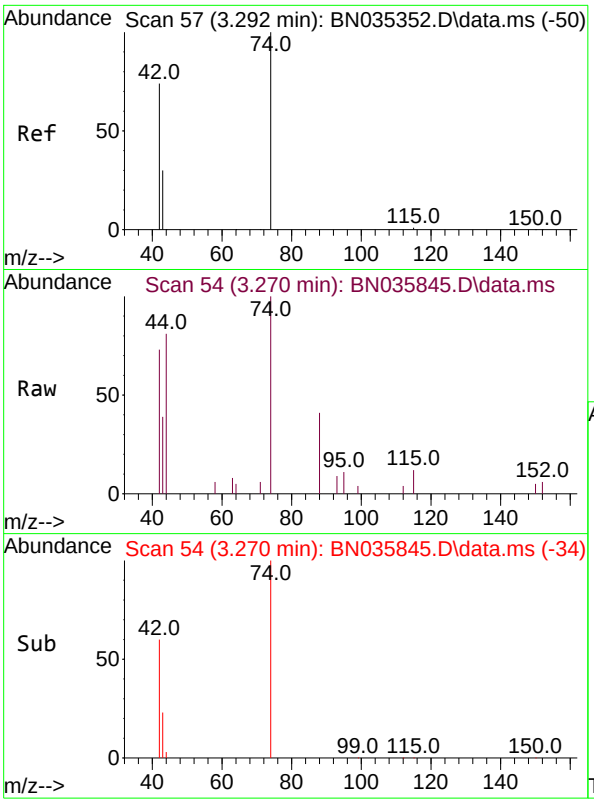


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 88 Resp: 1520

Ion	Ratio	Lower	Upper
88	100		
43	19.9	17.2	25.8
58	57.5	44.5	66.7



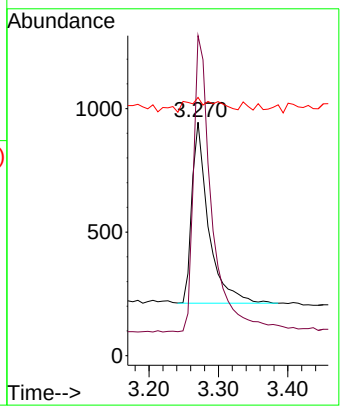


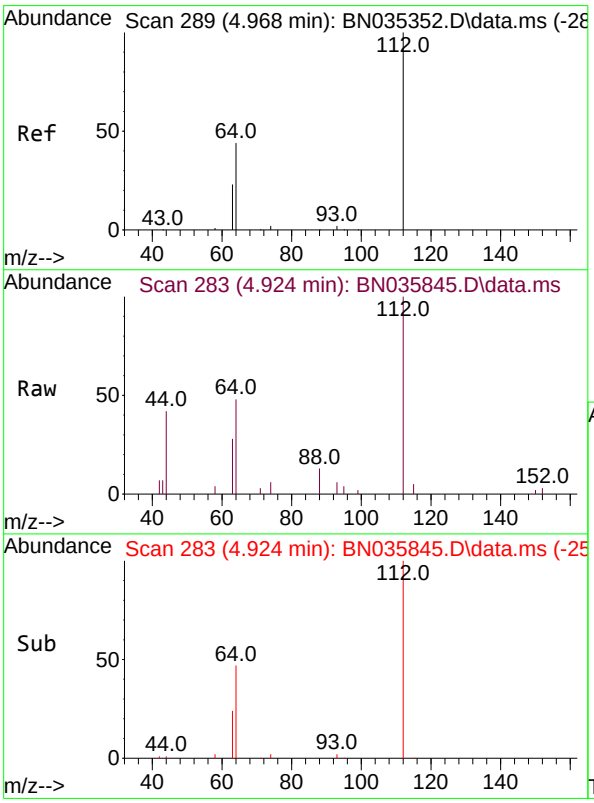
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1223

Ion	Ratio	Lower	Upper
42	100		
74	179.4	124.9	187.3
44	16.9	2.2	3.4#

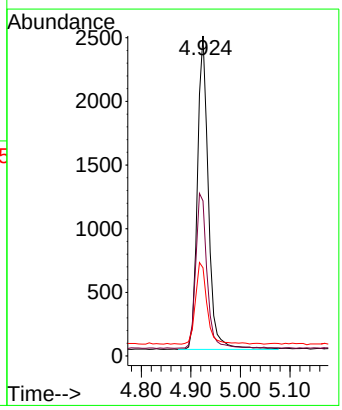


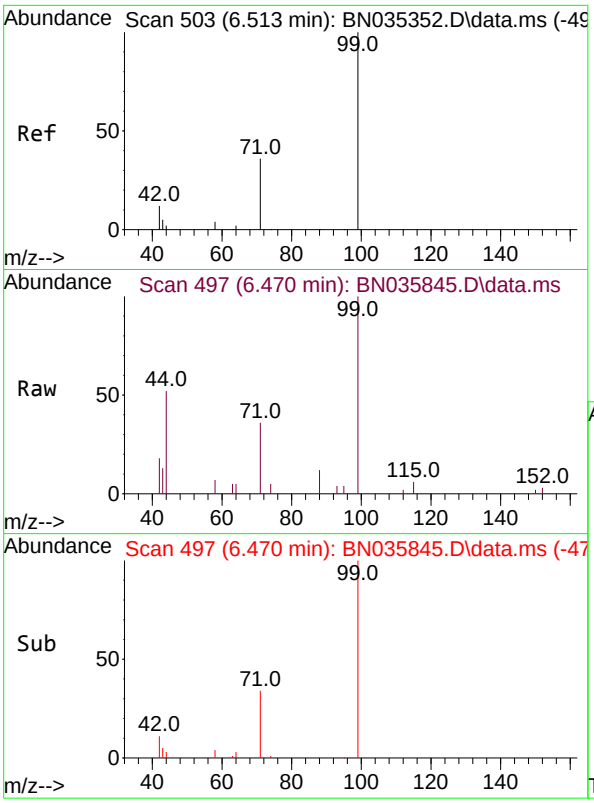


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:112 Resp: 3777

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	27.5	21.0	31.6



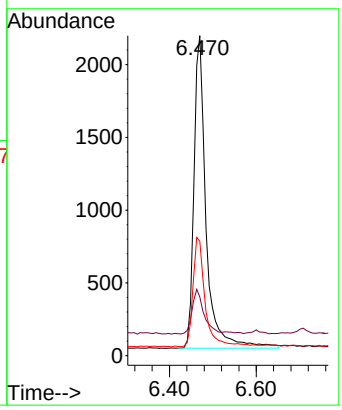


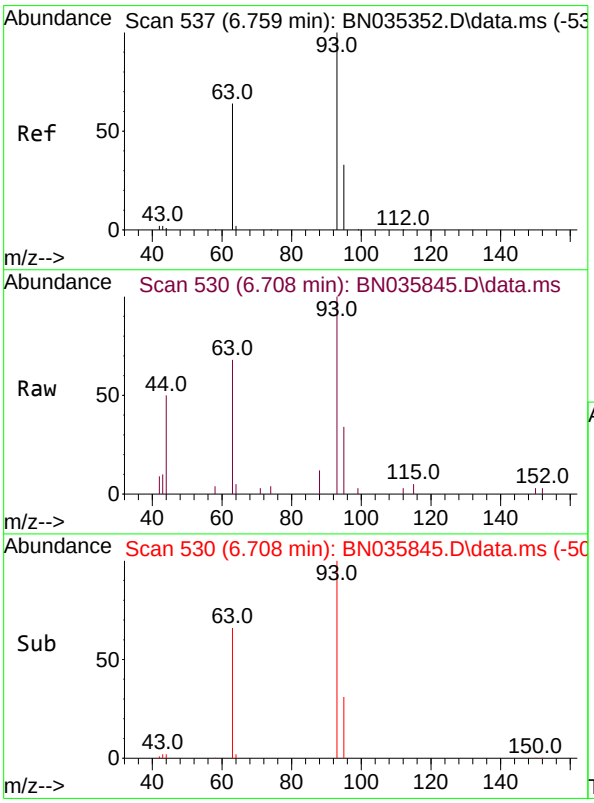
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 4175

Ion	Ratio	Lower	Upper
99	100		
42	14.0	11.4	17.2
71	35.3	29.3	43.9

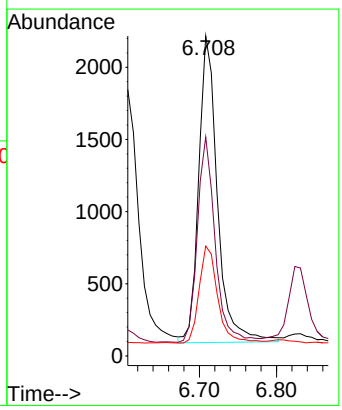


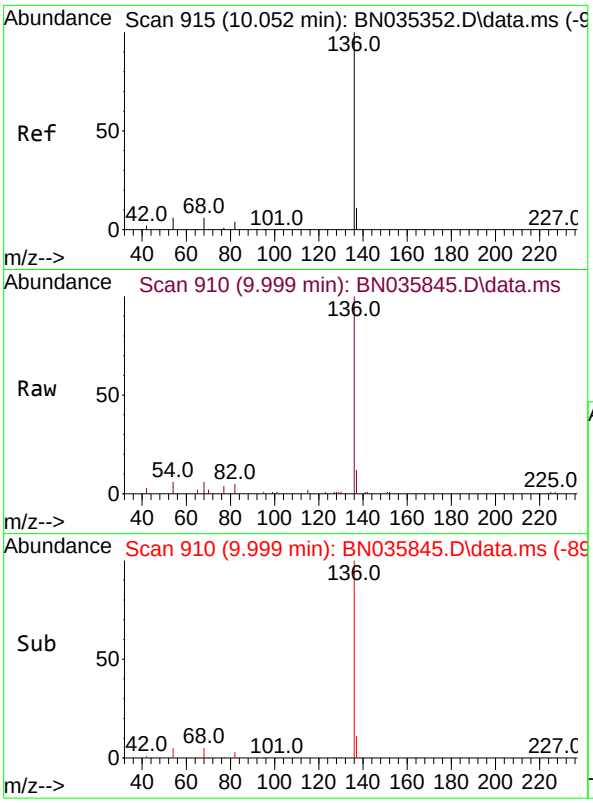


#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 93 Resp: 3599

Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	31.3	25.7	38.5



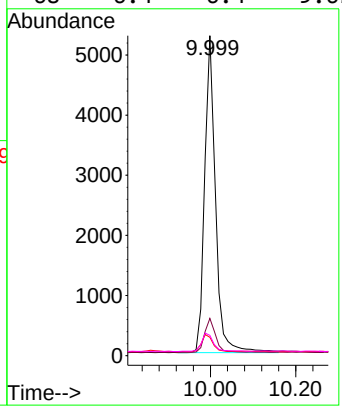


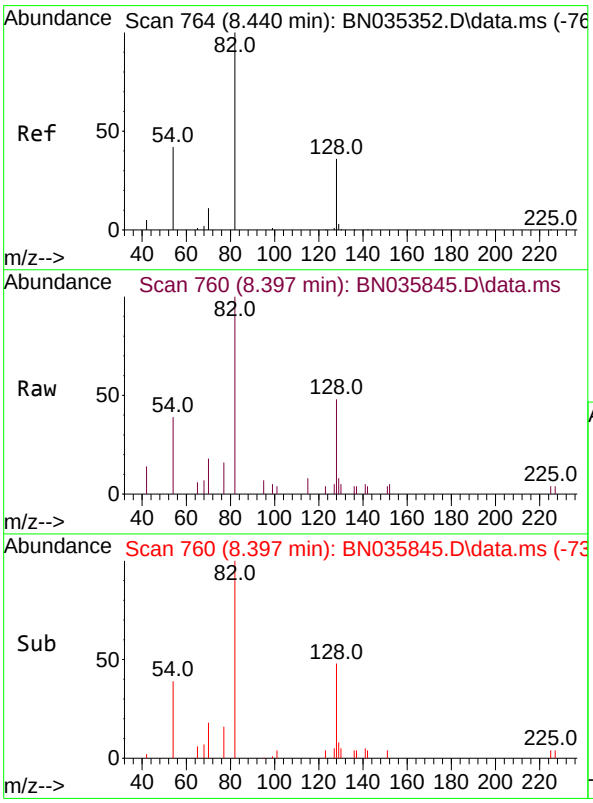
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 9322

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.8	6.1	9.1#
68	6.4	6.4	9.6#

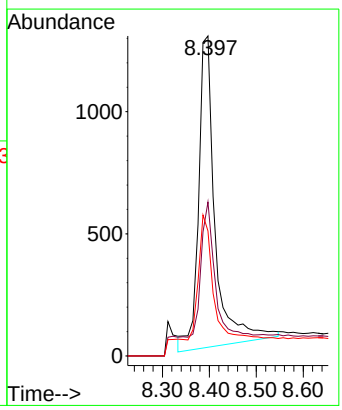


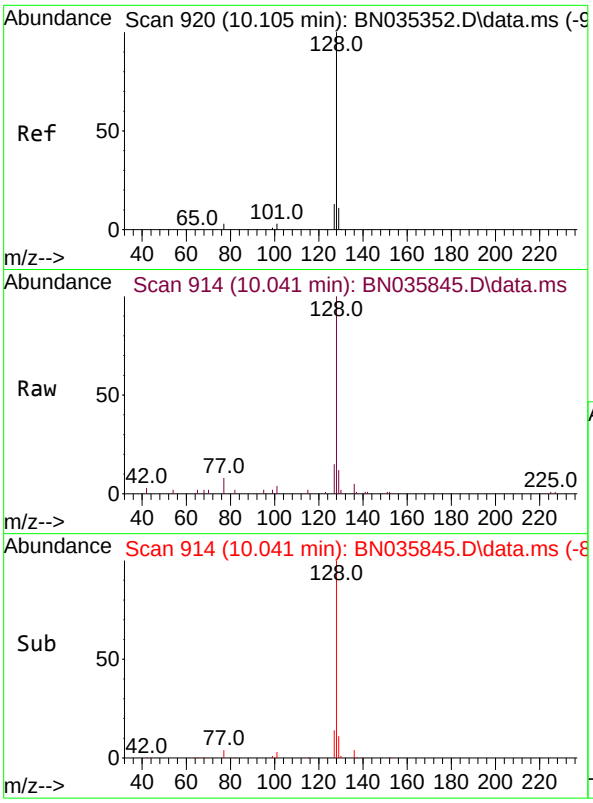


#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 82 Resp: 3148

Ion	Ratio	Lower	Upper
82	100		
128	48.1	33.4	50.0
54	39.1	36.7	55.1



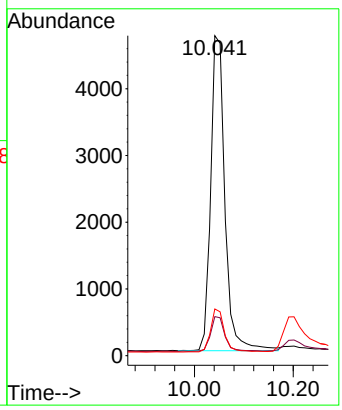


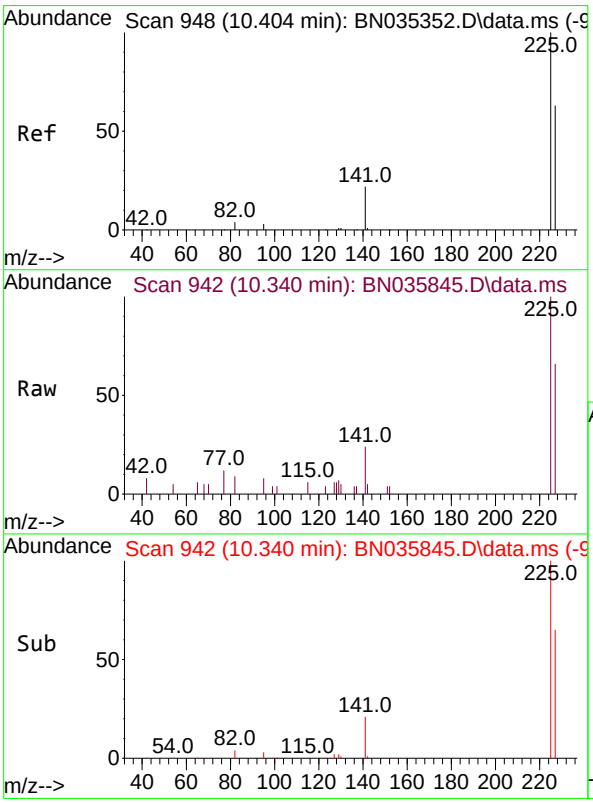
#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 9440

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

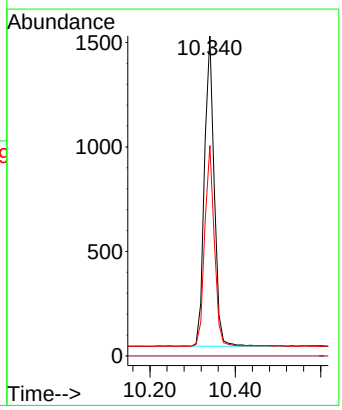


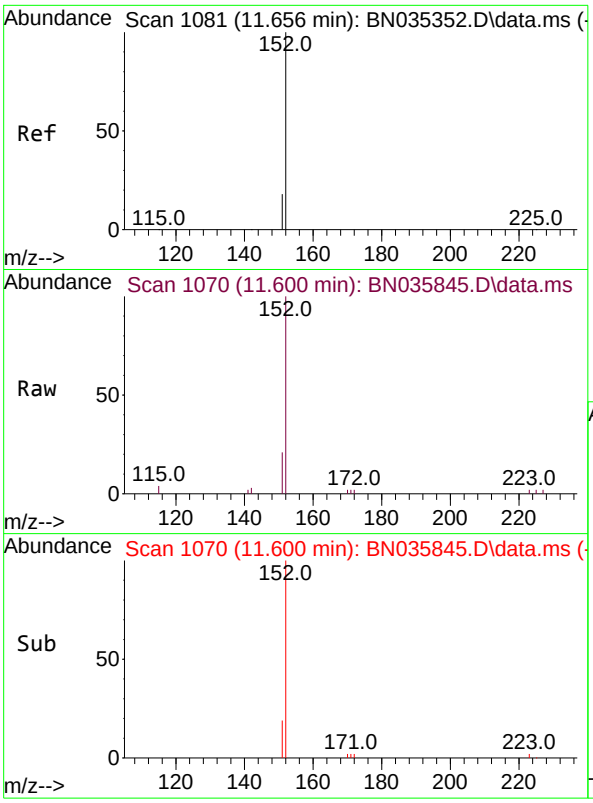


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.3	76.9



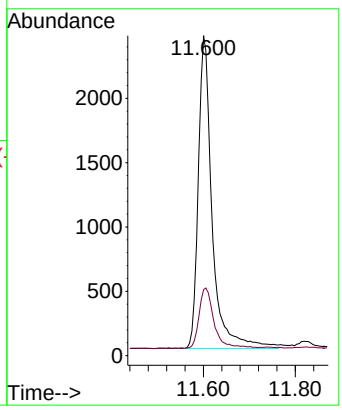


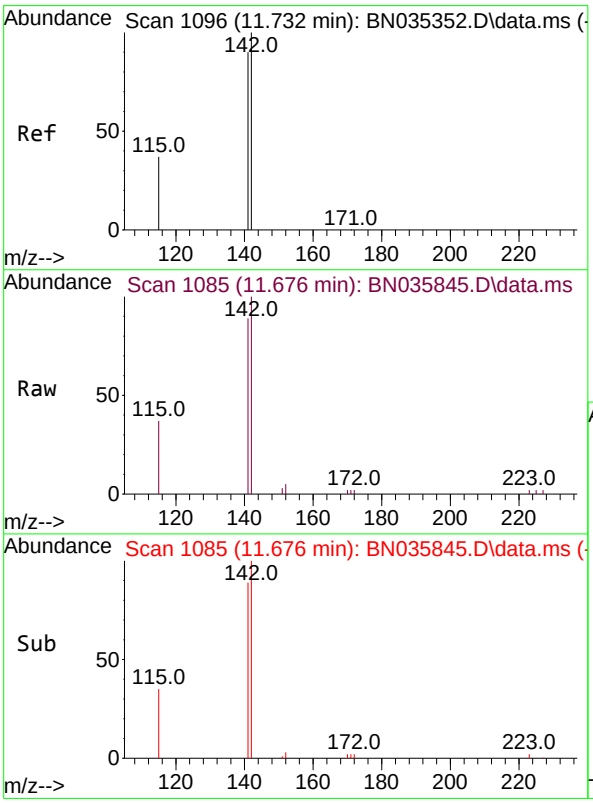
#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5080

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0

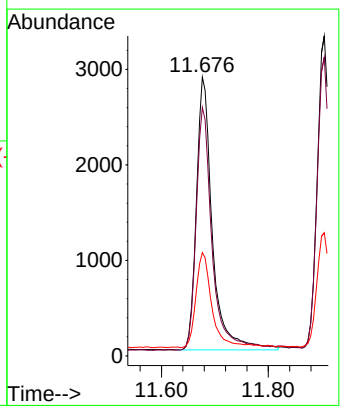


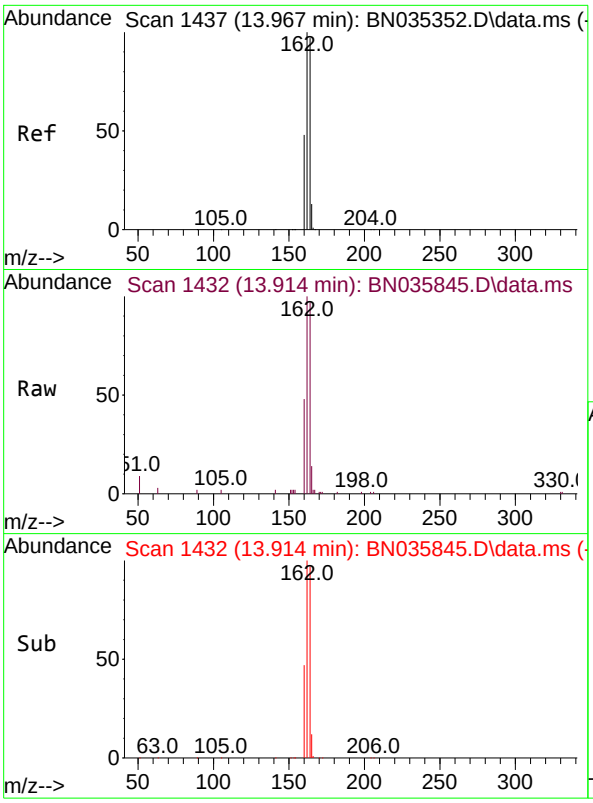


#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939

Ion	Ratio	Lower	Upper
142	100		
141	89.1	72.2	108.4
115	37.1	31.4	47.0



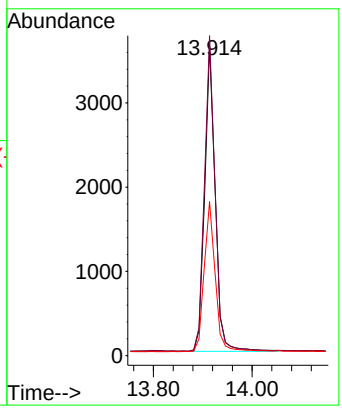


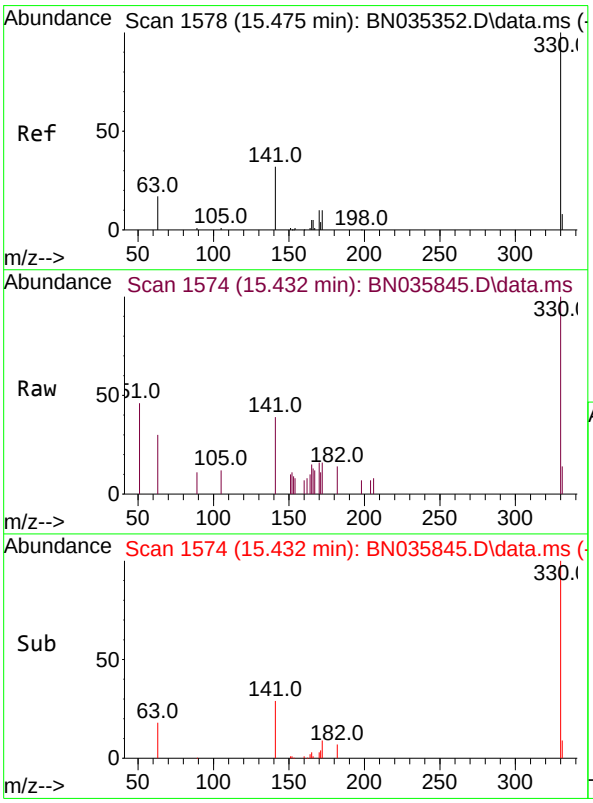
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5387

Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.2	123.2
160	49.7	40.1	60.1

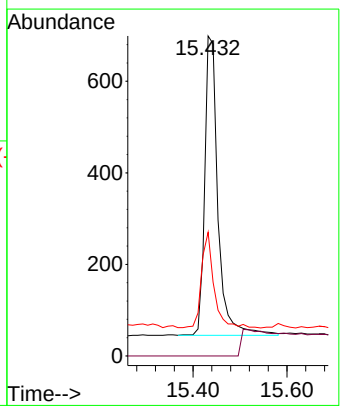


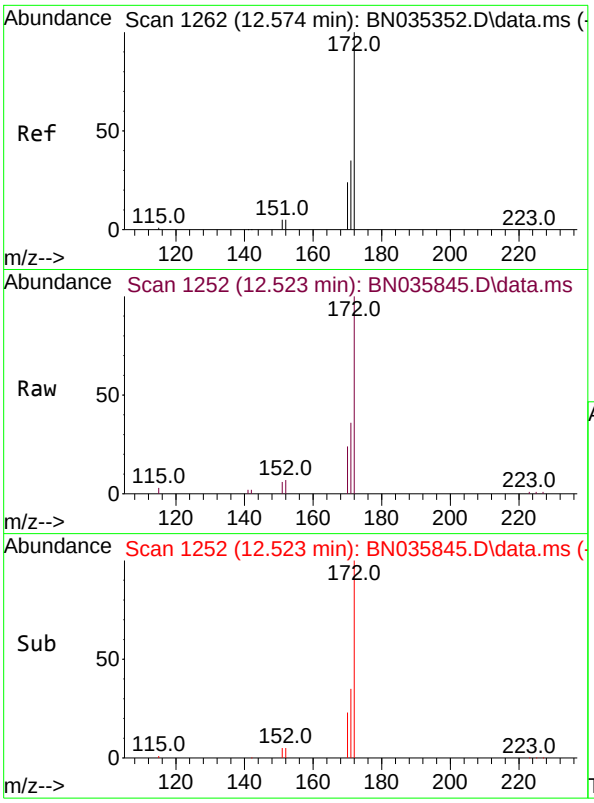


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.7	26.6	40.0



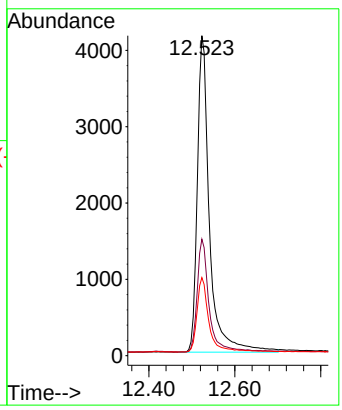


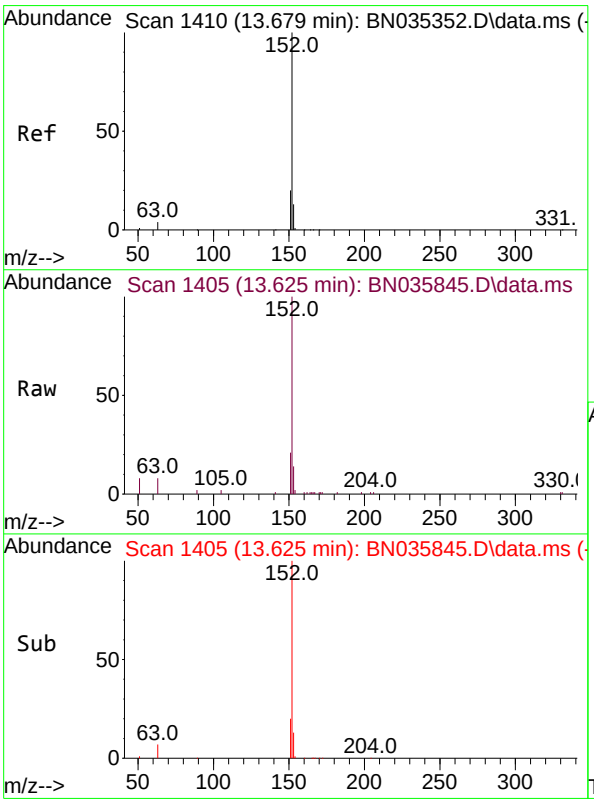
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 8104

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8

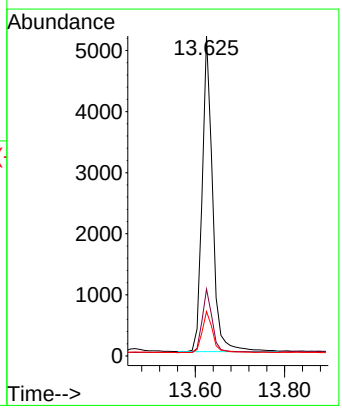


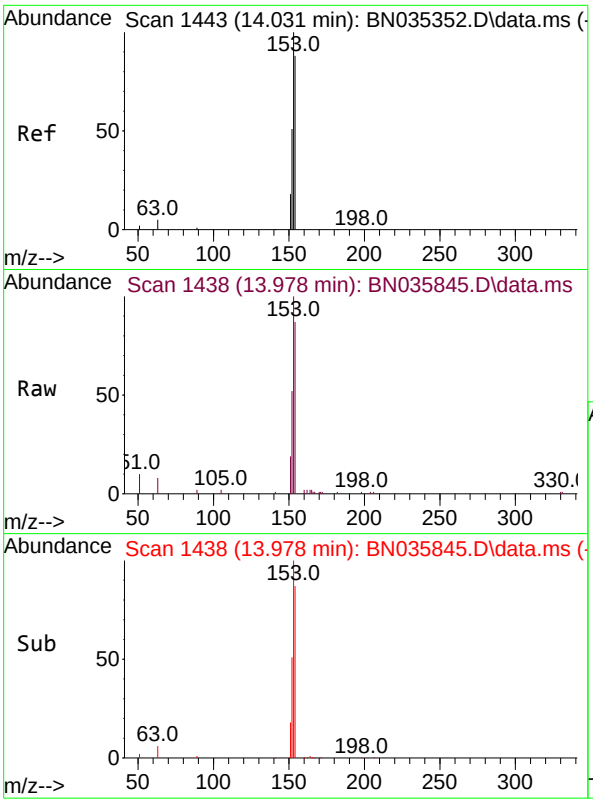


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 8340

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6



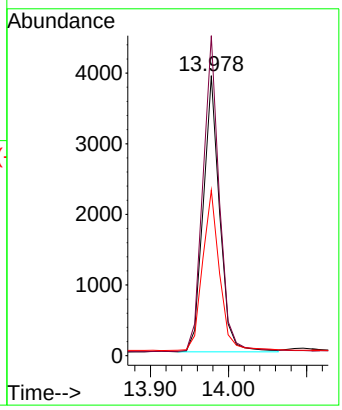


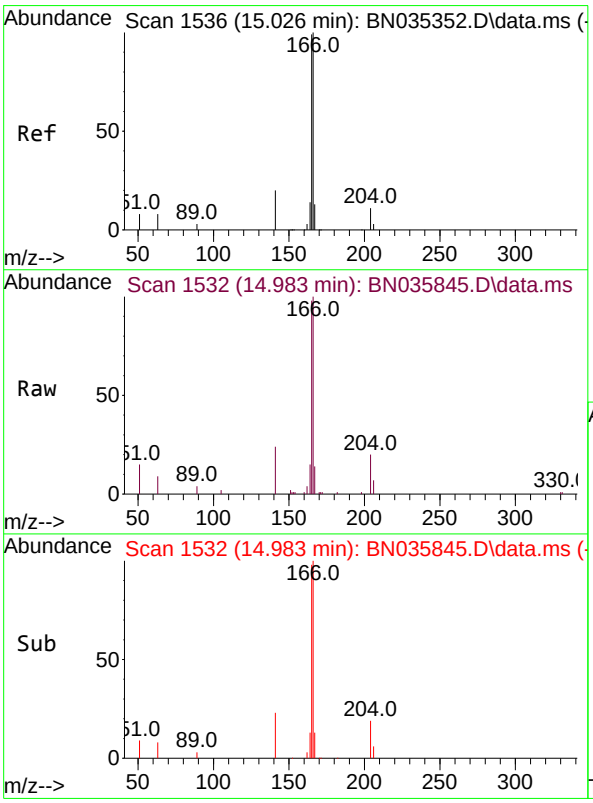
#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 5695

Ion	Ratio	Lower	Upper
154	100		
153	116.1	92.6	139.0
152	60.4	49.0	73.6

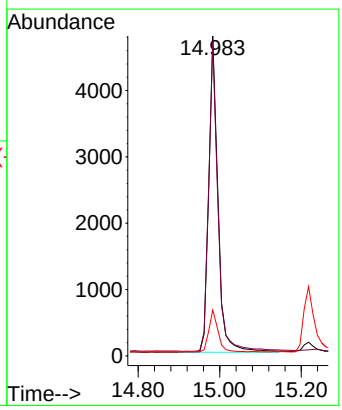


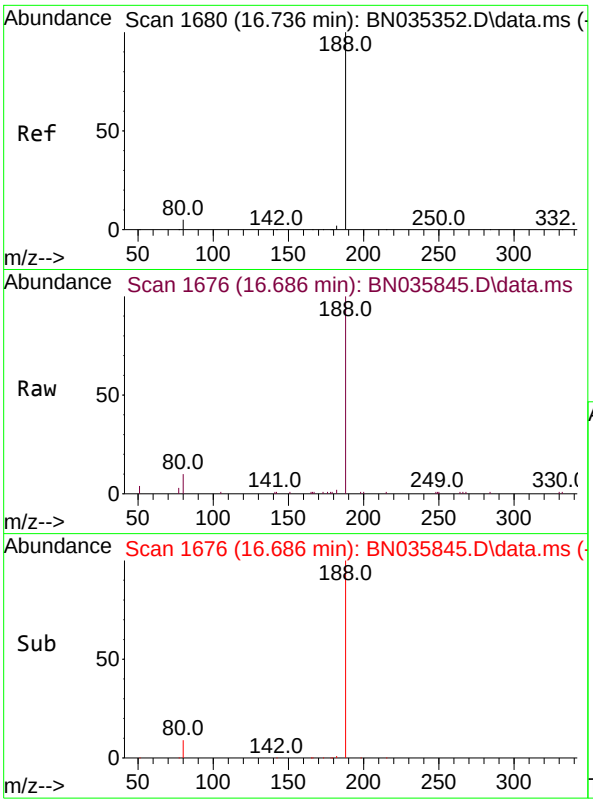


#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.4	10.8	16.2



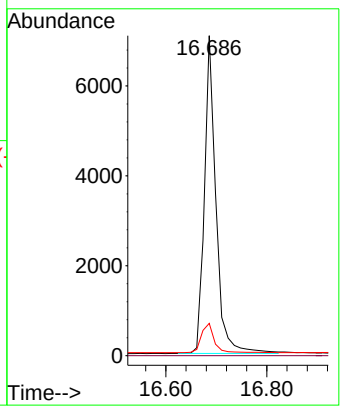


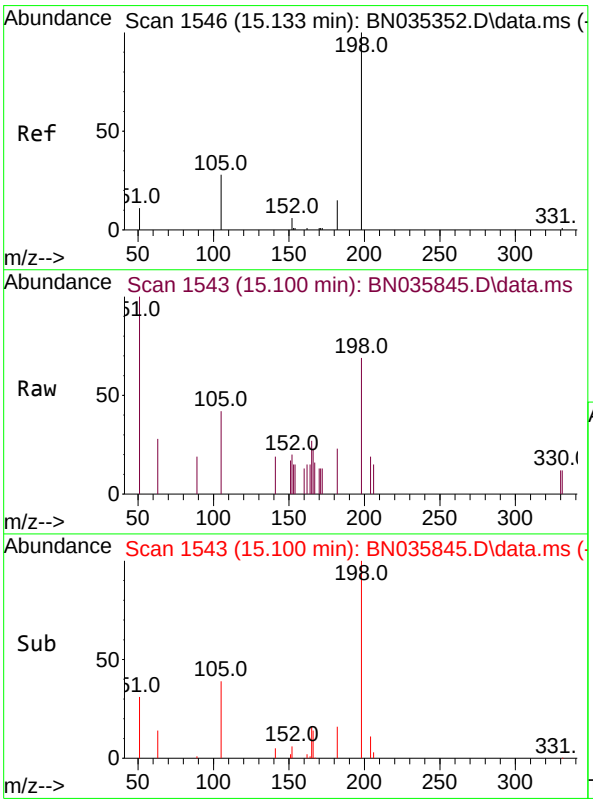
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 11262

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	4.6	6.8#

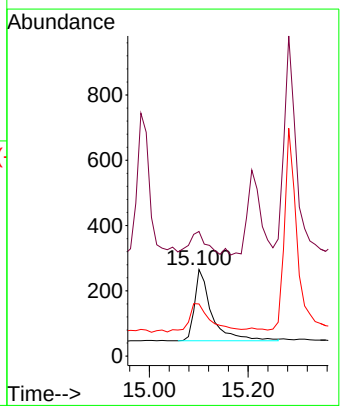


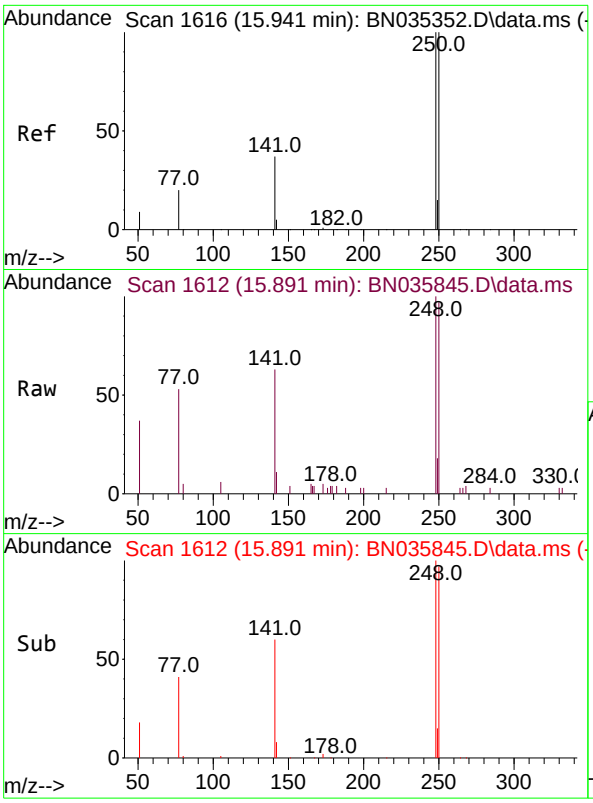


#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:198 Resp: 526

Ion	Ratio	Lower	Upper
198	100		
51	144.2	46.5	69.7#
105	60.4	45.3	67.9



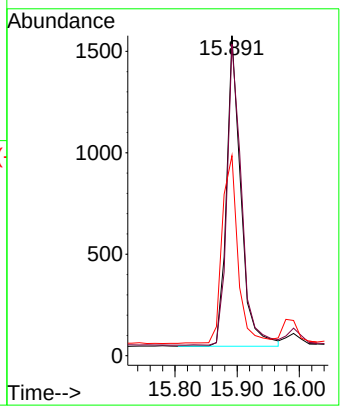


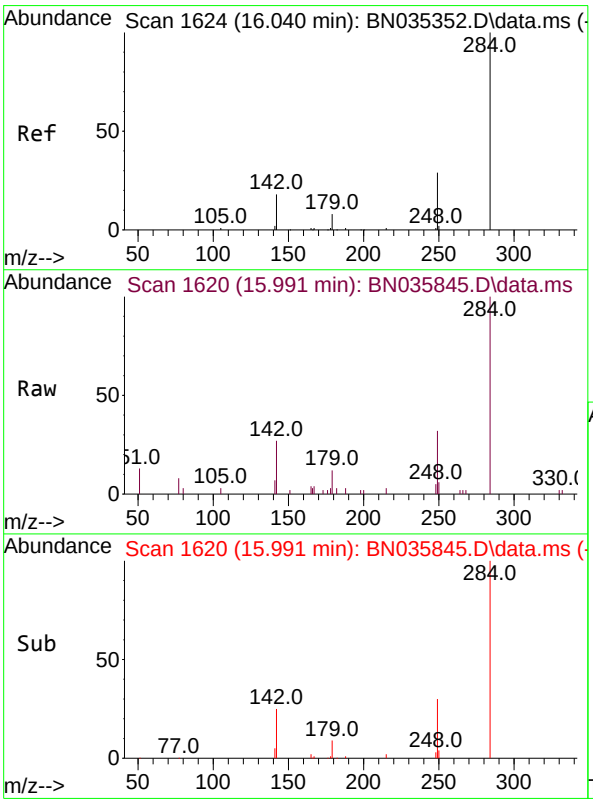
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2443

Ion	Ratio	Lower	Upper
248	100		
250	97.3	80.6	120.8
141	62.5	31.5	47.3#

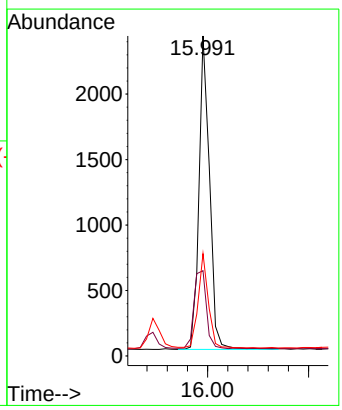


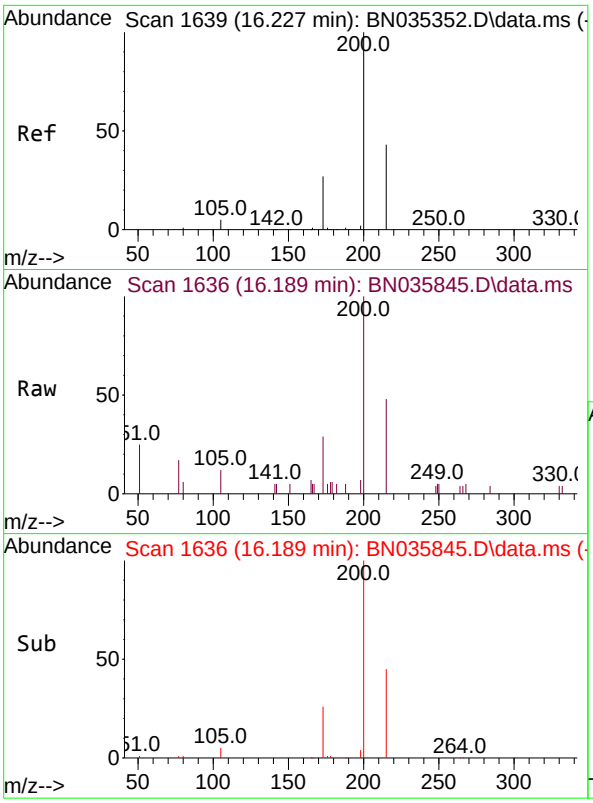


#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482

Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	28.9	24.6	36.8



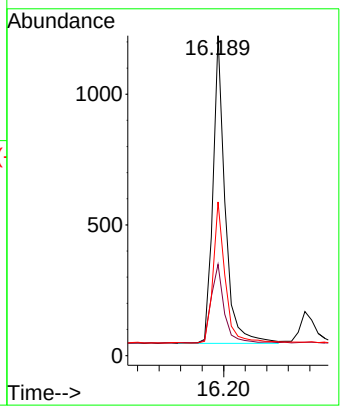


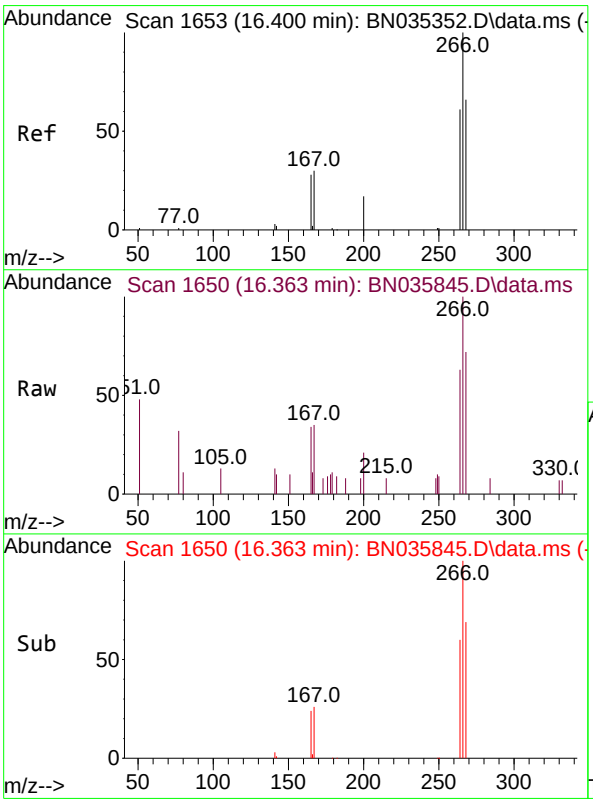
#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1843

Ion	Ratio	Lower	Upper
200	100		
173	28.5	24.1	36.1
215	48.0	36.9	55.3

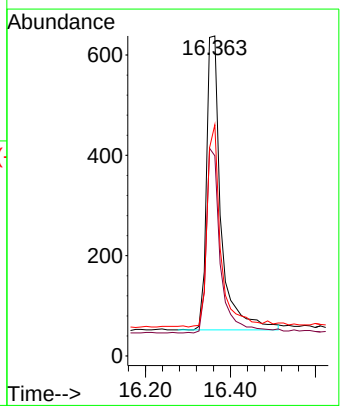


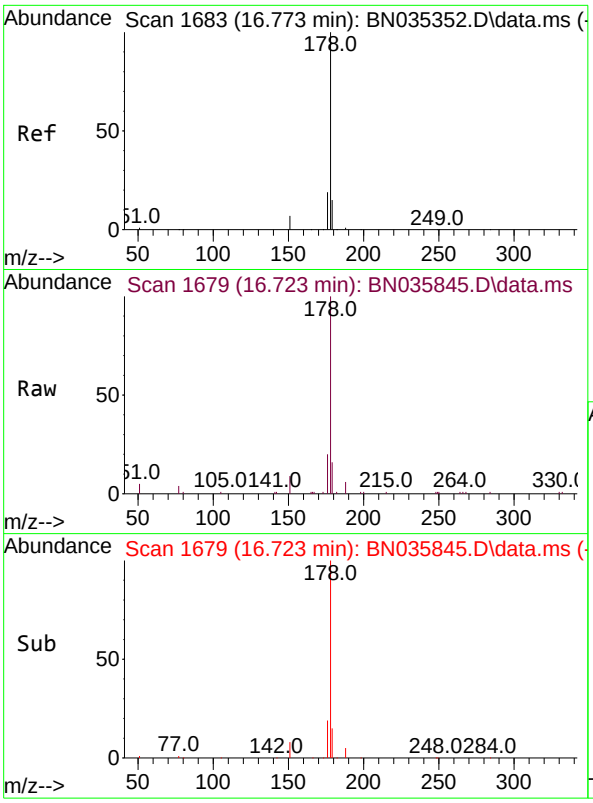


#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:266 Resp: 1383

Ion	Ratio	Lower	Upper
266	100		
264	61.3	42.3	63.5
268	63.8	43.3	64.9



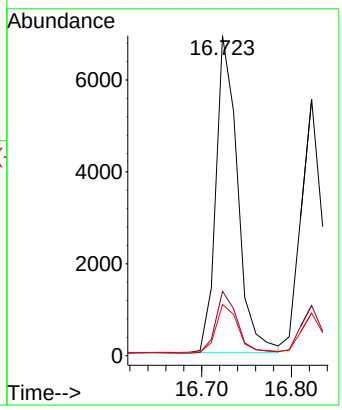


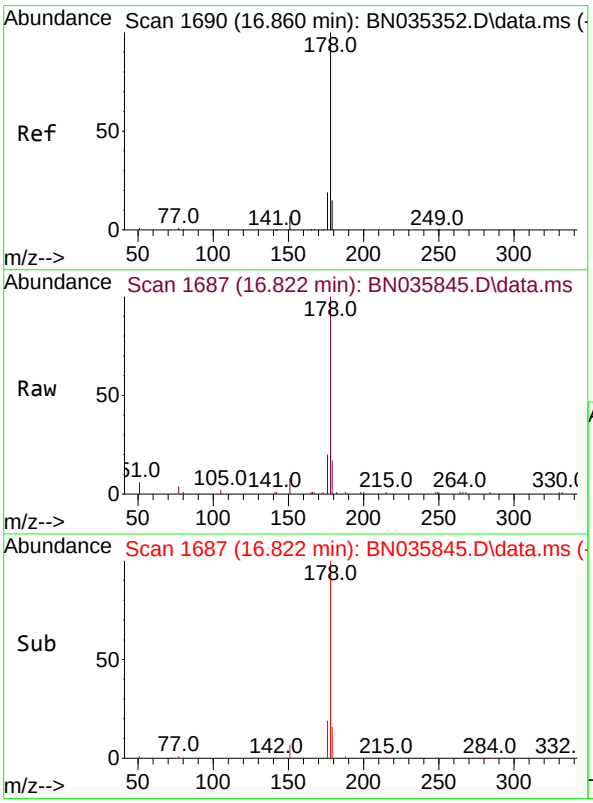
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 11602

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.3	18.5

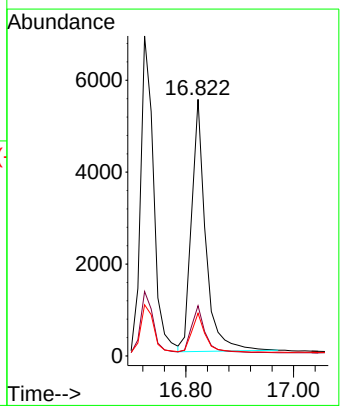


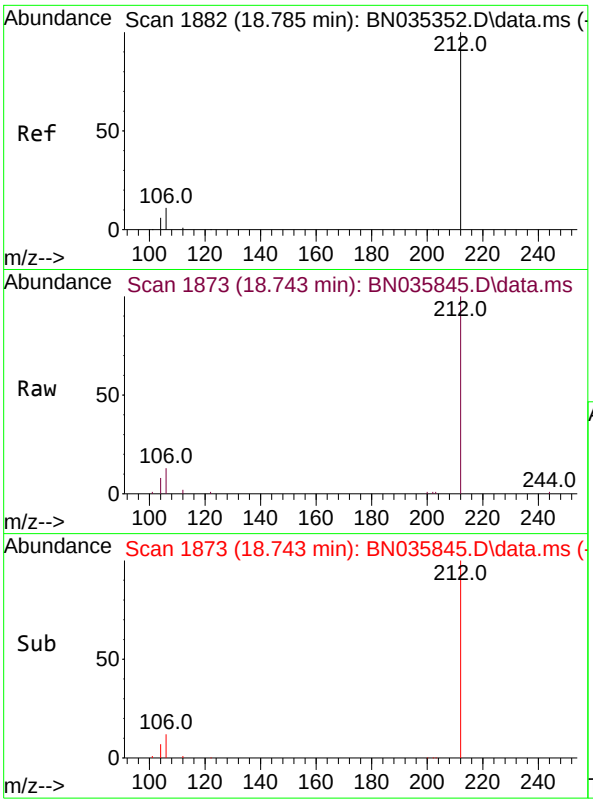


#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 10005

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8



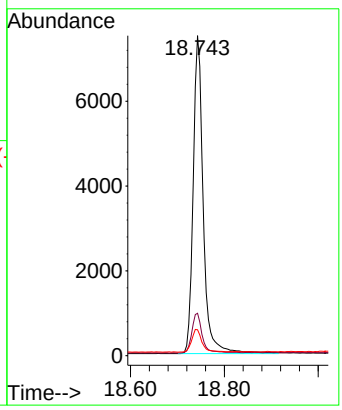


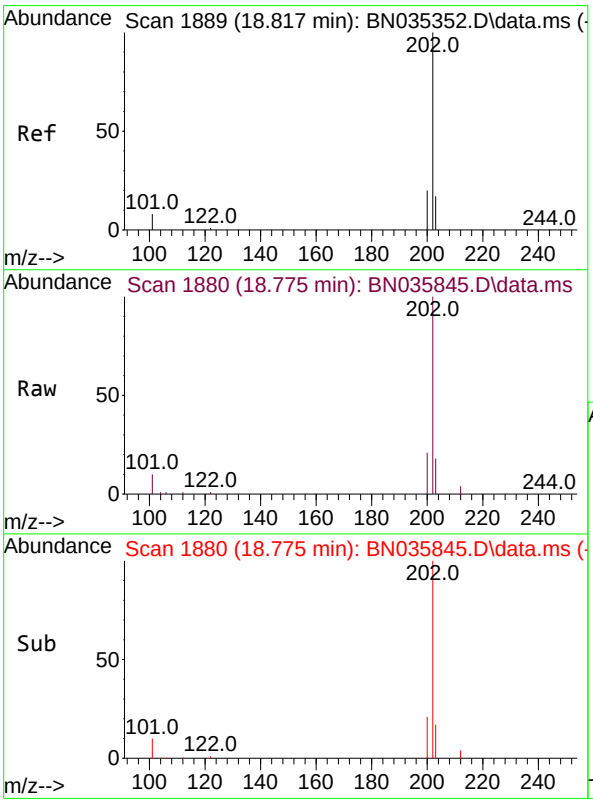
#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 11161

Ion	Ratio	Lower	Upper
212	100		
106	12.7	9.2	13.8
104	7.4	5.3	7.9

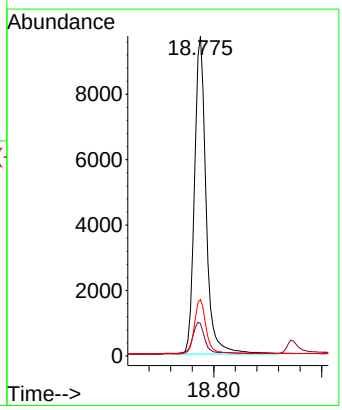


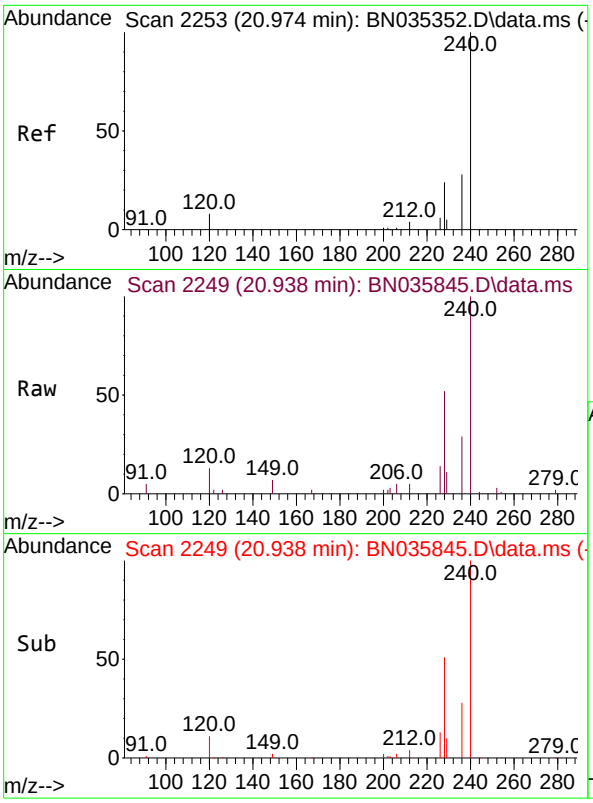


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 14489

Ion	Ratio	Lower	Upper
202	100		
101	10.7	7.4	11.0
203	17.0	13.7	20.5



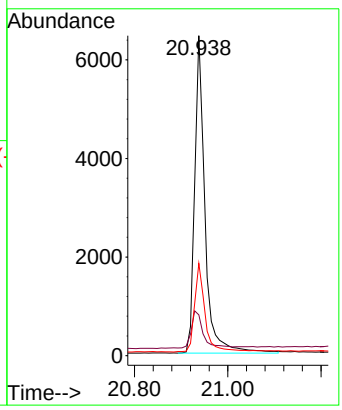


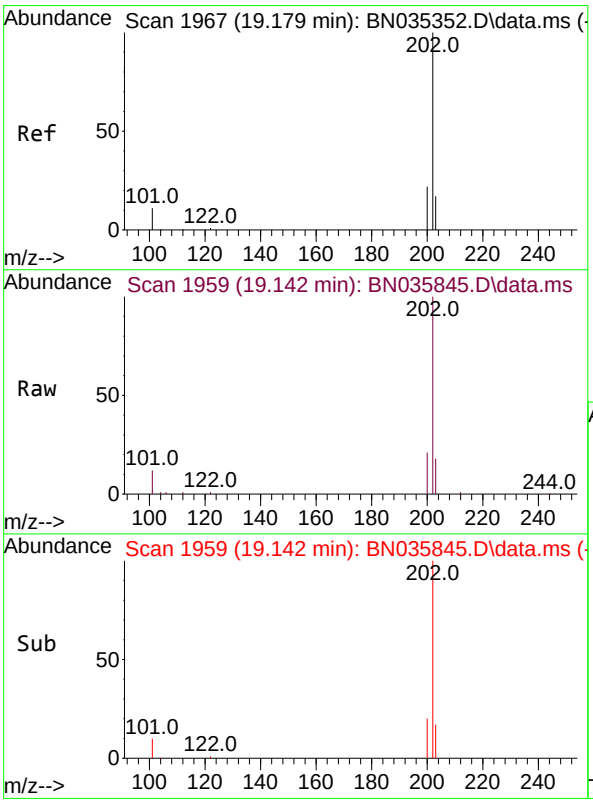
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 9932

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9#
236	28.9	22.9	34.3

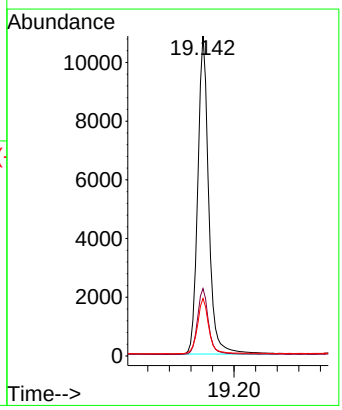


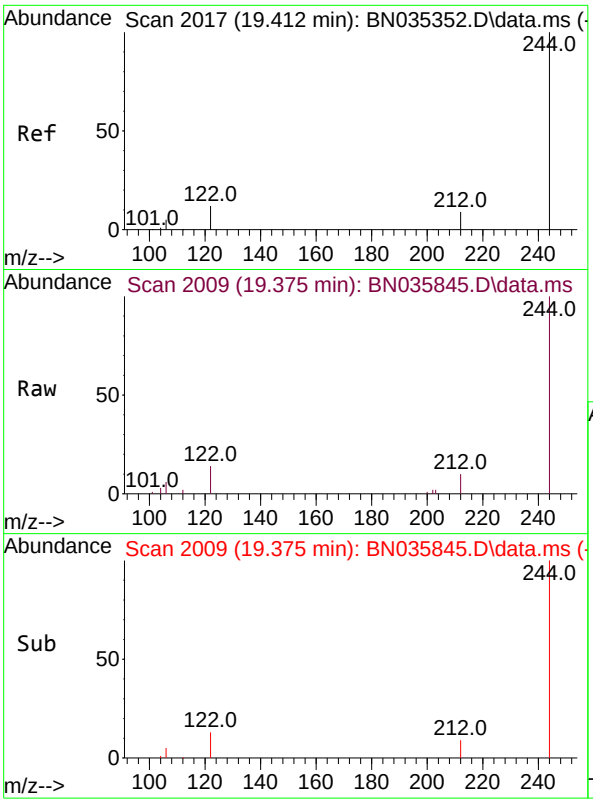


#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.9	14.3	21.5



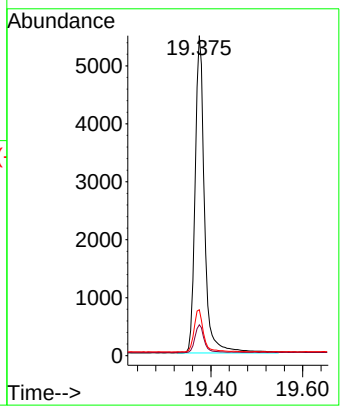


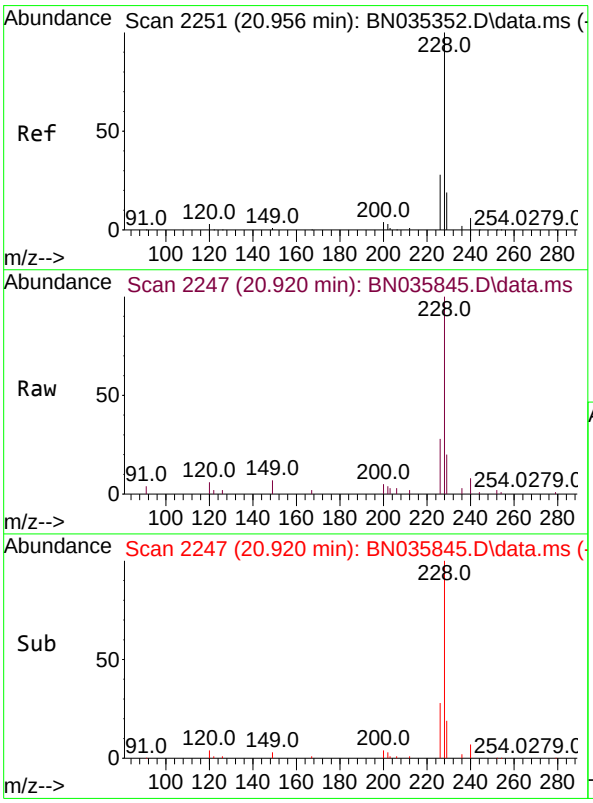
#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 7783

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	14.4	10.3	15.5

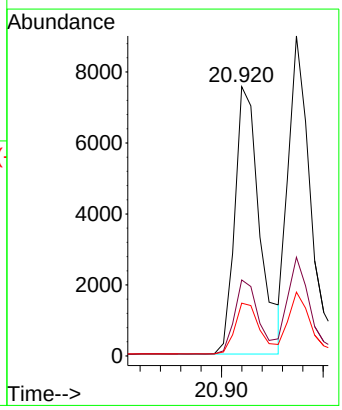


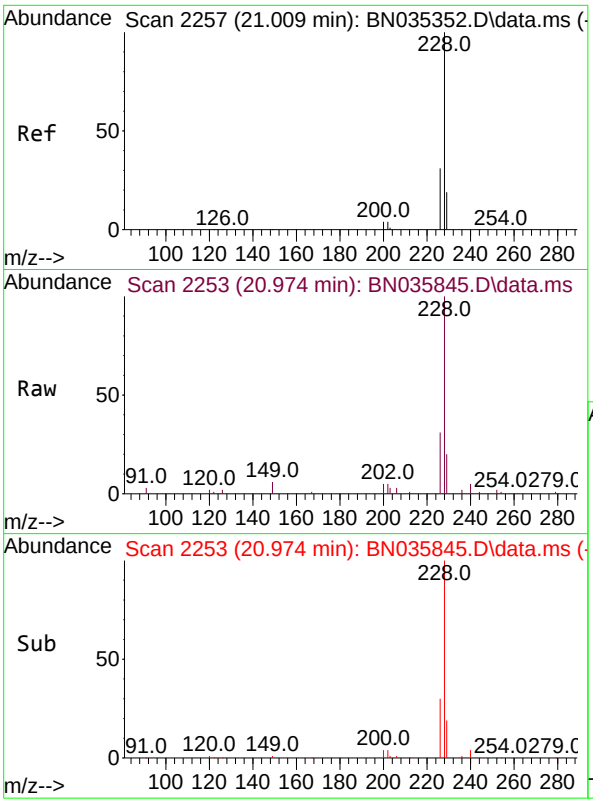


#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 12798

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8



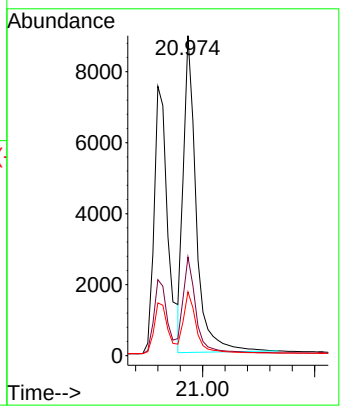


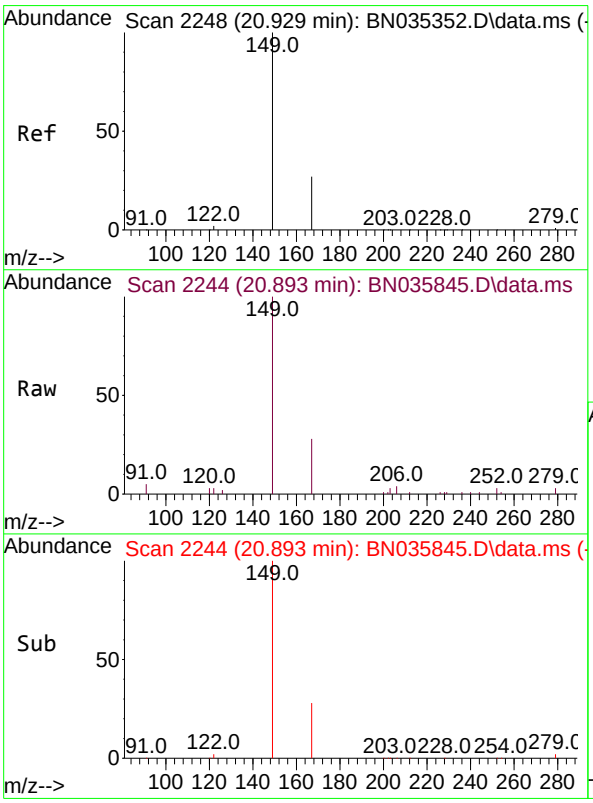
#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 14214

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	20.0	15.9	23.9

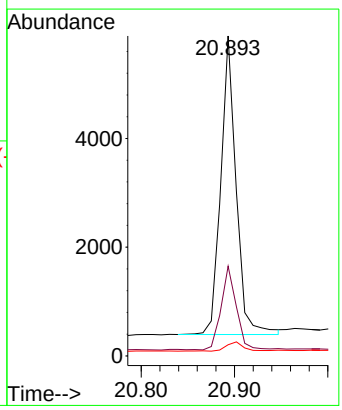


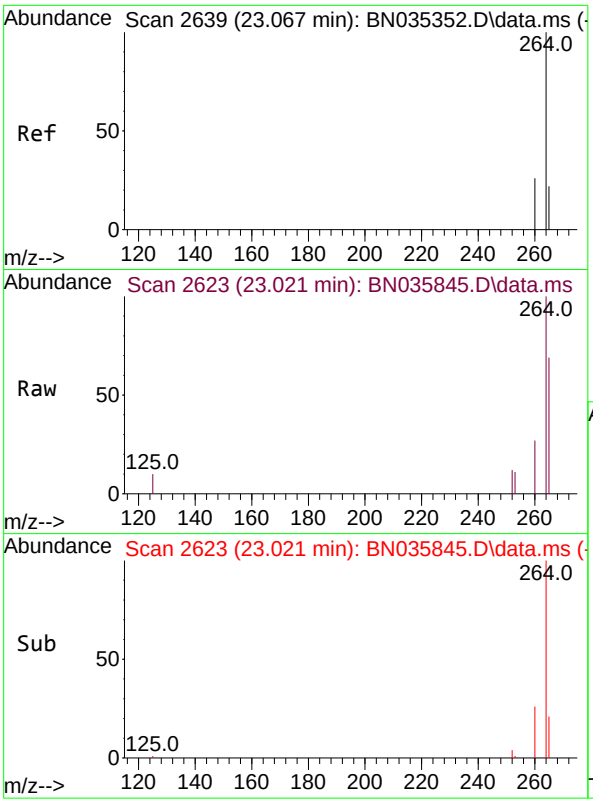


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:149 Resp: 6282

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.4	2.7	4.1



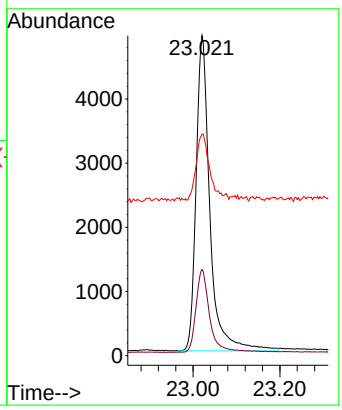


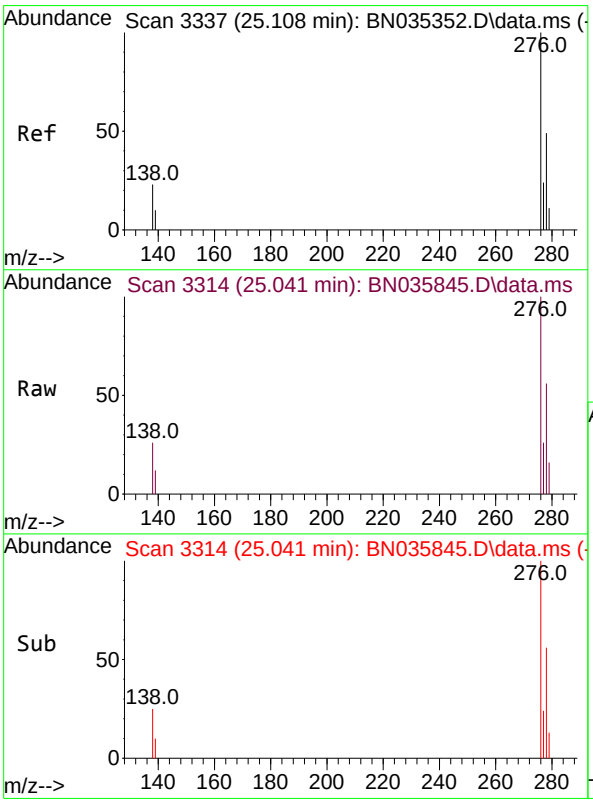
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 10817

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	69.2	40.2	60.4#

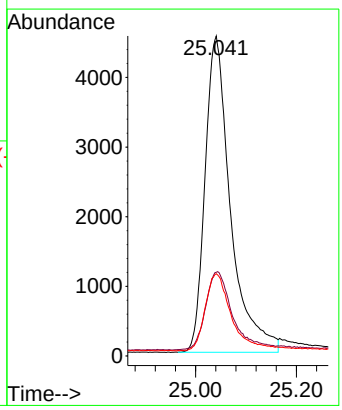


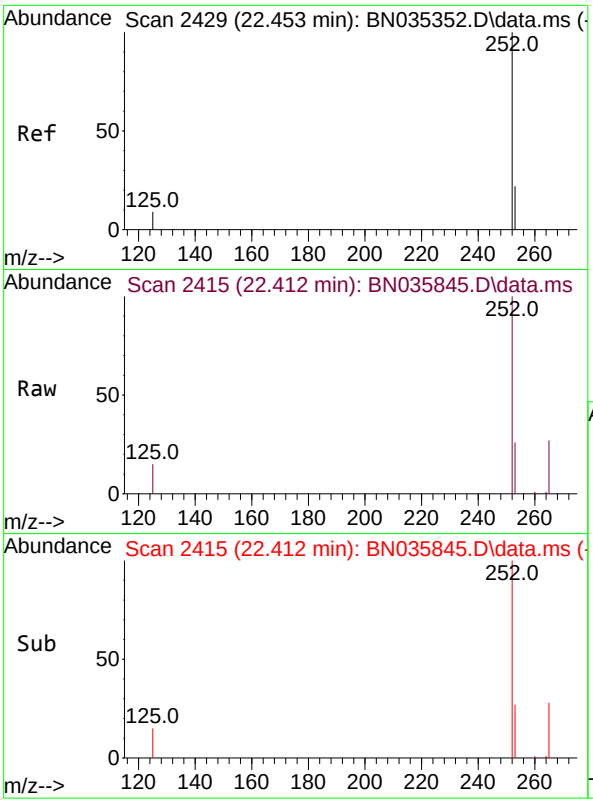


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946

Ion	Ratio	Lower	Upper
276	100		
138	26.4	19.4	29.0
277	25.7	19.8	29.6



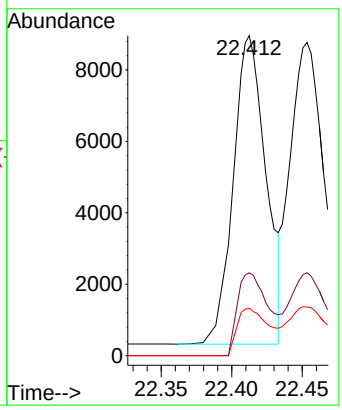


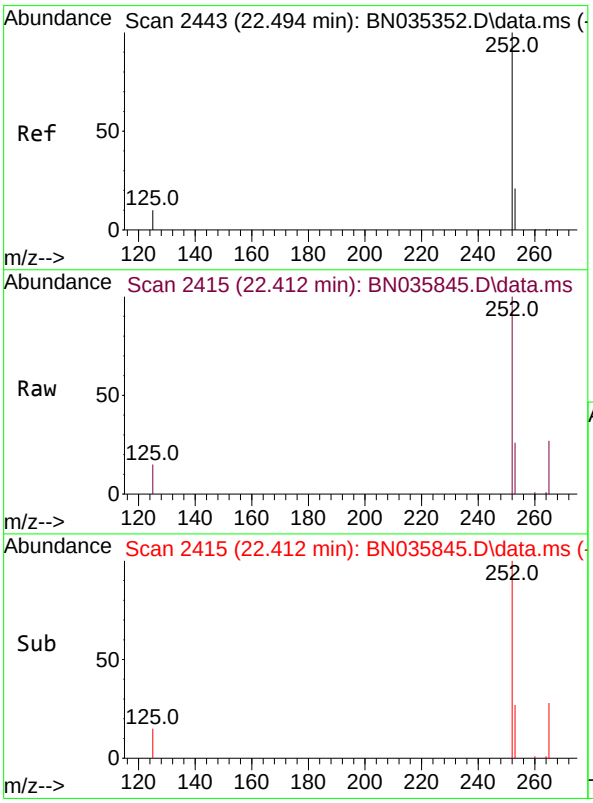
#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 19565

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.9	9.6	14.4#

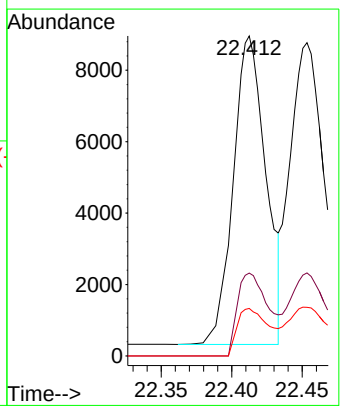


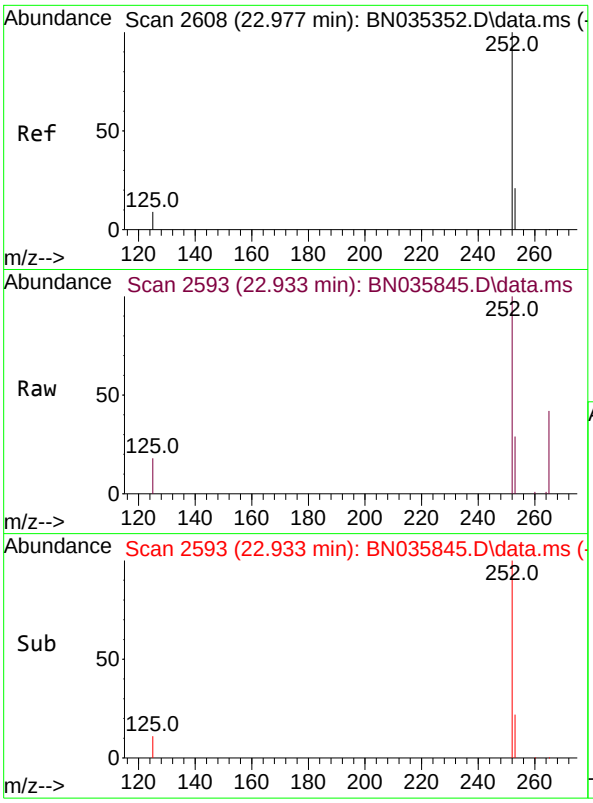


#38
Benzo(k)fluoranthene
Concen: 0.502 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.059 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 19565

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	14.9	10.2	15.4



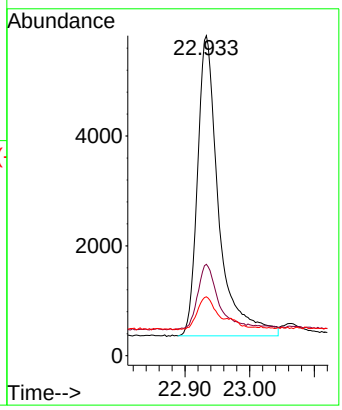


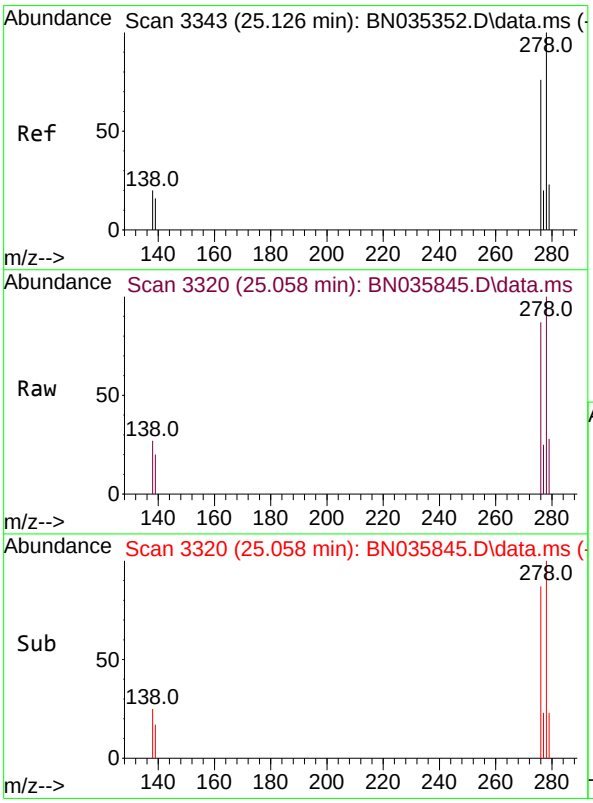
#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 12458

Ion	Ratio	Lower	Upper
252	100		
253	28.6	20.2	30.4
125	18.4	10.9	16.3#

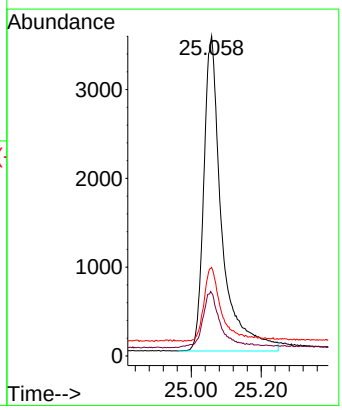


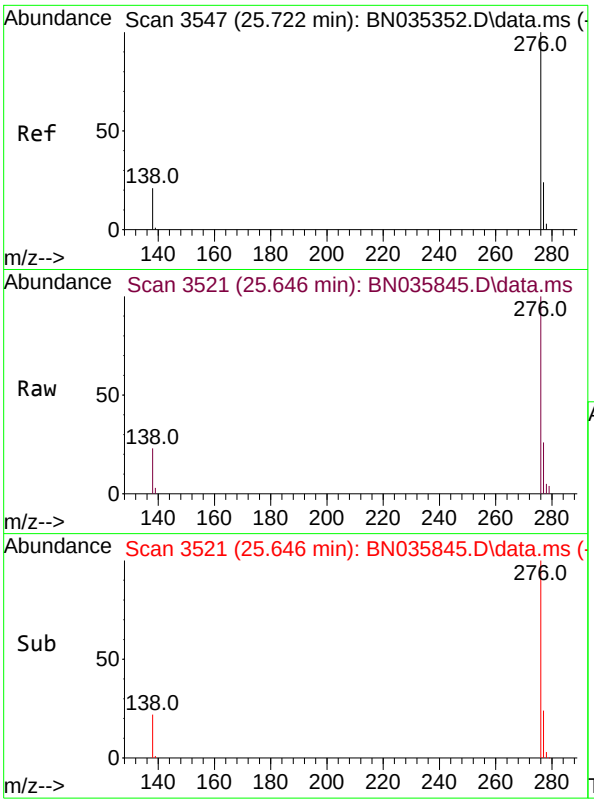


#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:278 Resp: 12678

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.7	20.5	30.7



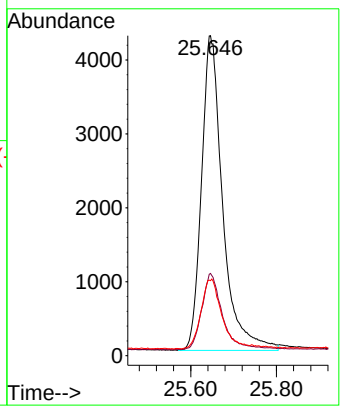


#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 14614

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	23.5	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035847.D
Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Quant Time: Dec 27 00:40:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

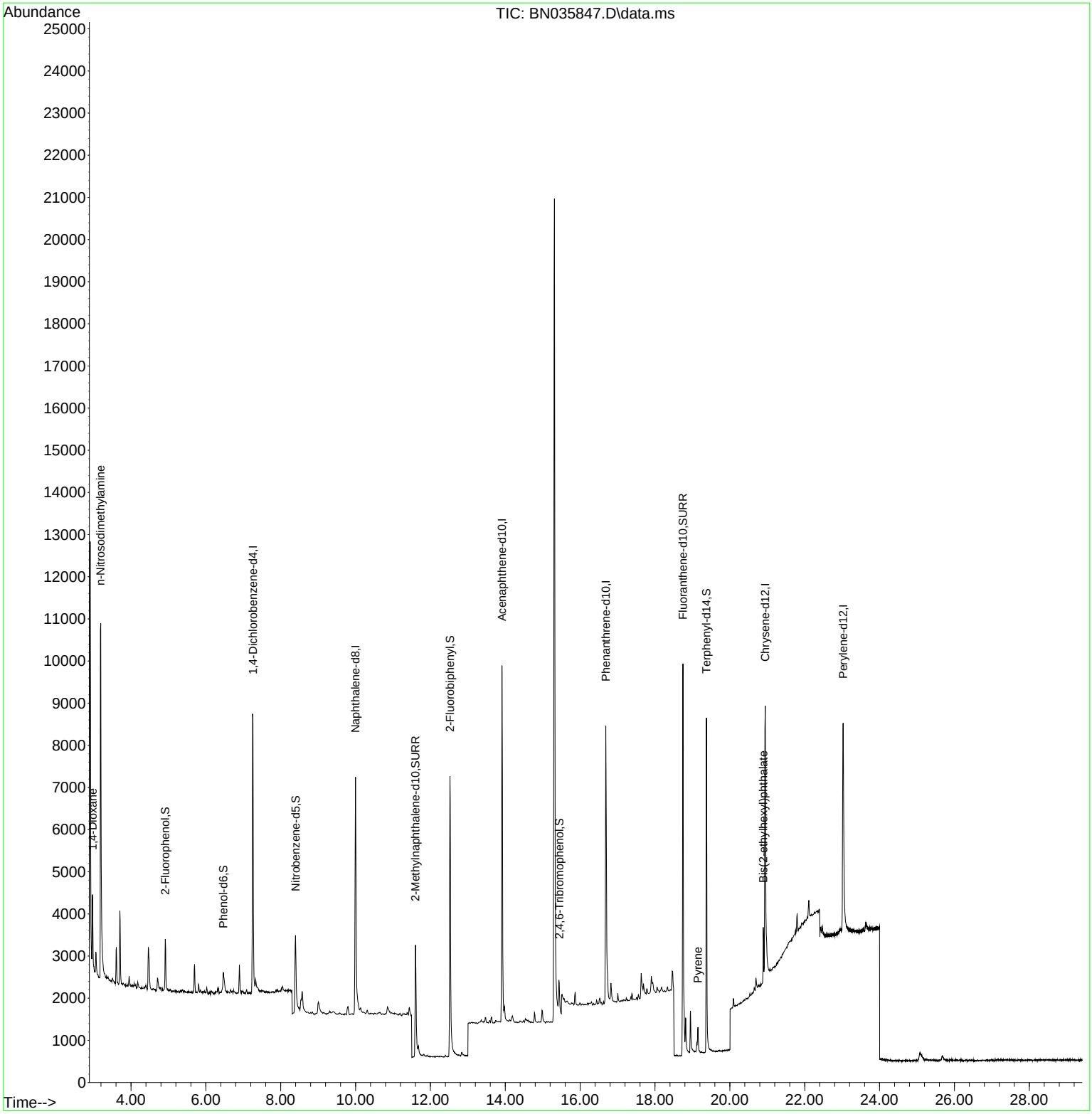
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3703	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	8876	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	5154	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10596	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	8138	0.400	ng	0.00
35) Perylene-d12	23.026	264	8007	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.917	112	1078	0.116	ng	-0.02
5) Phenol-d6	6.470	99	611	0.055	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3163	0.583	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	4895	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	808	0.221	ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	7648	0.393	ng	-0.02
27) Fluoranthene-d10	18.747	212	11741	0.391	ng	-0.01
31) Terphenyl-d14	19.375	244	8616	0.537	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1214	0.343	ng	98
3) n-Nitrosodimethylamine	3.184	42	1981	0.672	ng	# 1
30) Pyrene	19.147	202	618	0.021	ng	97
34) Bis(2-ethylhexyl)phtha...	20.893	149	1284	0.114	ng	# 96

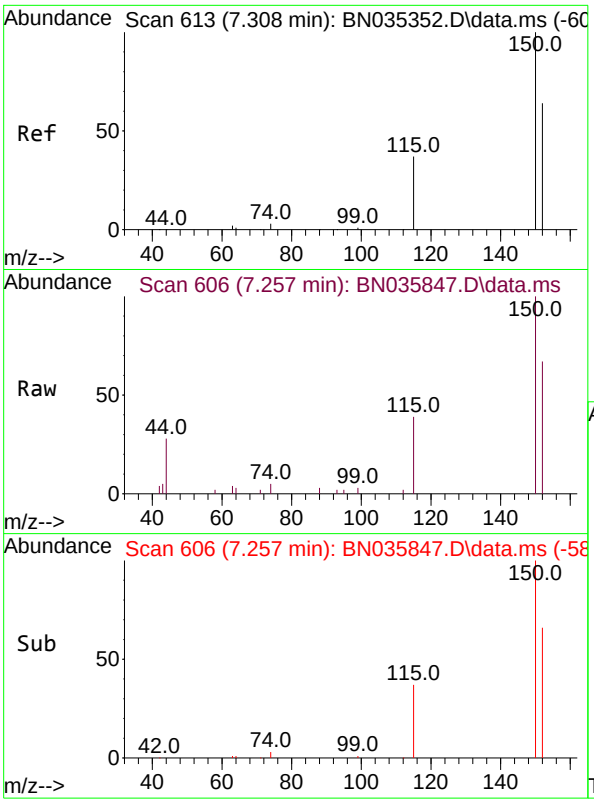
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035847.D
Acq On : 26 Dec 2024 11:20
Operator : RC/JU
Sample : P5376-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Quant Time: Dec 27 00:40:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



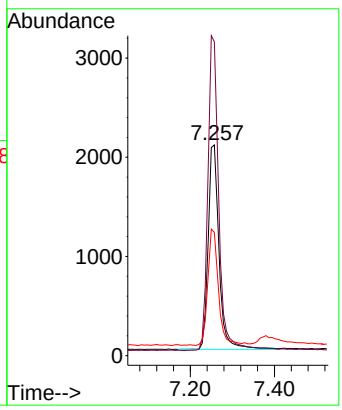


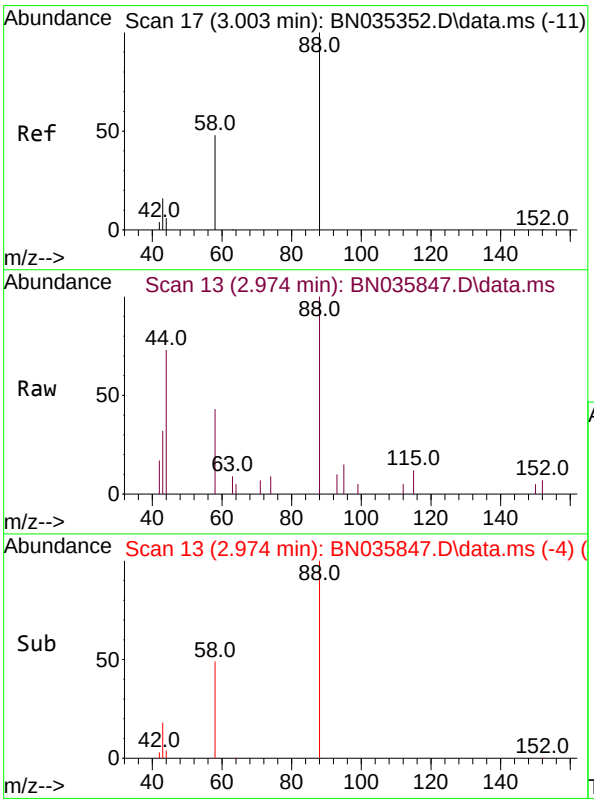
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Tgt Ion:152 Resp: 3703

Ion	Ratio	Lower	Upper
152	100		
150	148.9	124.0	186.0
115	58.5	49.6	74.4

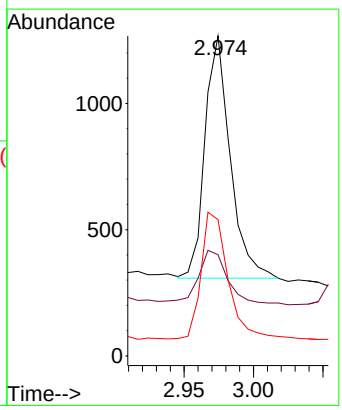


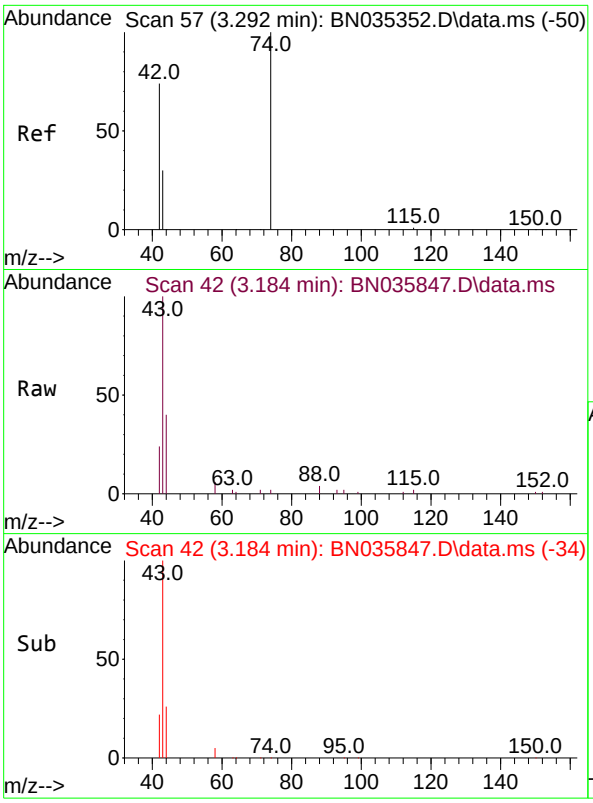


#2
1,4-Dioxane
Concen: 0.343 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion: 88 Resp: 1214

Ion	Ratio	Lower	Upper
88	100		
43	24.0	17.2	25.8
58	55.2	44.5	66.7



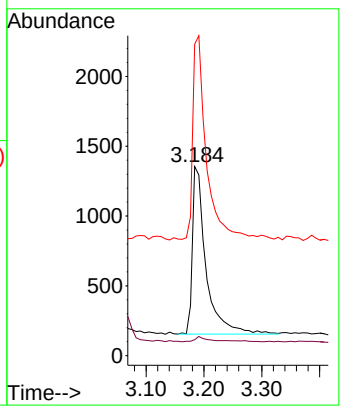


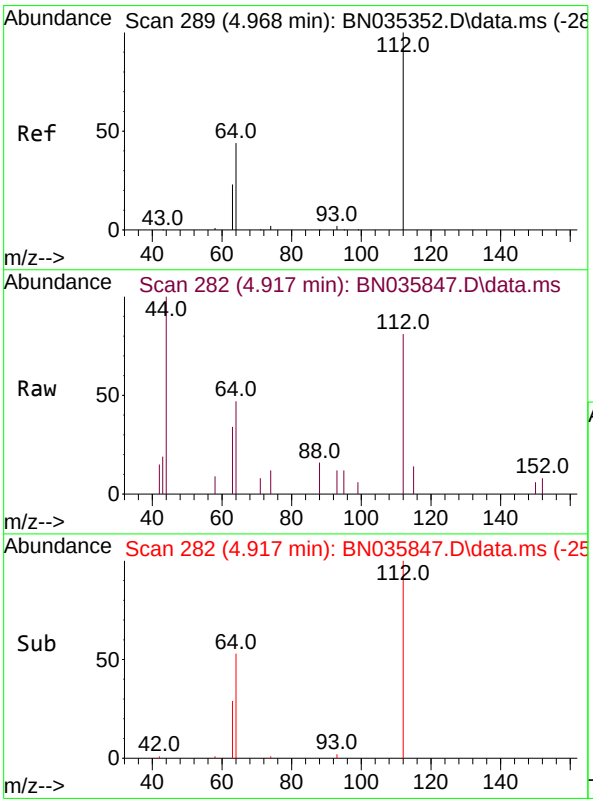
#3
n-Nitrosodimethylamine
Concen: 0.672 ng
RT: 3.184 min Scan# 4
Delta R.T. -0.094 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Tgt Ion: 42 Resp: 1981

Ion	Ratio	Lower	Upper
42	100		
74	4.1	124.9	187.3#
44	122.5	2.2	3.4#

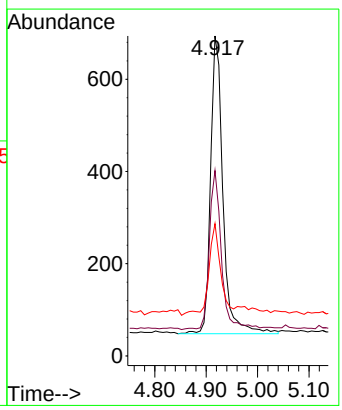


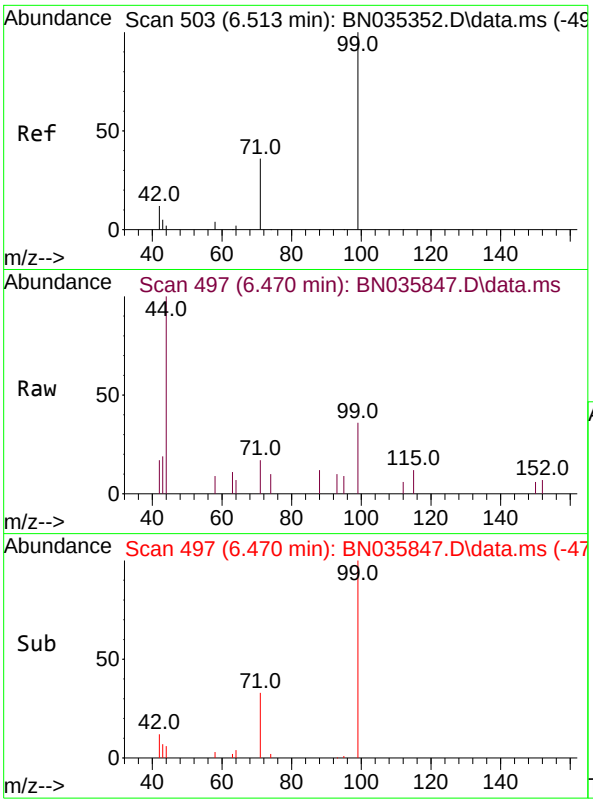


#4
2-Fluorophenol
Concen: 0.116 ng
RT: 4.917 min Scan# 282
Delta R.T. -0.022 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:112 Resp: 1078

Ion	Ratio	Lower	Upper
112	100		
64	52.5	39.8	59.8
63	29.4	21.0	31.6



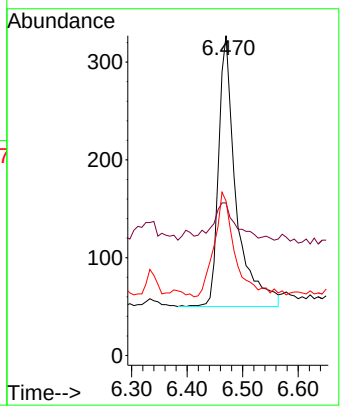


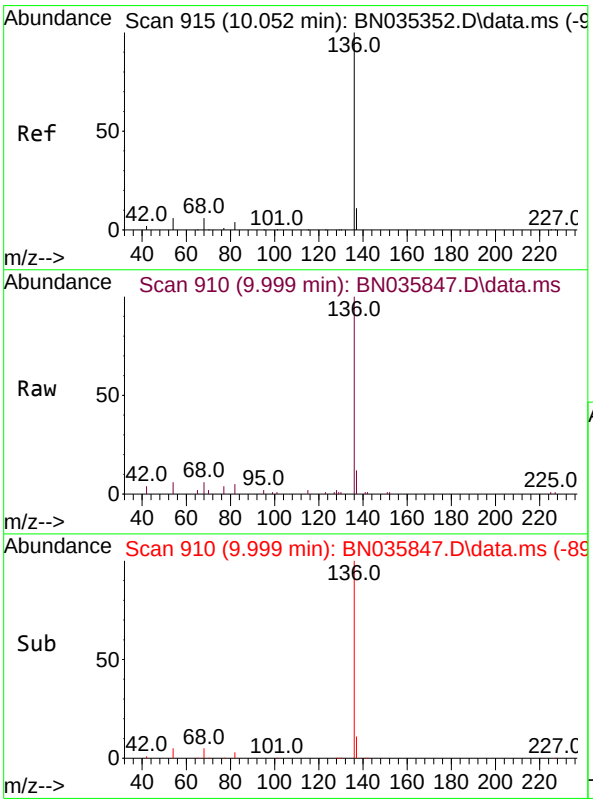
#5
Phenol-d6
Concen: 0.055 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Tgt Ion: 99 Resp: 611

Ion	Ratio	Lower	Upper
99	100		
42	20.9	11.4	17.2#
71	46.6	29.3	43.9#

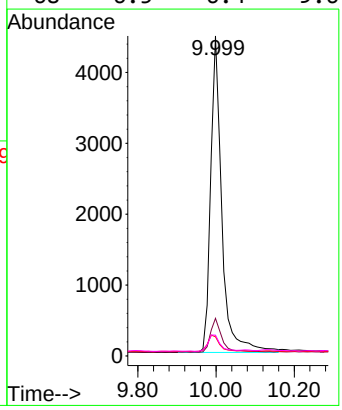


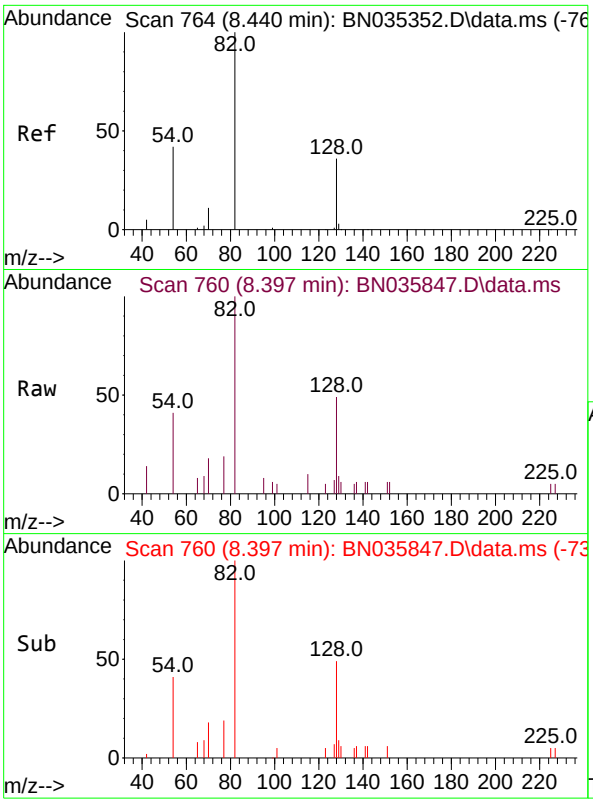


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 910
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:136 Resp: 8876

Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.2	15.2
54	6.0	6.1	9.1#
68	6.5	6.4	9.6



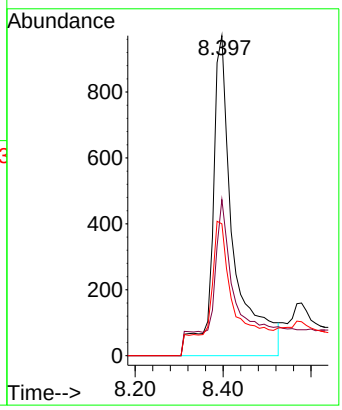


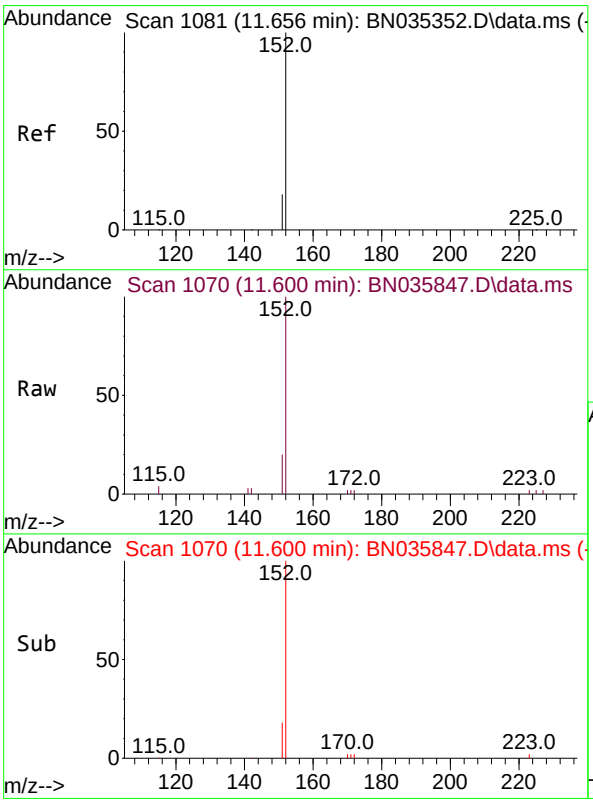
#8
Nitrobenzene-d5
Concen: 0.583 ng
RT: 8.397 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Tgt Ion: 82 Resp: 3163

Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	41.2	36.7	55.1

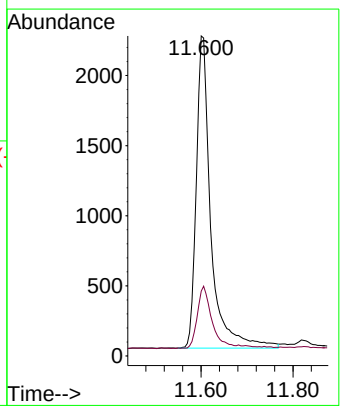


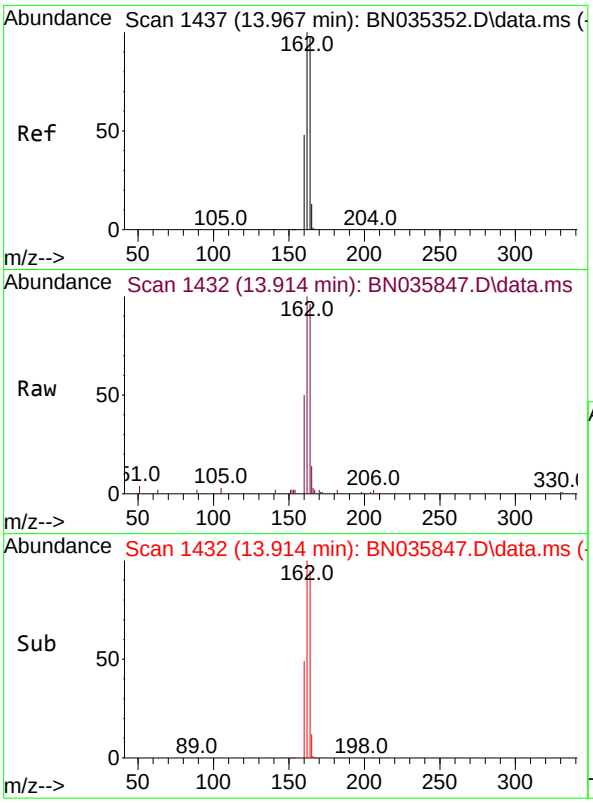


#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.600 min Scan# 1070
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:152 Resp: 4895

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.6	25.0



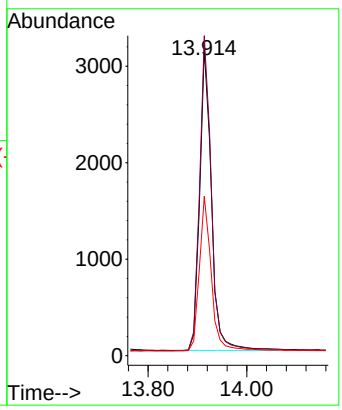


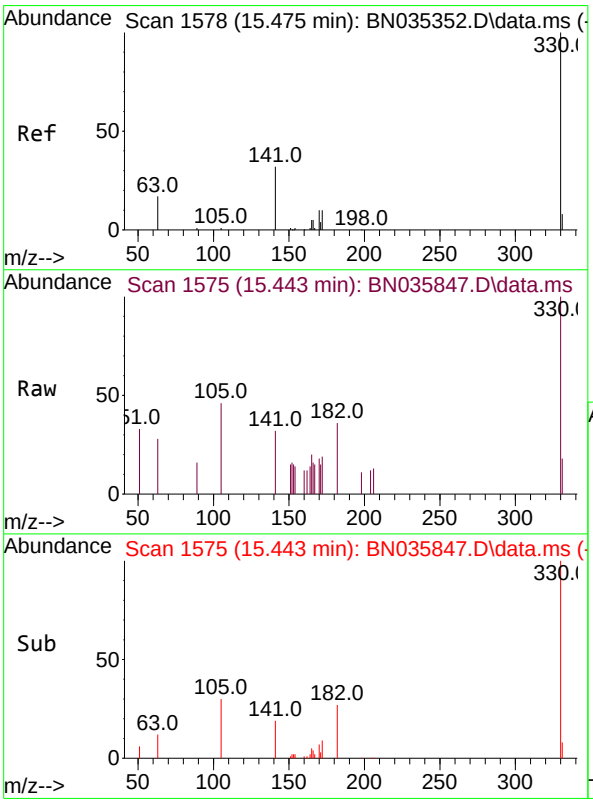
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Tgt Ion:164 Resp: 5154

Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.2	123.2
160	52.0	40.1	60.1

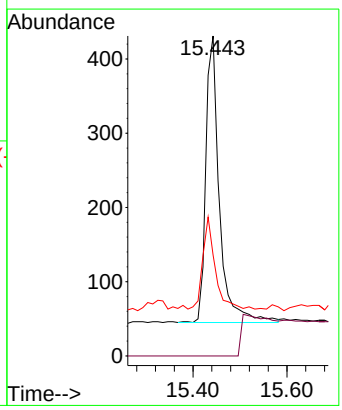


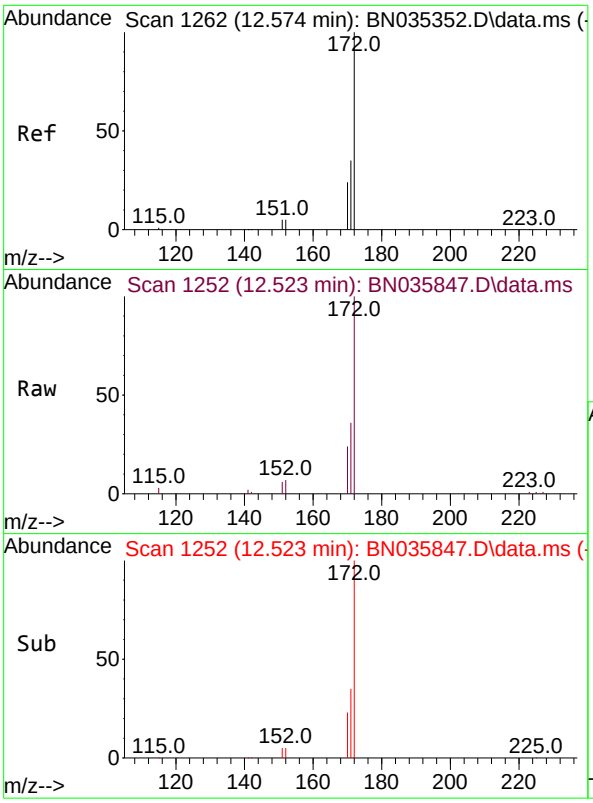


#14
2,4,6-Tribromophenol
Concen: 0.221 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:330 Resp: 808

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	28.6	26.6	40.0



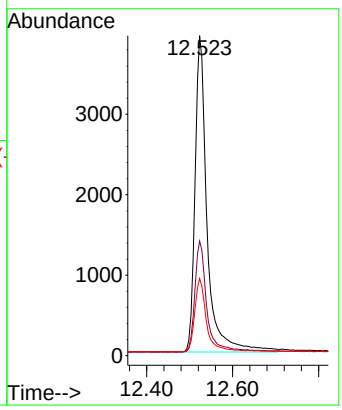


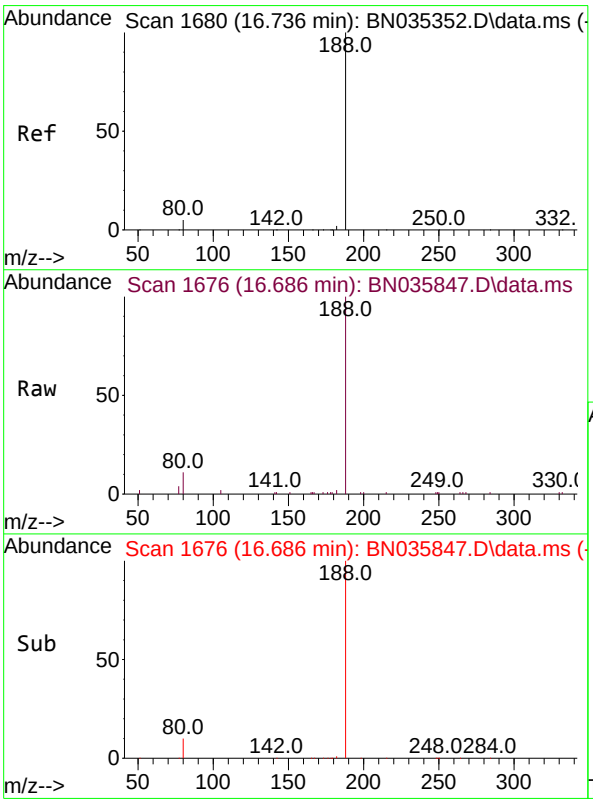
#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Tgt Ion:172 Resp: 7648

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	24.1	19.8	29.8

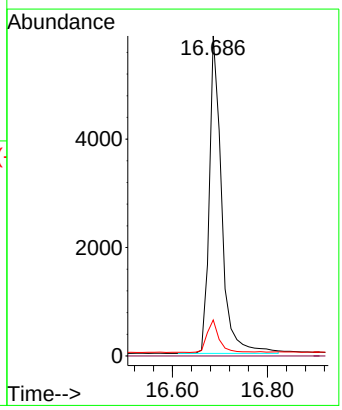


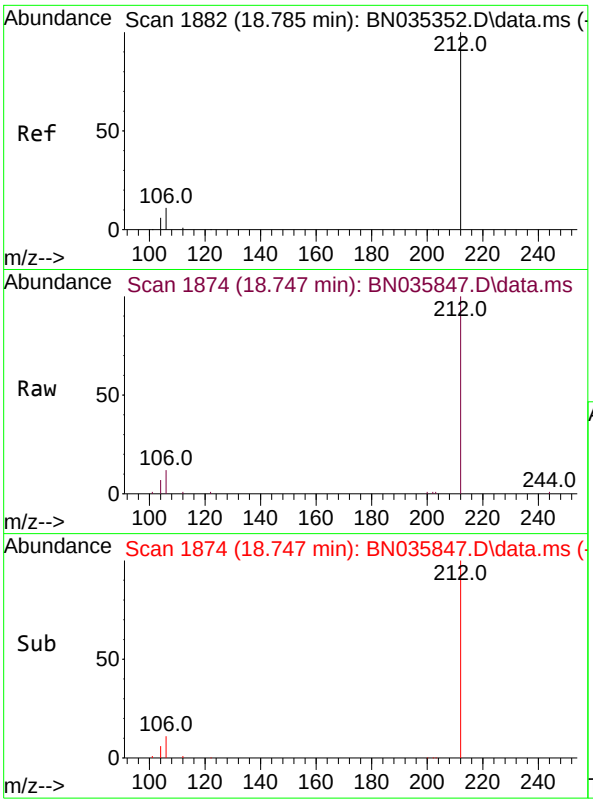


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.013 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:188 Resp: 10596

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.2	4.6	6.8#



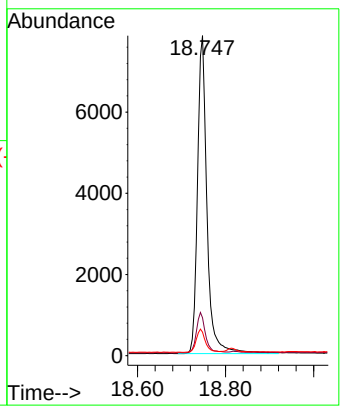


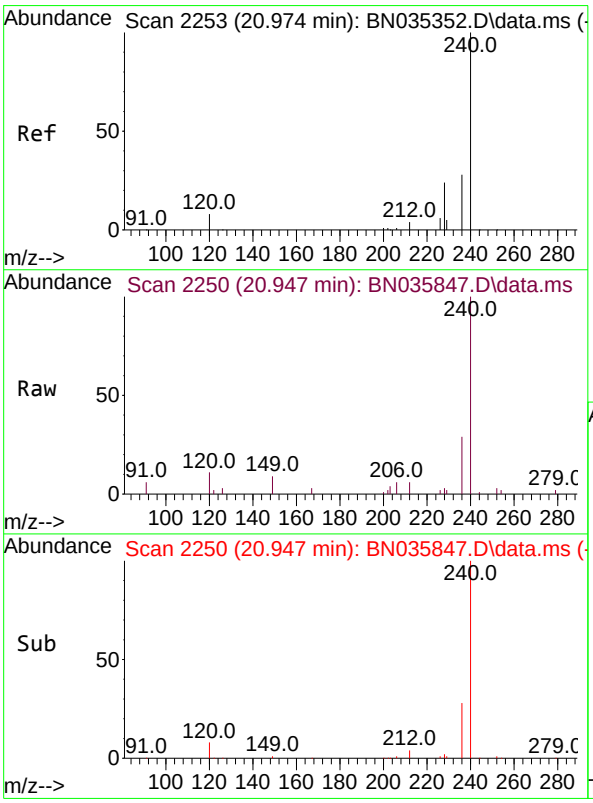
#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Tgt Ion:212 Resp: 11741

Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.2	13.8
104	6.9	5.3	7.9

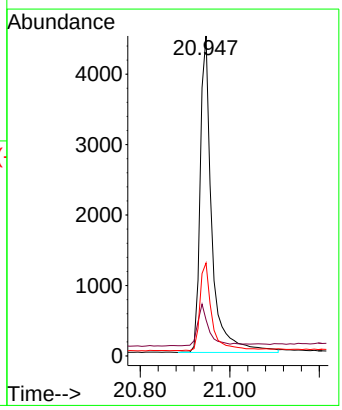


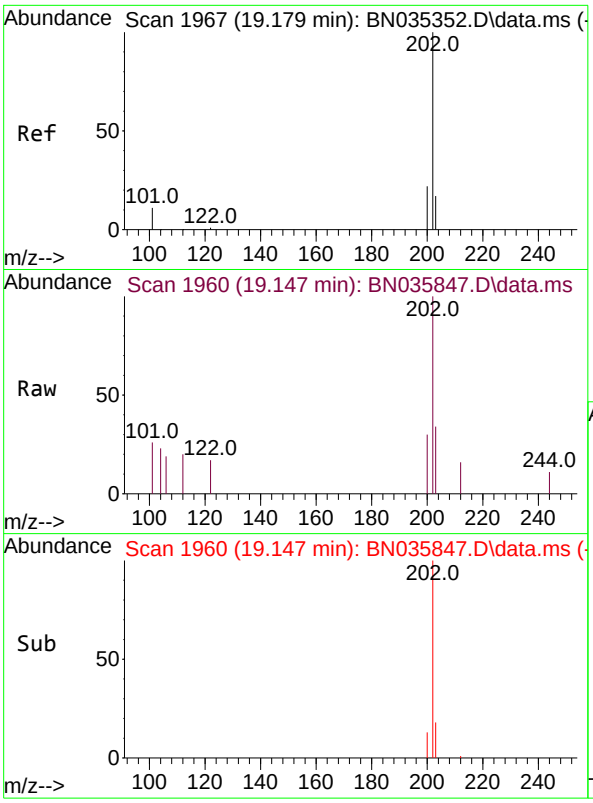


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:240 Resp: 8138

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	29.1	22.9	34.3



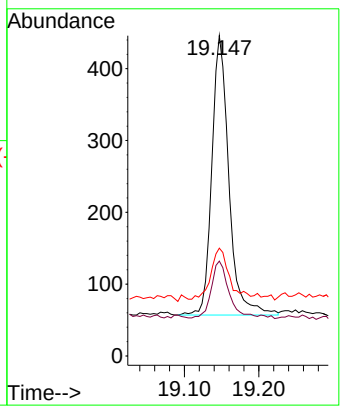


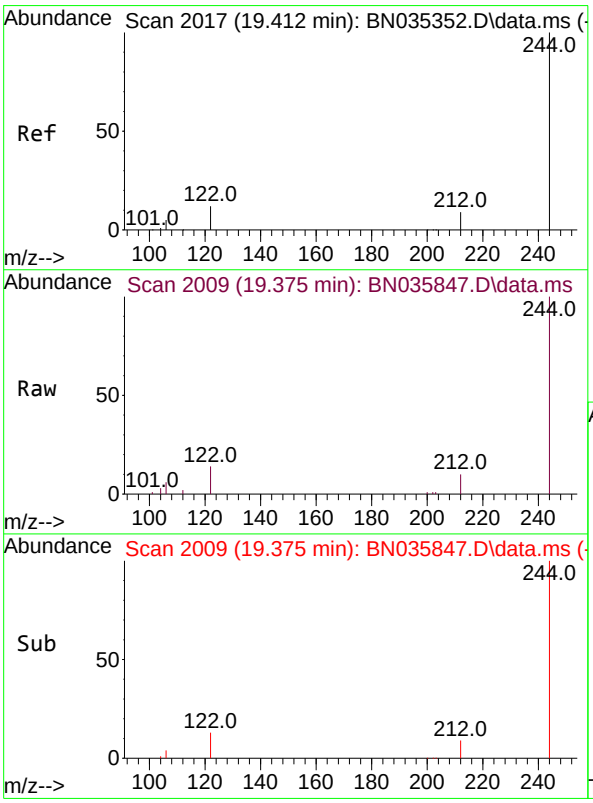
#30
Pyrene
Concen: 0.021 ng
RT: 19.147 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Tgt Ion:202 Resp: 618

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	20.2	14.3	21.5

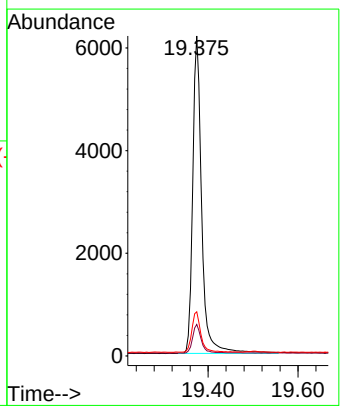


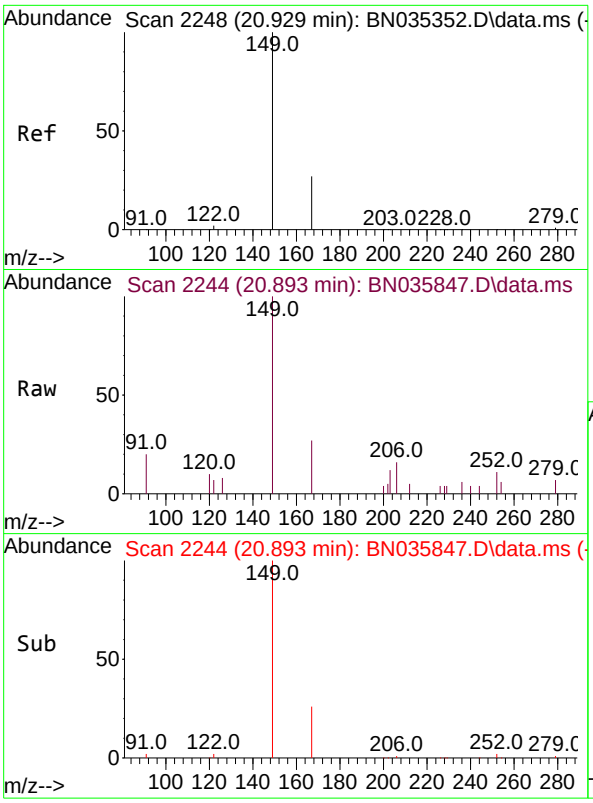


#31
Terphenyl-d14
Concen: 0.537 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:244 Resp: 8616

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	13.8	10.3	15.5



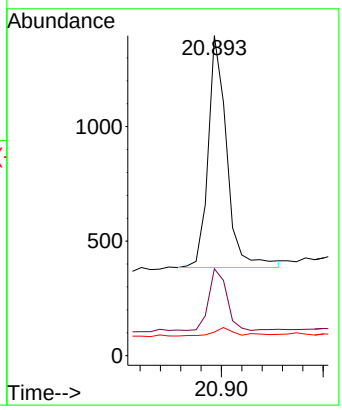


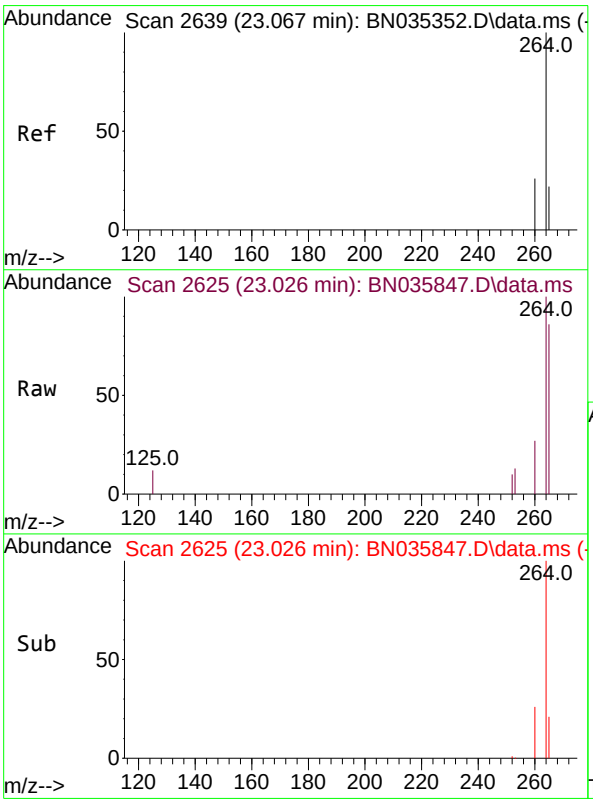
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Instrument :
BNA_N
ClientSampleId :
TT162S1-20241219

Tgt Ion:149 Resp: 1284

Ion	Ratio	Lower	Upper
149	100		
167	25.5	22.2	33.4
279	4.3	2.7	4.1#

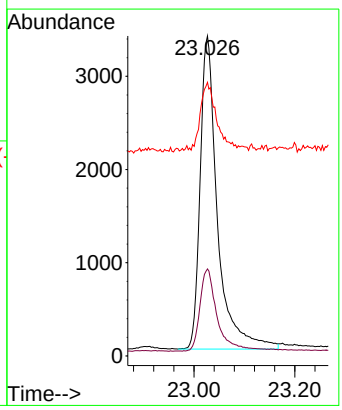




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2625
Delta R.T. -0.015 min
Lab File: BN035847.D
Acq: 26 Dec 2024 11:20

Tgt Ion:264 Resp: 8007

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	85.5	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3480	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	8196	0.400	ng	-0.01
13) Acenaphthene-d10	13.925	164	5304	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng	# 0.00
29) Chrysene-d12	20.938	240	9719	0.400	ng	#-0.02
35) Perylene-d12	23.024	264	9432	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	914	0.105	ng	-0.01
5) Phenol-d6	6.477	99	498	0.048	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2399	0.479	ng	-0.01
11) 2-Methylnaphthalene-d10	11.611	152	4509	0.352	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	838	0.223	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	7269	0.363	ng	-0.01
27) Fluoranthene-d10	18.748	212	14226	0.435	ng	-0.01
31) Terphenyl-d14	19.375	244	10878	0.567	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.975	88	577	0.173	ng	# 83
6) bis(2-Chloroethyl)ether	6.615	93	1634	0.186	ng	# 32
34) Bis(2-ethylhexyl)phtha...	20.893	149	751	0.056	ng	# 95

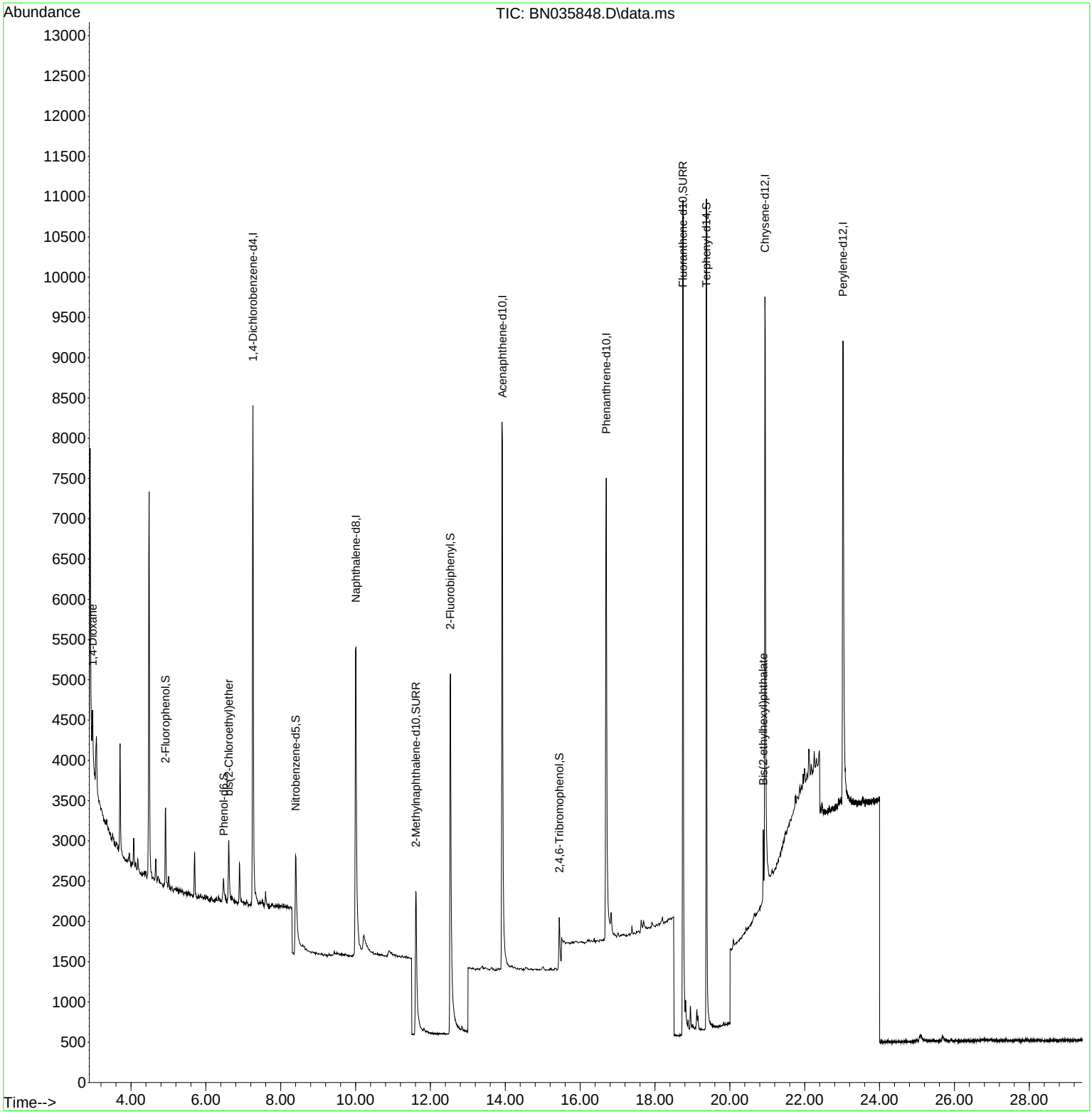
(#) = qualifier out of range (m) = manual integration (+) = signals summed

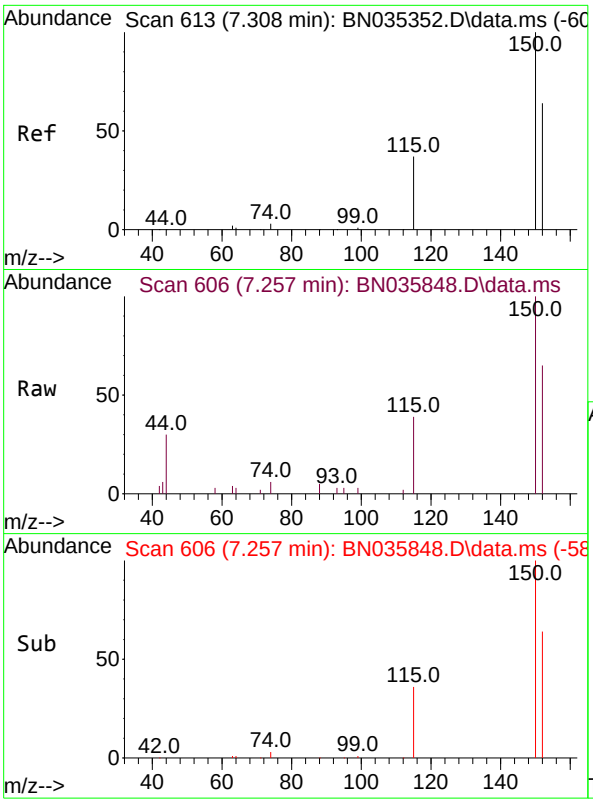
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035848.D
Acq On : 26 Dec 2024 11:56
Operator : RC/JU
Sample : P5376-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Quant Time: Dec 27 00:40:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



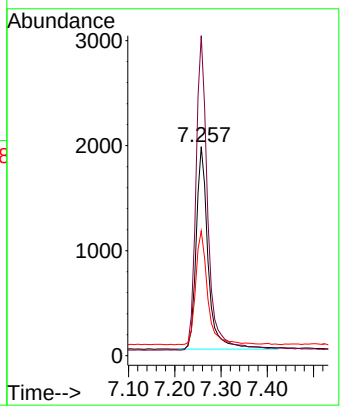


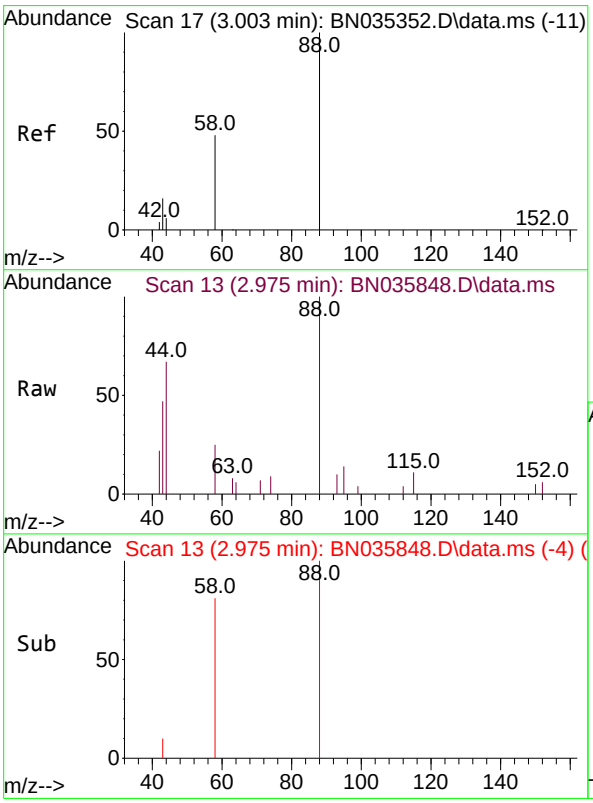
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion:152 Resp: 3480

Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	59.7	49.6	74.4

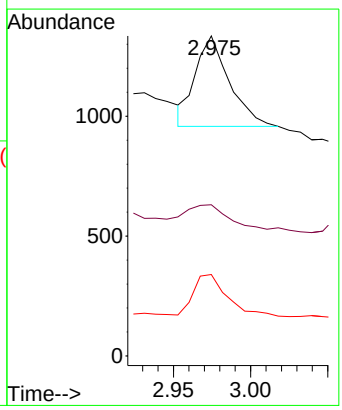


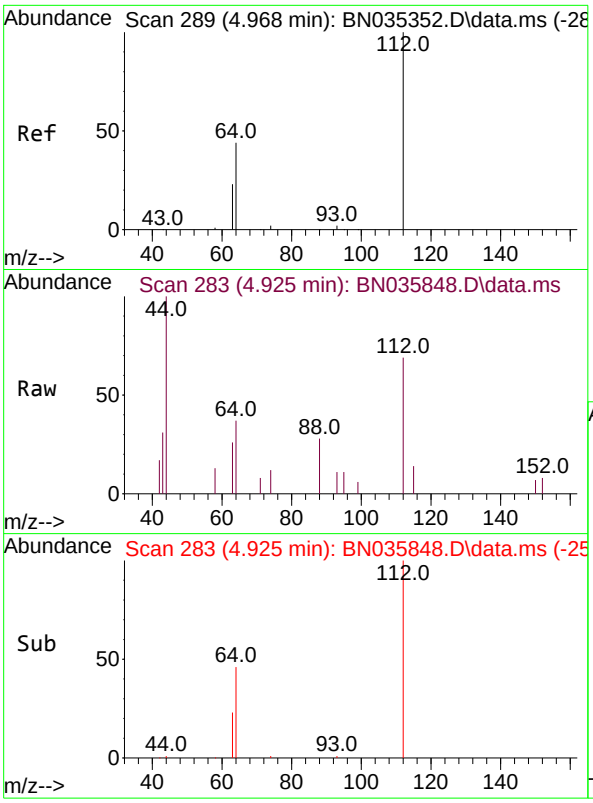


#2
1,4-Dioxane
Concen: 0.173 ng
RT: 2.975 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 88 Resp: 577

Ion	Ratio	Lower	Upper
88	100		
43	34.5	17.2	25.8#
58	46.1	44.5	66.7



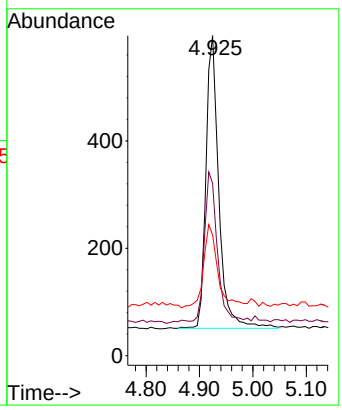


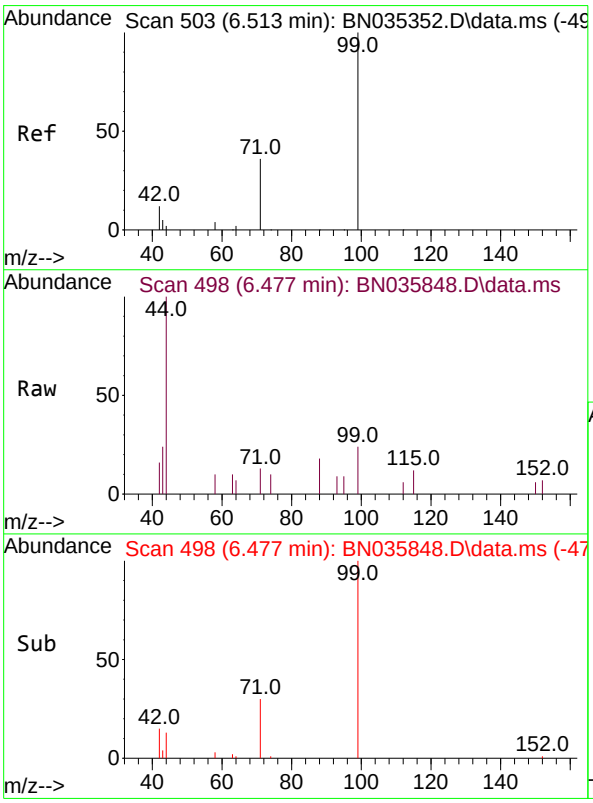
#4
2-Fluorophenol
Concen: 0.105 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion:112 Resp: 914

Ion	Ratio	Lower	Upper
112	100		
64	50.8	39.8	59.8
63	31.6	21.0	31.6#

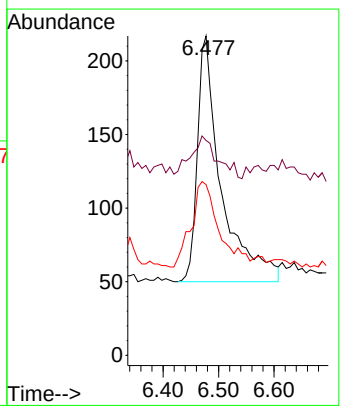


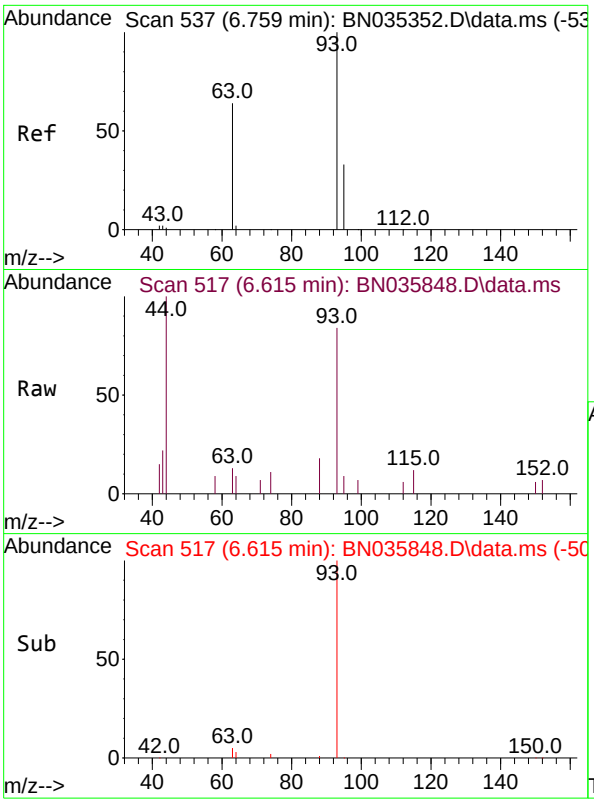


#5
Phenol-d6
Concen: 0.048 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion: 99 Resp: 498

Ion	Ratio	Lower	Upper
99	100		
42	19.5	11.4	17.2#
71	40.4	29.3	43.9



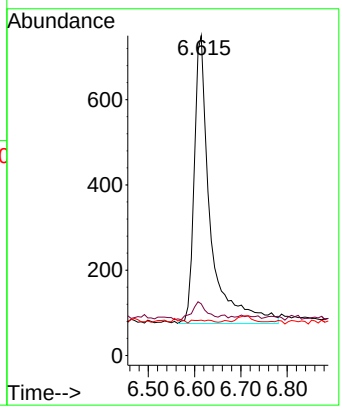


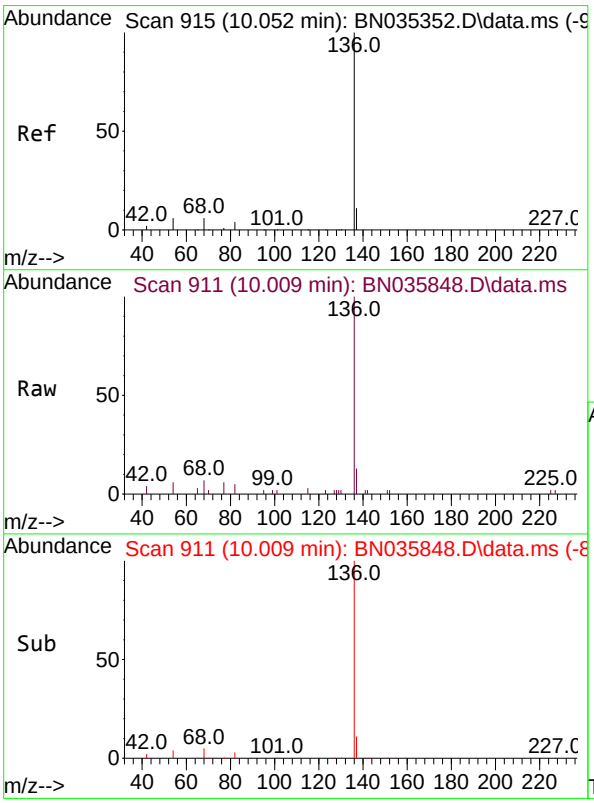
#6
bis(2-Chloroethyl)ether
Concen: 0.186 ng
RT: 6.615 min Scan# 5
Delta R.T. -0.116 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion: 93 Resp: 1634

Ion	Ratio	Lower	Upper
93	100		
63	5.6	50.4	75.6#
95	0.0	25.7	38.5#

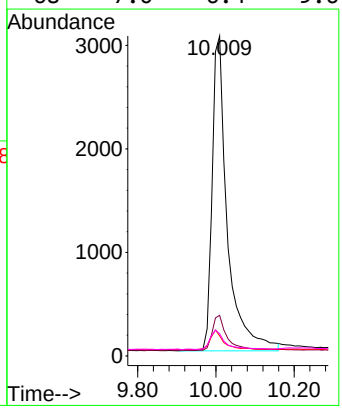


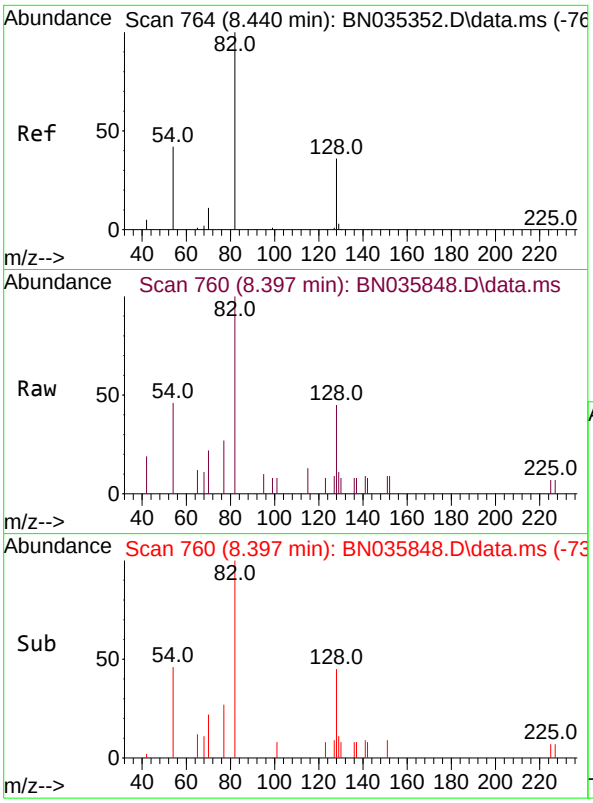


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:136 Resp: 8196

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	6.3	6.1	9.1
68	7.0	6.4	9.6



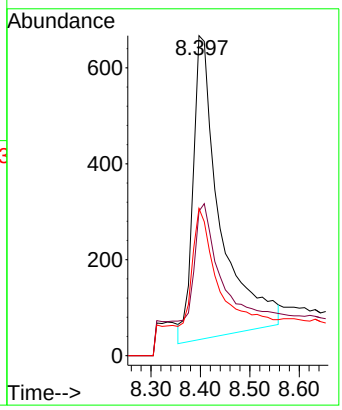


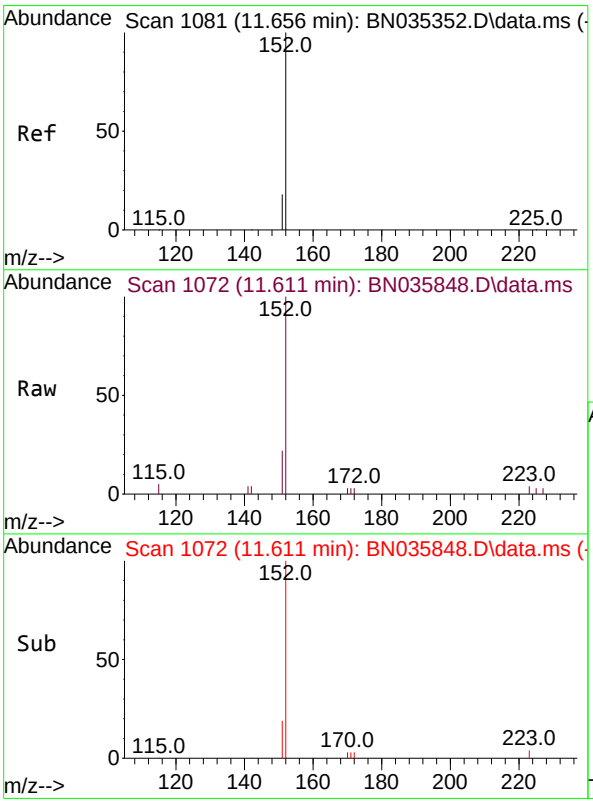
#8
Nitrobenzene-d5
Concen: 0.479 ng
RT: 8.397 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion: 82 Resp: 2399

Ion	Ratio	Lower	Upper
82	100		
128	45.1	33.4	50.0
54	46.0	36.7	55.1

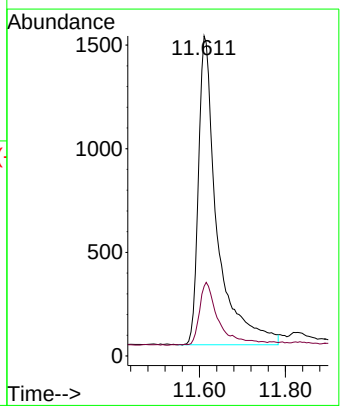


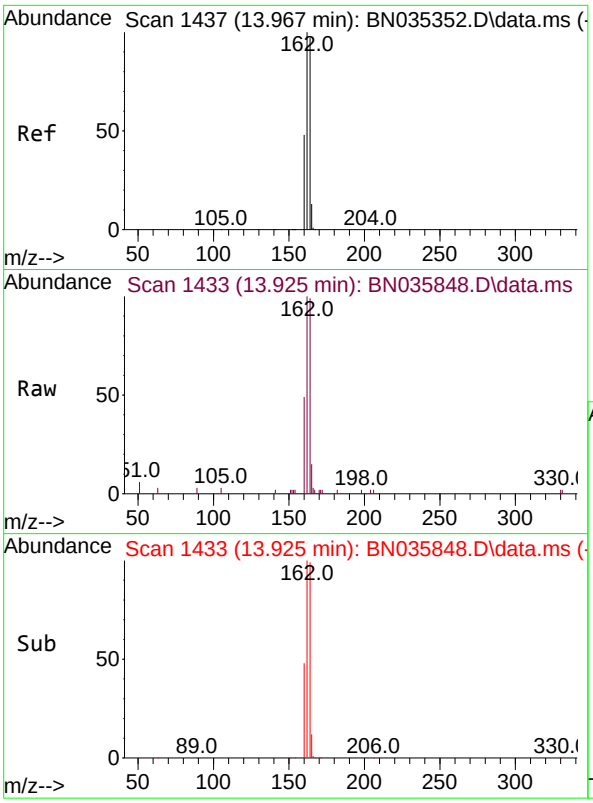


#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.611 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:152 Resp: 4509

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0



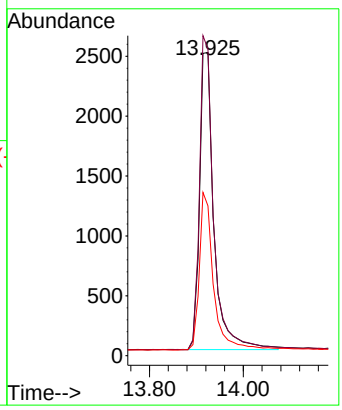


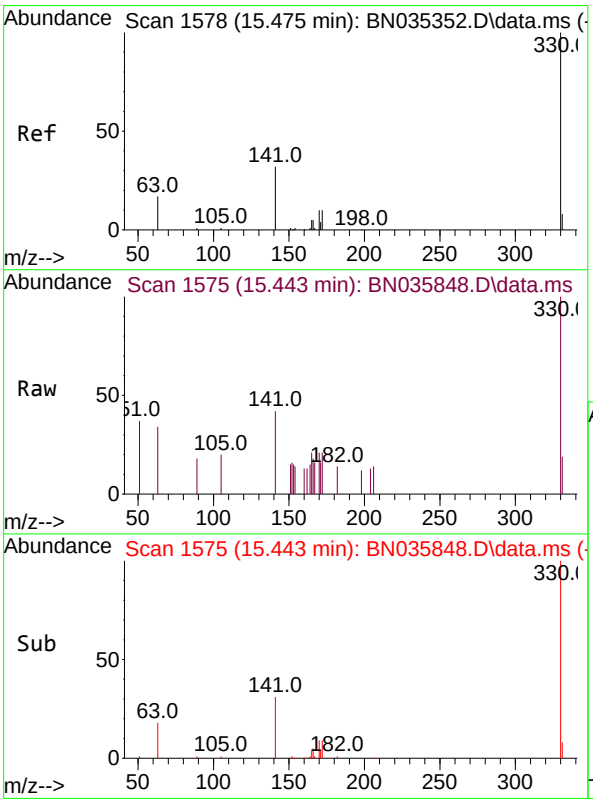
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion:164 Resp: 5304

Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	49.4	40.1	60.1

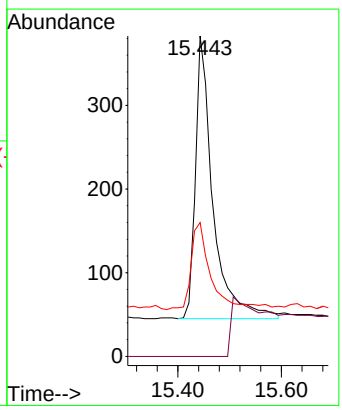


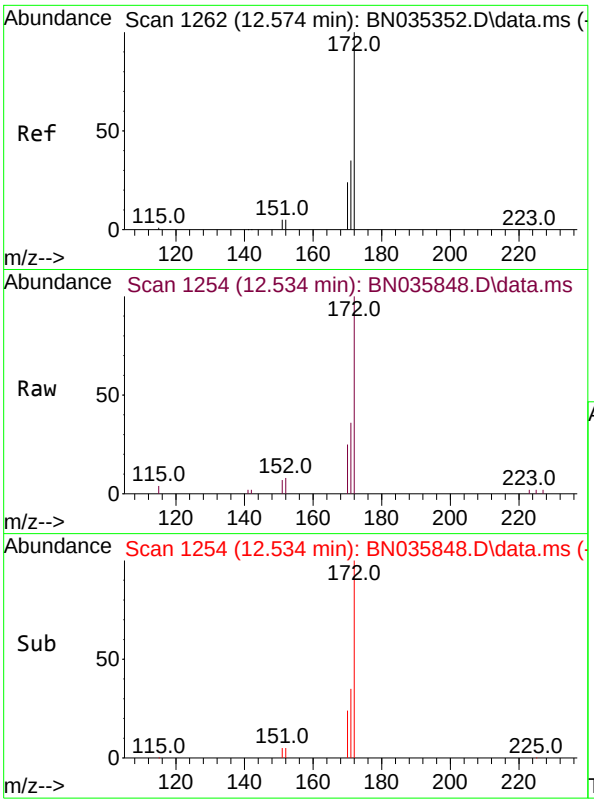


#14
2,4,6-Tribromophenol
Concen: 0.223 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:330 Resp: 838

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.1	26.6	40.0



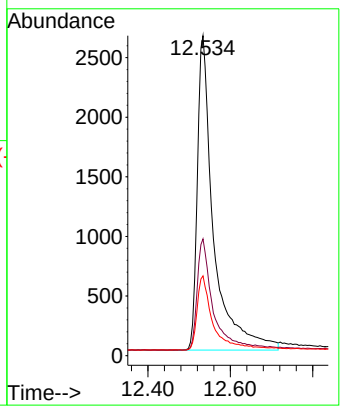


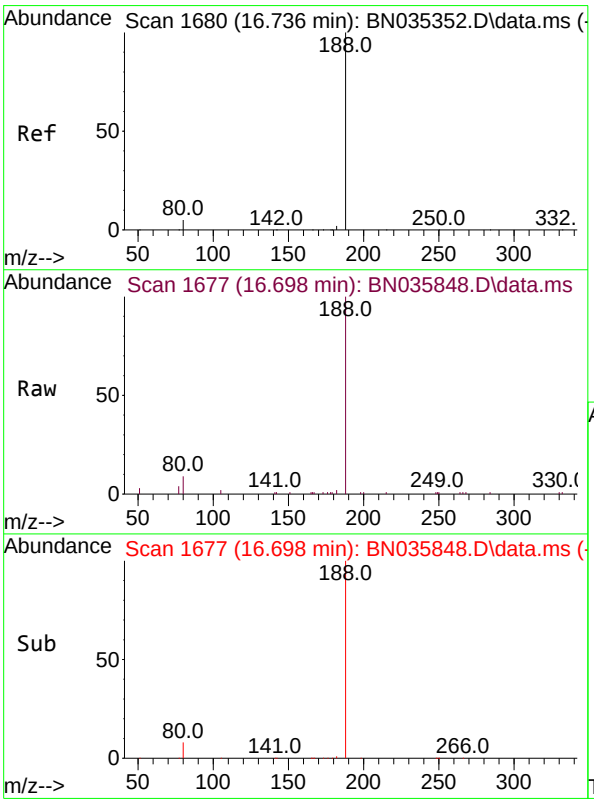
#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion:172 Resp: 7269

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.9	19.8	29.8

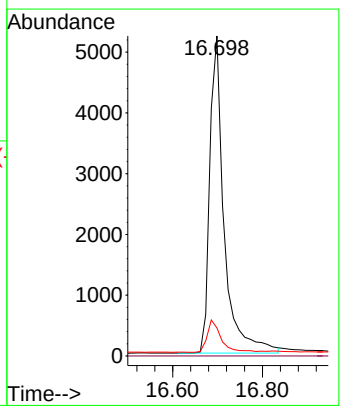


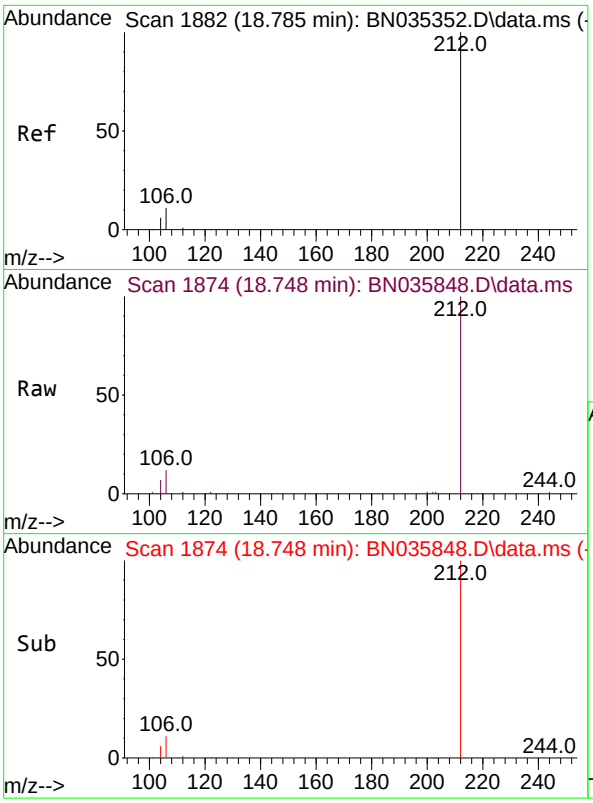


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:188 Resp: 11548

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	4.6	6.8#



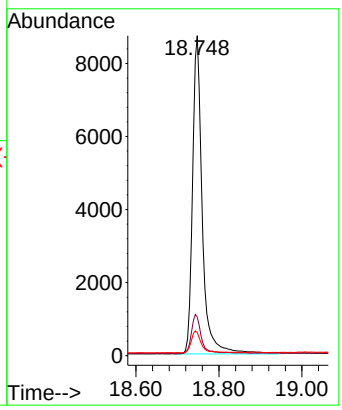


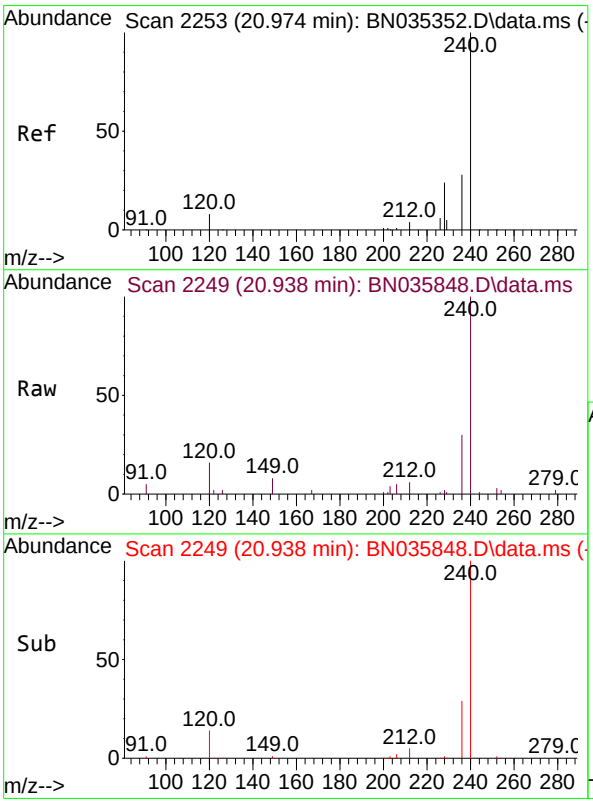
#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.748 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion:212 Resp: 14226

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	7.2	5.3	7.9

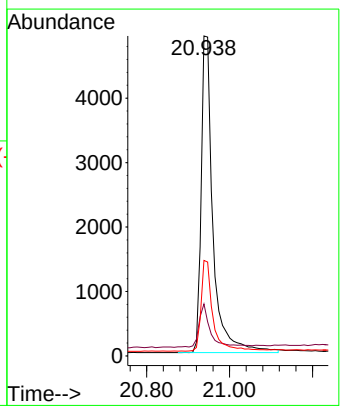


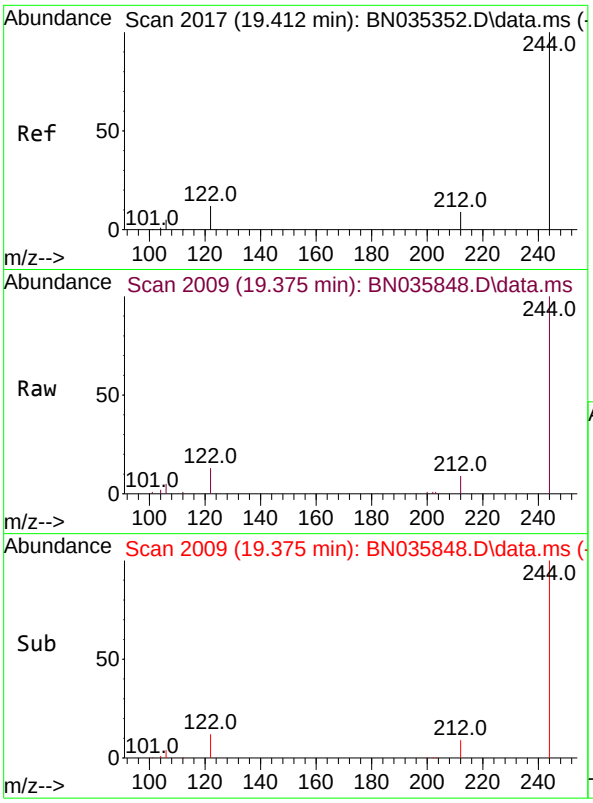


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:240 Resp: 9719

Ion	Ratio	Lower	Upper
240	100		
120	16.2	7.9	11.9#
236	29.8	22.9	34.3



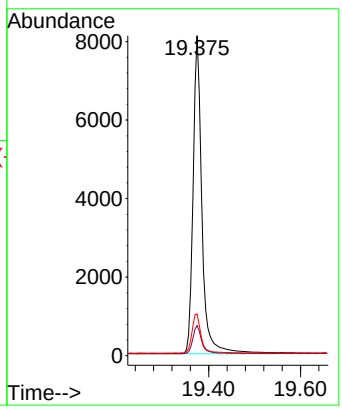


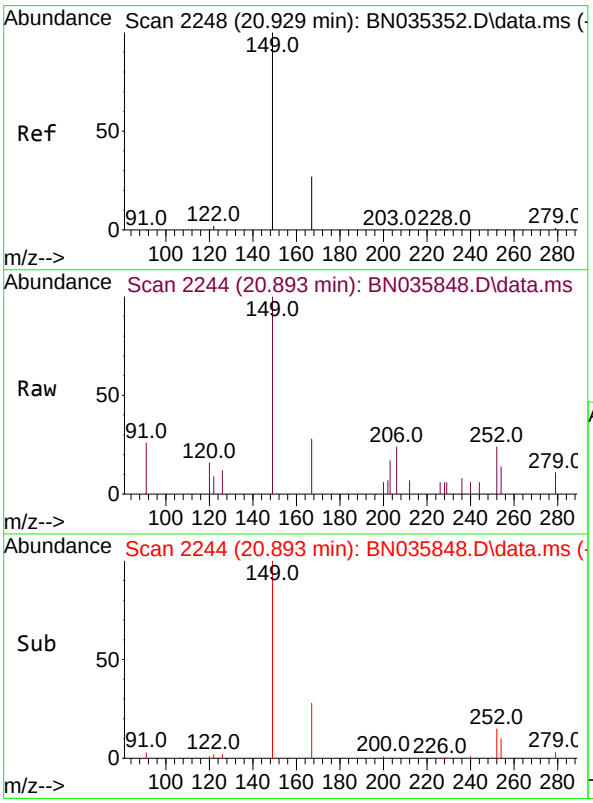
#31
Terphenyl-d14
Concen: 0.567 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion:244 Resp: 10878

Ion	Ratio	Lower	Upper
244	100		
212	9.4	8.1	12.1
122	13.1	10.3	15.5

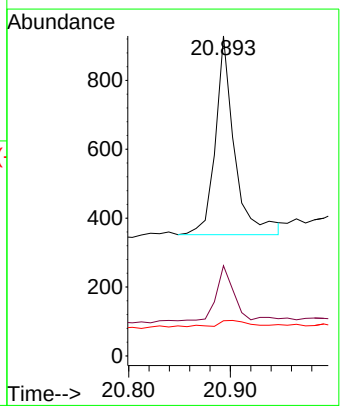


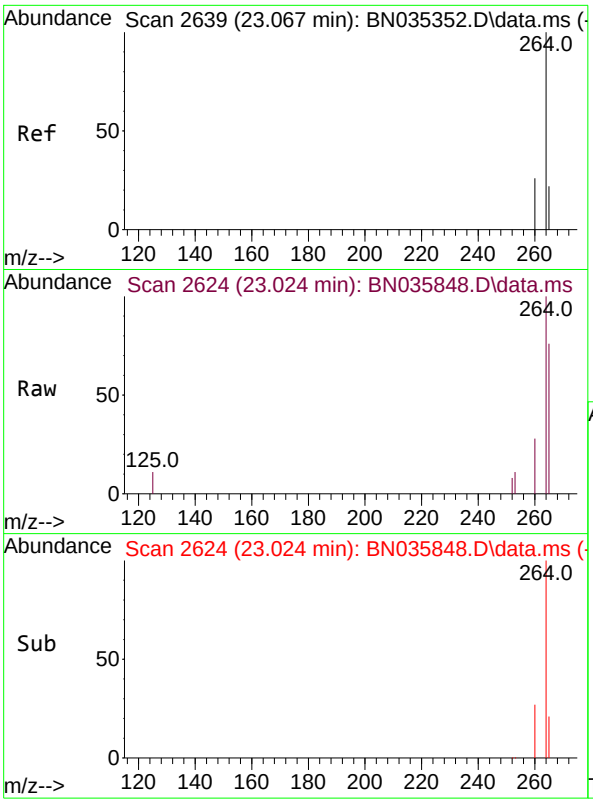


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.056 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Tgt Ion:149 Resp: 751

Ion	Ratio	Lower	Upper
149	100		
167	25.2	22.2	33.4
279	6.0	2.7	4.1#



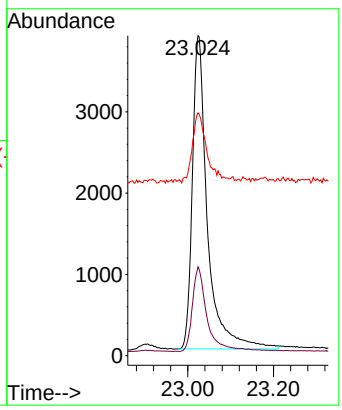


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035848.D
Acq: 26 Dec 2024 11:56

Instrument :
BNA_N
ClientSampleId :
TT188S1-20241219

Tgt Ion:264 Resp: 9432

Ion	Ratio	Lower	Upper
264	100		
260	27.7	21.4	32.2
265	75.9	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

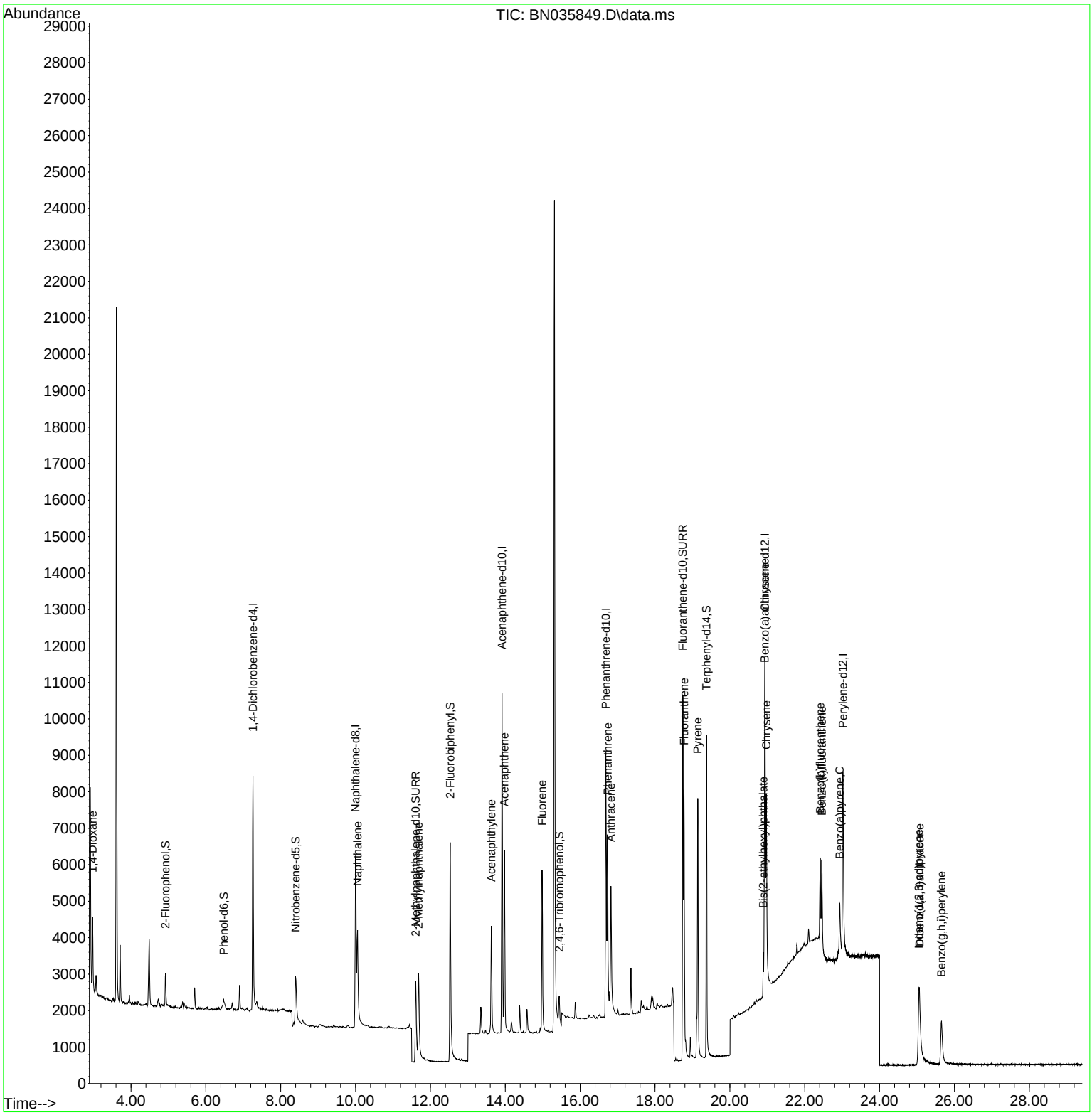
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3517	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	8324	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	5358	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	11302	0.400	ng		#-0.01
29) Chrysene-d12	20.938	240	8549	0.400	ng		#-0.02
35) Perylene-d12	23.021	264	7798	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	4.925	112	846	0.096	ng		-0.01
5) Phenol-d6	6.477	99	442	0.042	ng		-0.01
8) Nitrobenzene-d5	8.397	82	2382	0.469	ng		-0.01
11) 2-Methylnaphthalene-d10	11.606	152	4536	0.348	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	860	0.226	ng		-0.01
15) 2-Fluorobiphenyl	12.528	172	7437	0.367	ng		-0.02
27) Fluoranthene-d10	18.743	212	12788	0.399	ng		-0.02
31) Terphenyl-d14	19.375	244	9994	0.593	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1289	0.383	ng		95
9) Naphthalene	10.052	128	3939	0.179	ng		96
12) 2-Methylnaphthalene	11.682	142	2490	0.158	ng		98
16) Acenaphthylene	13.625	152	3867	0.172	ng		99
17) Acenaphthene	13.978	154	2493	0.167	ng		99
18) Fluorene	14.983	166	3286	0.154	ng		99
25) Phenanthrene	16.736	178	6290	0.203	ng		99
26) Anthracene	16.823	178	4610	0.164	ng		98
28) Fluoranthene	18.775	202	6981	0.167	ng		99
30) Pyrene	19.142	202	7191	0.228	ng		99
32) Benzo(a)anthracene	20.929	228	4336	0.145	ng		97
33) Chrysene	20.974	228	5151	0.167	ng		98
34) Bis(2-ethylhexyl)phtha...	20.893	149	1190	0.101	ng	#	96
36) Indeno(1,2,3-cd)pyrene	25.050	276	3640	0.119	ng		99
37) Benzo(b)fluoranthene	22.413	252	5477	0.192	ng	#	75
38) Benzo(k)fluoranthene	22.456	252	4164	0.148	ng	#	73
39) Benzo(a)pyrene	22.933	252	2844	0.121	ng	#	53
40) Dibenzo(a,h)anthracene	25.067	278	2834	0.118	ng	#	70
41) Benzo(g,h,i)perylene	25.652	276	2847	0.113	ng	#	90

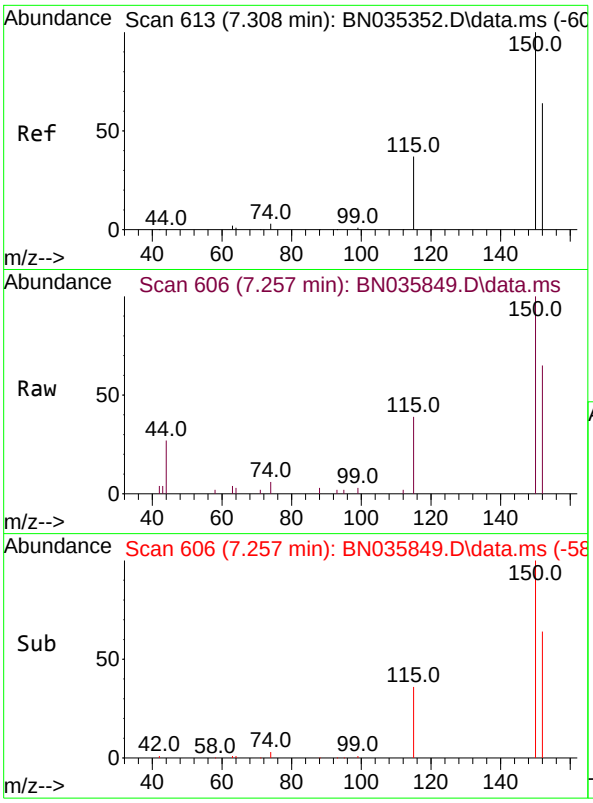
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035849.D
Acq On : 26 Dec 2024 12:31
Operator : RC/JU
Sample : P5376-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Quant Time: Dec 27 00:40:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



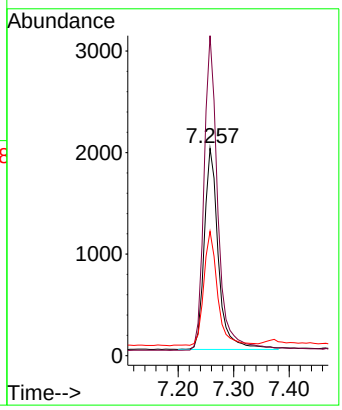


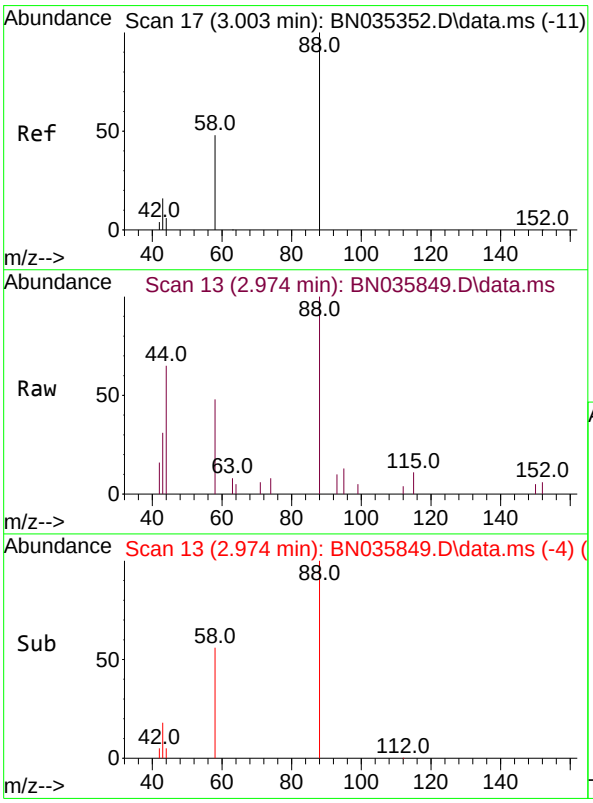
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:152 Resp: 3517

Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.0	186.0
115	60.0	49.6	74.4

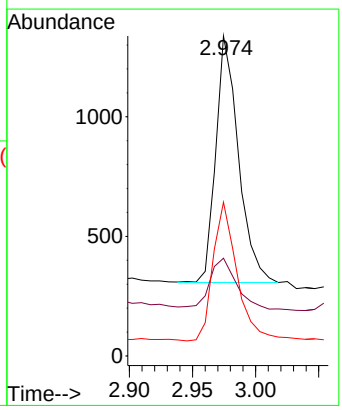


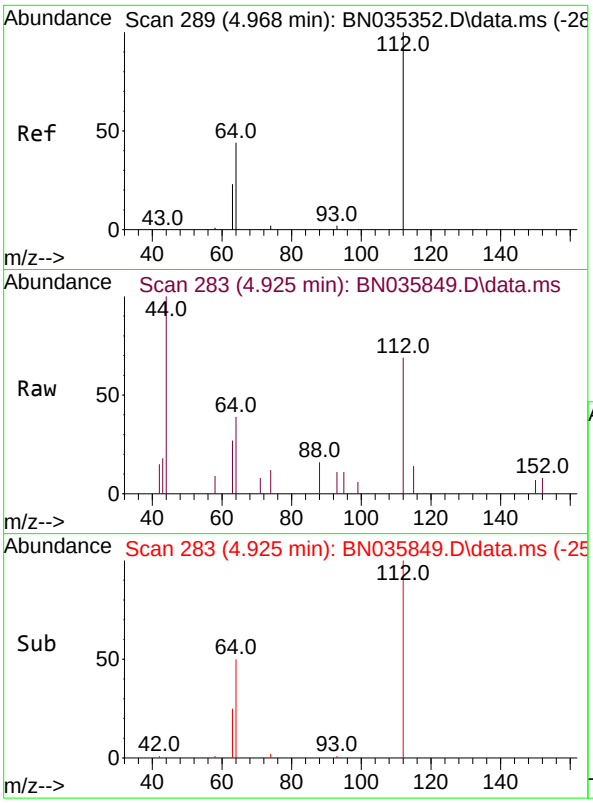


#2
1,4-Dioxane
Concen: 0.383 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 88 Resp: 1289

Ion	Ratio	Lower	Upper
88	100		
43	24.2	17.2	25.8
58	59.4	44.5	66.7



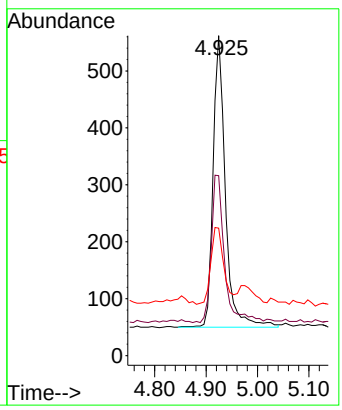


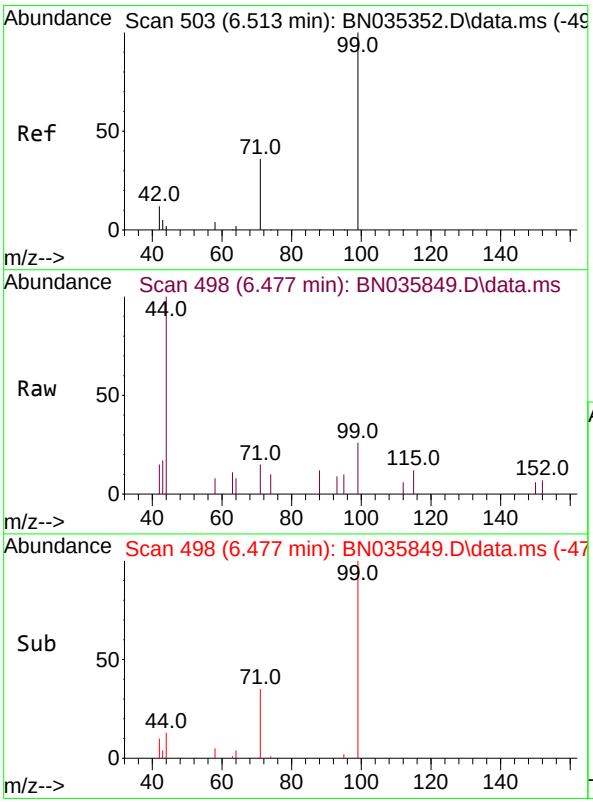
#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.925 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:112 Resp: 846

Ion	Ratio	Lower	Upper
112	100		
64	54.4	39.8	59.8
63	27.9	21.0	31.6

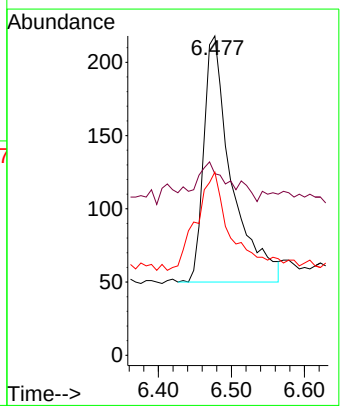


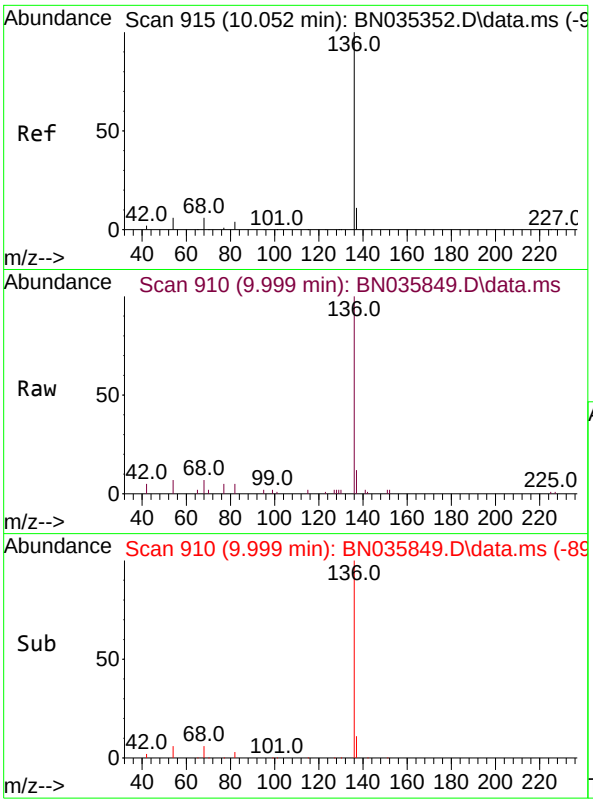


#5
Phenol-d6
Concen: 0.042 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 99 Resp: 442

Ion	Ratio	Lower	Upper
99	100		
42	11.3	11.4	17.2#
71	51.1	29.3	43.9#



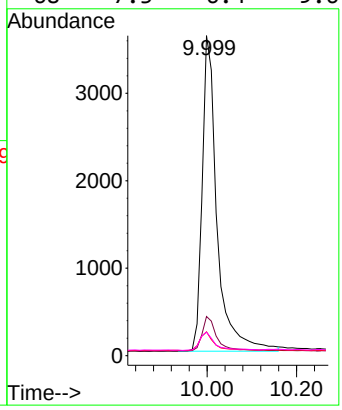


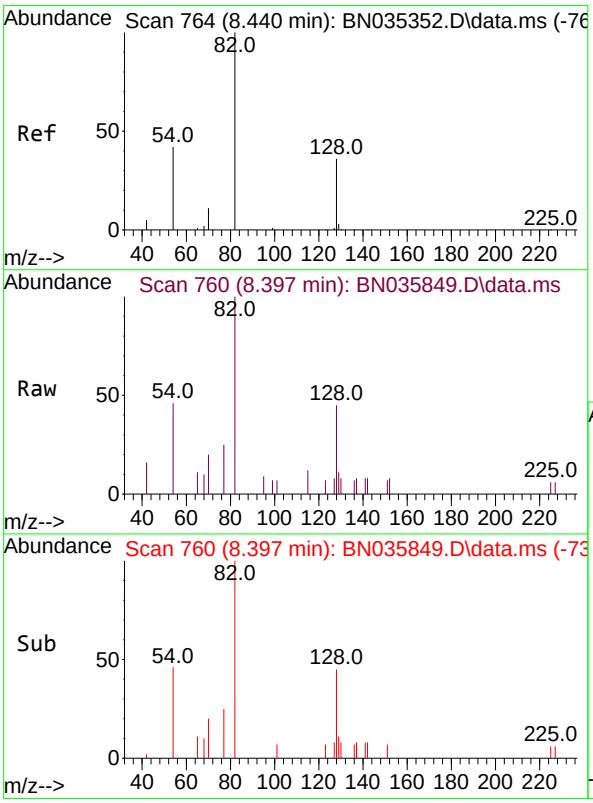
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:136 Resp: 8324

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.3	6.4	9.6

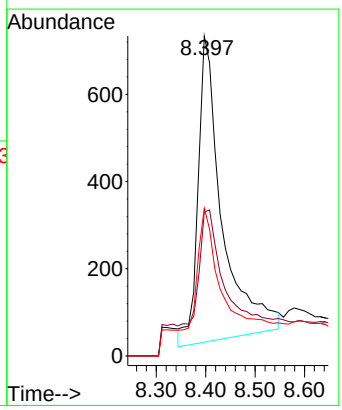


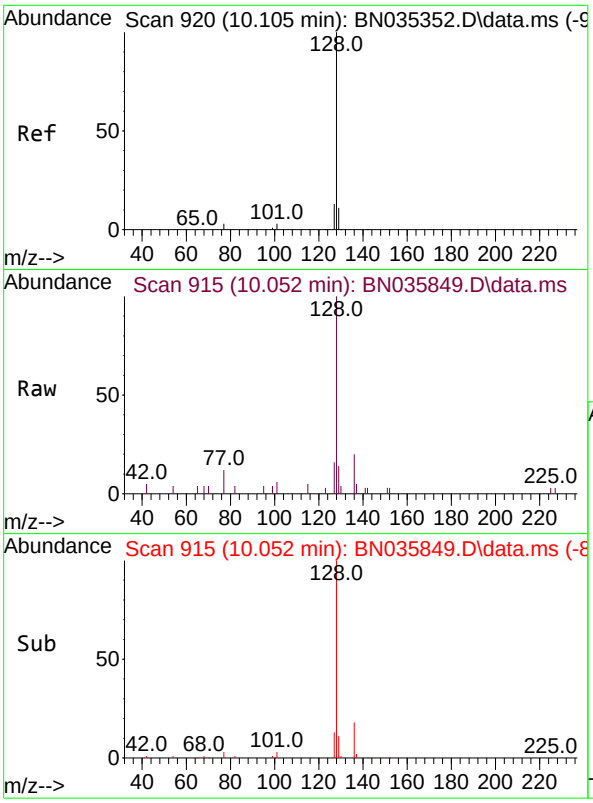


#8
Nitrobenzene-d5
Concen: 0.469 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion: 82 Resp: 2382

Ion	Ratio	Lower	Upper
82	100		
128	45.0	33.4	50.0
54	46.2	36.7	55.1



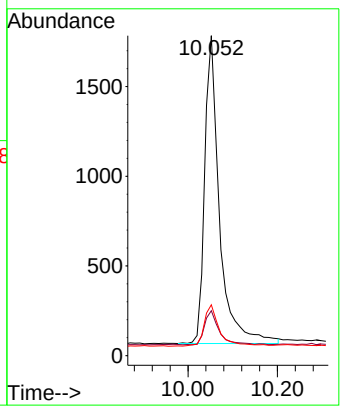


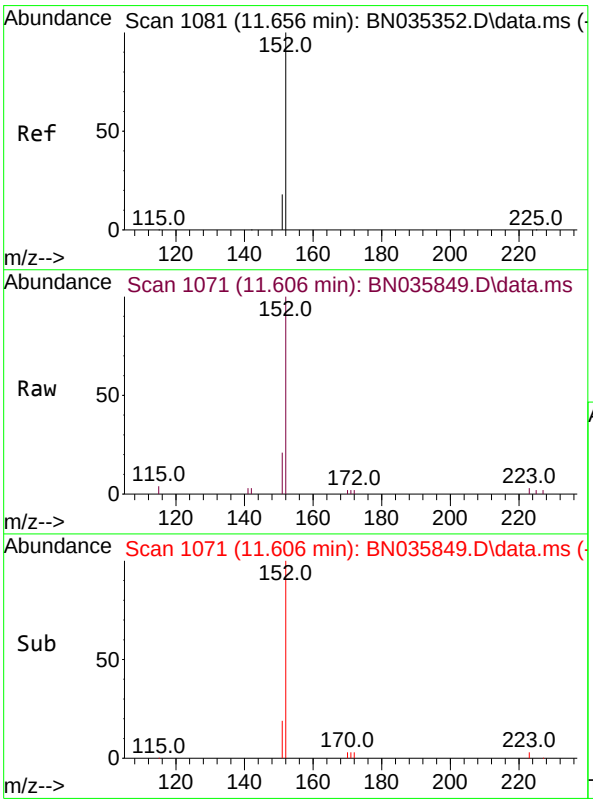
#9
Naphthalene
Concen: 0.179 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:128 Resp: 3939

Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2

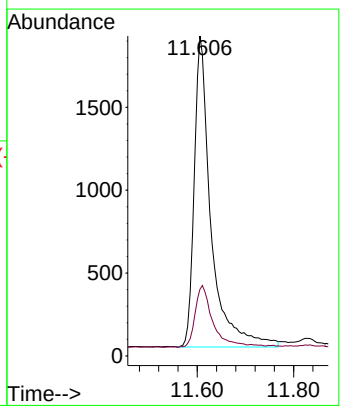


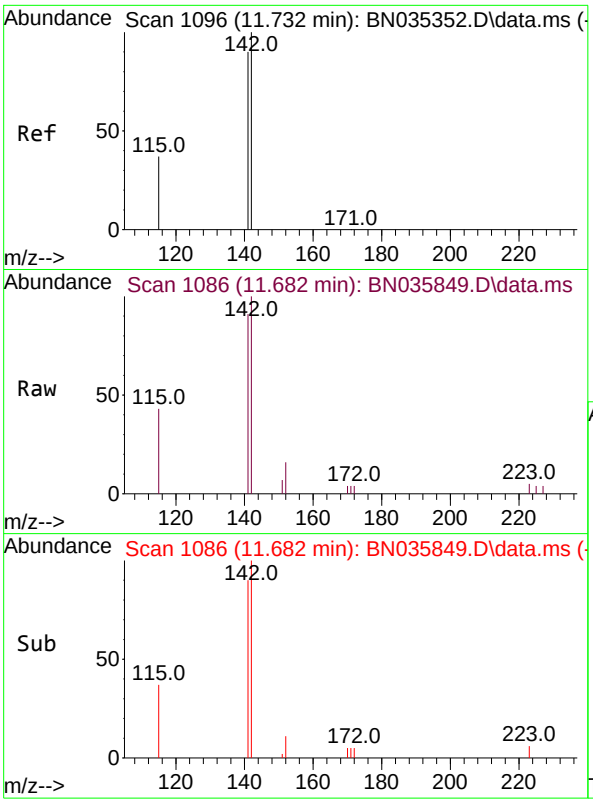


#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.606 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:152 Resp: 4536

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0



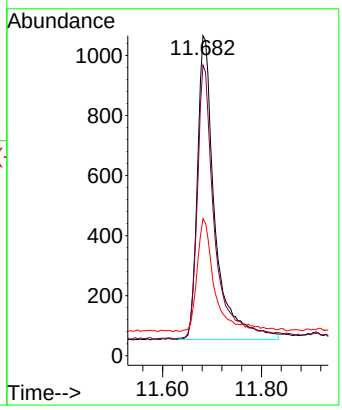


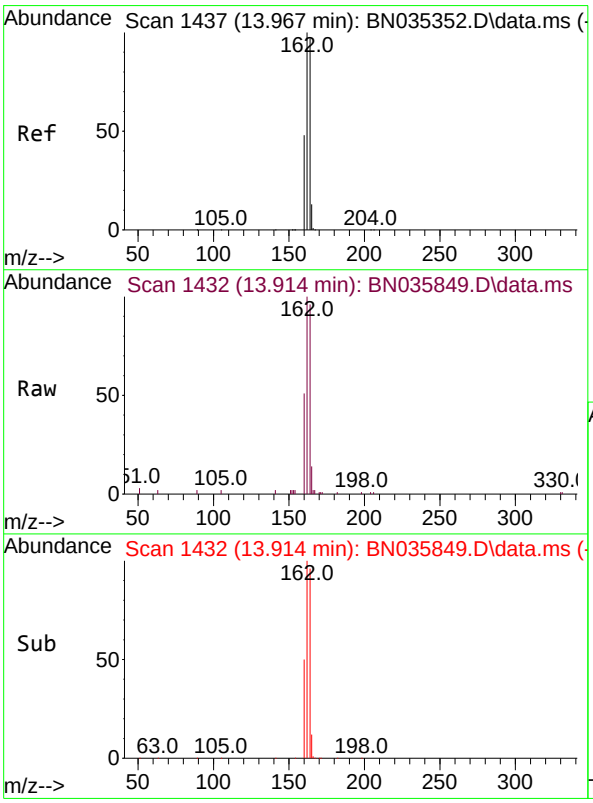
#12
2-Methylnaphthalene
Concen: 0.158 ng
RT: 11.682 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:142 Resp: 2490

Ion	Ratio	Lower	Upper
142	100		
141	90.8	72.2	108.4
115	42.8	31.4	47.0

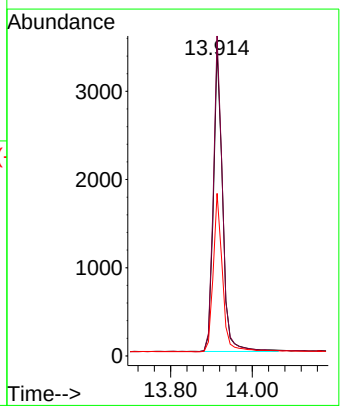


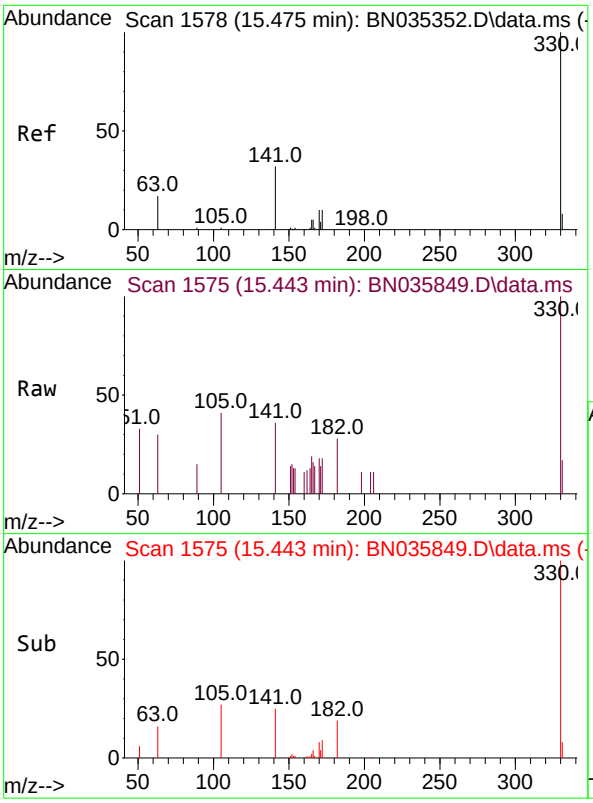


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:164 Resp: 5358

Ion	Ratio	Lower	Upper
164	100		
162	104.1	82.2	123.2
160	52.9	40.1	60.1



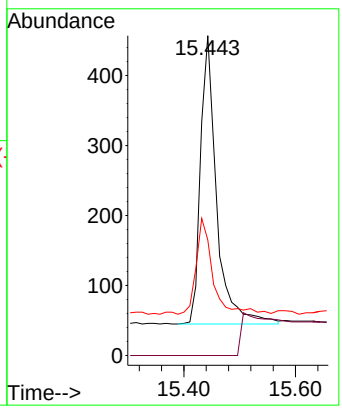


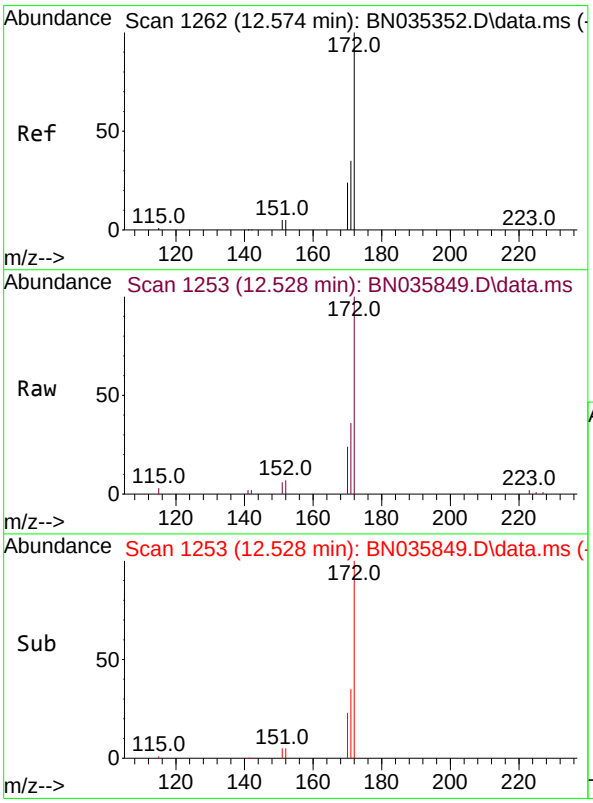
#14
2,4,6-Tribromophenol
Concen: 0.226 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:330 Resp: 860

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.0	26.6	40.0

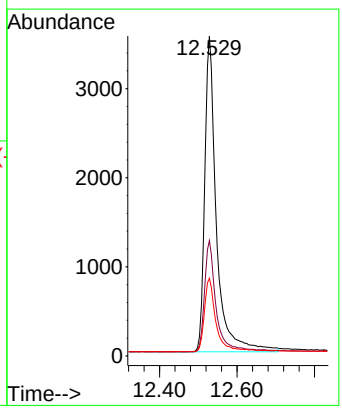


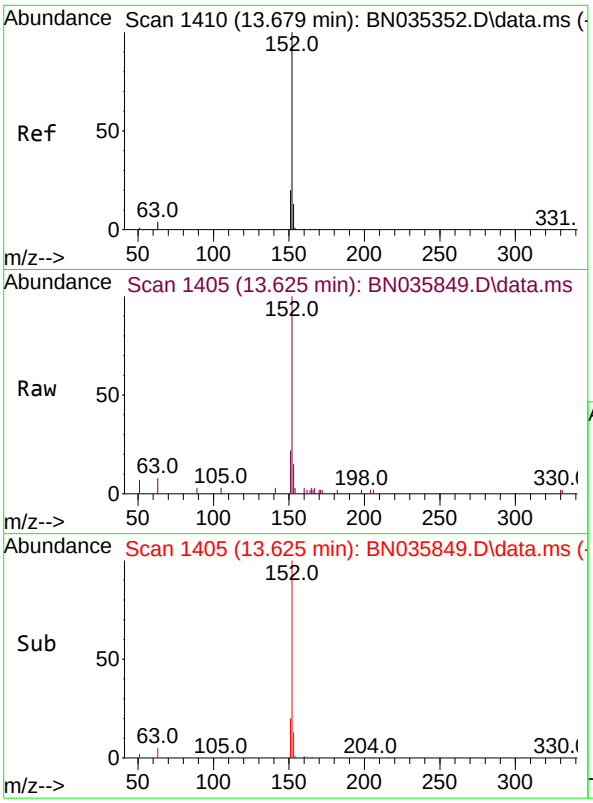


#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:172 Resp: 7437

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.3	19.8	29.8



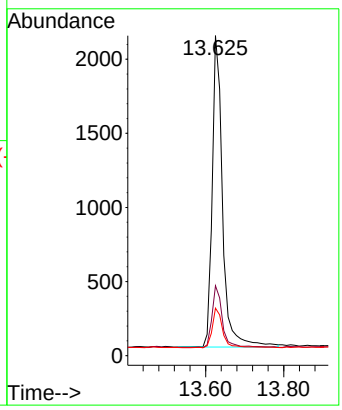


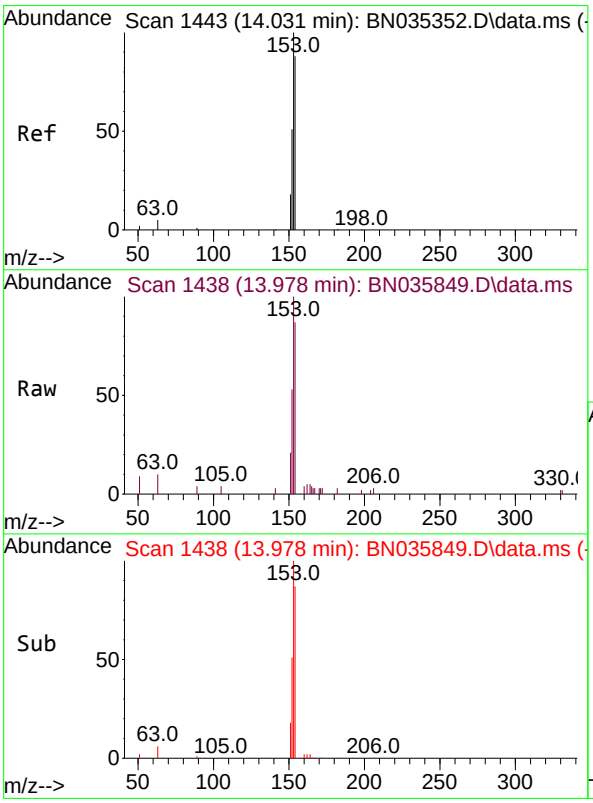
#16
Acenaphthylene
Concen: 0.172 ng
RT: 13.625 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:152 Resp: 3867

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	12.9	10.4	15.6

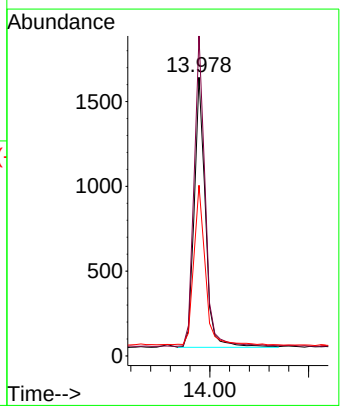


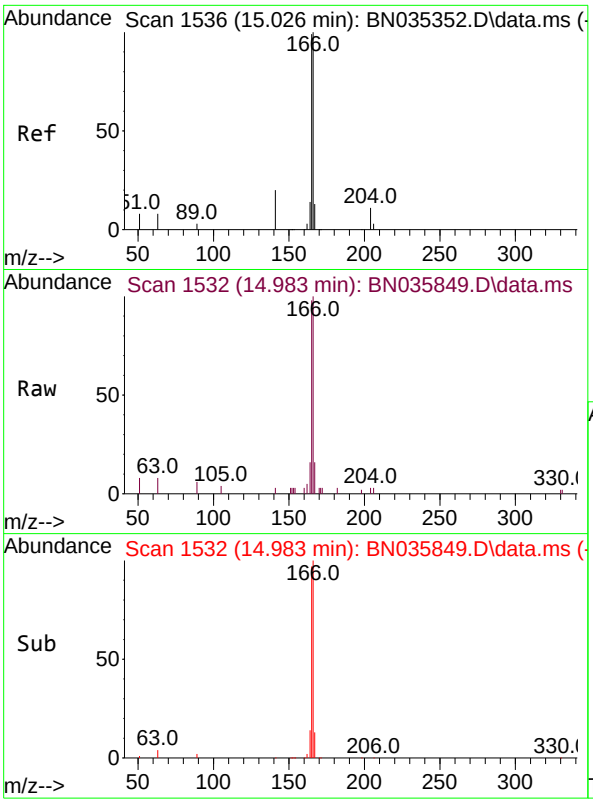


#17
Acenaphthene
Concen: 0.167 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:154 Resp: 2493

Ion	Ratio	Lower	Upper
154	100		
153	114.9	92.6	139.0
152	59.9	49.0	73.6



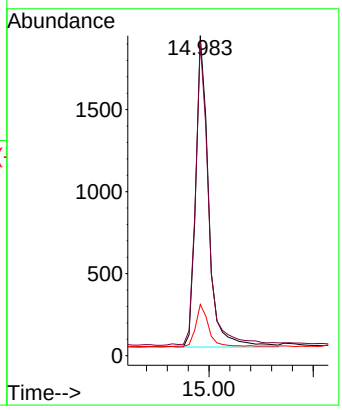


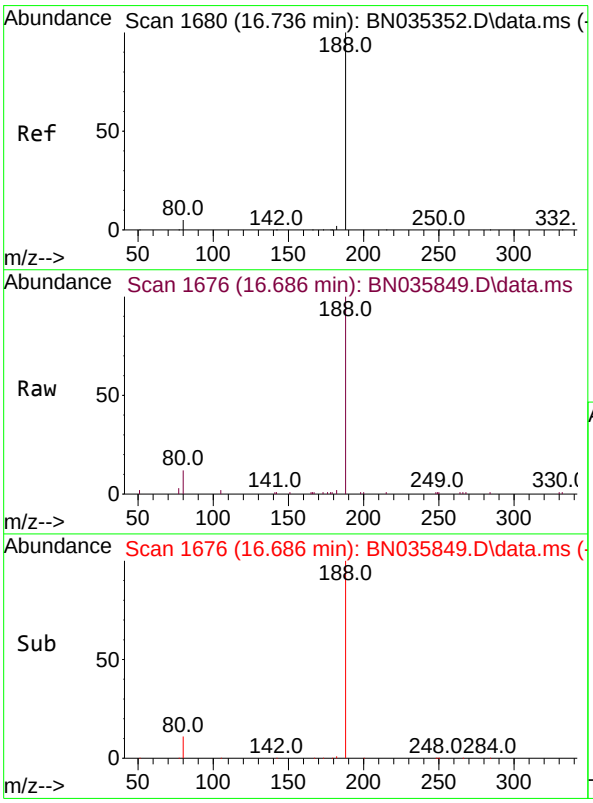
#18
Fluorene
Concen: 0.154 ng
RT: 14.983 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:166 Resp: 3286

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.9	10.8	16.2

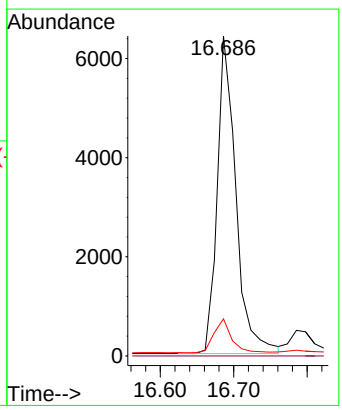


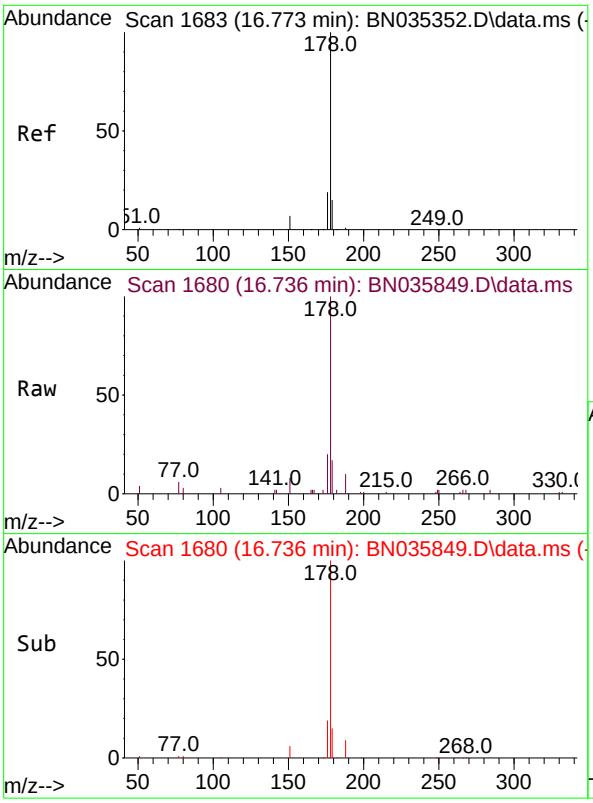


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:188 Resp: 11302

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	4.6	6.8#



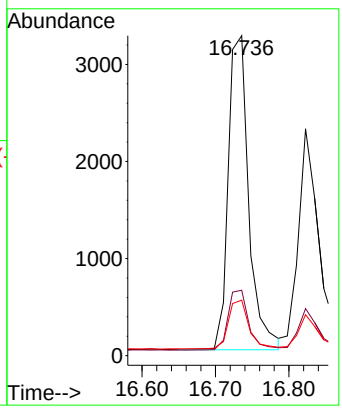


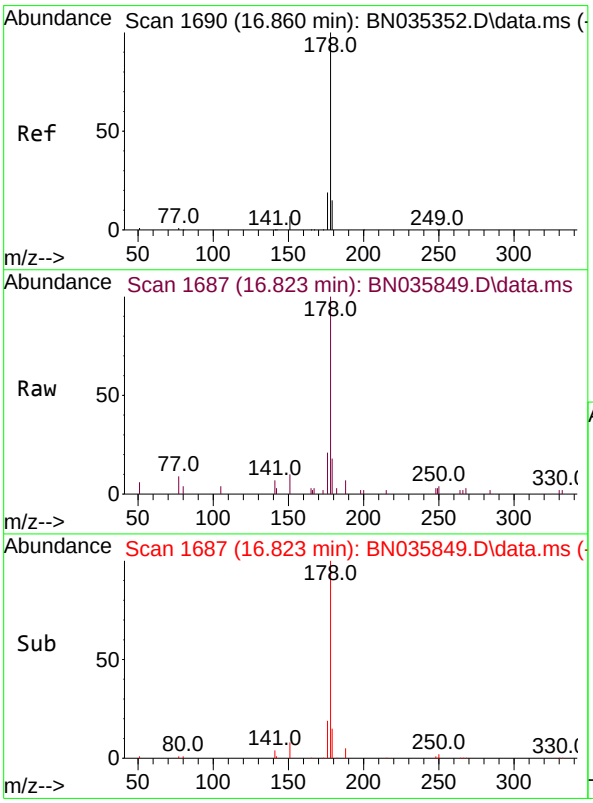
#25
Phenanthrene
Concen: 0.203 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:178 Resp: 6290

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.9	12.3	18.5

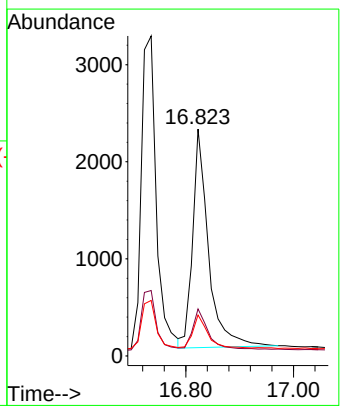


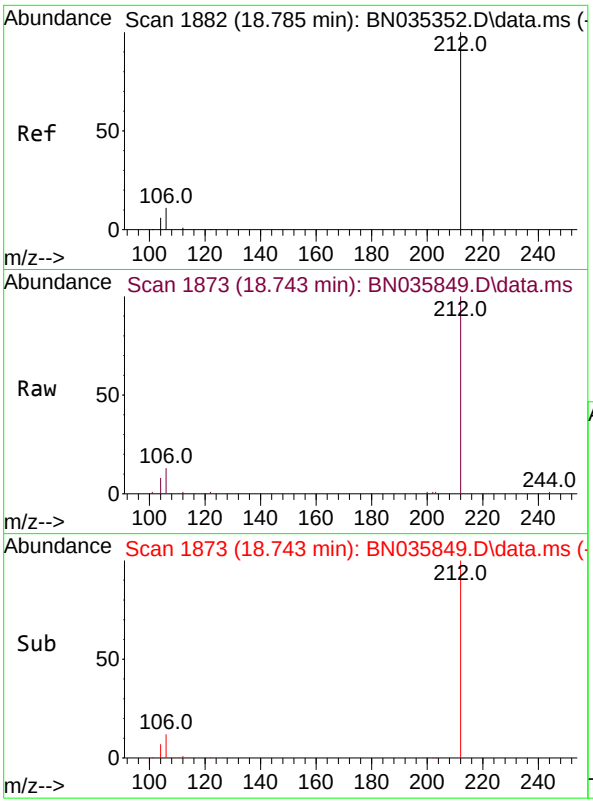


#26
Anthracene
Concen: 0.164 ng
RT: 16.823 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:178 Resp: 4610

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.6
179	14.3	12.6	18.8



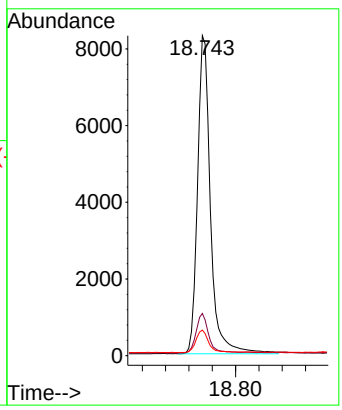


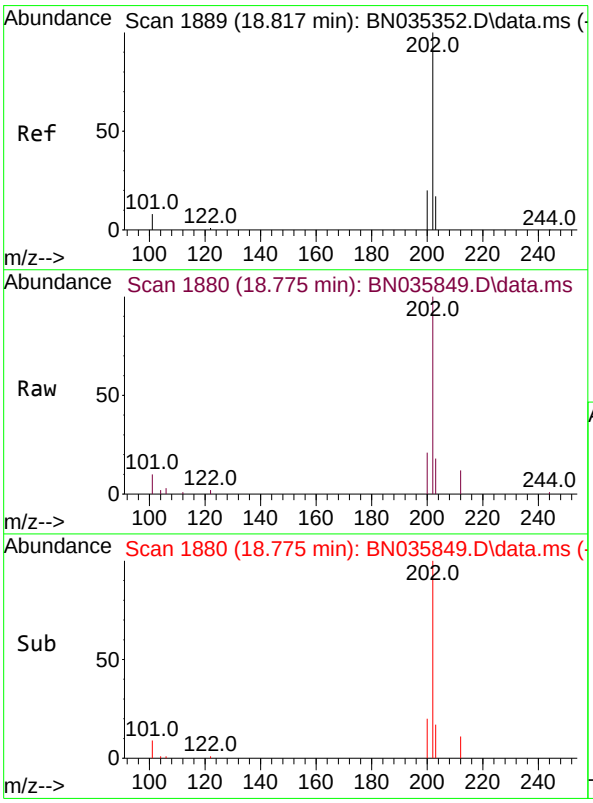
#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:212 Resp: 12788

Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.2	13.8
104	6.8	5.3	7.9

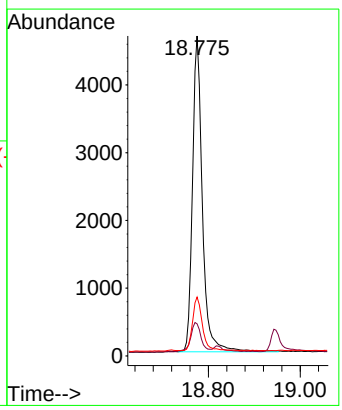


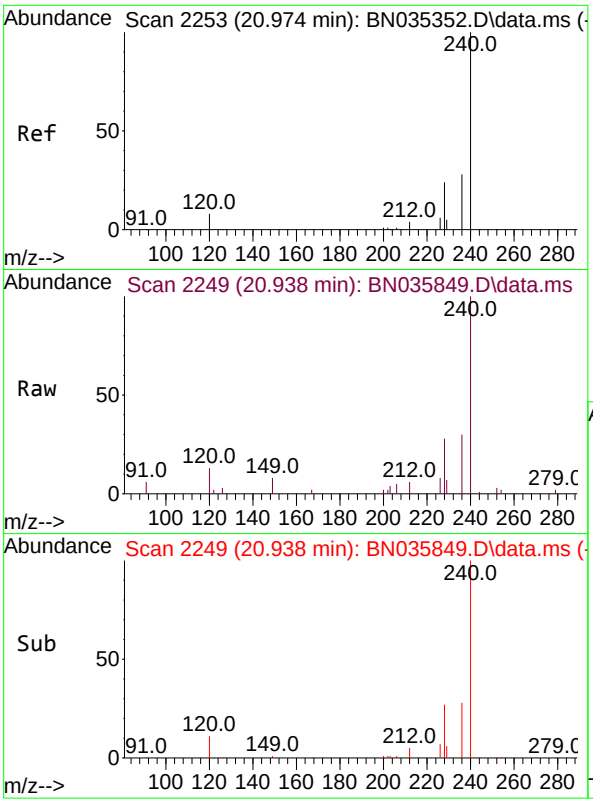


#28
Fluoranthene
Concen: 0.167 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:202 Resp: 6981

Ion	Ratio	Lower	Upper
202	100		
101	9.6	7.4	11.0
203	16.7	13.7	20.5



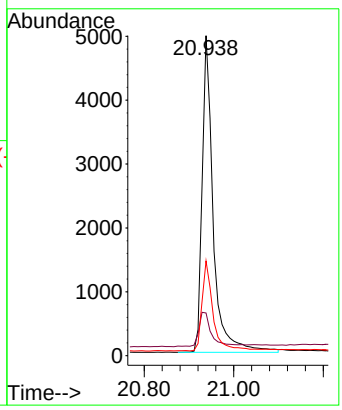


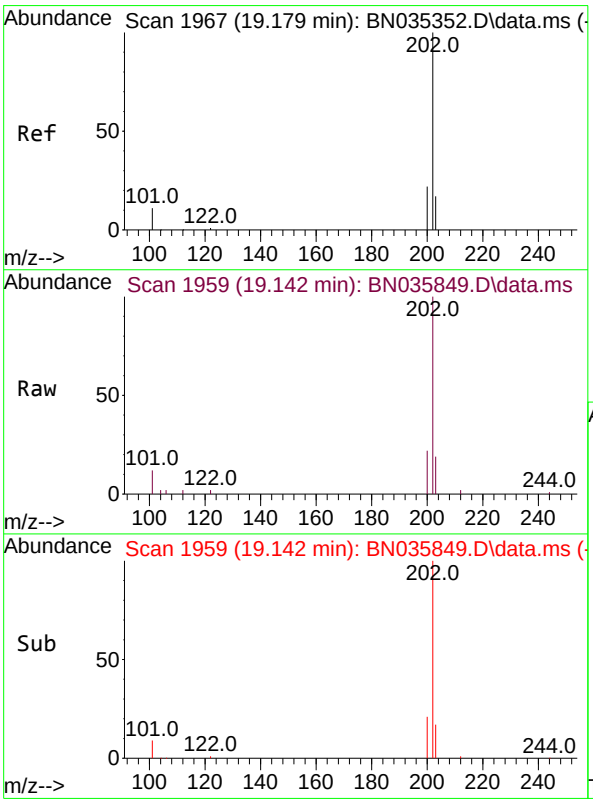
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:240 Resp: 8549

Ion	Ratio	Lower	Upper
240	100		
120	13.3	7.9	11.9#
236	29.6	22.9	34.3

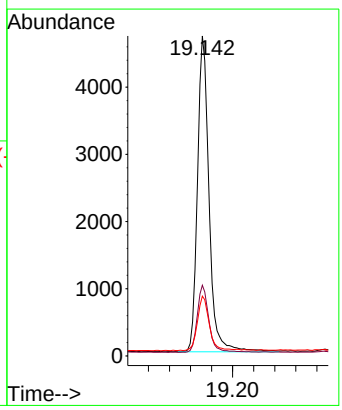


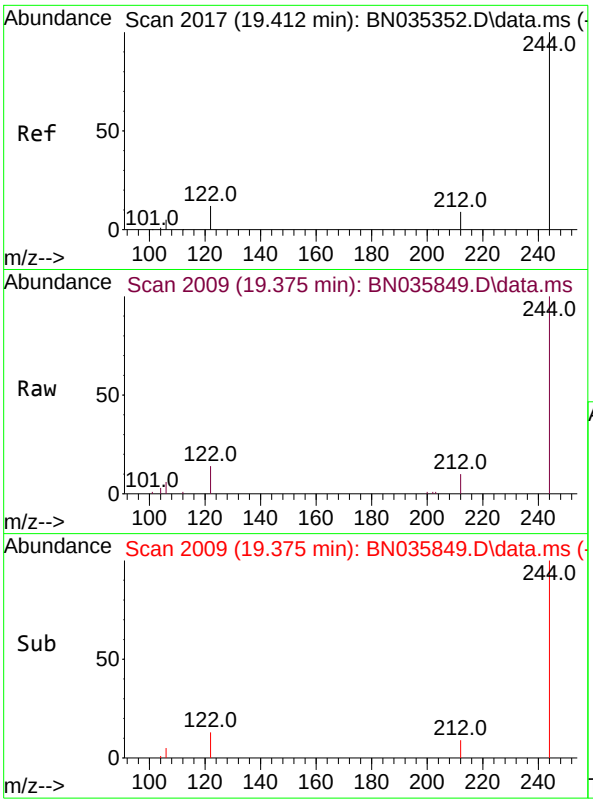


#30
Pyrene
Concen: 0.228 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:202 Resp: 7191

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.4	14.3	21.5



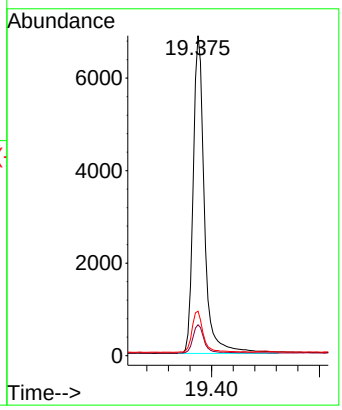


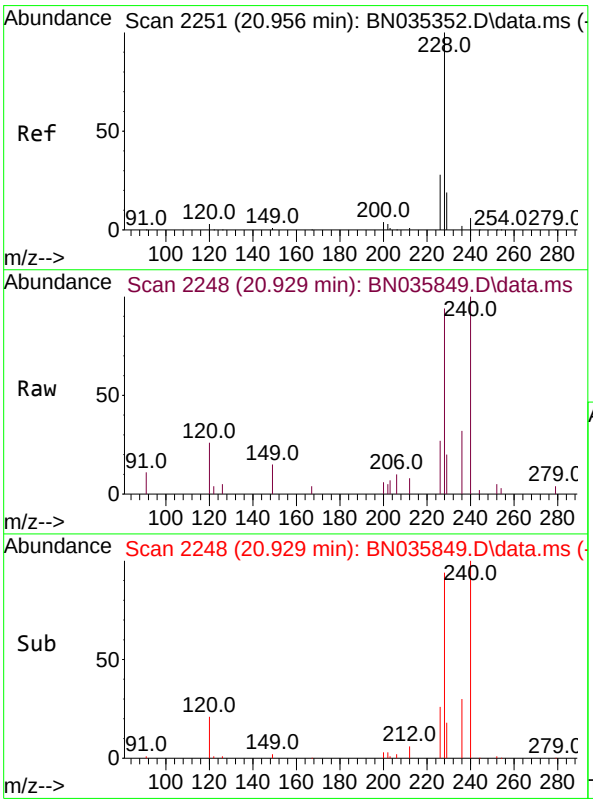
#31
Terphenyl-d14
Concen: 0.593 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:244 Resp: 9994

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	13.9	10.3	15.5

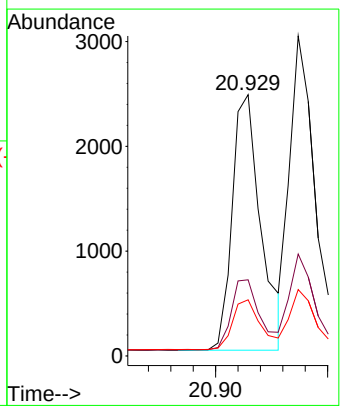


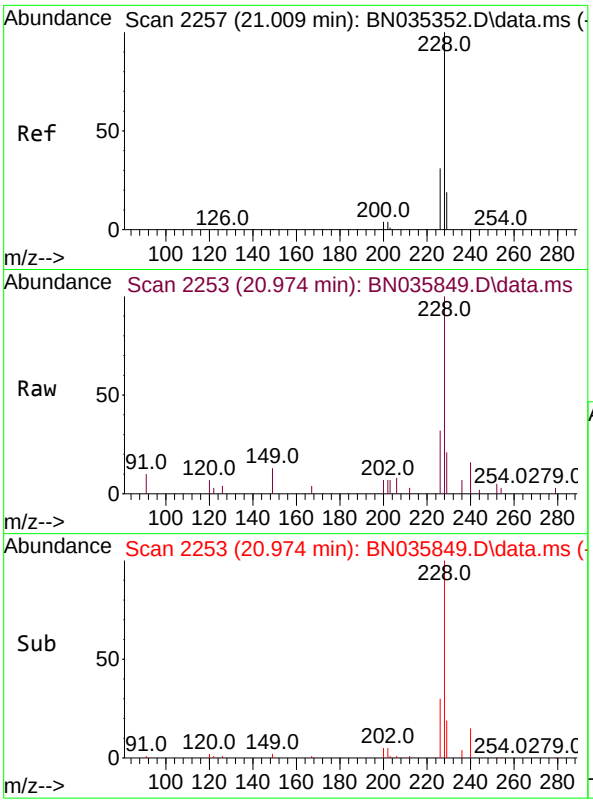


#32
Benzo(a)anthracene
Concen: 0.145 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:228 Resp: 4336

Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.5	33.7
229	21.5	15.8	23.8



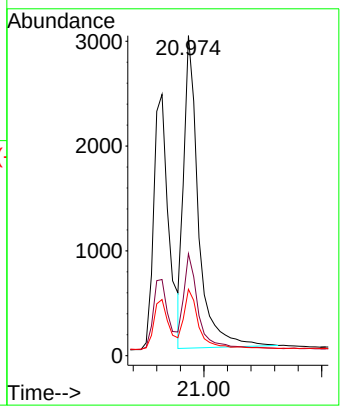


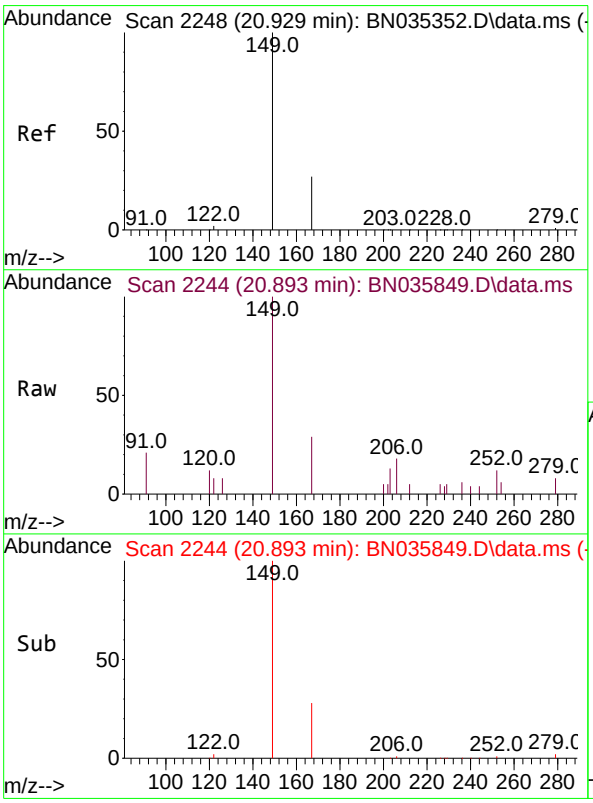
#33
Chrysene
Concen: 0.167 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:228 Resp: 5151

Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.6	37.0
229	20.7	15.9	23.9

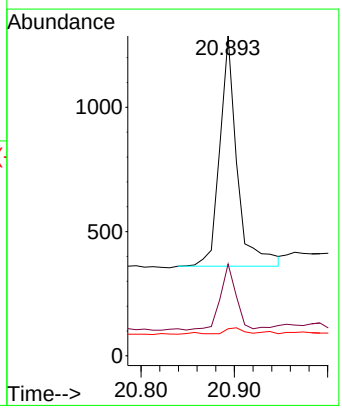


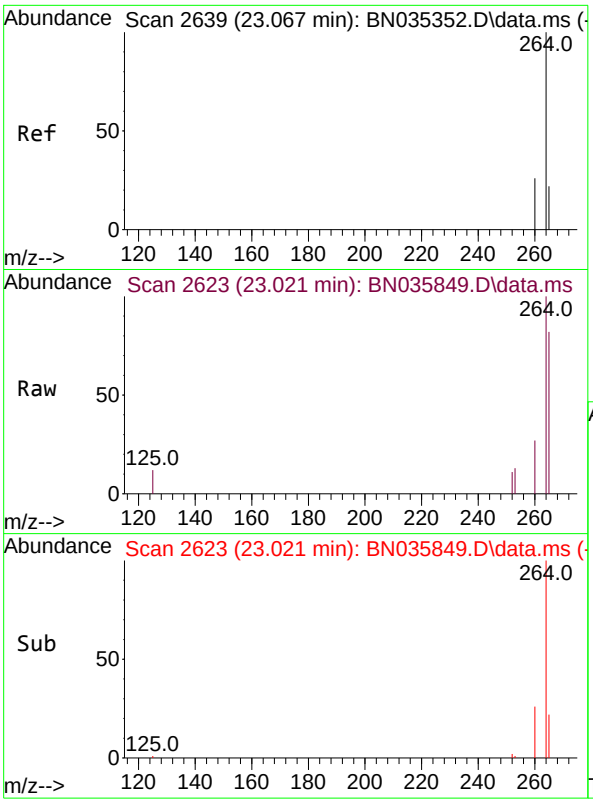


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:149 Resp: 1190

Ion	Ratio	Lower	Upper
149	100		
167	25.9	22.2	33.4
279	2.4	2.7	4.1#



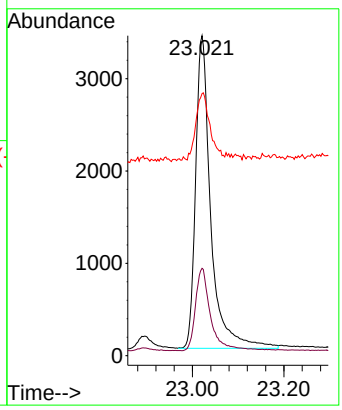


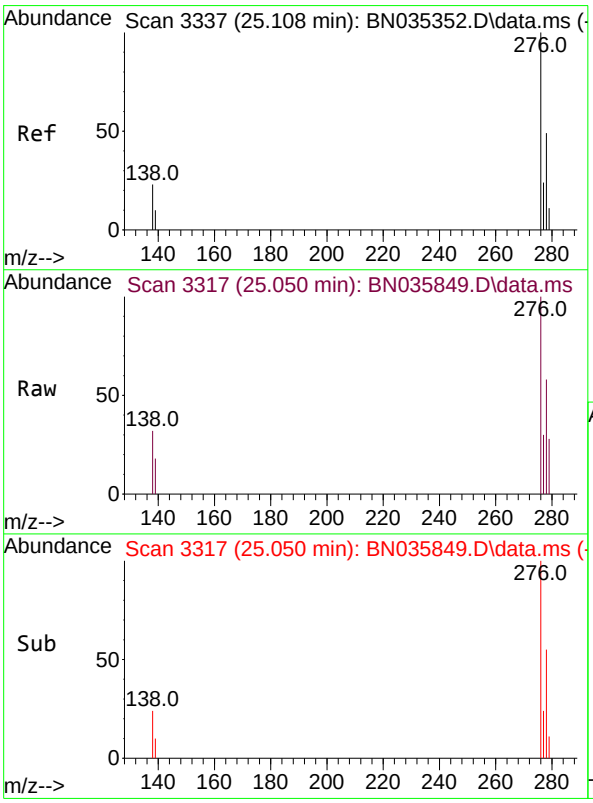
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:264 Resp: 7798

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	81.9	40.2	60.4#

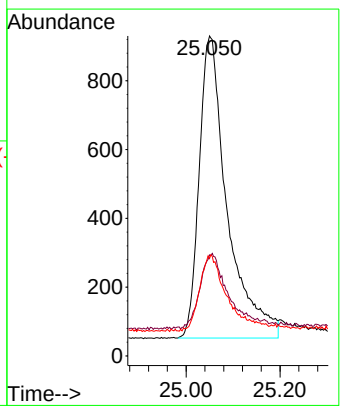


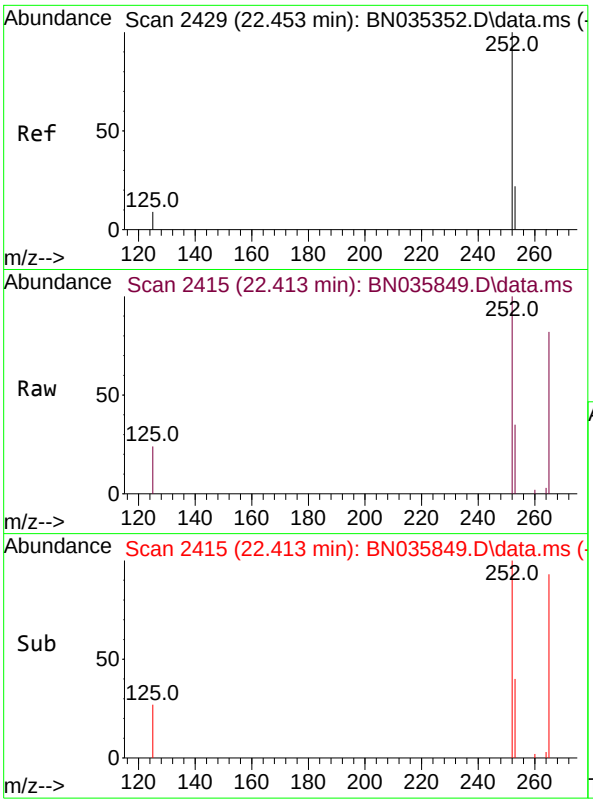


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.119 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:276 Resp: 3640

Ion	Ratio	Lower	Upper
276	100		
138	24.8	19.4	29.0
277	25.1	19.8	29.6



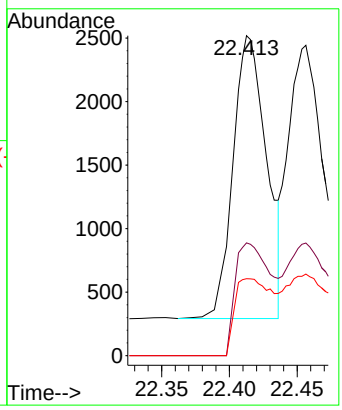


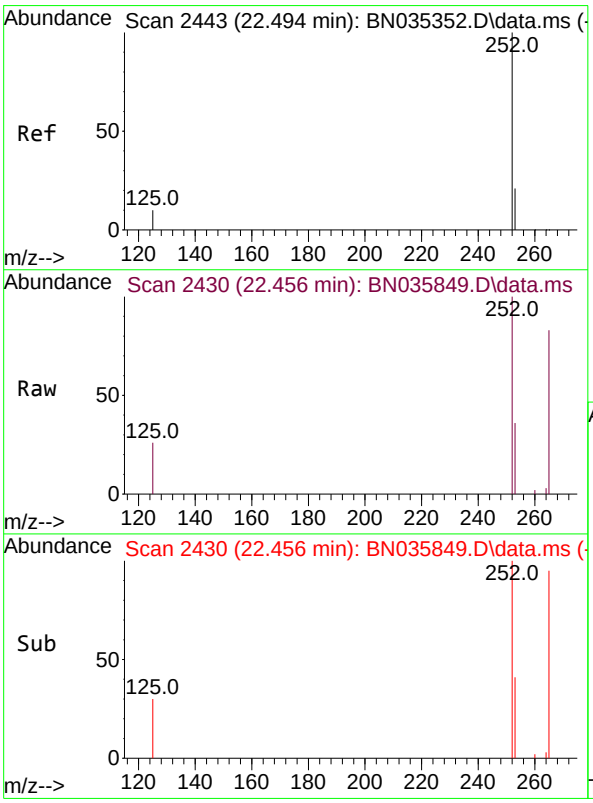
#37
Benzo(b)fluoranthene
Concen: 0.192 ng
RT: 22.413 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:252 Resp: 5477

Ion	Ratio	Lower	Upper
252	100		
253	35.3	19.6	29.4#
125	24.1	9.6	14.4#

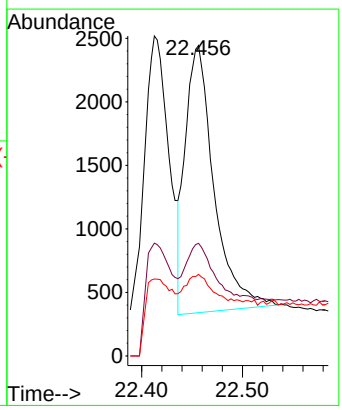


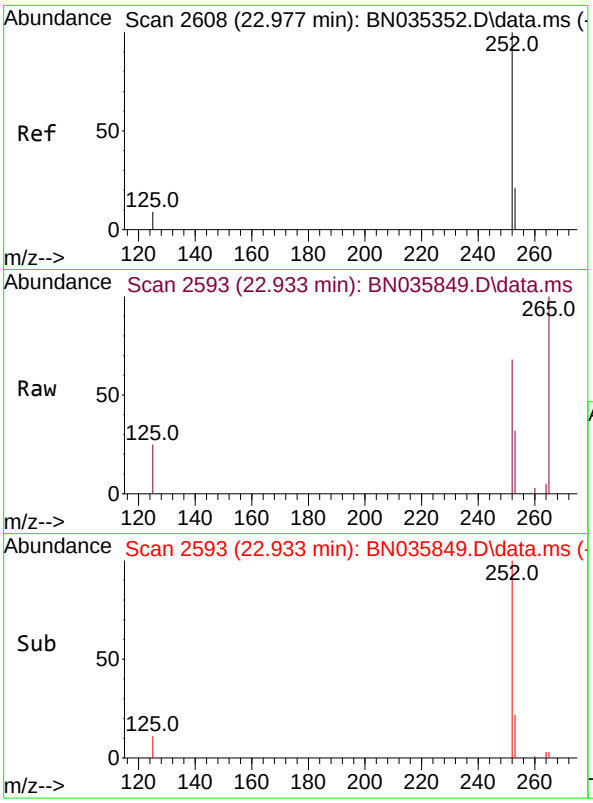


#38
Benzo(k)fluoranthene
Concen: 0.148 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:252 Resp: 4164

Ion	Ratio	Lower	Upper
252	100		
253	36.3	19.5	29.3#
125	26.3	10.2	15.4#



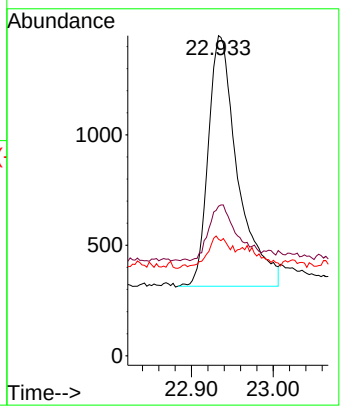


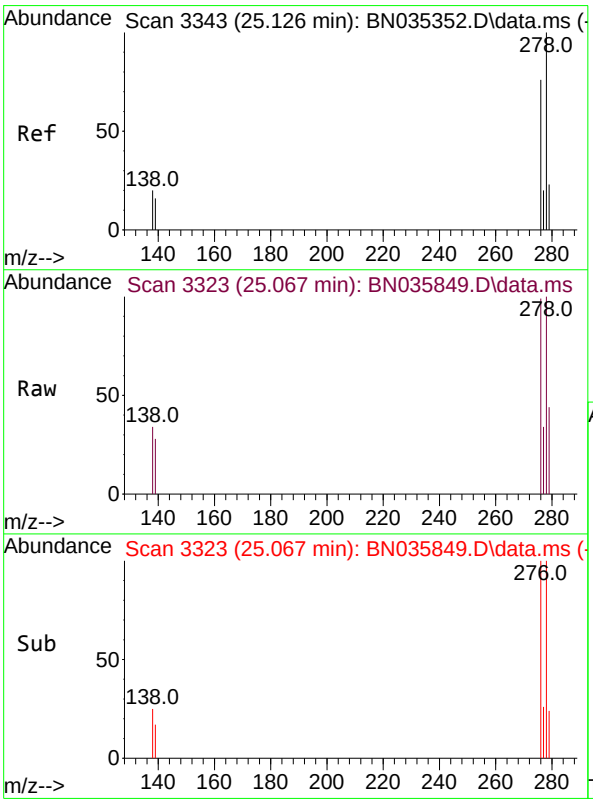
#39
Benzo(a)pyrene
Concen: 0.121 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:252 Resp: 2844

Ion	Ratio	Lower	Upper
252	100		
253	46.7	20.2	30.4#
125	36.4	10.9	16.3#

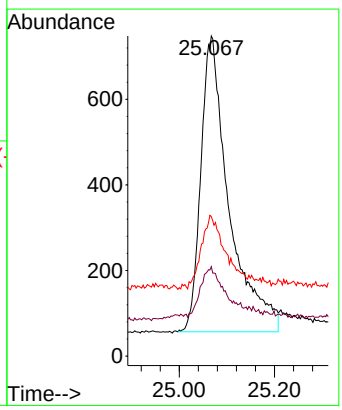


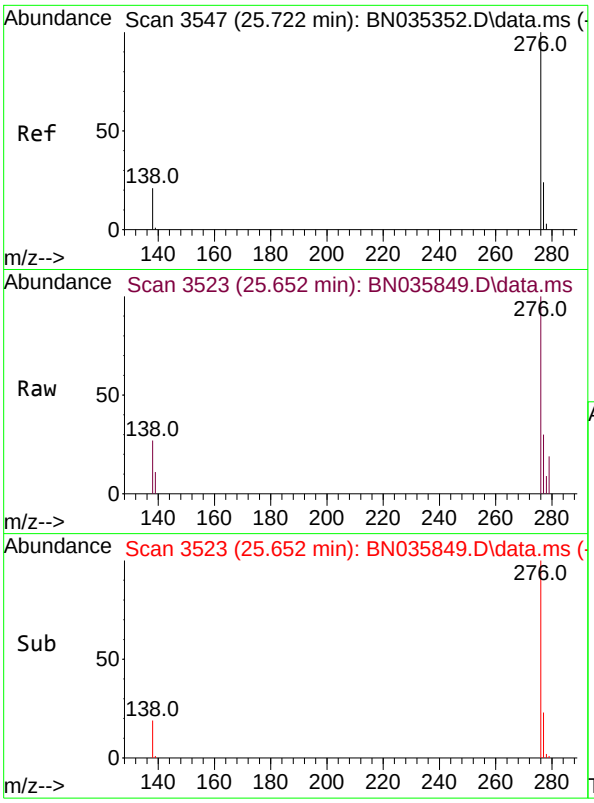


#40
Dibenzo(a,h)anthracene
Concen: 0.118 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Tgt Ion:278 Resp: 2834

Ion	Ratio	Lower	Upper
278	100		
139	27.9	14.2	21.4#
279	43.6	20.5	30.7#



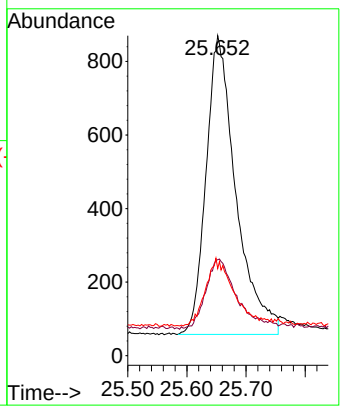


#41
Benzo(g,h,i)perylene
Concen: 0.113 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035849.D
Acq: 26 Dec 2024 12:31

Instrument :
BNA_N
ClientSampleId :
TT205S1-20241218

Tgt Ion:276 Resp: 2847

Ion	Ratio	Lower	Upper
276	100		
277	30.0	19.9	29.9#
138	27.2	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	4431	0.400	ng		-0.01
7) Naphthalene-d8	9.998	136	10905	0.400	ng		#-0.02
13) Acenaphthene-d10	13.914	164	6427	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	13001	0.400	ng		#-0.01
29) Chrysene-d12	20.938	240	9257	0.400	ng		#-0.02
35) Perylene-d12	23.023	264	9148	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	3645	0.329	ng		-0.01
5) Phenol-d6	6.470	99	4024	0.302	ng		-0.02
8) Nitrobenzene-d5	8.397	82	3418	0.513	ng		-0.01
11) 2-Methylnaphthalene-d10	11.600	152	7947	0.466	ng		-0.02
14) 2,4,6-Tribromophenol	15.442	330	913	0.200	ng		-0.01
15) 2-Fluorobiphenyl	12.523	172	9578	0.394	ng		-0.02
27) Fluoranthene-d10	18.747	212	12504	0.339	ng		-0.01
31) Terphenyl-d14	19.379	244	8698	0.476	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1467	0.346	ng	#	88
3) n-Nitrosodimethylamine	3.263	42	1440	0.408	ng	#	88
6) bis(2-Chloroethyl)ether	6.708	93	3983	0.355	ng		99
9) Naphthalene	10.052	128	11935	0.415	ng		99
10) Hexachlorobutadiene	10.340	225	2551	0.385	ng	#	99
12) 2-Methylnaphthalene	11.681	142	7534	0.366	ng		96
16) Acenaphthylene	13.625	152	10983	0.407	ng		100
17) Acenaphthene	13.978	154	6982	0.390	ng		99
18) Fluorene	14.983	166	9056	0.353	ng		100
20) 4,6-Dinitro-2-methylph...	15.111	198	645	0.505	ng		92
21) 4-Bromophenyl-phenylether	15.904	248	2685	0.353	ng		97
22) Hexachlorobenzene	15.991	284	3862	0.432	ng		96
23) Atrazine	16.189	200	2110	0.390	ng		96
24) Pentachlorophenol	16.363	266	1614	0.415	ng	#	85
25) Phenanthrene	16.735	178	14161	0.397	ng		100
26) Anthracene	16.822	178	12409	0.384	ng		99
28) Fluoranthene	18.780	202	15692	0.326	ng		99
30) Pyrene	19.147	202	15917	0.466	ng		100
32) Benzo(a)anthracene	20.929	228	11832	0.365	ng		99
33) Chrysene	20.974	228	14241	0.426	ng		100
34) Bis(2-ethylhexyl)phtha...	20.893	149	5313	0.415	ng		99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15551	0.435	ng		99
37) Benzo(b)fluoranthene	22.415	252	19434	0.581	ng	#	96
38) Benzo(k)fluoranthene	22.456	252	14469	0.439	ng		95
39) Benzo(a)pyrene	22.936	252	11624	0.422	ng	#	91
40) Dibenzo(a,h)anthracene	25.061	278	11696	0.414	ng		95
41) Benzo(g,h,i)perylene	25.649	276	12710	0.431	ng		98

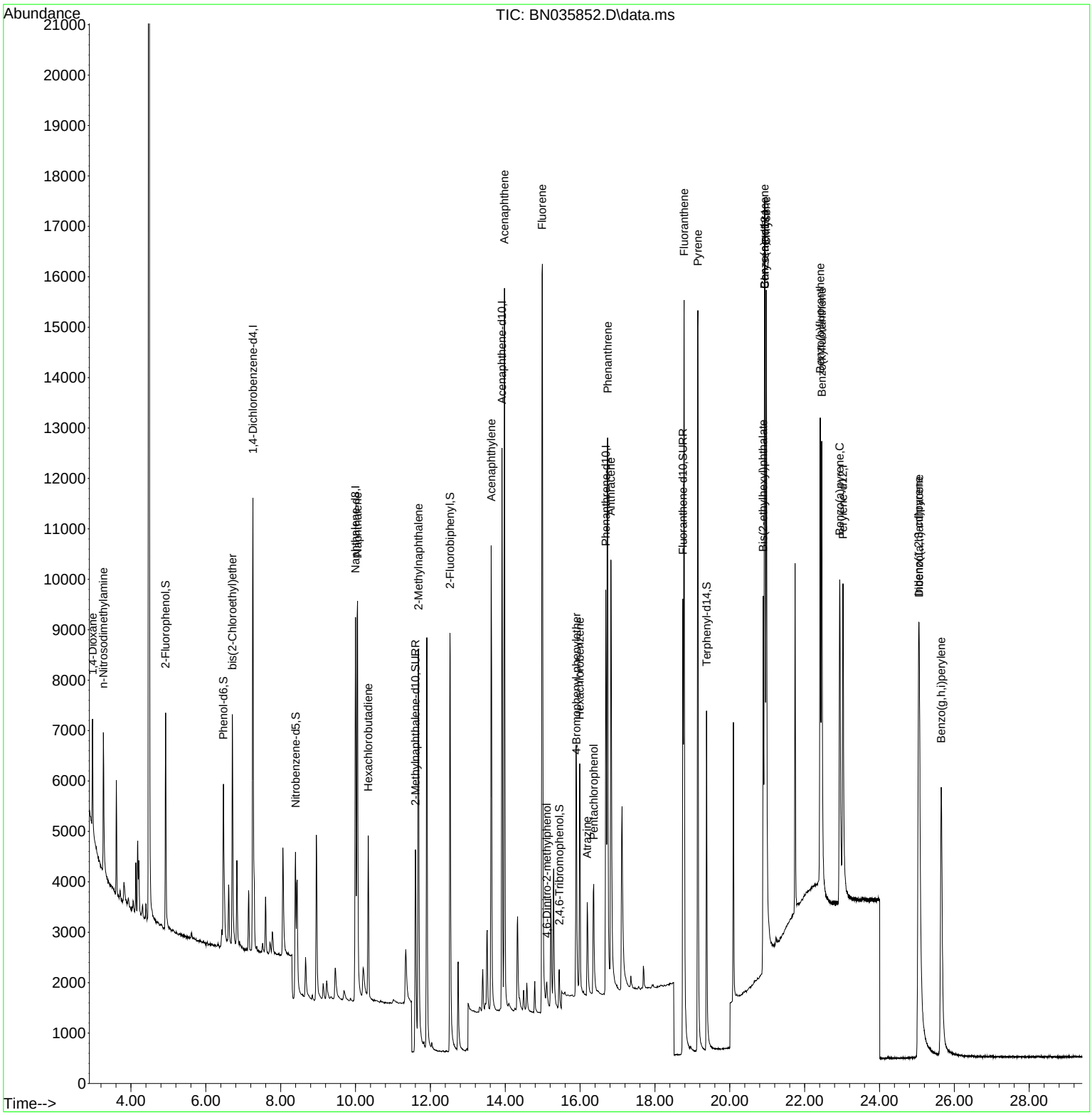
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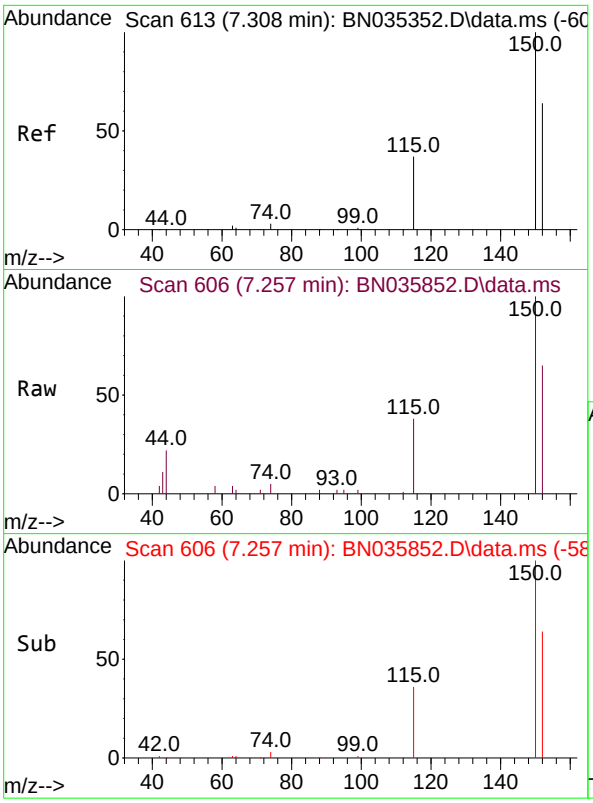
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



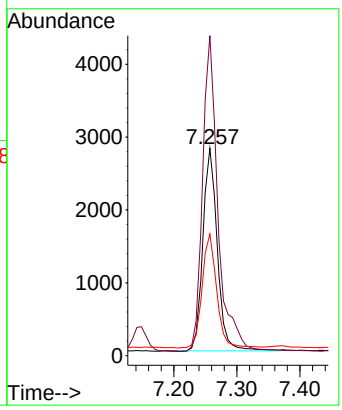


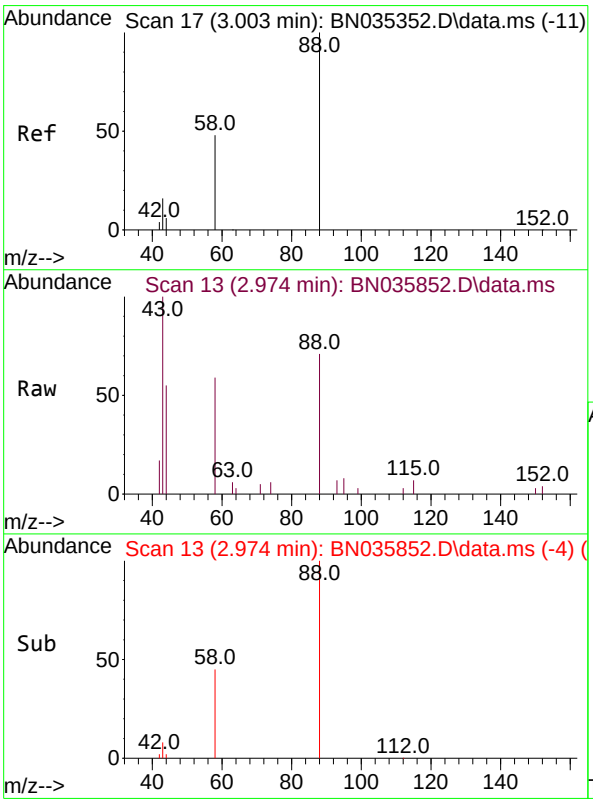
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:152 Resp: 4431

Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.0	186.0
115	58.7	49.6	74.4

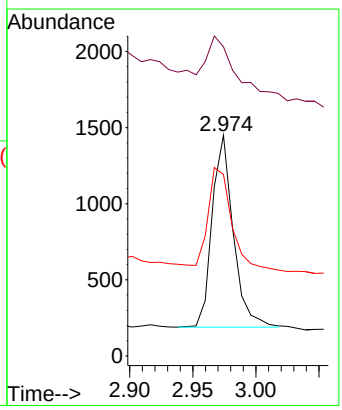


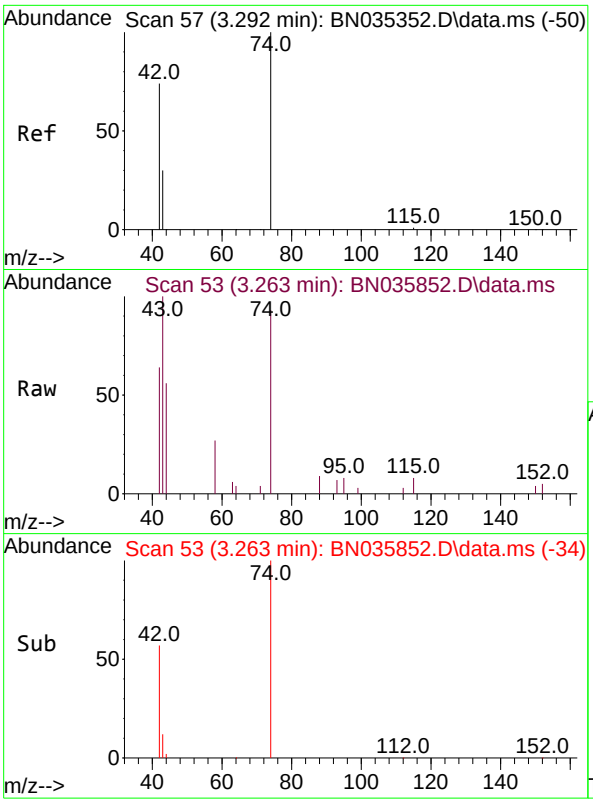


#2
1,4-Dioxane
Concen: 0.346 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 88 Resp: 1467

Ion	Ratio	Lower	Upper
88	100		
43	35.7	17.2	25.8#
58	59.5	44.5	66.7



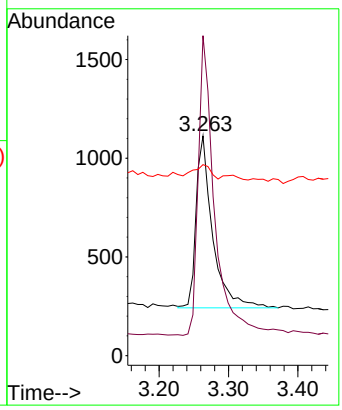


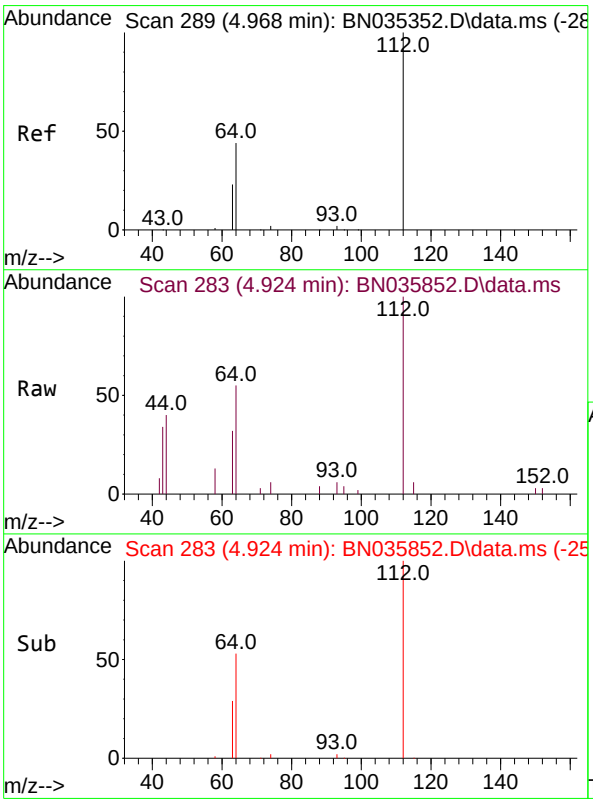
#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion: 42 Resp: 1440

Ion	Ratio	Lower	Upper
42	100		
74	172.0	124.9	187.3
44	8.5	2.2	3.4#

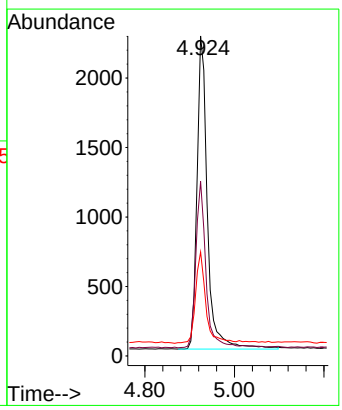


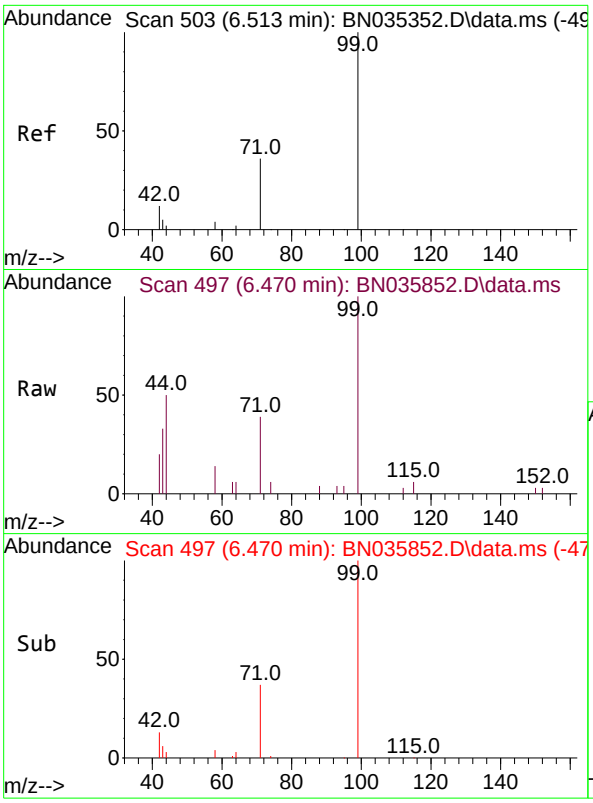


#4
2-Fluorophenol
Concen: 0.329 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:112 Resp: 3645

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	28.7	21.0	31.6



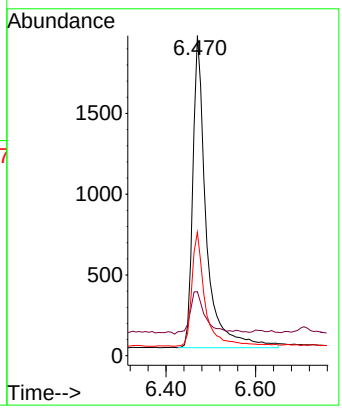


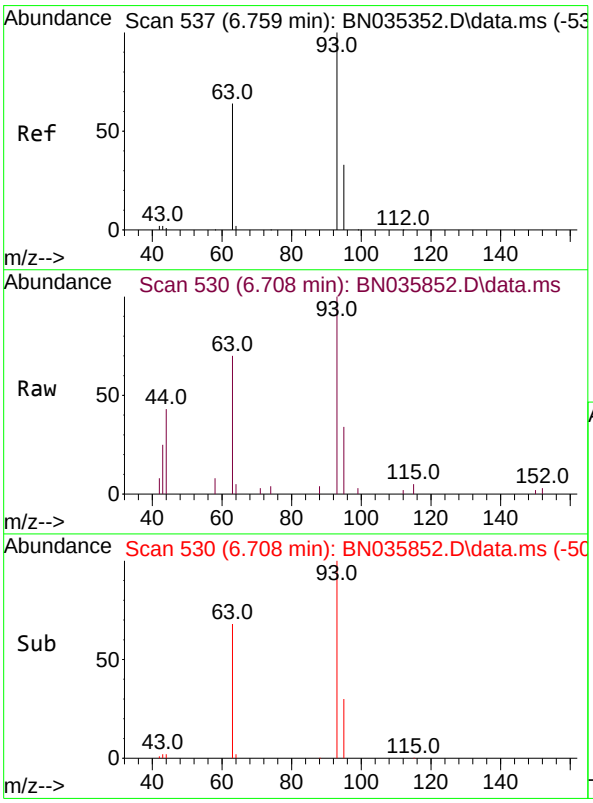
#5
Phenol-d6
Concen: 0.302 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion: 99 Resp: 4024

Ion	Ratio	Lower	Upper
99	100		
42	15.6	11.4	17.2
71	36.4	29.3	43.9

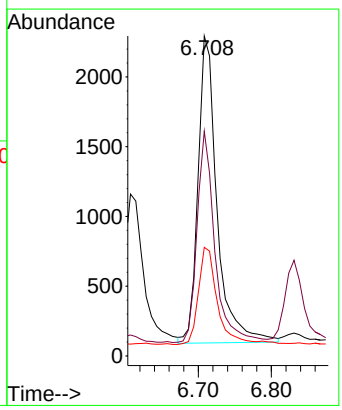


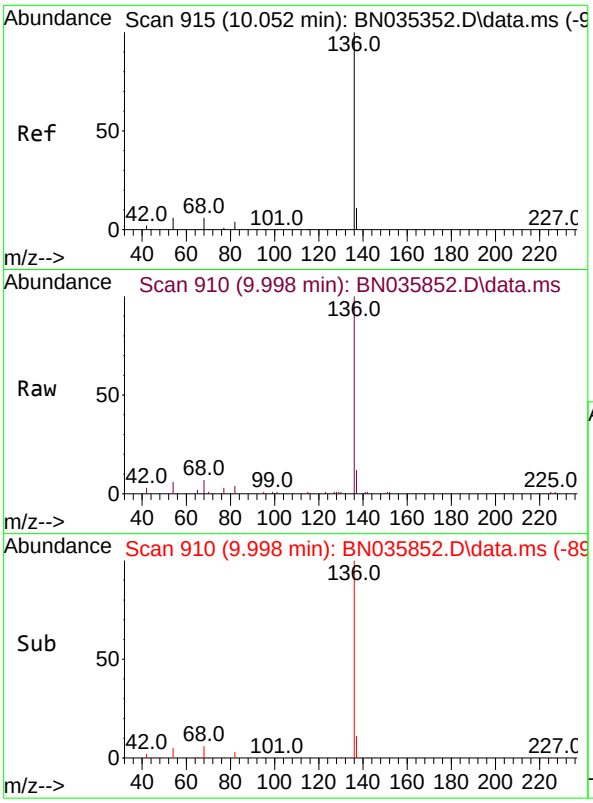


#6
bis(2-Chloroethyl)ether
Concen: 0.355 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 93 Resp: 3983

Ion	Ratio	Lower	Upper
93	100		
63	64.4	50.4	75.6
95	32.1	25.7	38.5



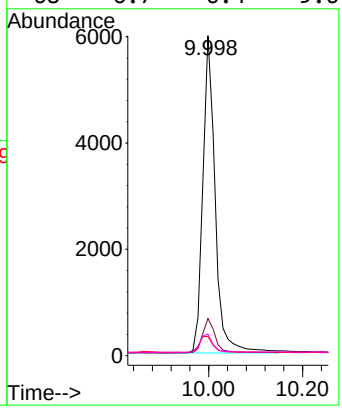


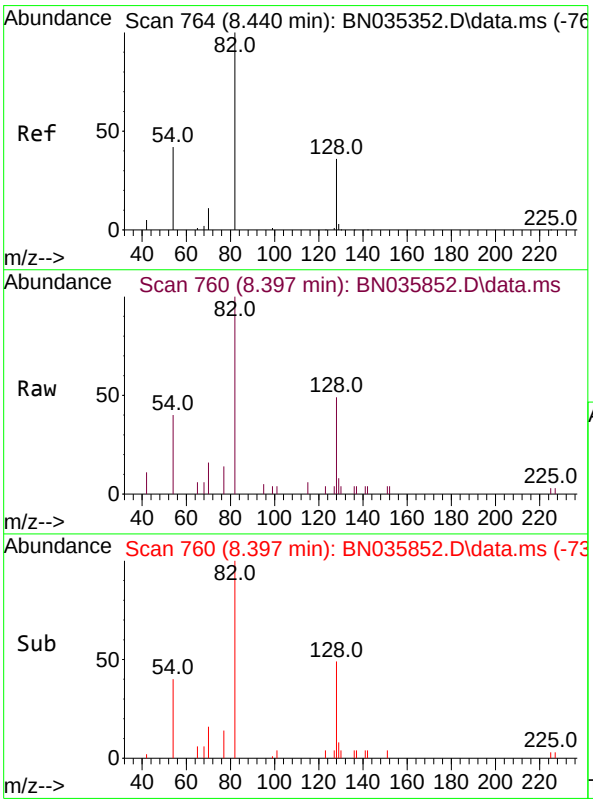
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:136 Resp: 10905

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.9	6.1	9.1#
68	6.7	6.4	9.6

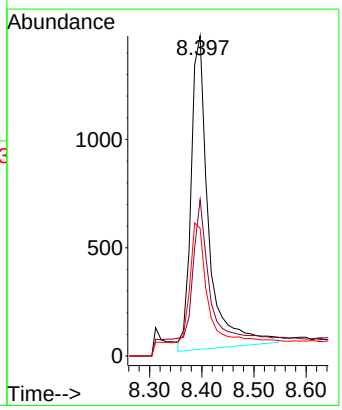


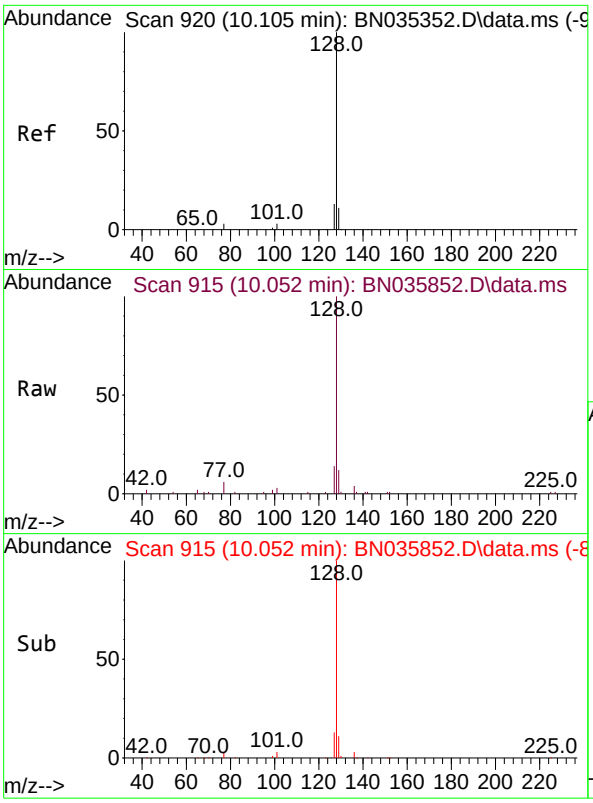


#8
Nitrobenzene-d5
Concen: 0.513 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 82 Resp: 3418

Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	39.9	36.7	55.1



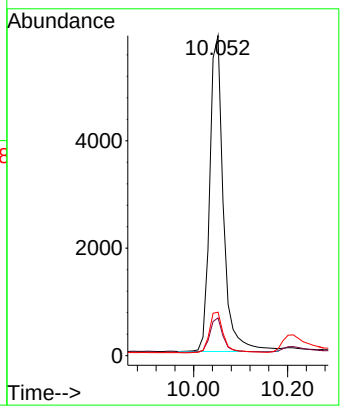


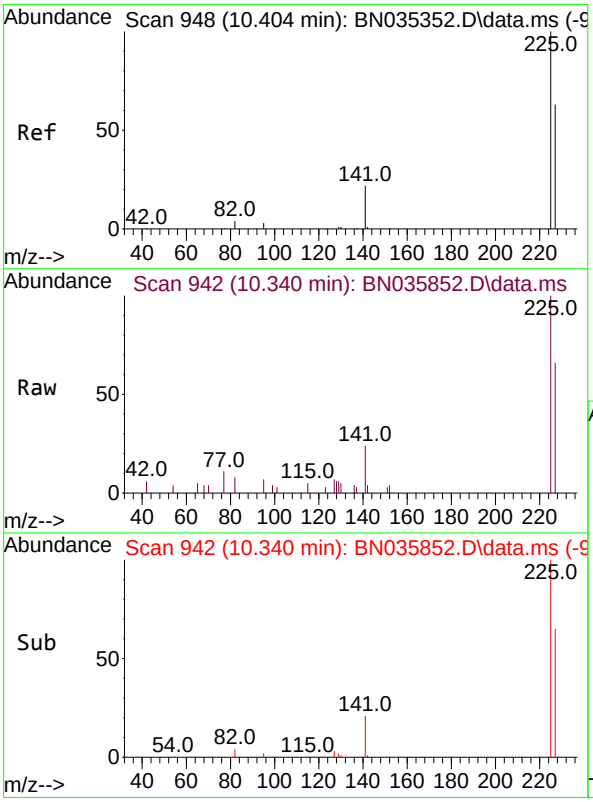
#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:128 Resp: 11935

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.8	14.6
127	13.6	11.4	17.2

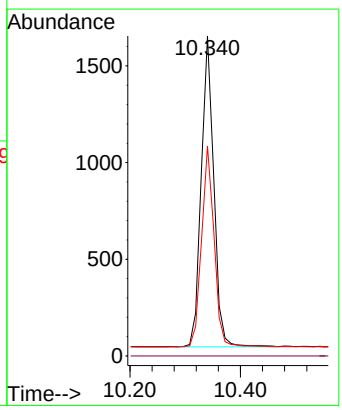


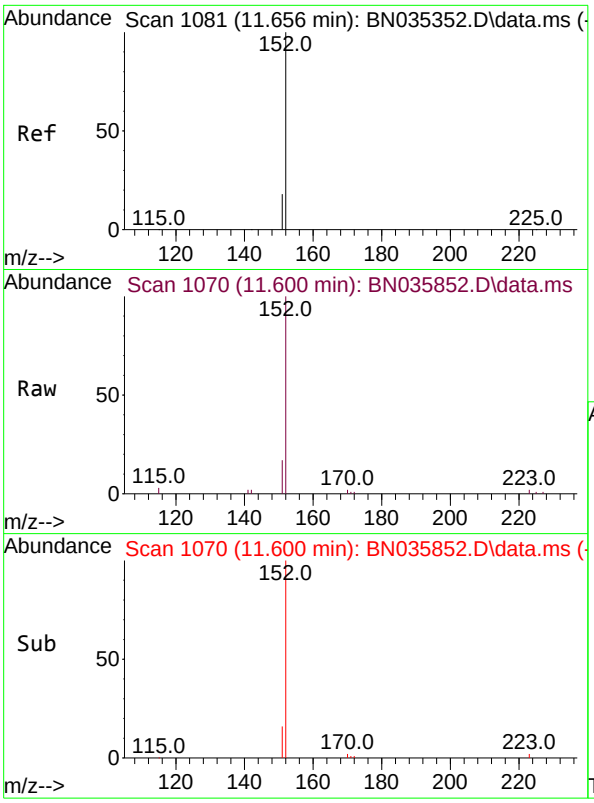


#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:225 Resp: 2551

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9



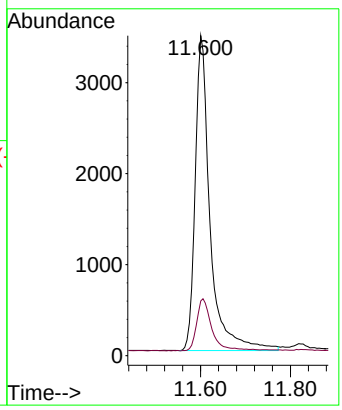


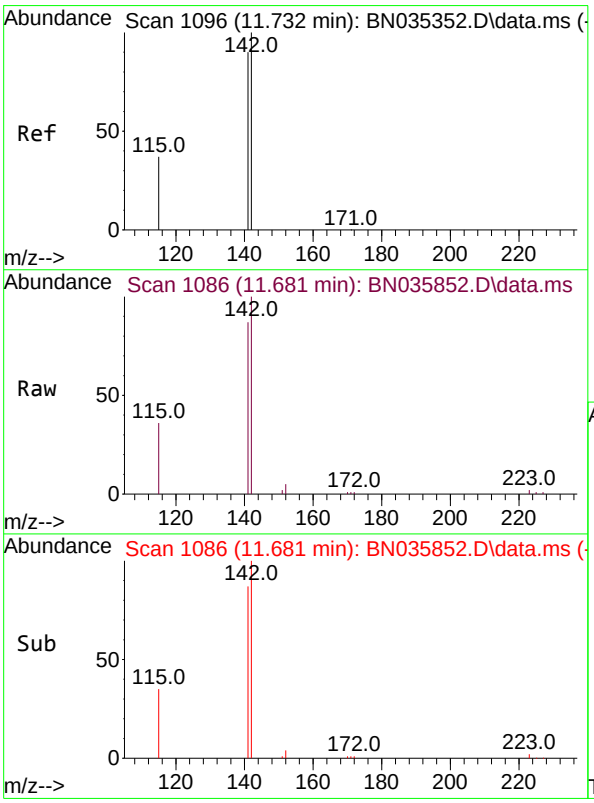
#11
2-Methylnaphthalene-d10
Concen: 0.466 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:152 Resp: 7947

Ion	Ratio	Lower	Upper
152	100		
151	16.8	16.6	25.0

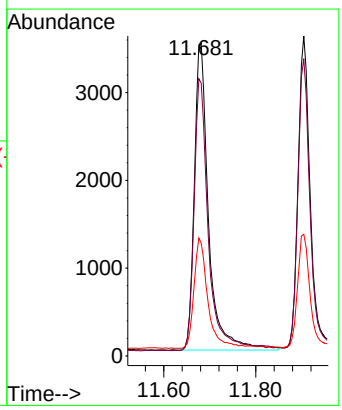


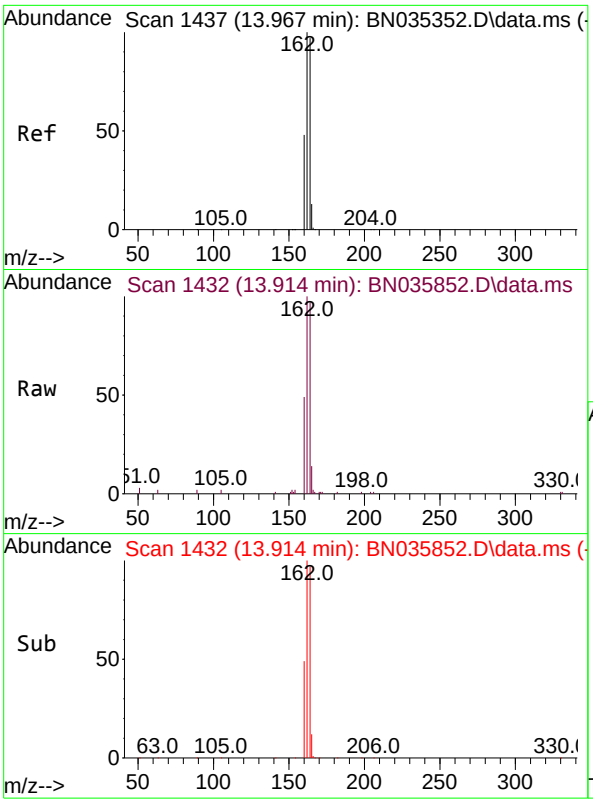


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:142 Resp: 7534

Ion	Ratio	Lower	Upper
142	100		
141	87.3	72.2	108.4
115	36.1	31.4	47.0



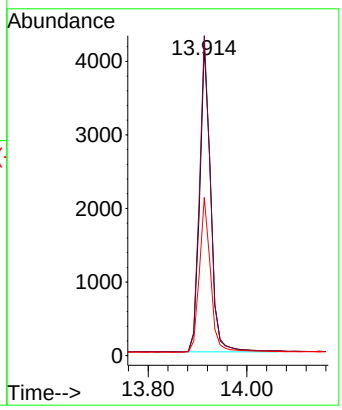


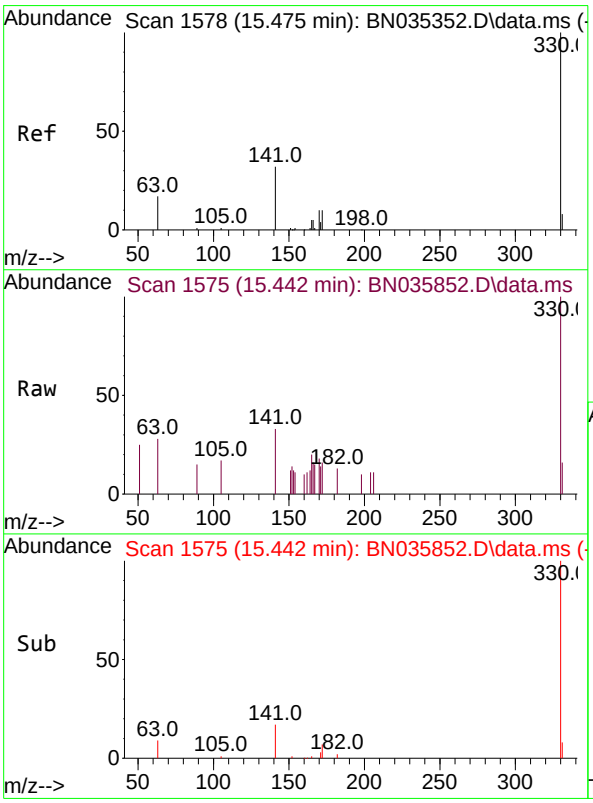
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:164 Resp: 6427

Ion	Ratio	Lower	Upper
164	100		
162	103.4	82.2	123.2
160	51.1	40.1	60.1

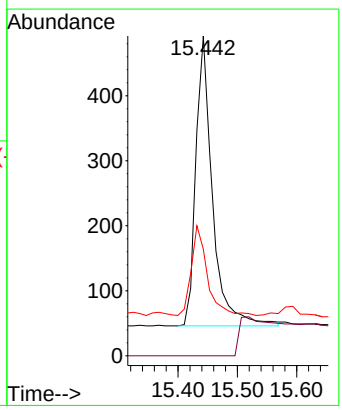


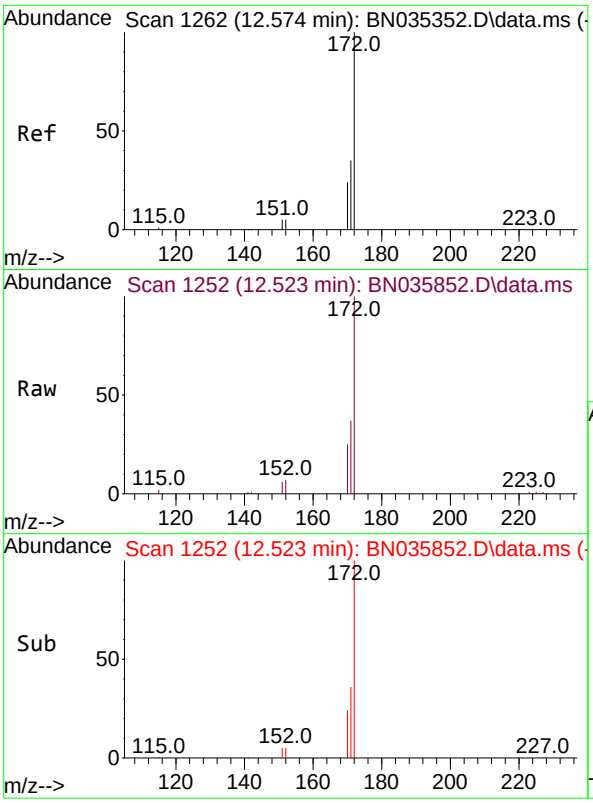


#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:330 Resp: 913

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0



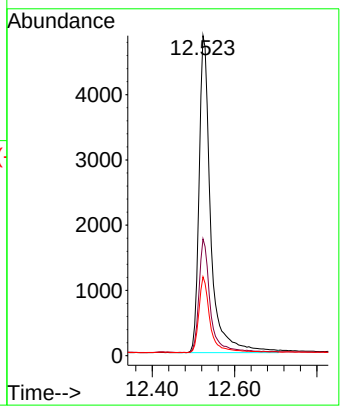


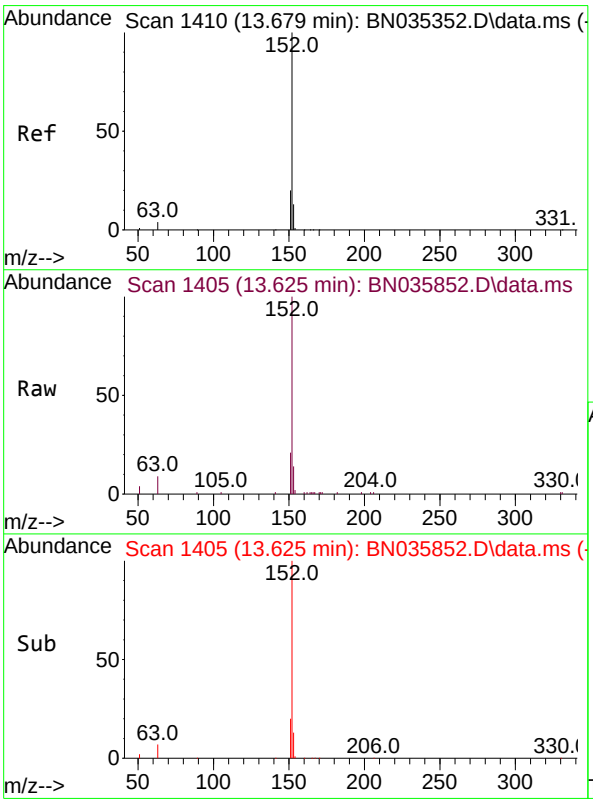
#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:172 Resp: 9578

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.6	19.8	29.8

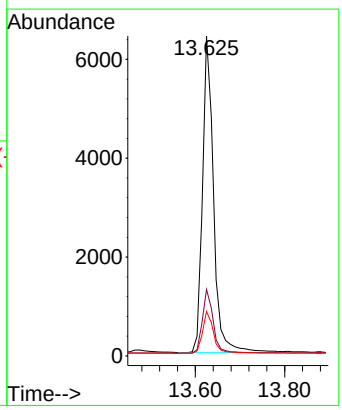


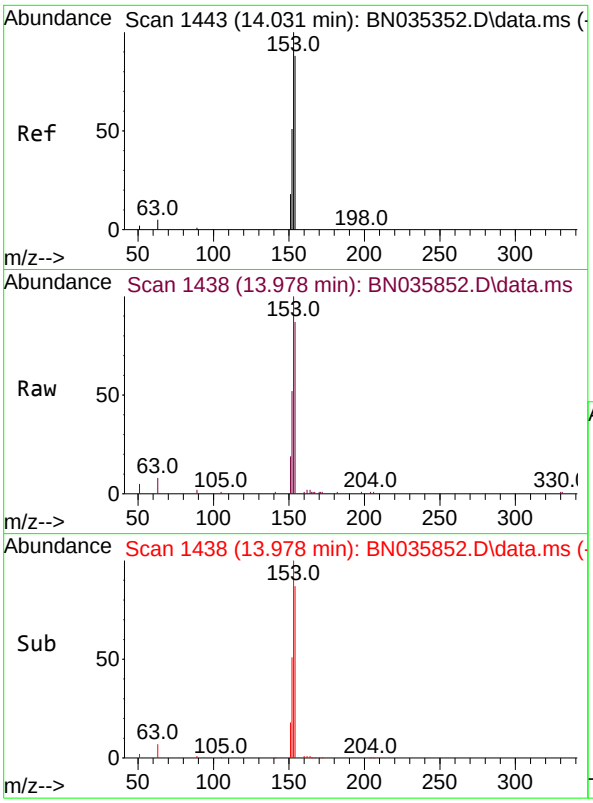


#16
Acenaphthylene
Concen: 0.407 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 10983

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.3	10.4	15.6



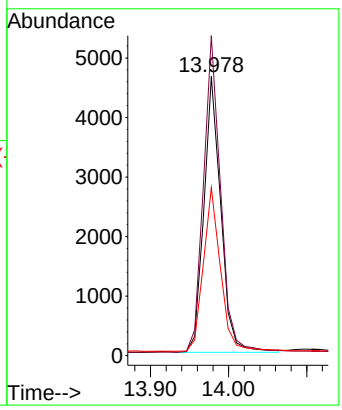


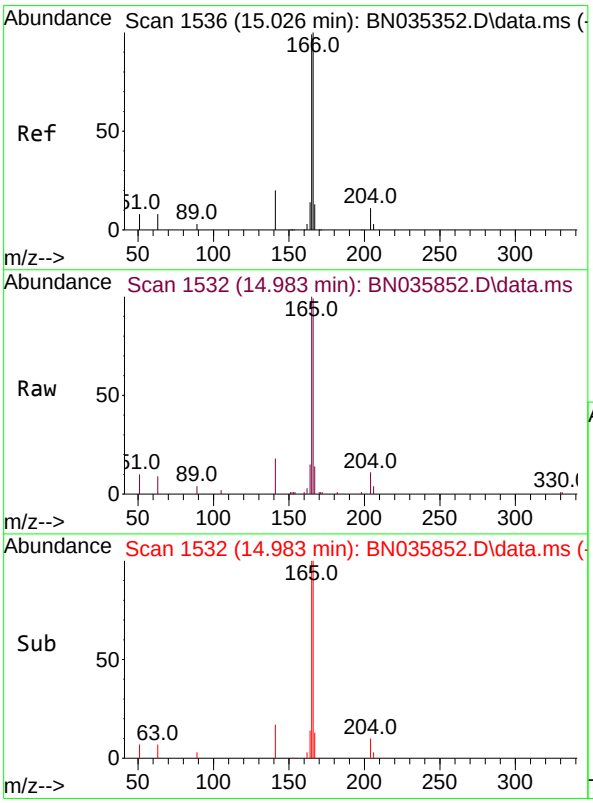
#17
Acenaphthene
Concen: 0.390 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:154 Resp: 6982

Ion	Ratio	Lower	Upper
154	100		
153	117.4	92.6	139.0
152	60.2	49.0	73.6

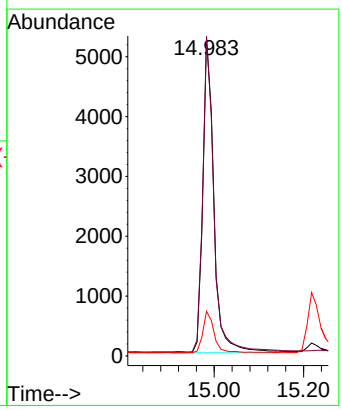


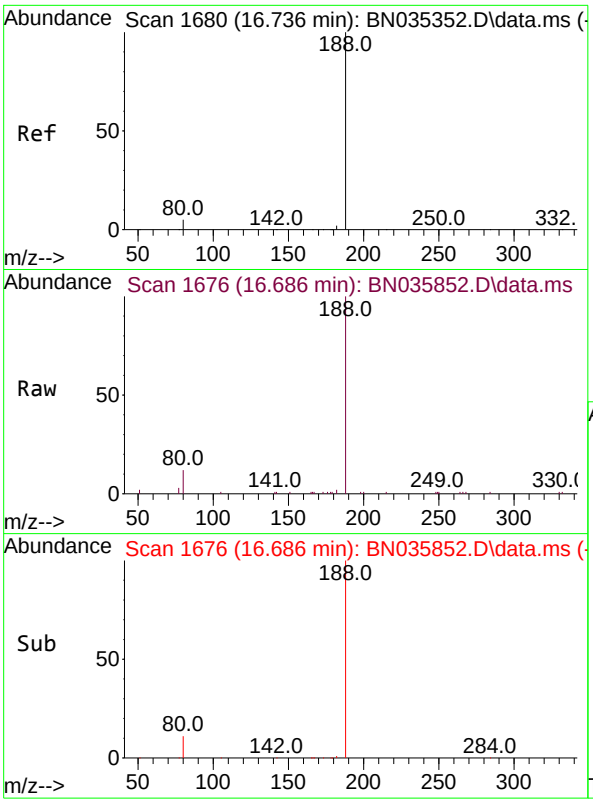


#18
Fluorene
Concen: 0.353 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:166 Resp: 9056

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.7	119.5
167	13.2	10.8	16.2



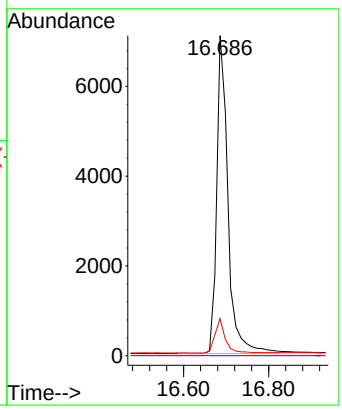


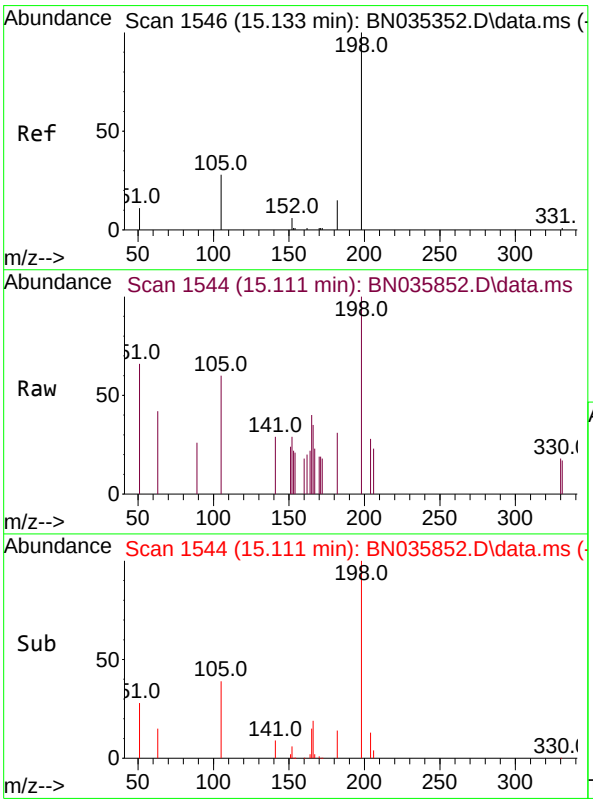
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:188 Resp: 13001

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	4.6	6.8#

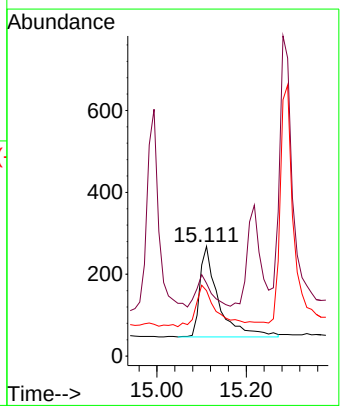


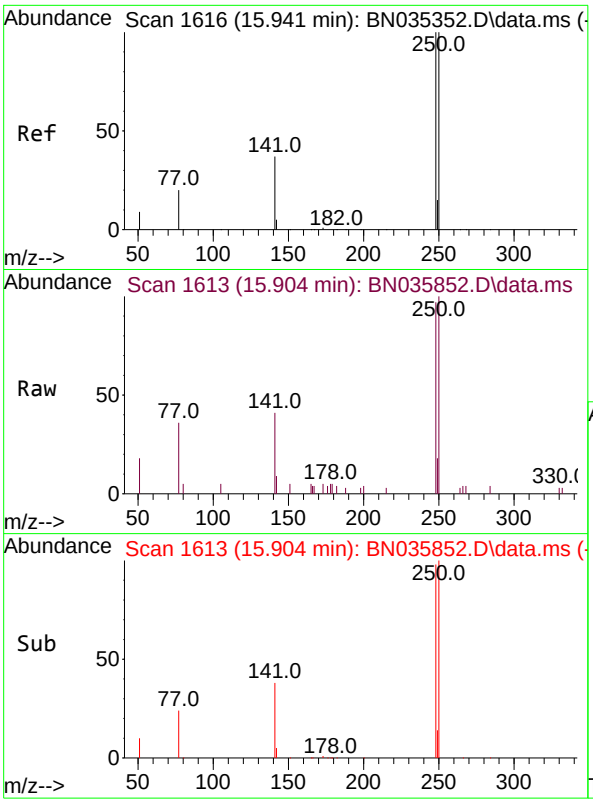


#20
4,6-Dinitro-2-methylphenol
Concen: 0.505 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:198 Resp: 645

Ion	Ratio	Lower	Upper
198	100		
51	66.4	46.5	69.7
105	59.7	45.3	67.9



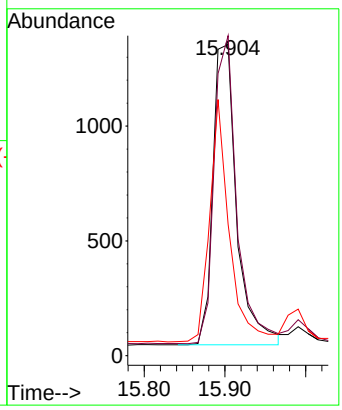


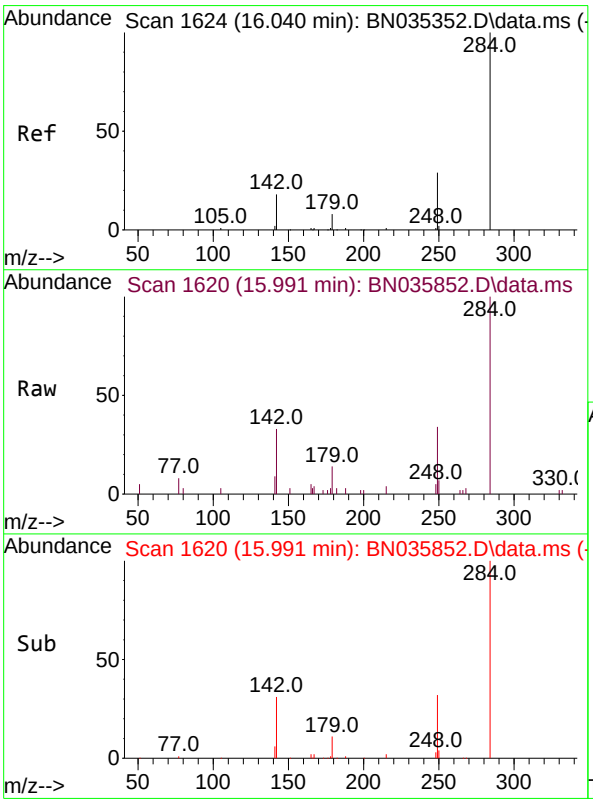
#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:248 Resp: 2685

Ion	Ratio	Lower	Upper
248	100		
250	102.8	80.6	120.8
141	42.2	31.5	47.3

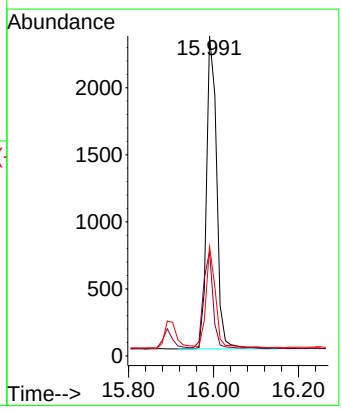


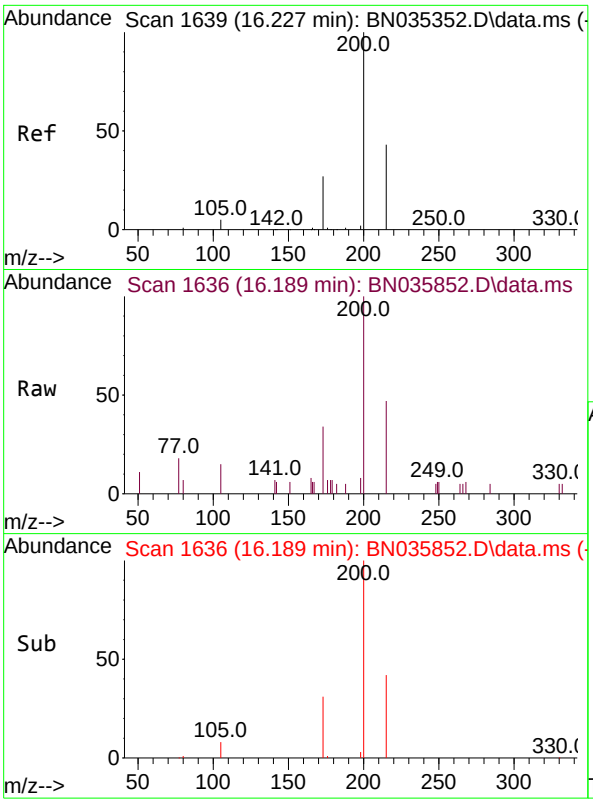


#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:284 Resp: 3862

Ion	Ratio	Lower	Upper
284	100		
142	29.3	26.7	40.1
249	30.2	24.6	36.8



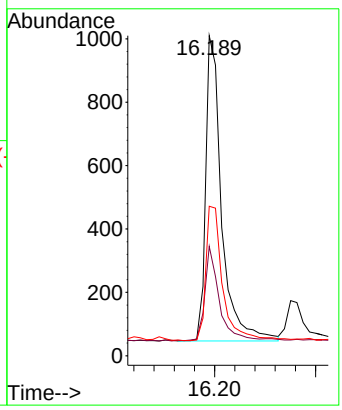


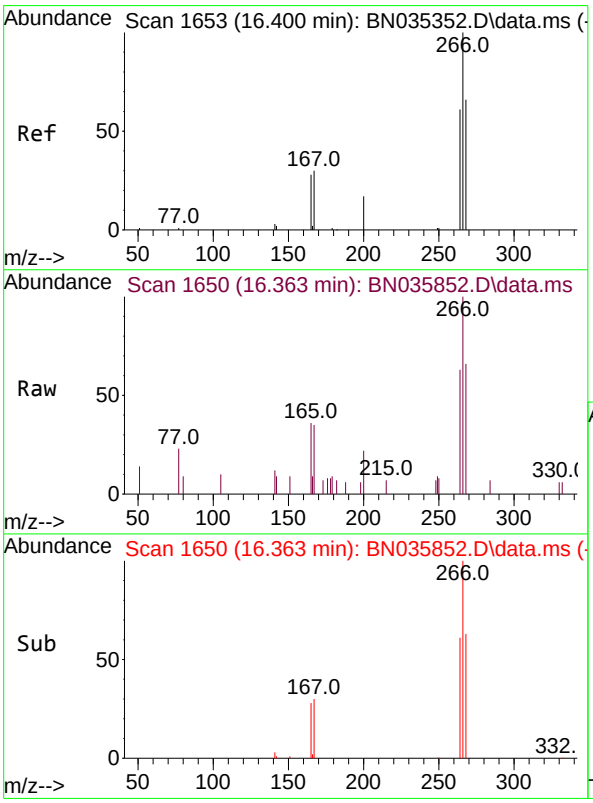
#23
Atrazine
Concen: 0.390 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:200 Resp: 2110

Ion	Ratio	Lower	Upper
200	100		
173	34.2	24.1	36.1
215	46.7	36.9	55.3

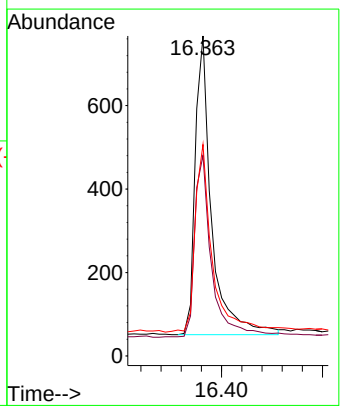


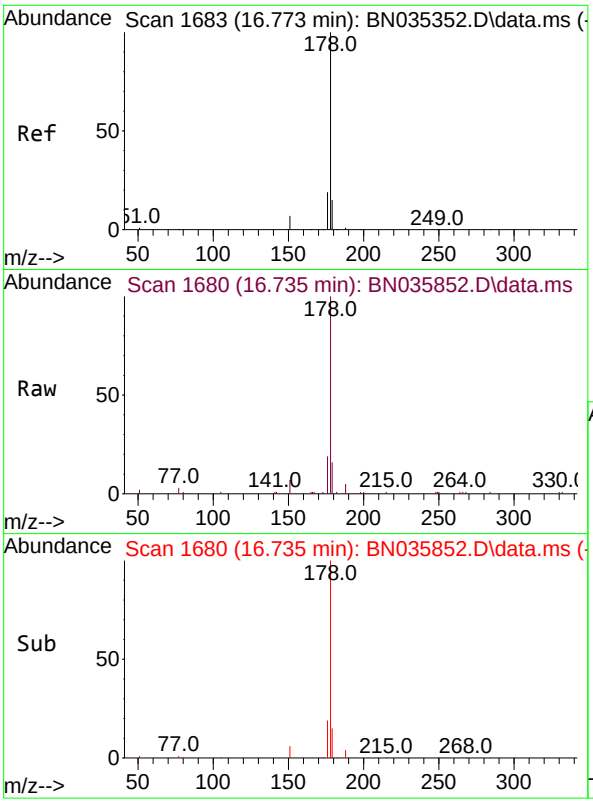


#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:266 Resp: 1614

Ion	Ratio	Lower	Upper
266	100		
264	63.1	42.3	63.5
268	65.7	43.3	64.9#



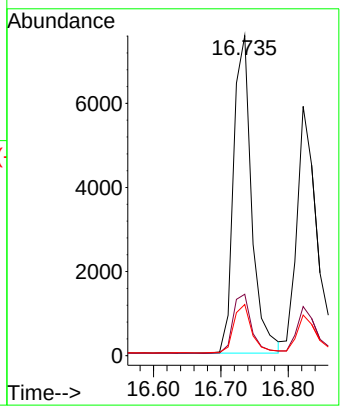


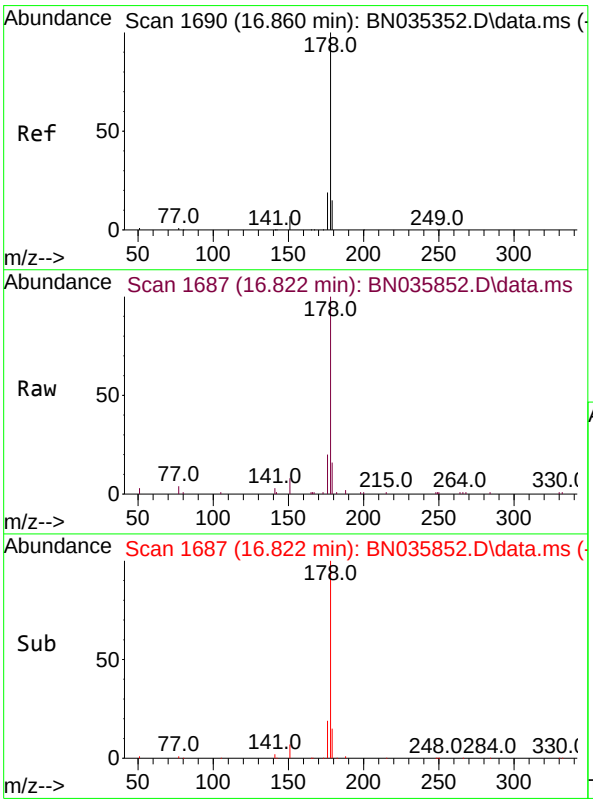
#25
Phenanthrene
Concen: 0.397 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:178 Resp: 14161

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.3	18.5

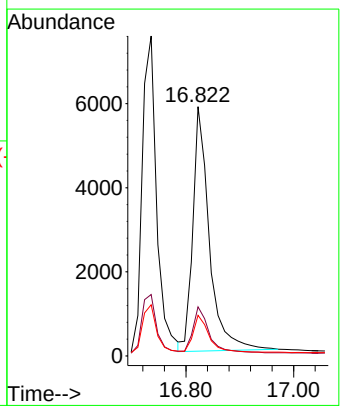


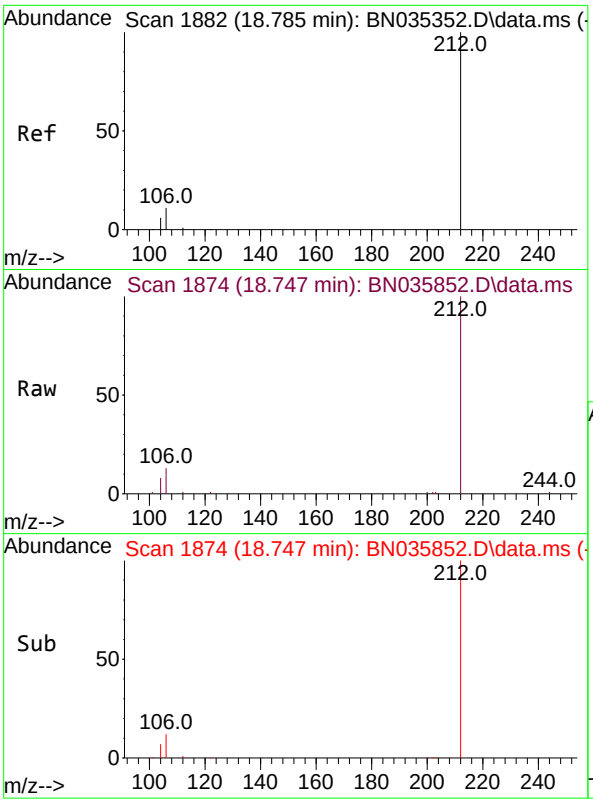


#26
Anthracene
Concen: 0.384 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 12409

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	14.9	12.6	18.8



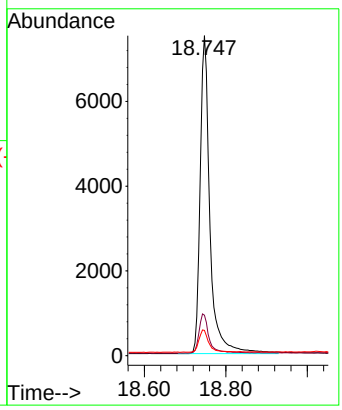


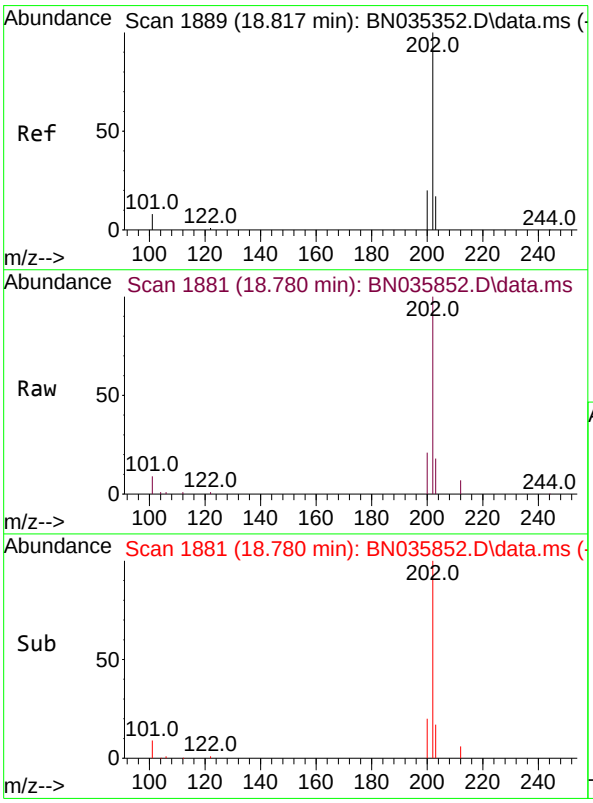
#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:212 Resp: 12504

Ion	Ratio	Lower	Upper
212	100		
106	12.6	9.2	13.8
104	7.0	5.3	7.9

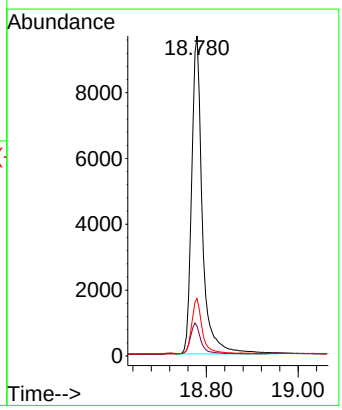


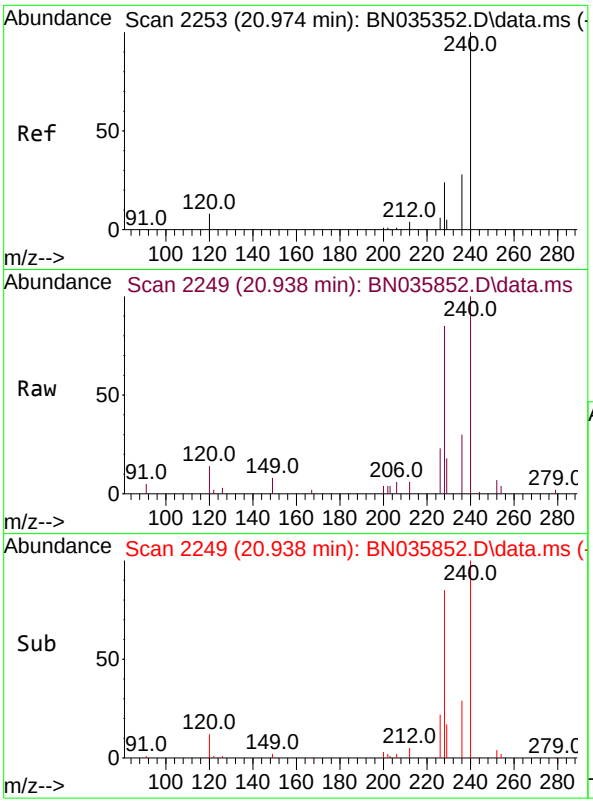


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15692

Ion	Ratio	Lower	Upper
202	100		
101	9.5	7.4	11.0
203	16.8	13.7	20.5



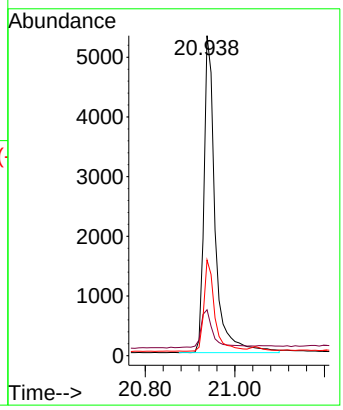


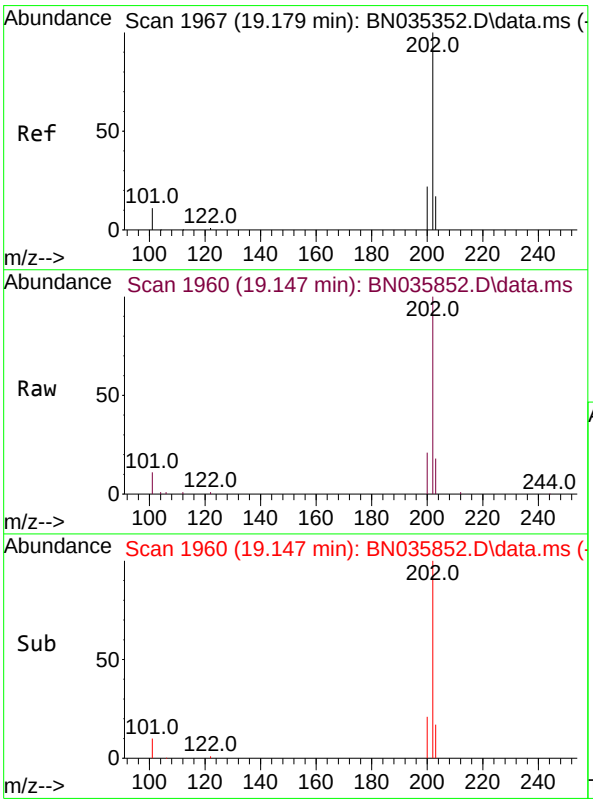
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:240 Resp: 9257

Ion	Ratio	Lower	Upper
240	100		
120	14.3	7.9	11.9#
236	29.9	22.9	34.3

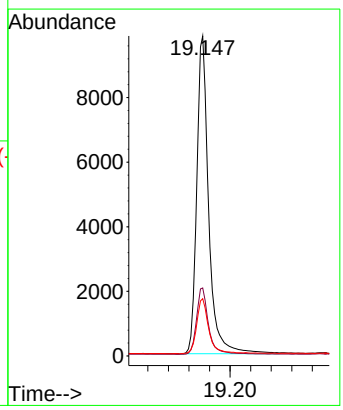


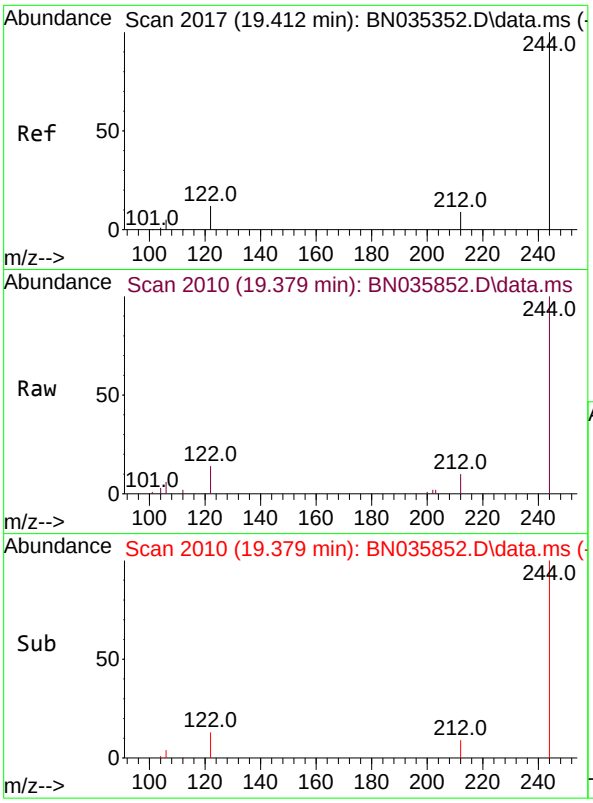


#30
Pyrene
Concen: 0.466 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15917

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5



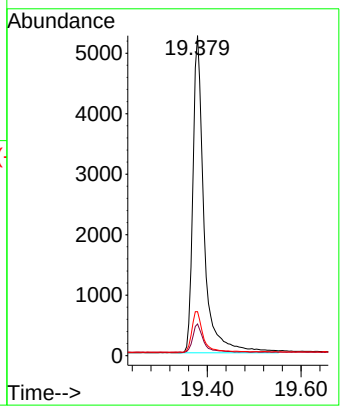


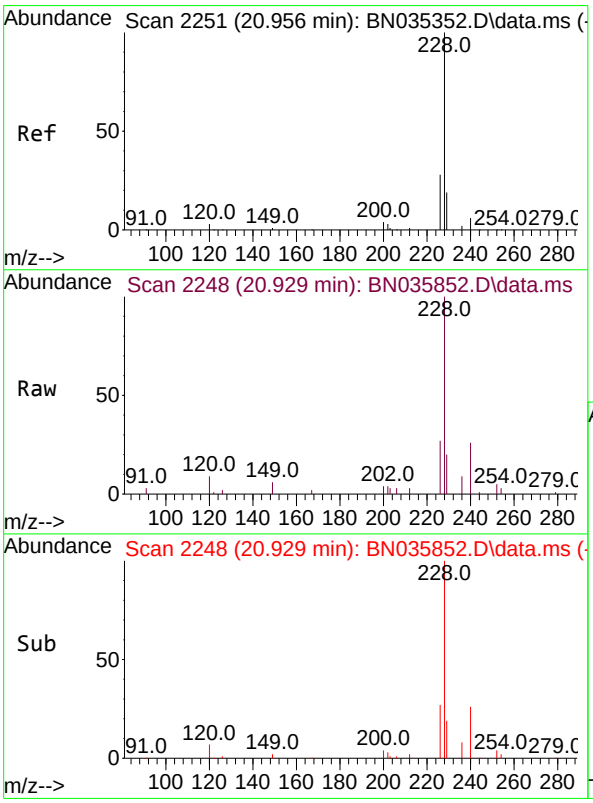
#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:244 Resp: 8698

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.7	10.3	15.5

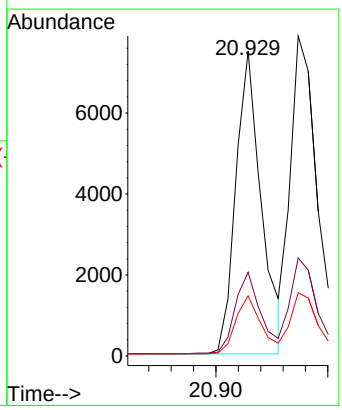


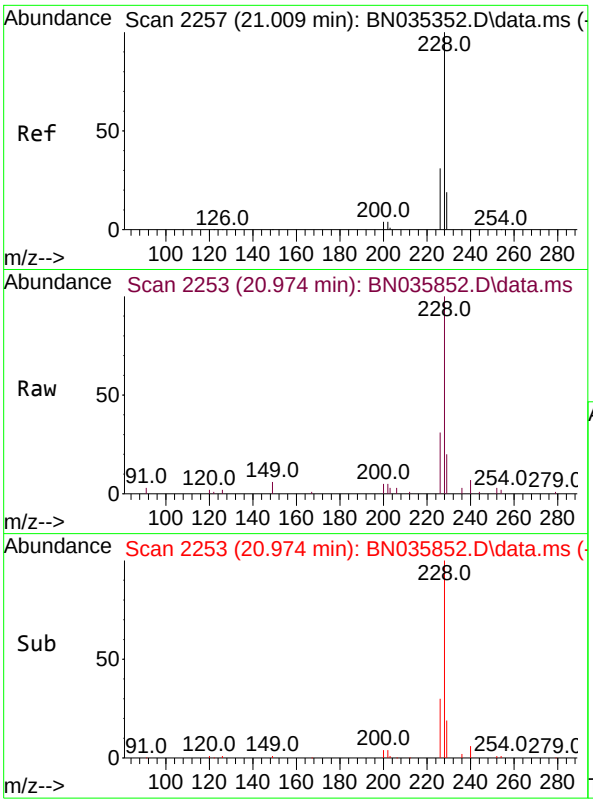


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 11832

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.7	15.8	23.8



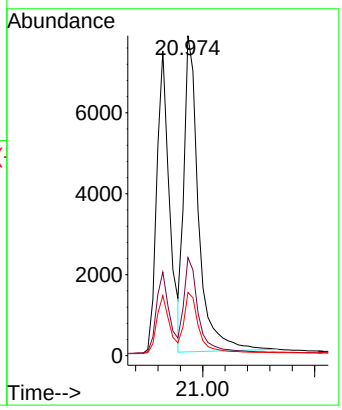


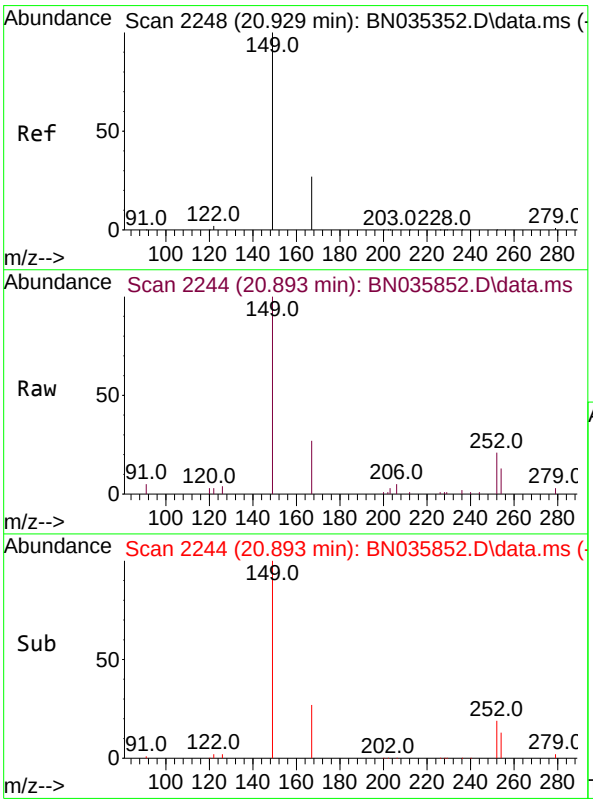
#33
Chrysene
Concen: 0.426 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:228 Resp: 14241

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	19.8	15.9	23.9

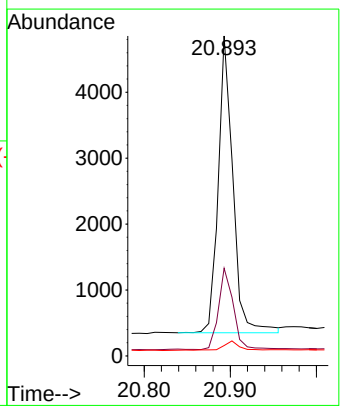


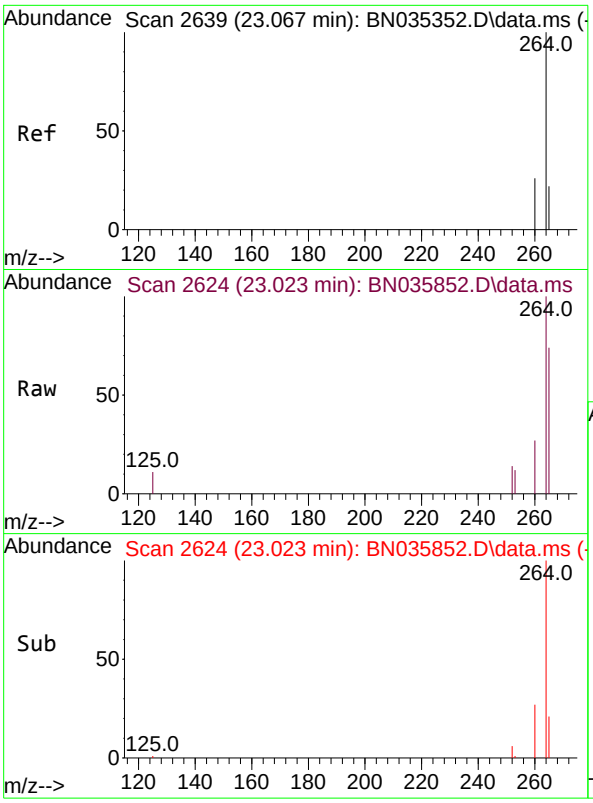


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.415 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:149 Resp: 5313

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.2	33.4
279	3.3	2.7	4.1



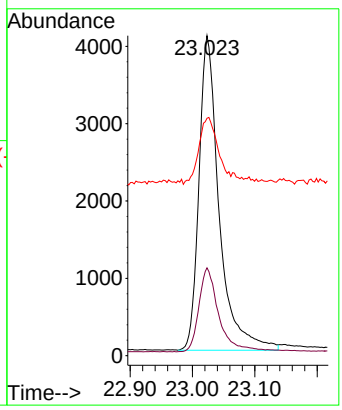


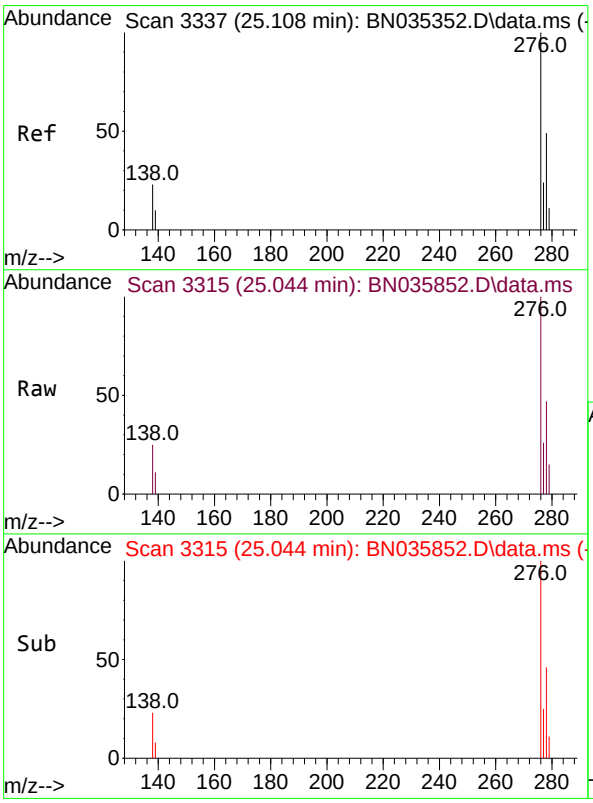
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:264 Resp: 9148

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	74.2	40.2	60.4#

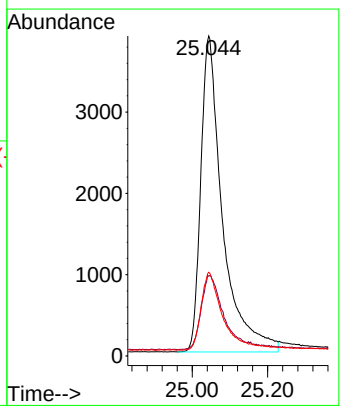


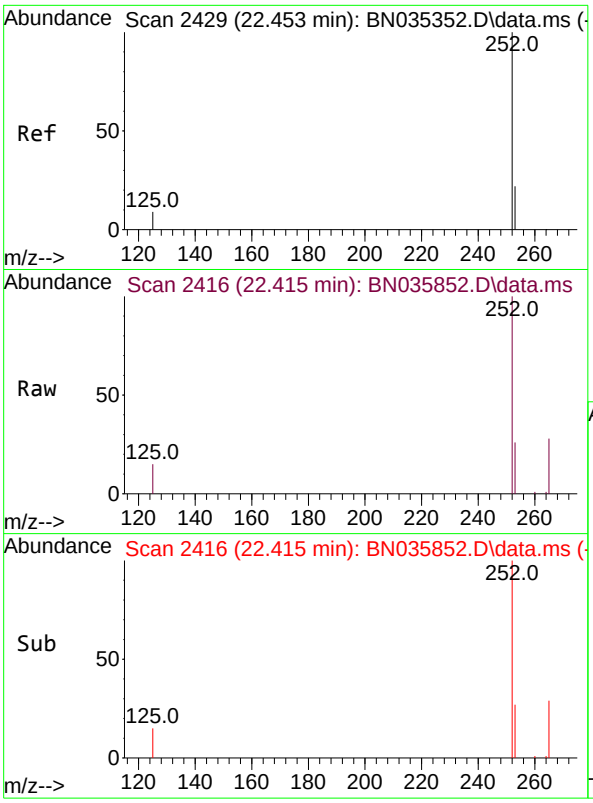


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.435 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:276 Resp: 15551

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.9	19.8	29.6



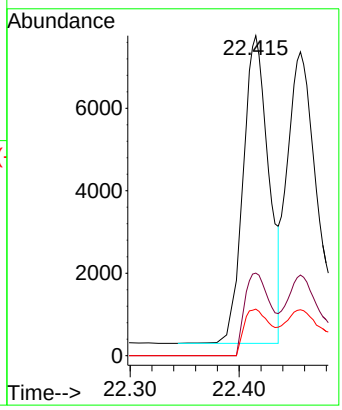


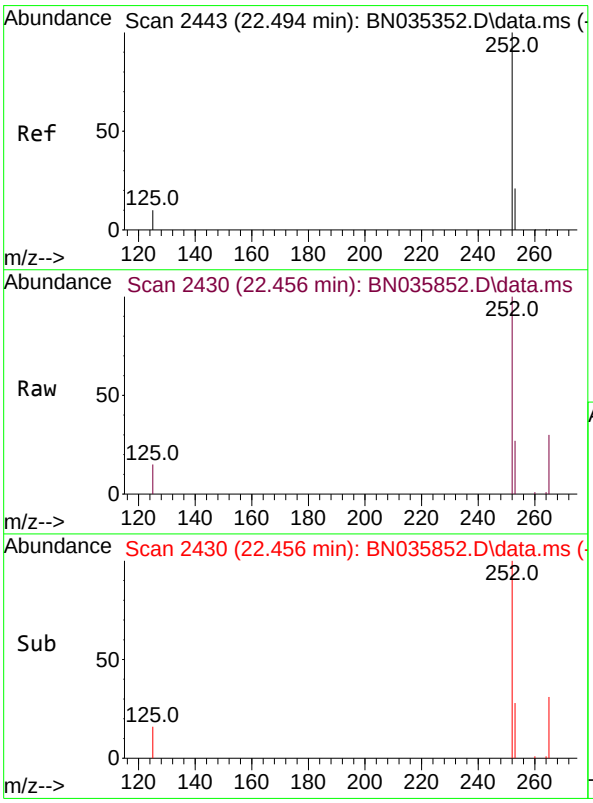
#37
Benzo(b)fluoranthene
Concen: 0.581 ng
RT: 22.415 min Scan# 24
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:252 Resp: 19434

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.6	29.4
125	14.5	9.6	14.4#

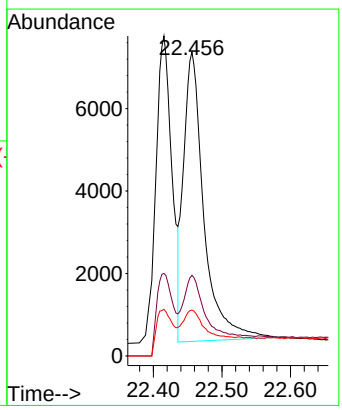


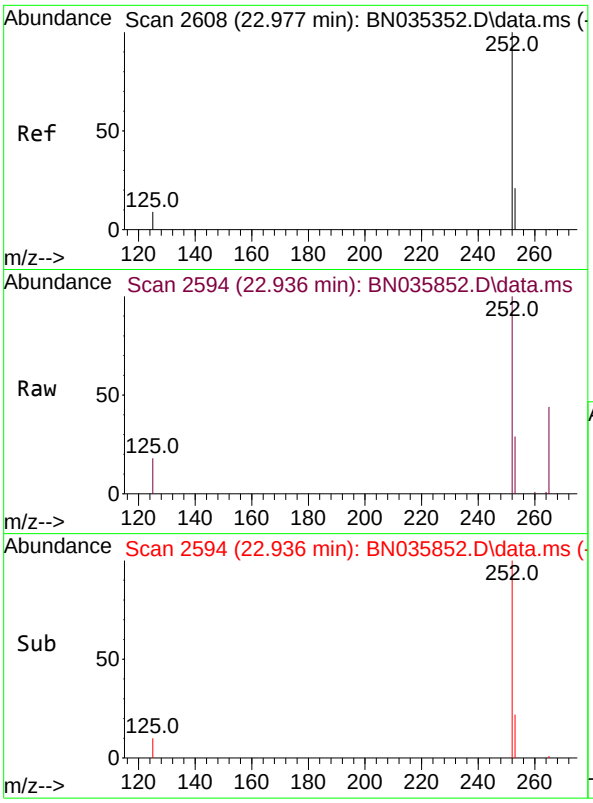


#38
Benzo(k)fluoranthene
Concen: 0.439 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 14469

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	15.1	10.2	15.4



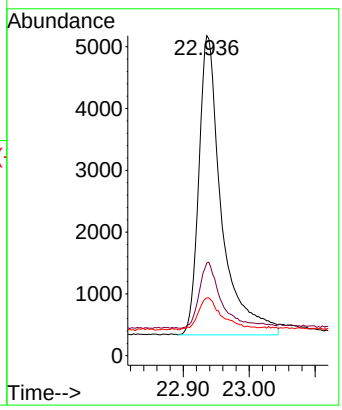


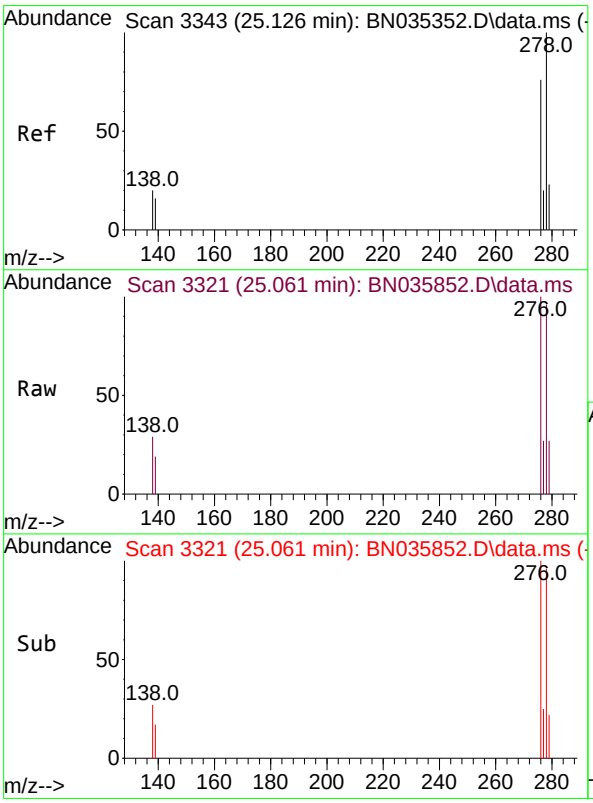
#39
Benzo(a)pyrene
Concen: 0.422 ng
RT: 22.936 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:252 Resp: 11624

Ion	Ratio	Lower	Upper
252	100		
253	29.0	20.2	30.4
125	18.0	10.9	16.3#

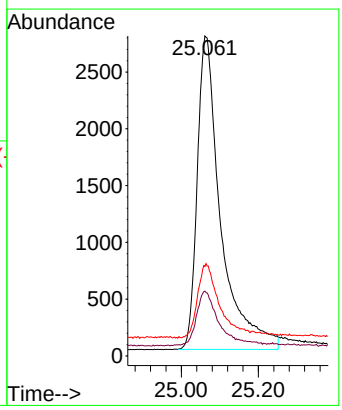


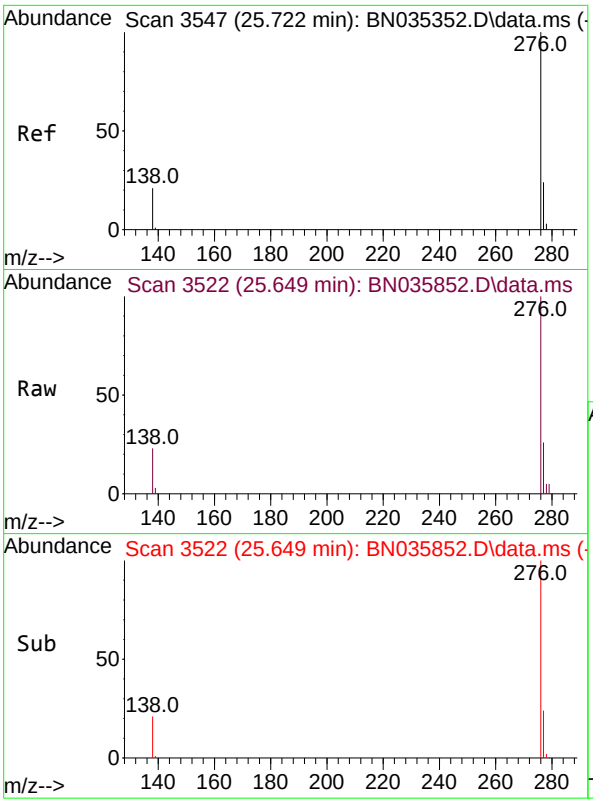


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:278 Resp: 11696

Ion	Ratio	Lower	Upper
278	100		
139	20.2	14.2	21.4
279	28.0	20.5	30.7



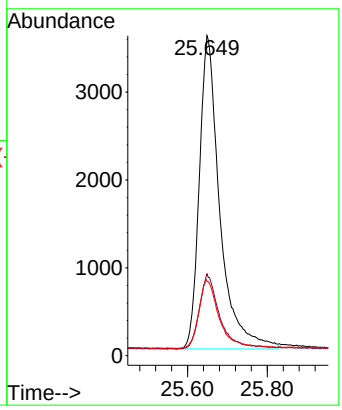


#41
Benzo(g,h,i)perylene
Concen: 0.431 ng
RT: 25.649 min Scan# 3
Delta R.T. -0.029 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:276 Resp: 12710

Ion	Ratio	Lower	Upper
276	100		
277	25.6	19.9	29.9
138	23.2	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035854.D
Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Quant Time: Dec 27 00:41:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	2752	0.400	ng	-0.01
7) Naphthalene-d8	10.009	136	6133	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	4189	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	9267	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7345	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	6900	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	170	0.025	ng	-0.01
5) Phenol-d6	6.477	99	80	0.010	ng	-0.01
8) Nitrobenzene-d5	8.418	82	544	0.145	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	768	0.080	ng	0.02
14) 2,4,6-Tribromophenol	15.464	330	143	0.048	ng	0.01
15) 2-Fluorobiphenyl	12.559	172	1316	0.083	ng	0.01
27) Fluoranthene-d10	18.757	212	2532	0.096	ng	0.00
31) Terphenyl-d14	19.379	244	1897	0.131	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	5250	1.996	ng	99
9) Naphthalene	10.052	128	468	0.029	ng	# 41
16) Acenaphthylene	13.636	152	389	0.022	ng	95
17) Acenaphthene	13.989	154	244	0.021	ng	96
26) Anthracene	16.748	178	698	0.030	ng	96
28) Fluoranthene	18.784	202	749	0.022	ng	99
30) Pyrene	19.151	202	773	0.029	ng	98
33) Chrysene	20.982	228	652	0.025	ng	# 79
34) Bis(2-ethylhexyl)phtha...	20.893	149	272	0.027	ng	# 91
37) Benzo(b)fluoranthene	22.430	252	554	0.022	ng	# 1

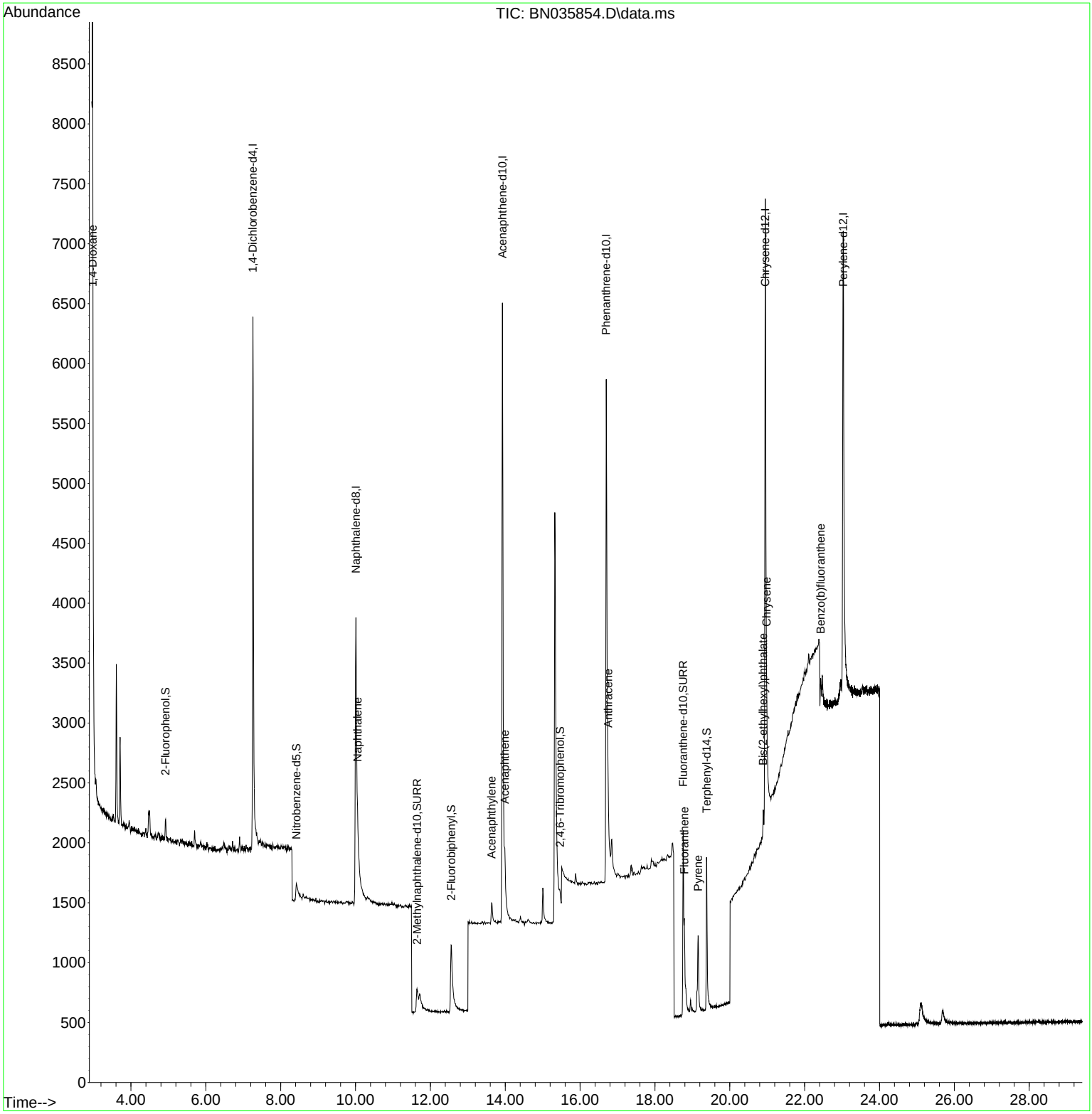
(#) = qualifier out of range (m) = manual integration (+) = signals summed

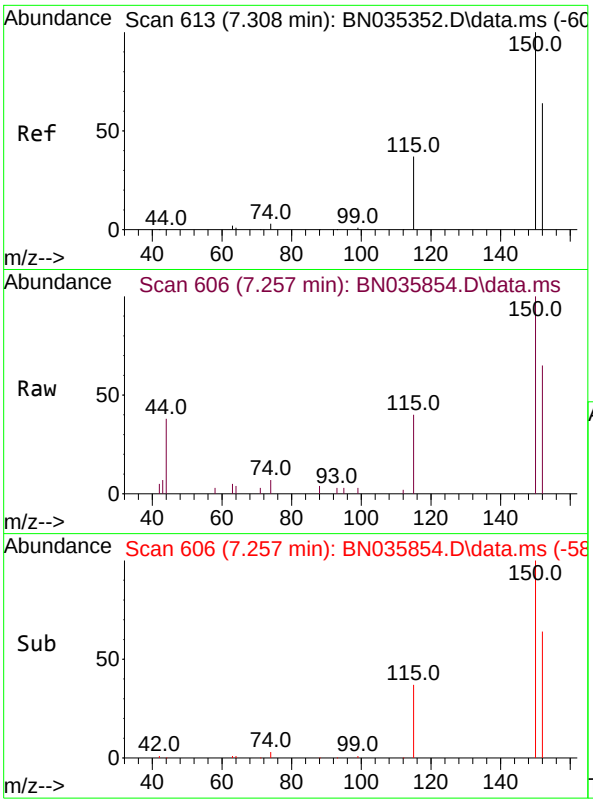
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035854.D
Acq On : 26 Dec 2024 15:30
Operator : RC/JU
Sample : P5376-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Quant Time: Dec 27 00:41:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



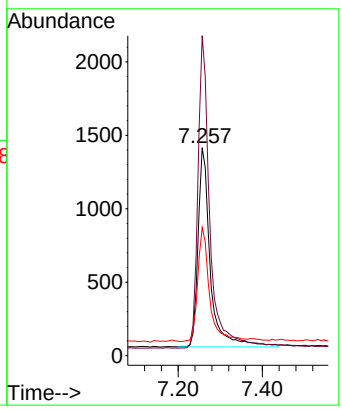


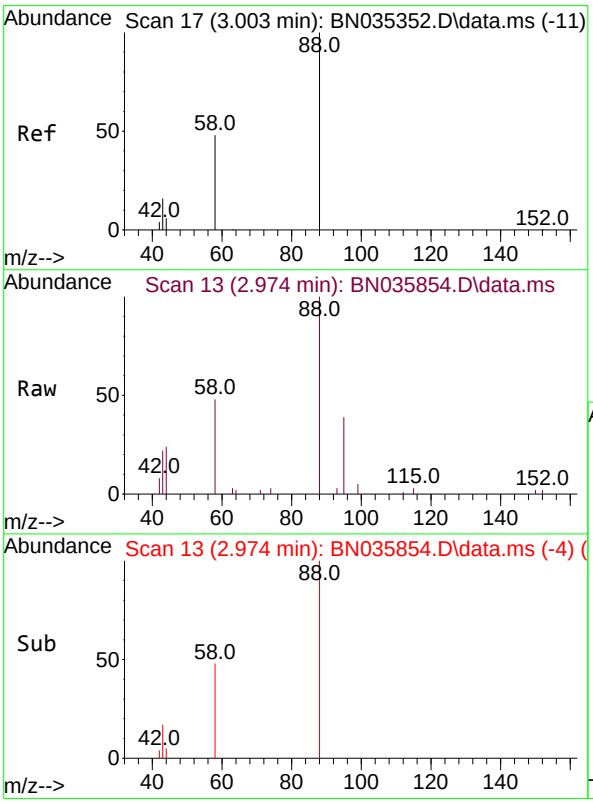
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:152 Resp: 2752

Ion	Ratio	Lower	Upper
152	100		
150	153.8	124.0	186.0
115	61.7	49.6	74.4

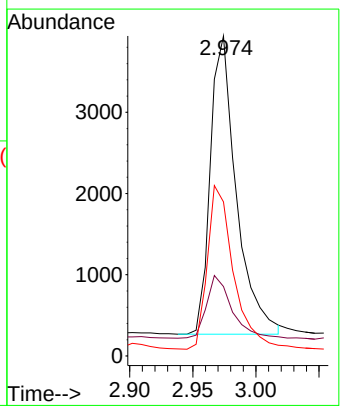


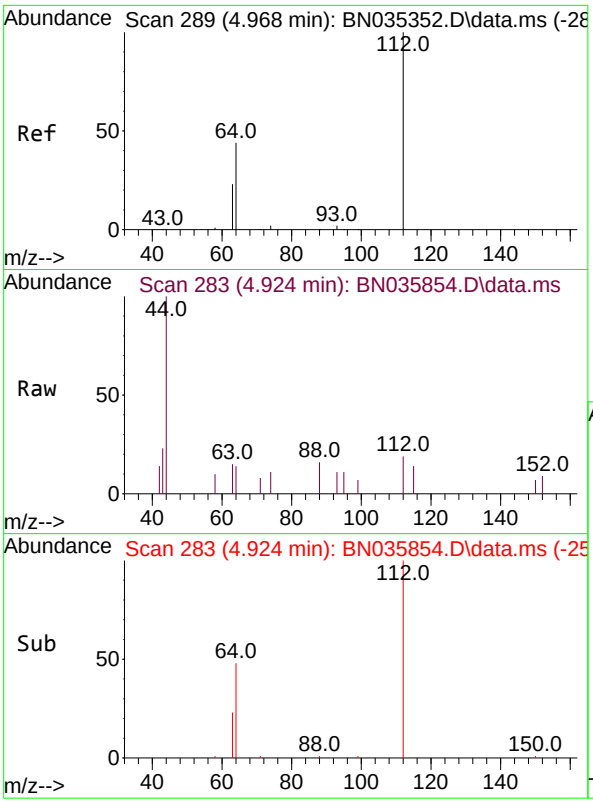


#2
1,4-Dioxane
Concen: 1.996 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 88 Resp: 5250

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	54.9	44.5	66.7



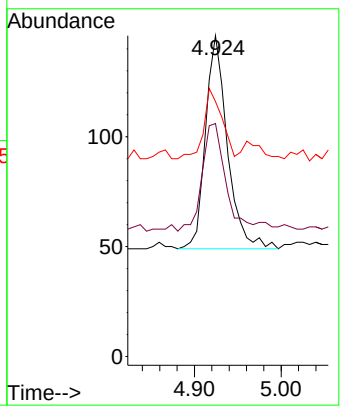


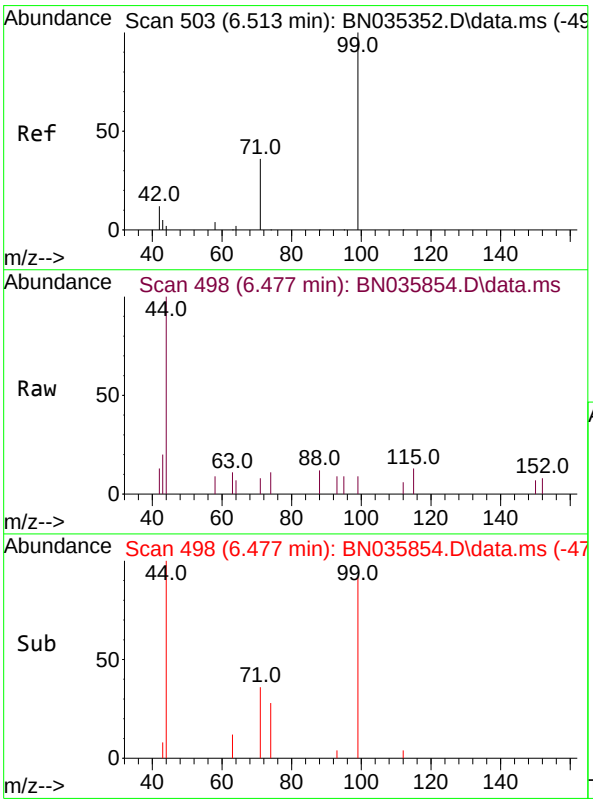
#4
2-Fluorophenol
Concen: 0.025 ng
RT: 4.924 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:112 Resp: 170

Ion	Ratio	Lower	Upper
112	100		
64	53.5	39.8	59.8
63	31.8	21.0	31.6#

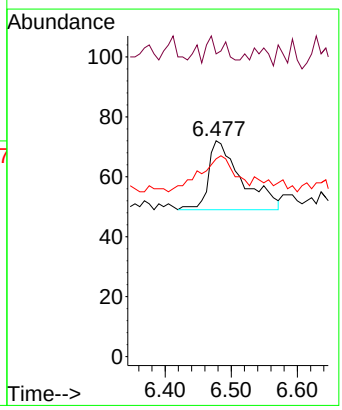


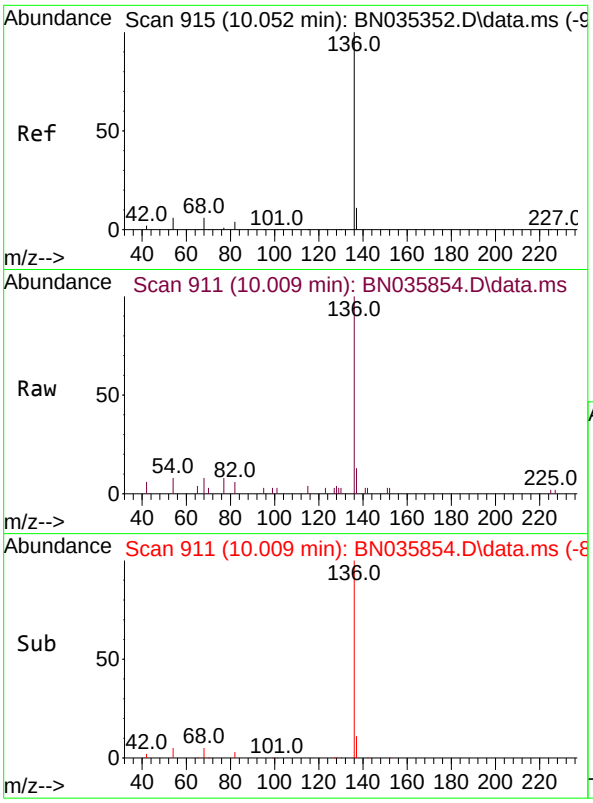


#5
Phenol-d6
Concen: 0.010 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 99 Resp: 80

Ion	Ratio	Lower	Upper
99	100		
42	12.5	11.4	17.2
71	53.8	29.3	43.9#



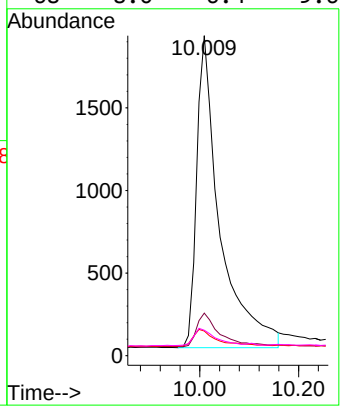


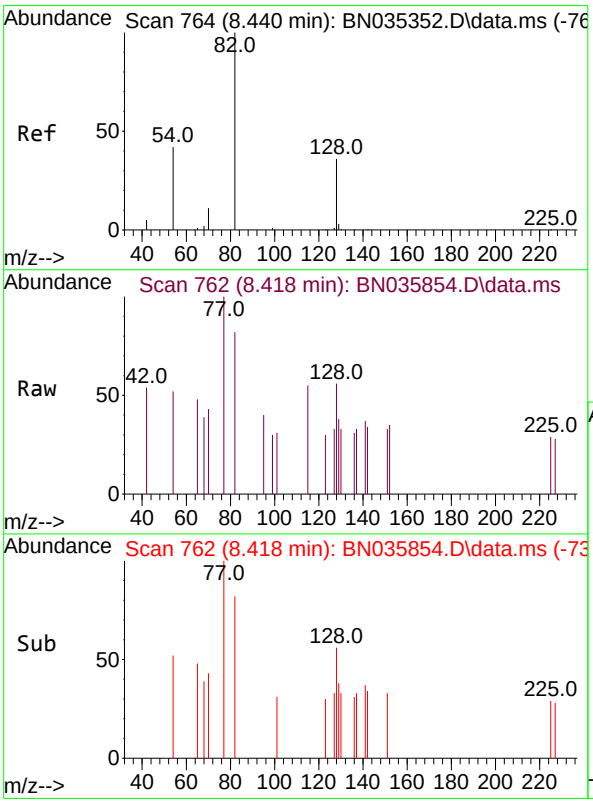
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:136 Resp: 6133

Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.2	15.2
54	7.7	6.1	9.1
68	8.0	6.4	9.6

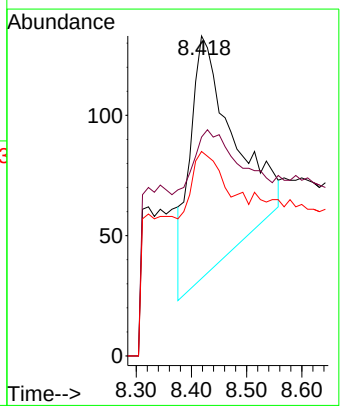


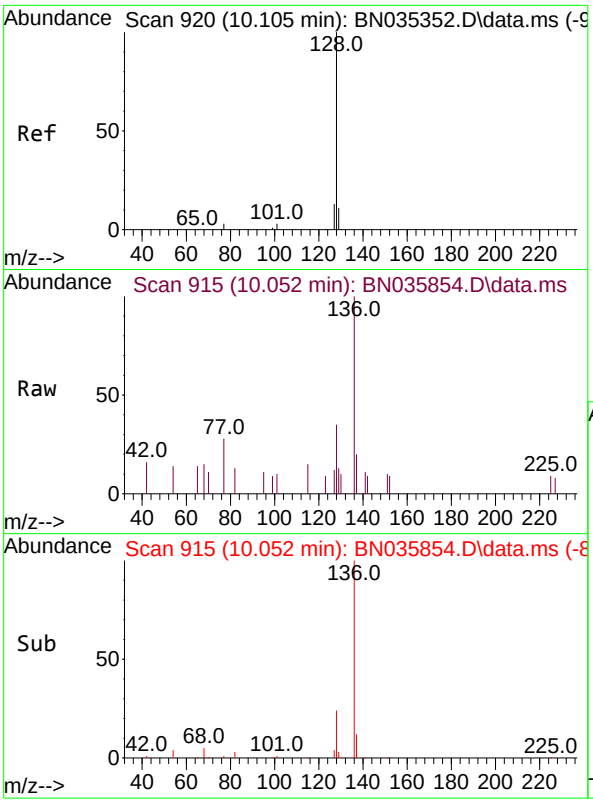


#8
Nitrobenzene-d5
Concen: 0.145 ng
RT: 8.418 min Scan# 762
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion: 82 Resp: 544

Ion	Ratio	Lower	Upper
82	100		
128	68.4	33.4	50.0#
54	63.9	36.7	55.1#



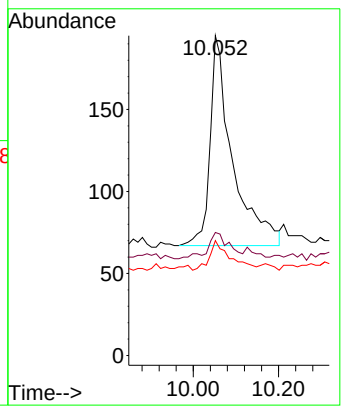


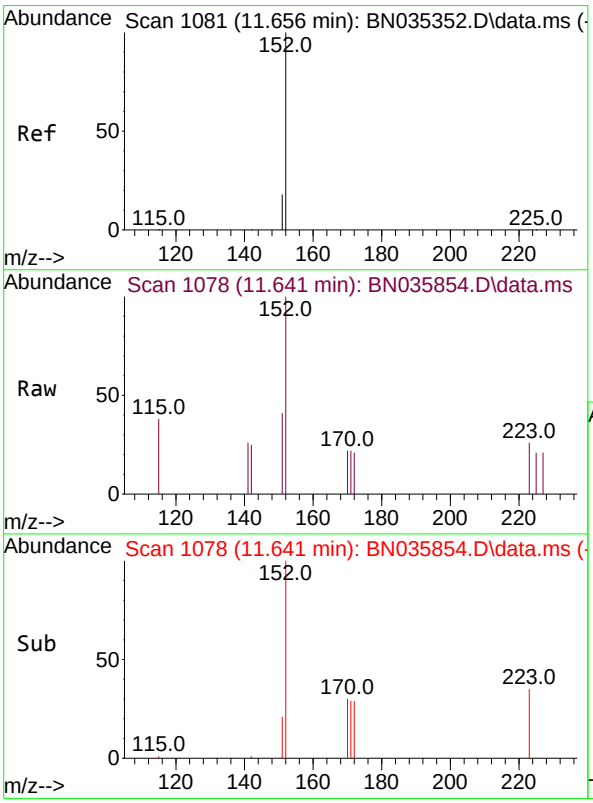
#9
Naphthalene
Concen: 0.029 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:128 Resp: 468

Ion	Ratio	Lower	Upper
128	100		
129	38.5	9.8	14.6#
127	35.9	11.4	17.2#

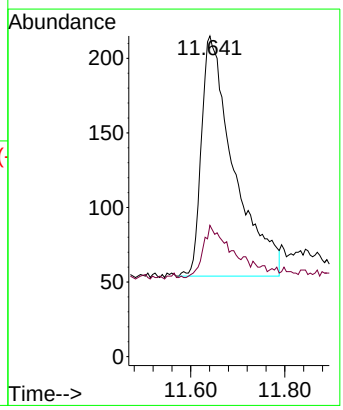


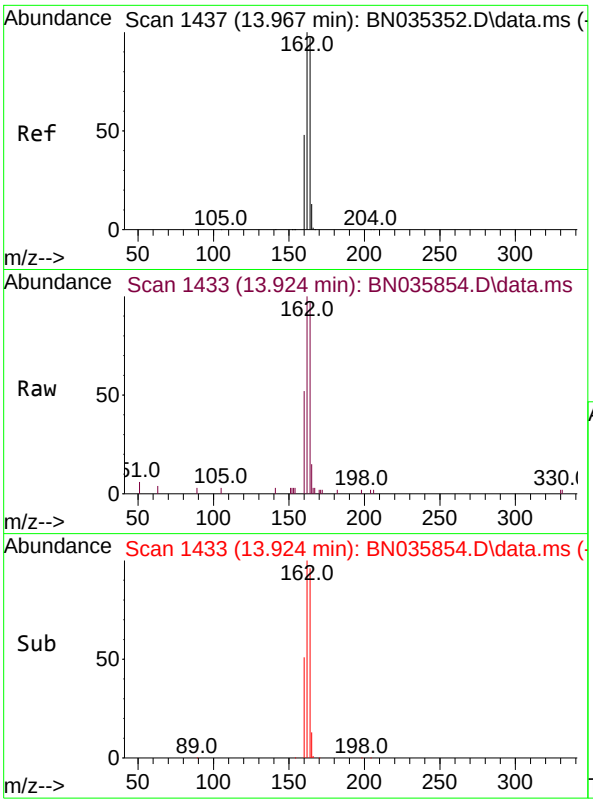


#11
2-Methylnaphthalene-d10
Concen: 0.080 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 768

Ion	Ratio	Lower	Upper
152	100		
151	16.5	16.6	25.0#



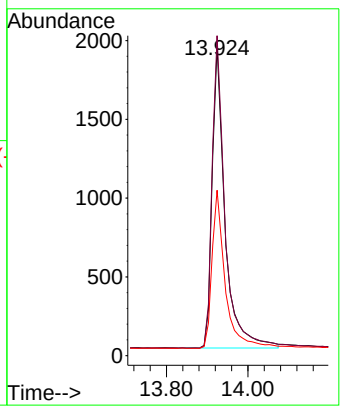


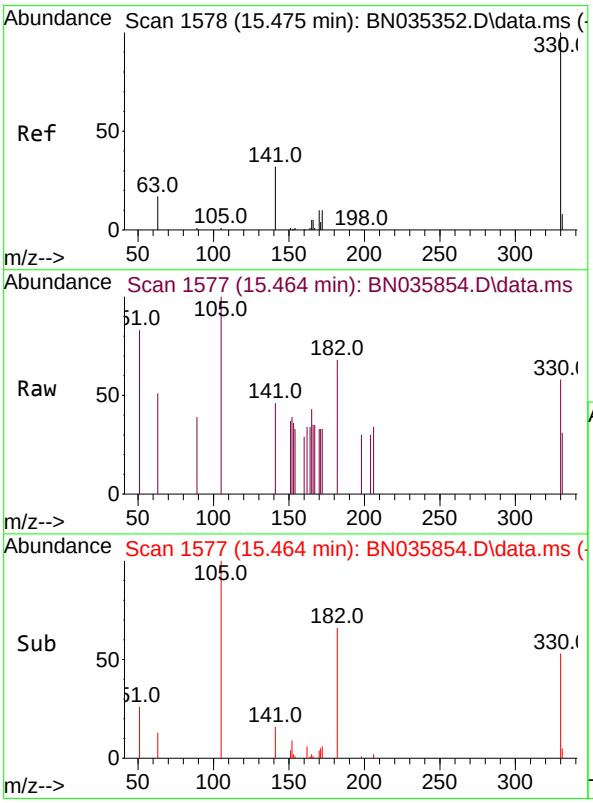
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:164 Resp: 4189

Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.2	123.2
160	53.5	40.1	60.1

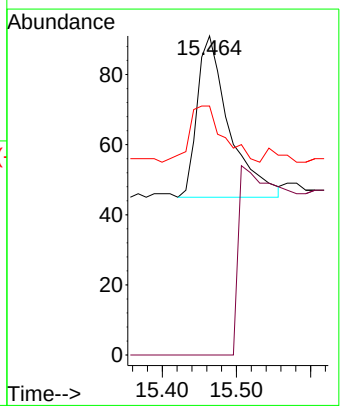


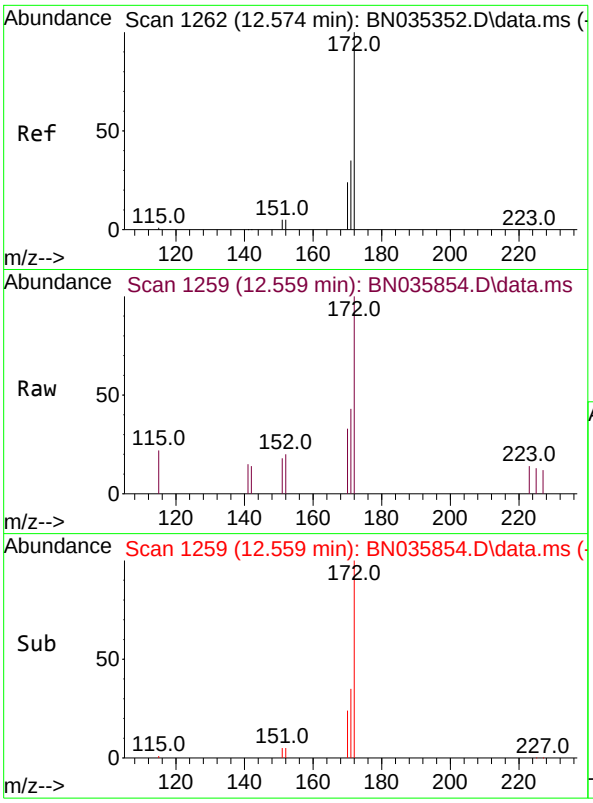


#14
2,4,6-Tribromophenol
Concen: 0.048 ng
RT: 15.464 min Scan# 1577
Delta R.T. 0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:330 Resp: 143

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	38.5	26.6	40.0



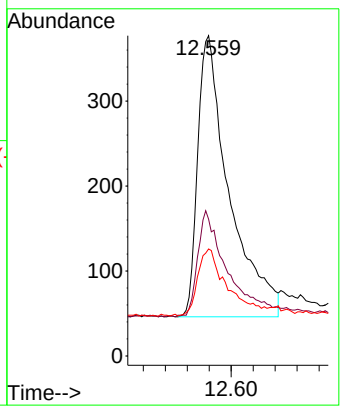


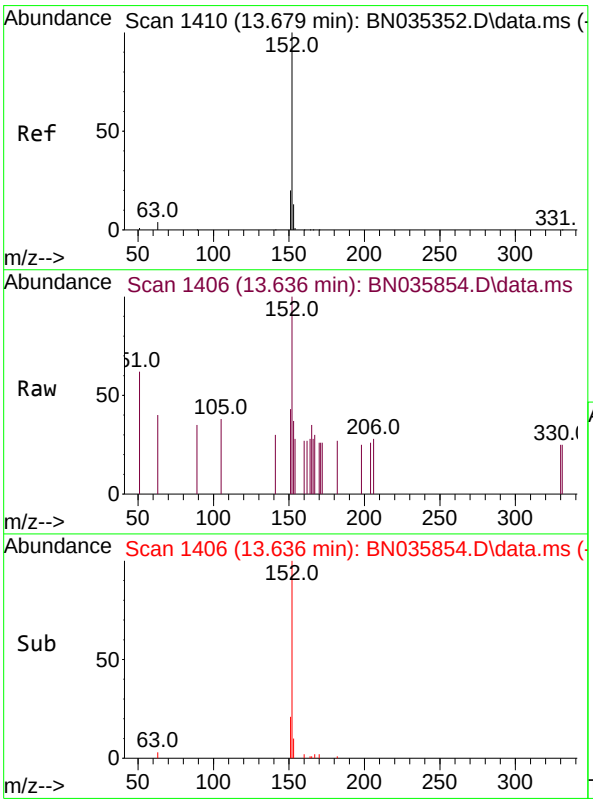
#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.559 min Scan# 1
Delta R.T. 0.015 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:172 Resp: 1316

Ion	Ratio	Lower	Upper
172	100		
171	42.7	29.0	43.4
170	33.4	19.8	29.8#

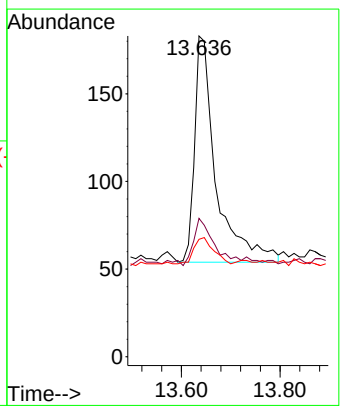


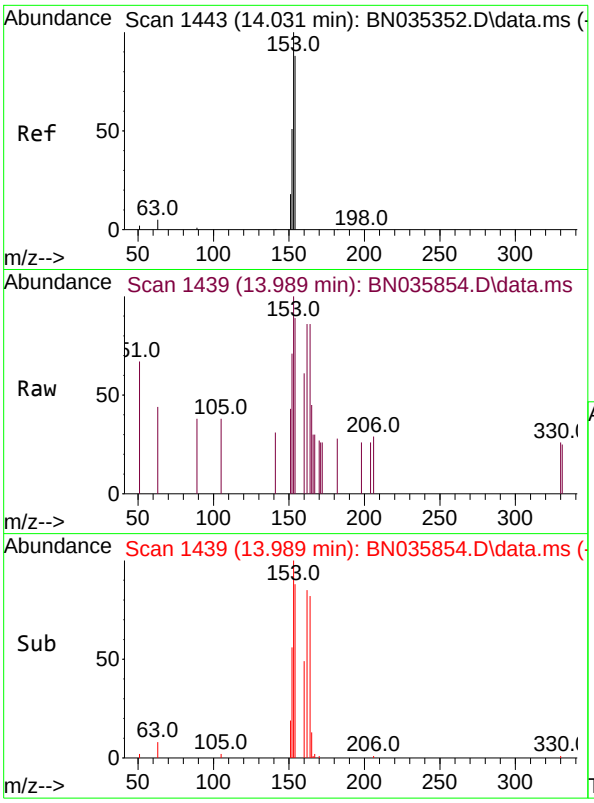


#16
Acenaphthylene
Concen: 0.022 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:152 Resp: 389

Ion	Ratio	Lower	Upper
152	100		
151	22.4	16.2	24.2
153	10.5	10.4	15.6



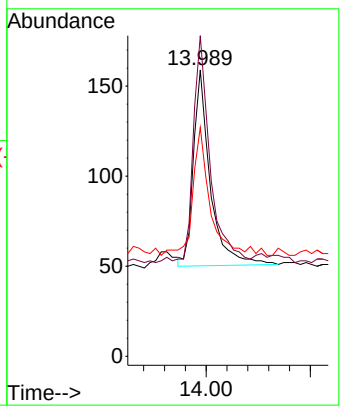


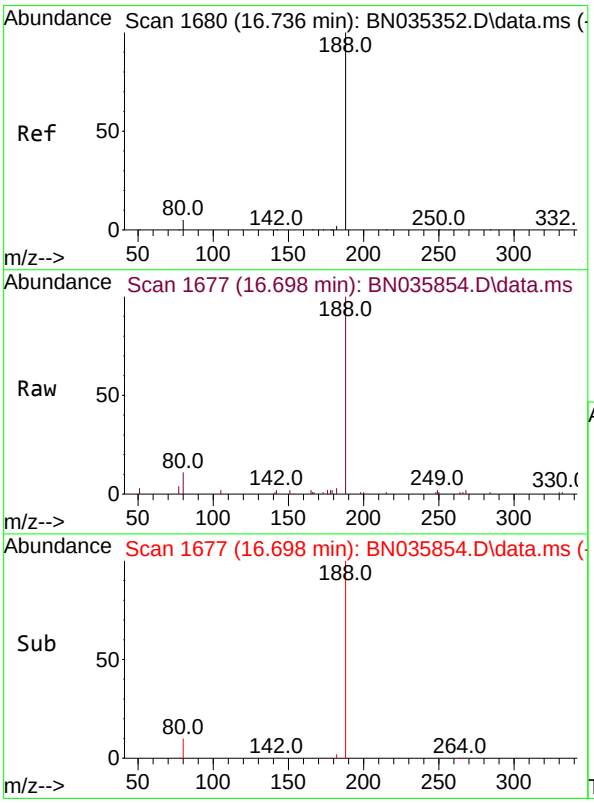
#17
Acenaphthene
Concen: 0.021 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:154 Resp: 244

Ion	Ratio	Lower	Upper
154	100		
153	111.9	92.6	139.0
152	65.2	49.0	73.6

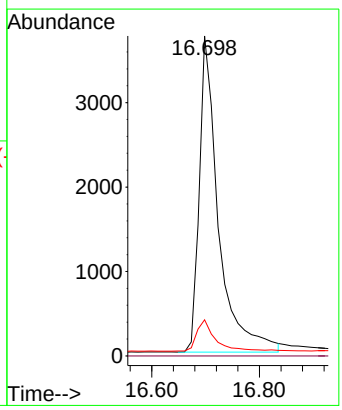


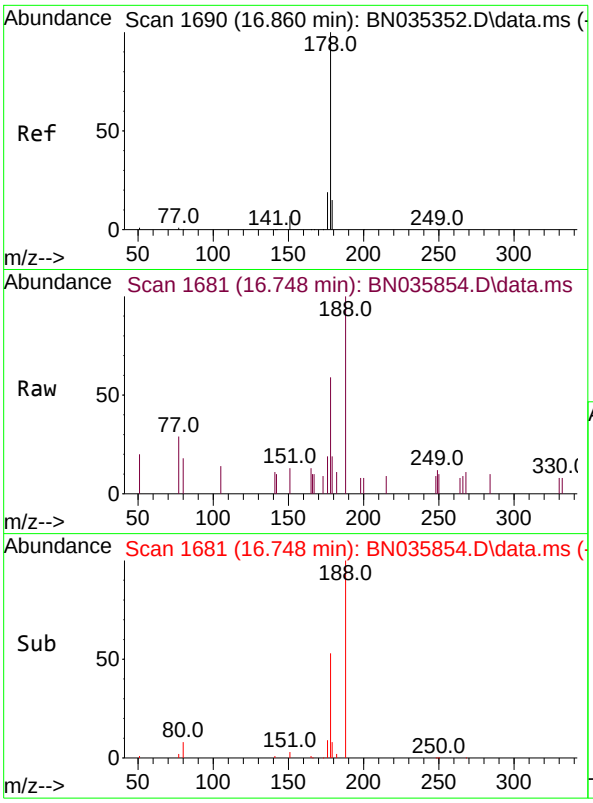


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:188 Resp: 9267

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	4.6	6.8#



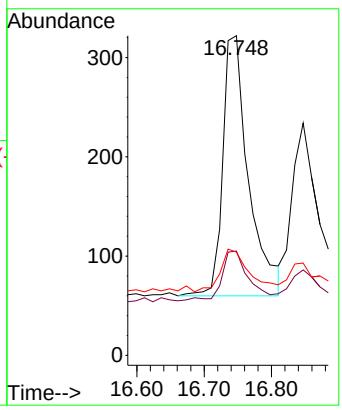


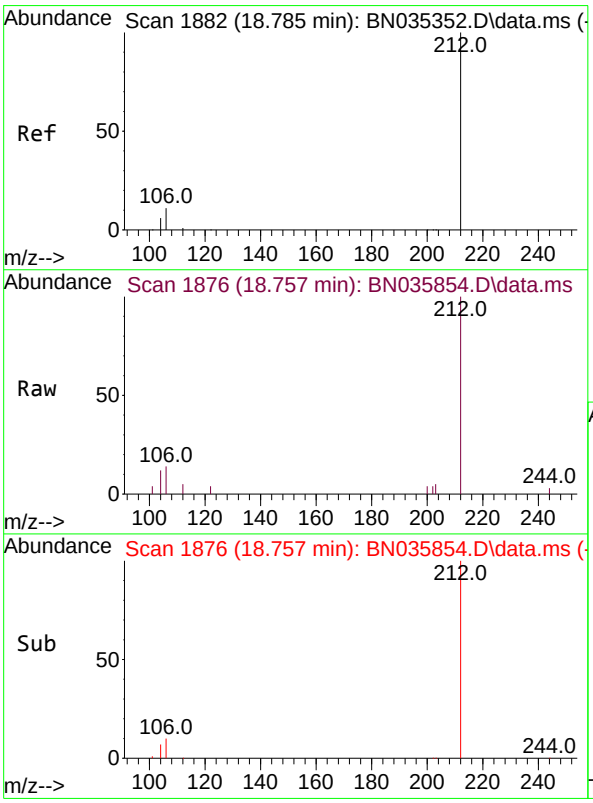
#26
Anthracene
Concen: 0.030 ng
RT: 16.748 min Scan# 1(
Delta R.T. -0.087 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:178 Resp: 698

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.0	22.6
179	18.6	12.6	18.8

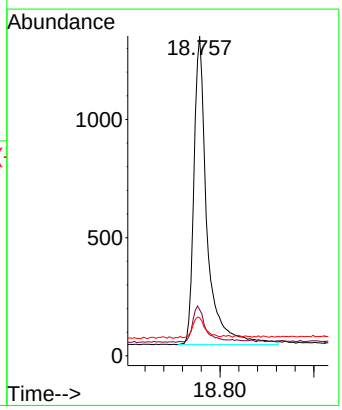


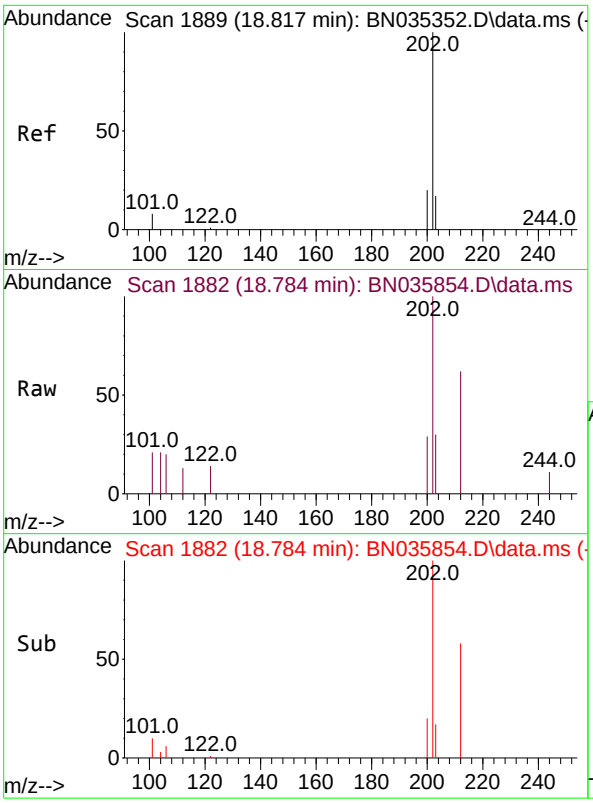


#27
Fluoranthene-d10
Concen: 0.096 ng
RT: 18.757 min Scan# 1876
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:212 Resp: 2532

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.4	5.3	7.9



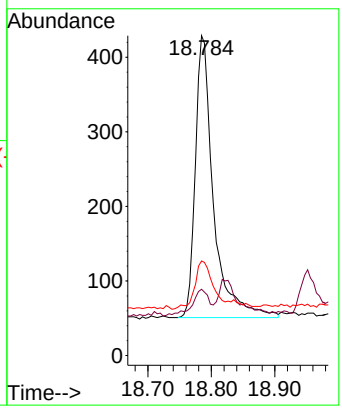


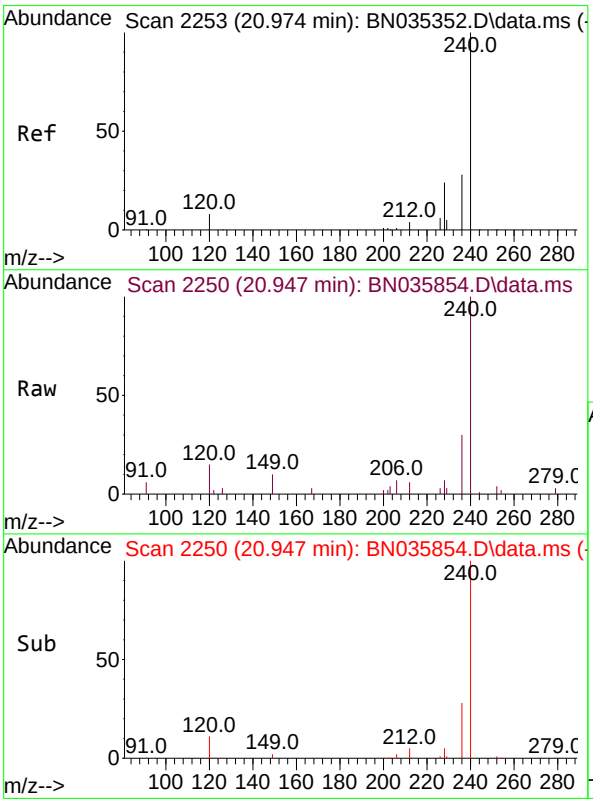
#28
Fluoranthene
Concen: 0.022 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:202 Resp: 749

Ion	Ratio	Lower	Upper
202	100		
101	8.4	7.4	11.0
203	17.1	13.7	20.5

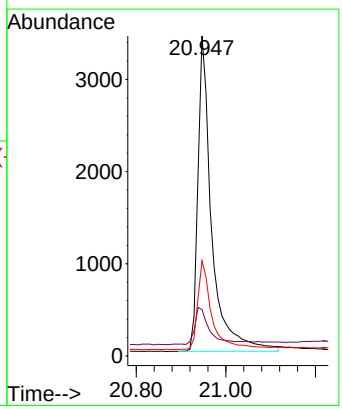


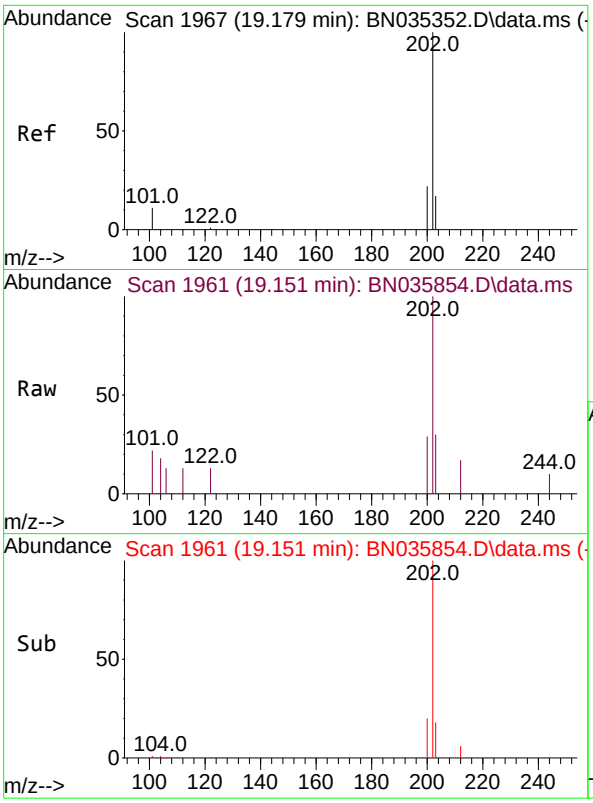


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:240 Resp: 7345

Ion	Ratio	Lower	Upper
240	100		
120	14.5	7.9	11.9#
236	29.8	22.9	34.3



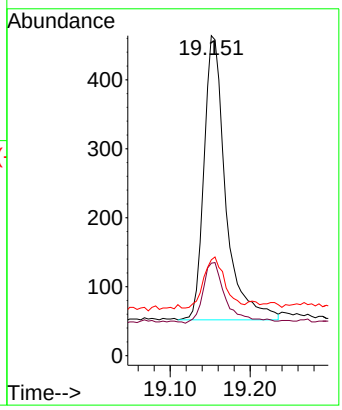


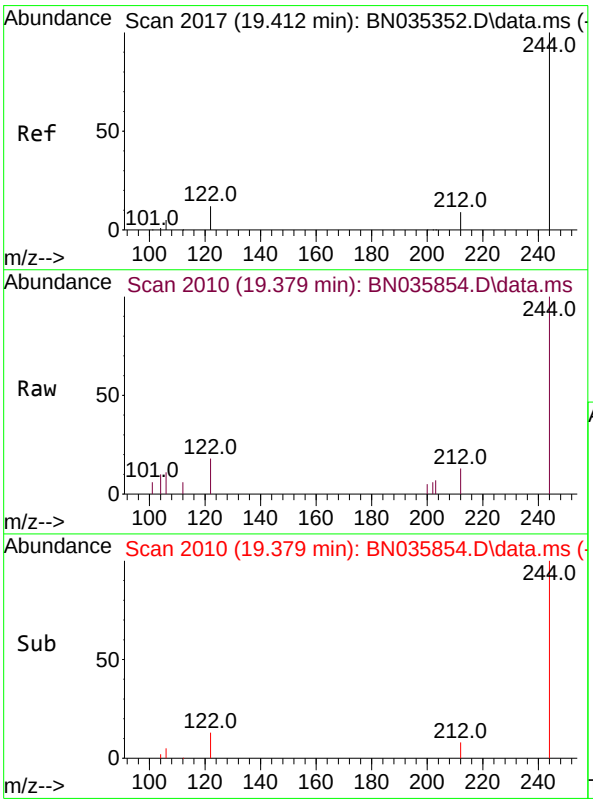
#30
Pyrene
Concen: 0.029 ng
RT: 19.151 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:202 Resp: 773

Ion	Ratio	Lower	Upper
202	100		
200	22.8	17.0	25.4
203	17.5	14.3	21.5

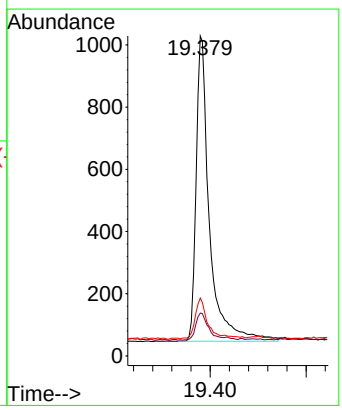


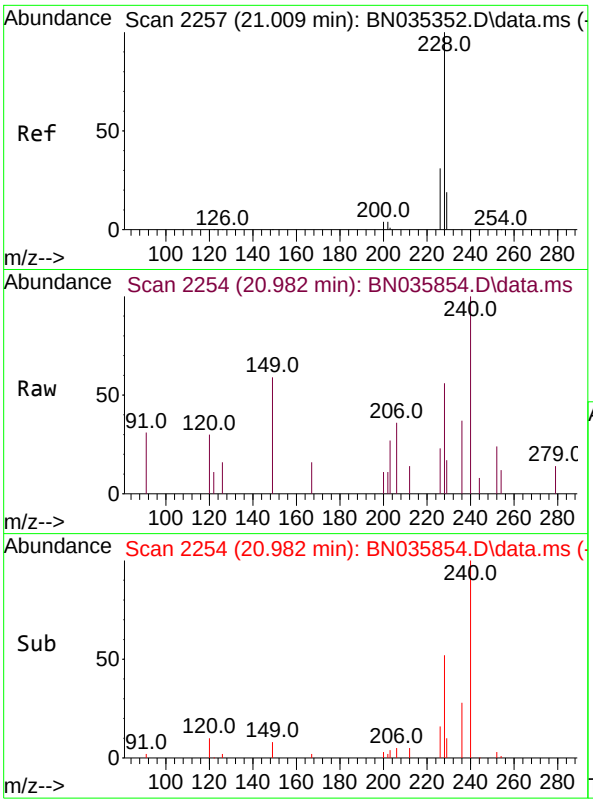


#31
Terphenyl-d14
Concen: 0.131 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.010 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:244 Resp: 1897

Ion	Ratio	Lower	Upper
244	100		
212	13.4	8.1	12.1#
122	18.1	10.3	15.5#



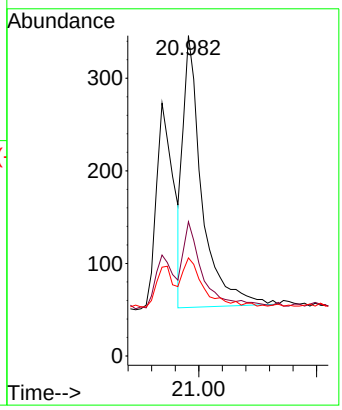


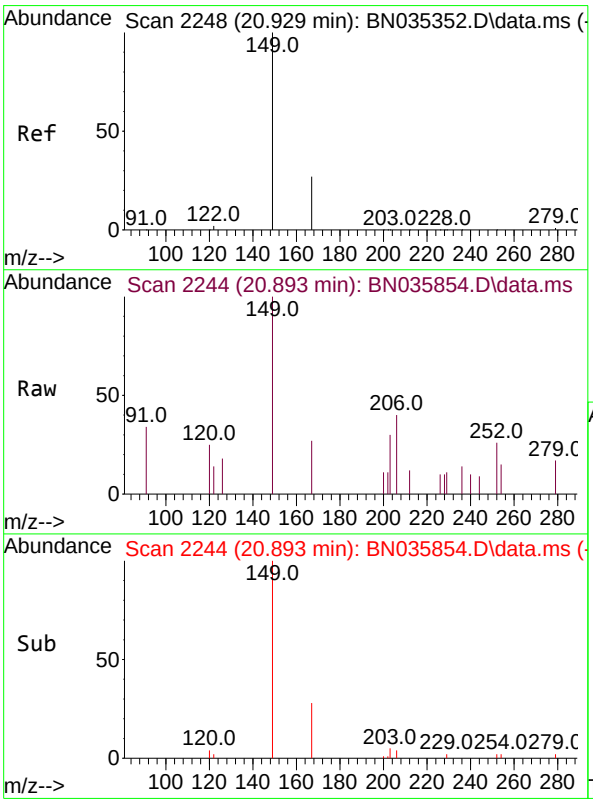
#33
Chrysene
Concen: 0.025 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:228 Resp: 652

Ion	Ratio	Lower	Upper
228	100		
226	41.9	24.6	37.0#
229	30.6	15.9	23.9#

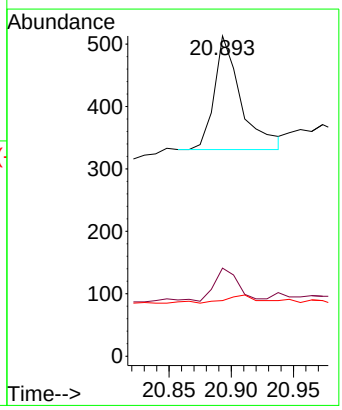


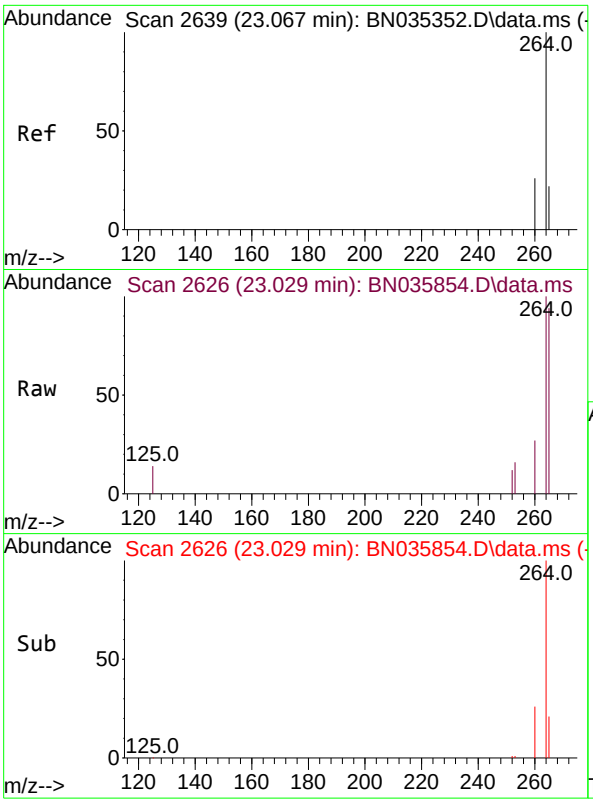


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.027 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:149 Resp: 272

Ion	Ratio	Lower	Upper
149	100		
167	23.2	22.2	33.4
279	7.4	2.7	4.1#



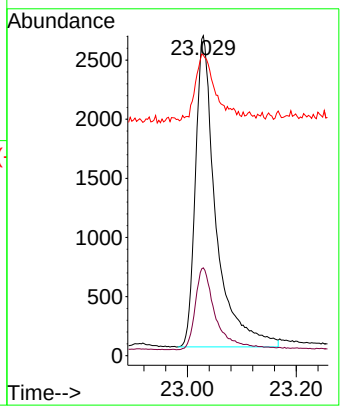


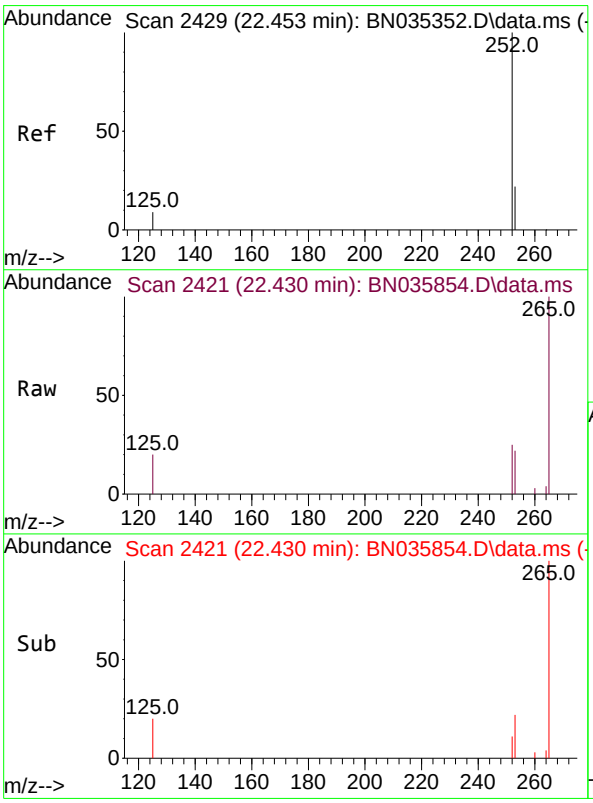
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Instrument :
BNA_N
ClientSampleId :
RE115D2-20241218DL

Tgt Ion:264 Resp: 6900

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.4	32.2
265	93.9	40.2	60.4#

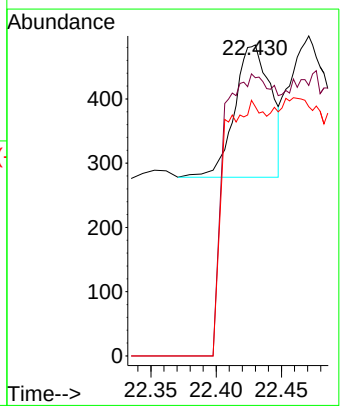




#37
Benzo(b)fluoranthene
Concen: 0.022 ng
RT: 22.430 min Scan# 2421
Delta R.T. -0.000 min
Lab File: BN035854.D
Acq: 26 Dec 2024 15:30

Tgt Ion:252 Resp: 554

Ion	Ratio	Lower	Upper
252	100		
253	89.5	19.6	29.4#
125	80.2	9.6	14.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

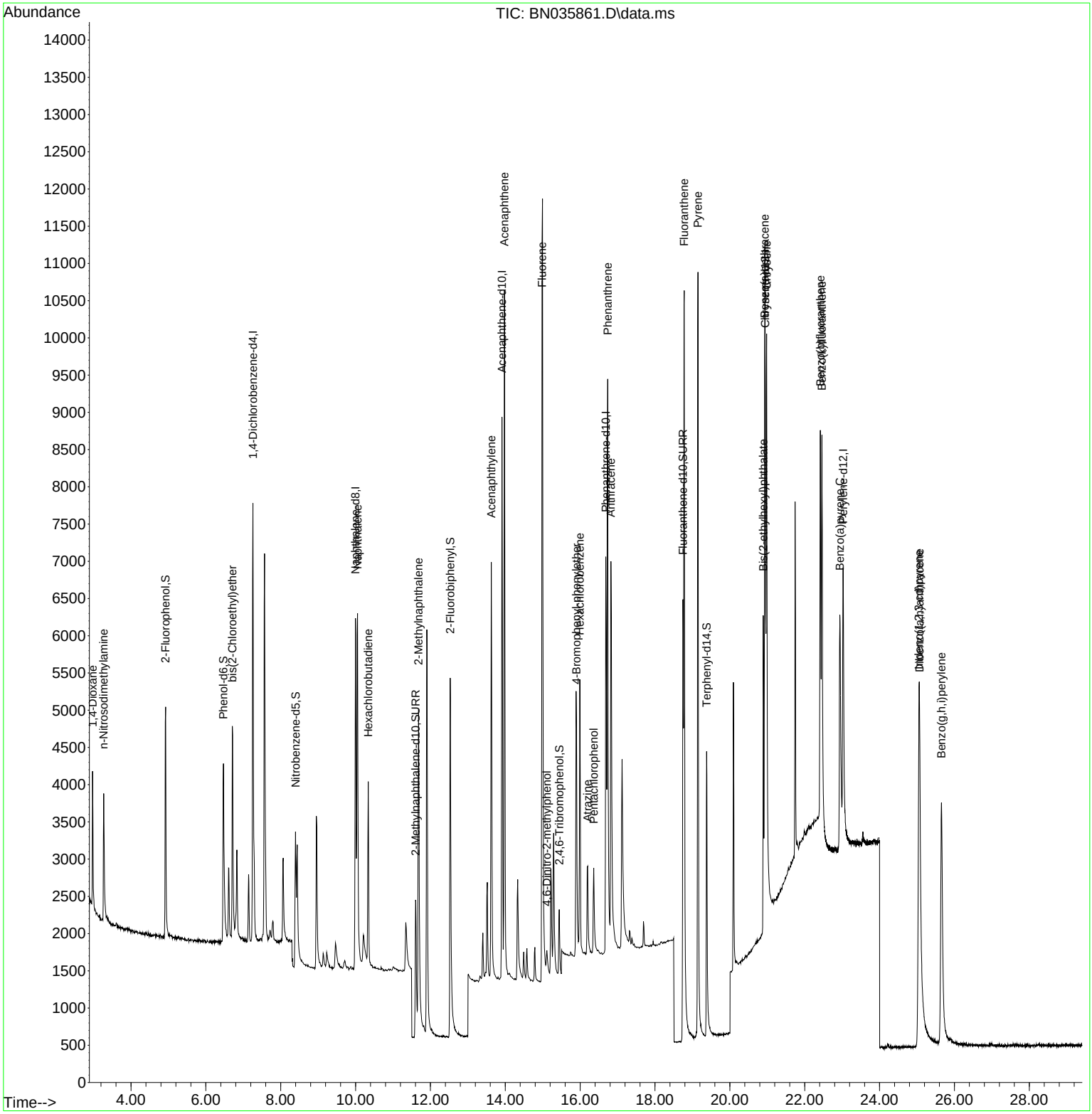
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng		#-0.01
29) Chrysene-d12	20.947	240	6021	0.400	ng		# 0.00
35) Perylene-d12	23.026	264	5699	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.924	112	2874	0.372	ng		-0.01
5) Phenol-d6	6.470	99	3155	0.340	ng		-0.02
8) Nitrobenzene-d5	8.397	82	2397	0.542	ng		-0.01
11) 2-Methylnaphthalene-d10	11.605	152	3987	0.352	ng		-0.02
14) 2,4,6-Tribromophenol	15.443	330	1008	0.318	ng		-0.01
15) 2-Fluorobiphenyl	12.528	172	6619	0.392	ng		-0.02
27) Fluoranthene-d10	18.747	212	8643	0.325	ng		-0.01
31) Terphenyl-d14	19.379	244	5407	0.455	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.974	88	1215	0.412	ng		96
3) n-Nitrosodimethylamine	3.271	42	1021	0.415	ng	#	90
6) bis(2-Chloroethyl)ether	6.708	93	2725	0.349	ng		98
9) Naphthalene	10.052	128	7516	0.394	ng		100
10) Hexachlorobutadiene	10.340	225	1992	0.452	ng	#	99
12) 2-Methylnaphthalene	11.682	142	4745	0.347	ng		99
16) Acenaphthylene	13.625	152	6923	0.369	ng		100
17) Acenaphthene	13.978	154	4776	0.383	ng		99
18) Fluorene	14.983	166	6478	0.363	ng		99
20) 4,6-Dinitro-2-methylph...	15.111	198	453	0.492	ng	#	67
21) 4-Bromophenyl-phenylether	15.904	248	2071	0.378	ng	#	96
22) Hexachlorobenzene	15.991	284	3015	0.468	ng		98
23) Atrazine	16.202	200	1507	0.386	ng		94
24) Pentachlorophenol	16.363	266	846	0.302	ng	#	84
25) Phenanthrene	16.736	178	9697	0.377	ng		100
26) Anthracene	16.822	178	8100	0.348	ng		99
28) Fluoranthene	18.780	202	11145	0.321	ng		99
30) Pyrene	19.147	202	11492	0.517	ng		99
32) Benzo(a)anthracene	20.929	228	6901	0.328	ng		99
33) Chrysene	20.983	228	9578	0.441	ng		99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4069	0.489	ng		99
36) Indeno(1,2,3-cd)pyrene	25.050	276	9030	0.405	ng		98
37) Benzo(b)fluoranthene	22.418	252	11803	0.566	ng	#	92
38) Benzo(k)fluoranthene	22.459	252	9638	0.470	ng	#	90
39) Benzo(a)pyrene	22.939	252	6641	0.387	ng	#	82
40) Dibenzo(a,h)anthracene	25.070	278	6633	0.377	ng	#	91
41) Benzo(g,h,i)perylene	25.652	276	8300	0.452	ng		95

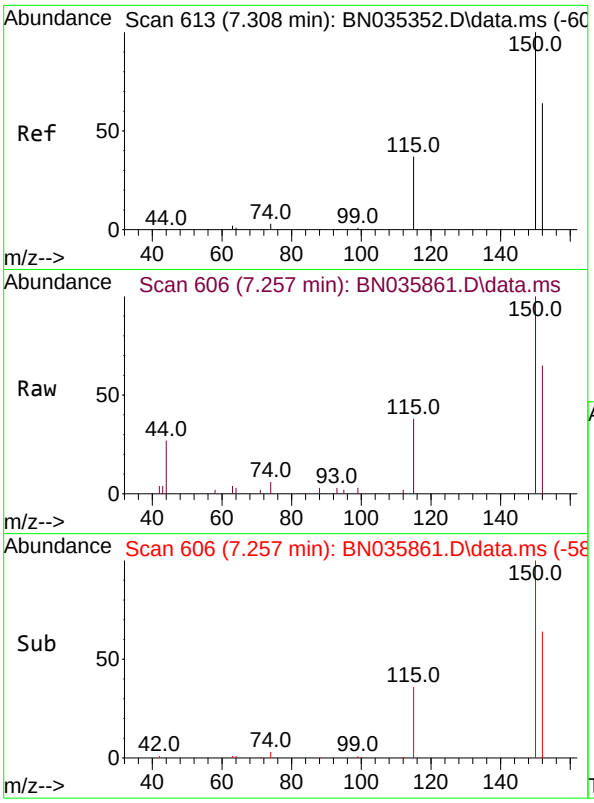
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



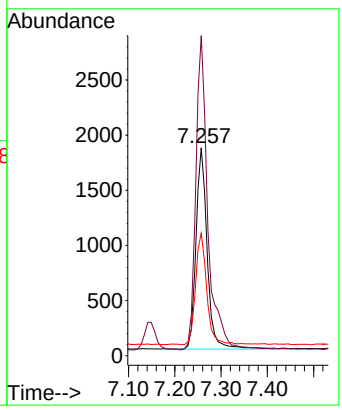


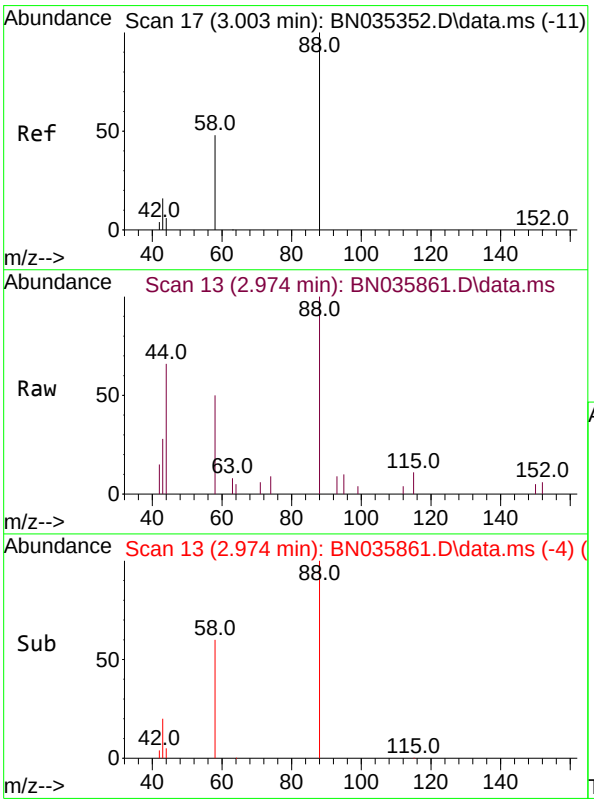
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3087

Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.0	186.0
115	58.9	49.6	74.4

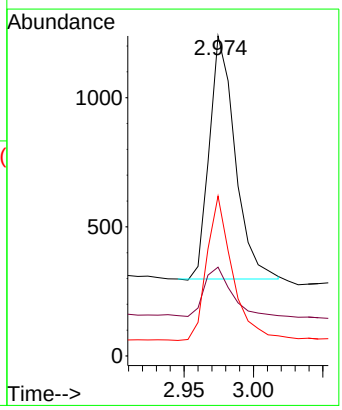


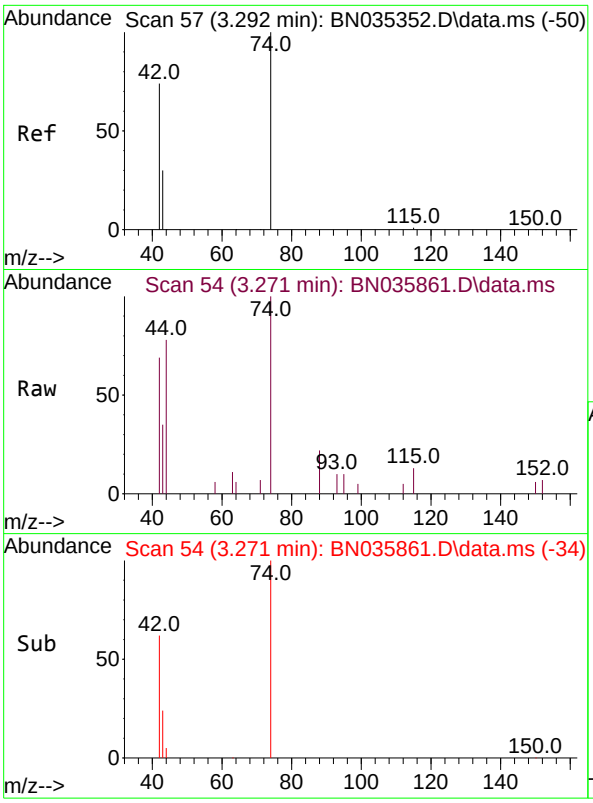


#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 88 Resp: 1215

Ion	Ratio	Lower	Upper
88	100		
43	20.1	17.2	25.8
58	59.1	44.5	66.7



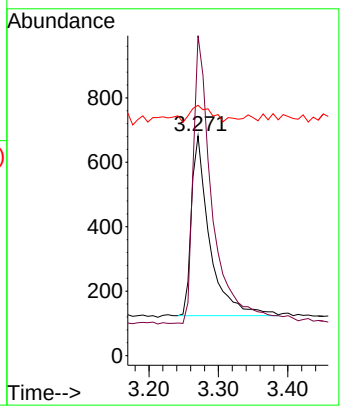


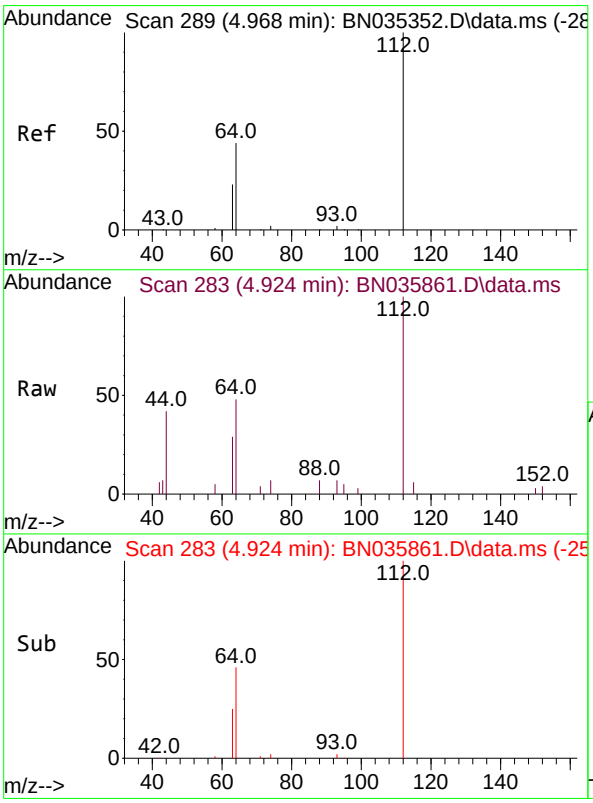
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1021

Ion	Ratio	Lower	Upper
42	100		
74	169.1	124.9	187.3
44	10.6	2.2	3.4#

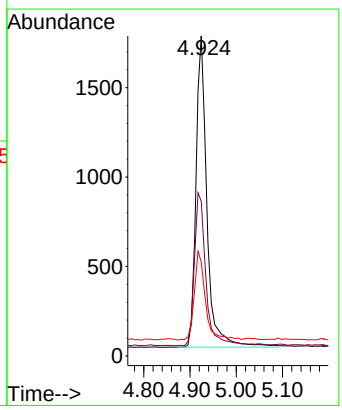


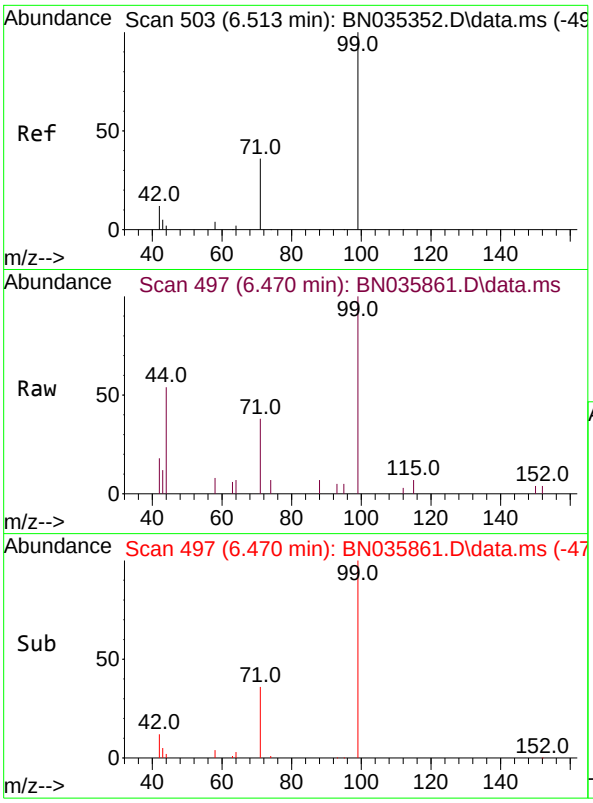


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:112 Resp: 2874

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	28.9	21.0	31.6



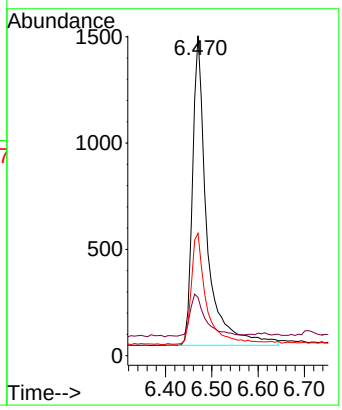


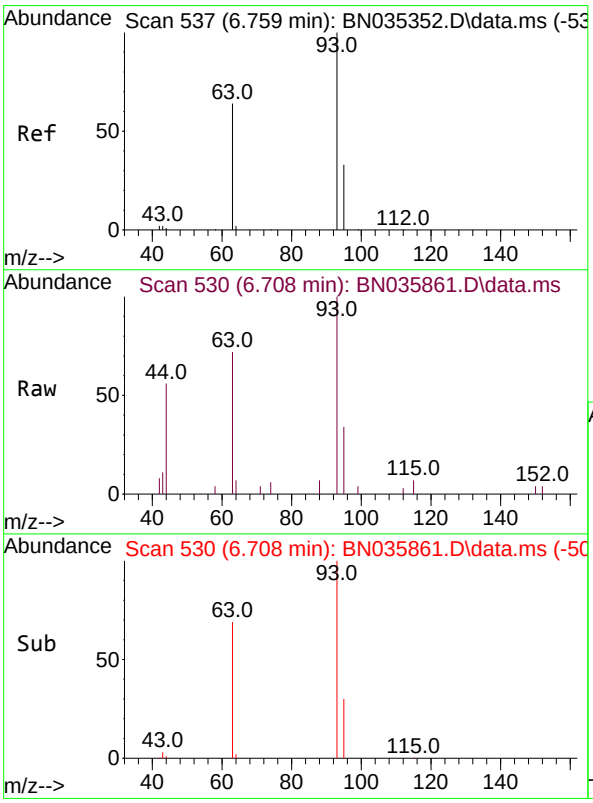
#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 3155

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9

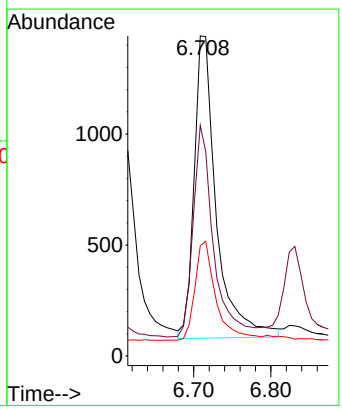


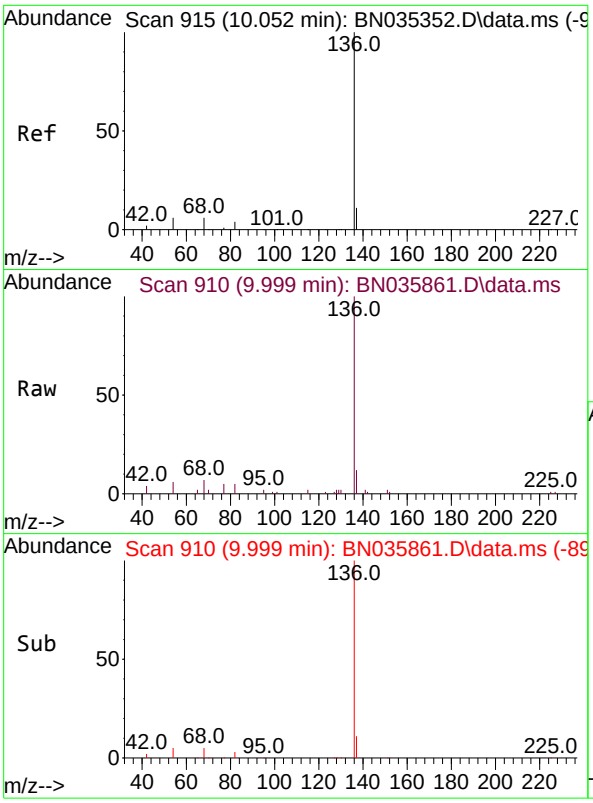


#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725

Ion	Ratio	Lower	Upper
93	100		
63	64.1	50.4	75.6
95	31.0	25.7	38.5



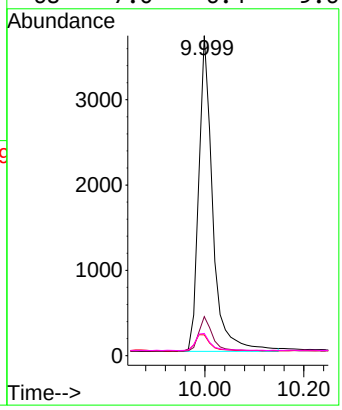


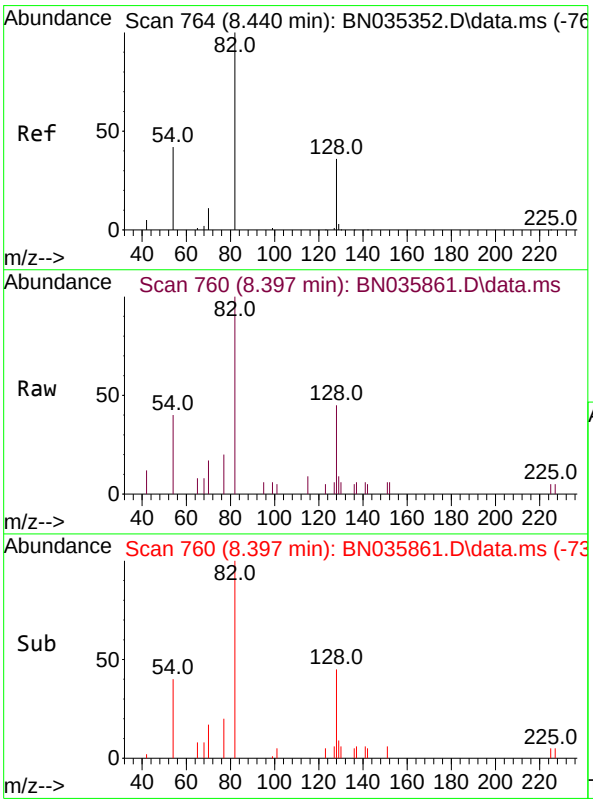
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 7239

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.5	6.1	9.1
68	7.0	6.4	9.6

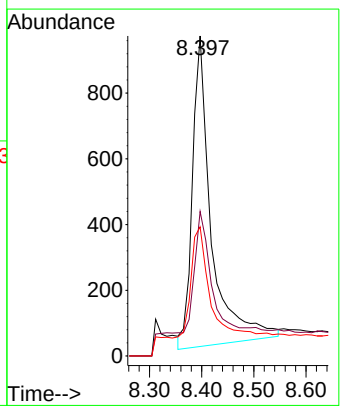


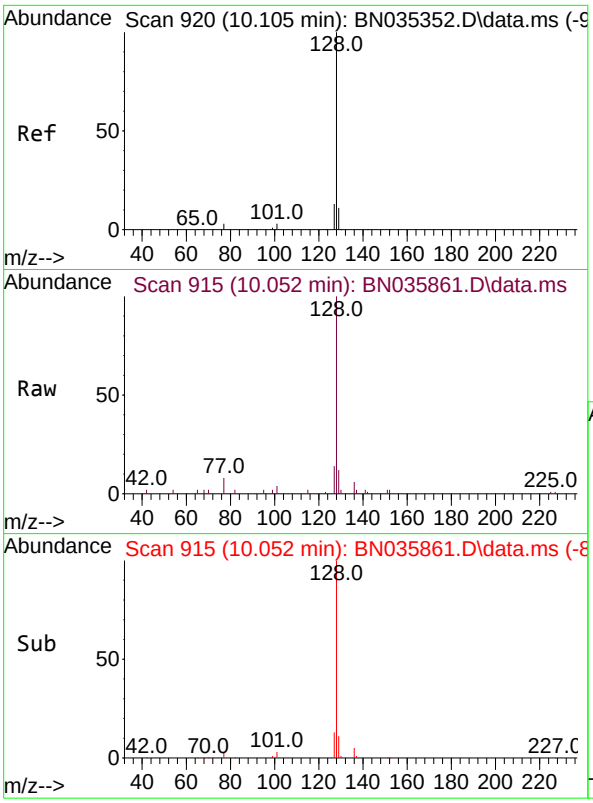


#8
Nitrobenzene-d5
Concen: 0.542 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 82 Resp: 2397

Ion	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.3	36.7	55.1



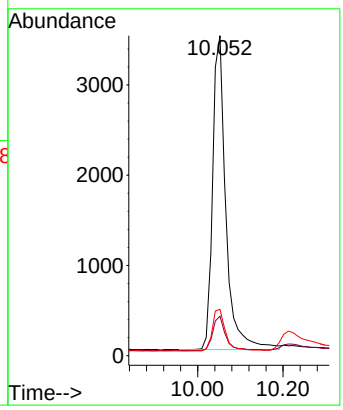


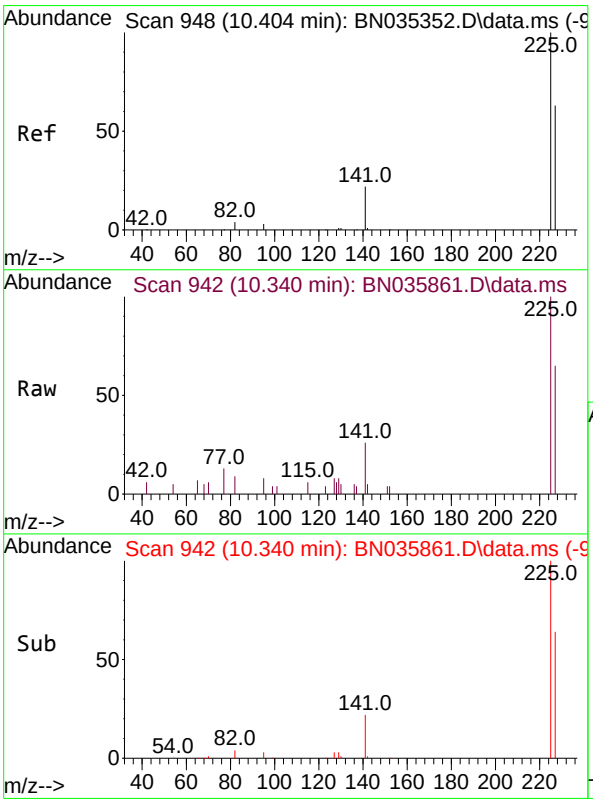
#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 7516

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.5	11.4	17.2

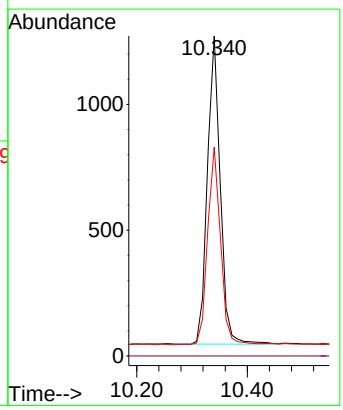


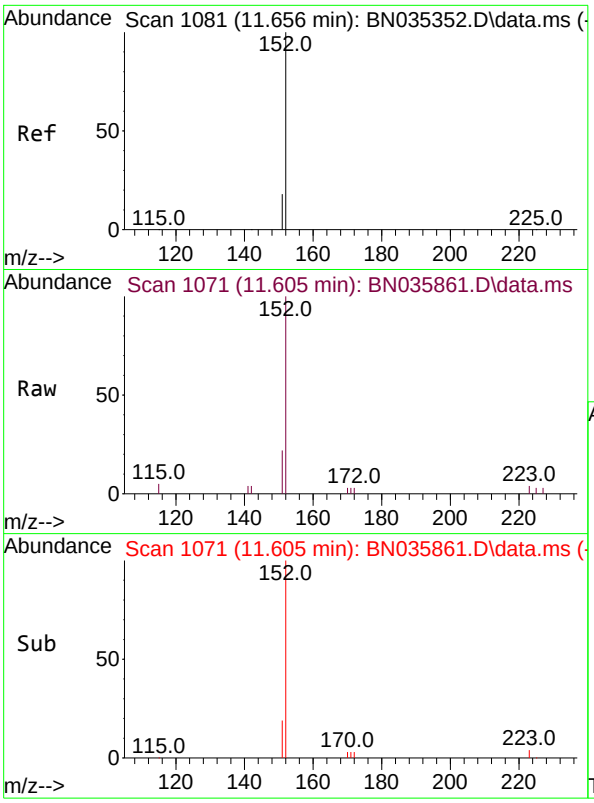


#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:225 Resp: 1992

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9



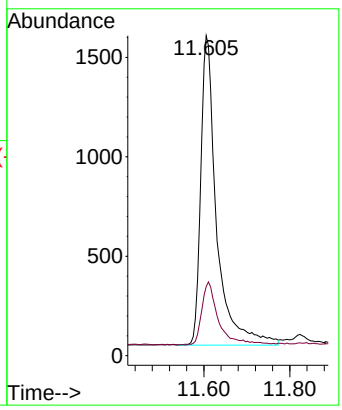


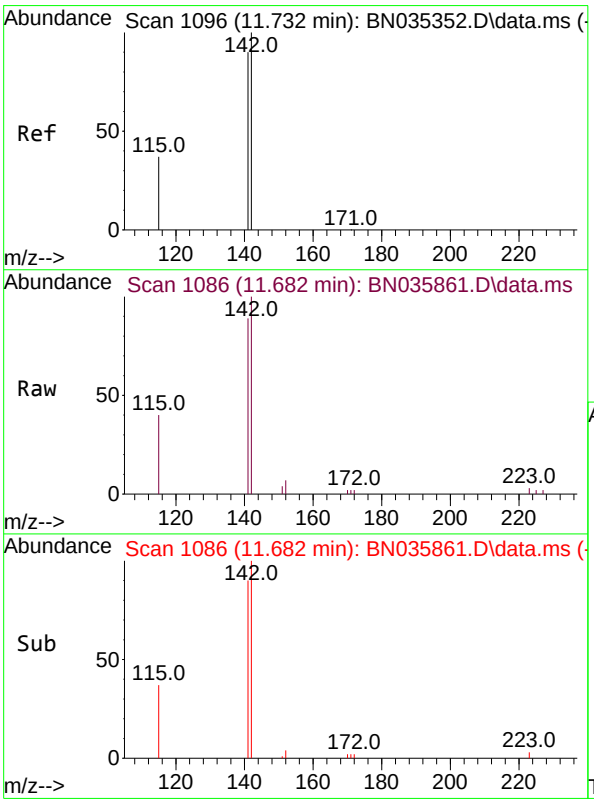
#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3987

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0

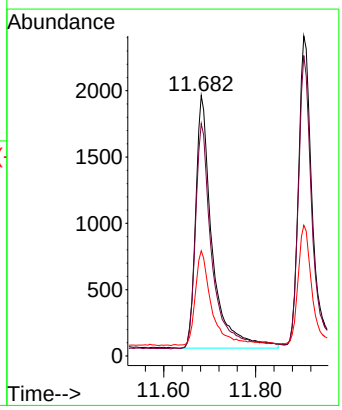


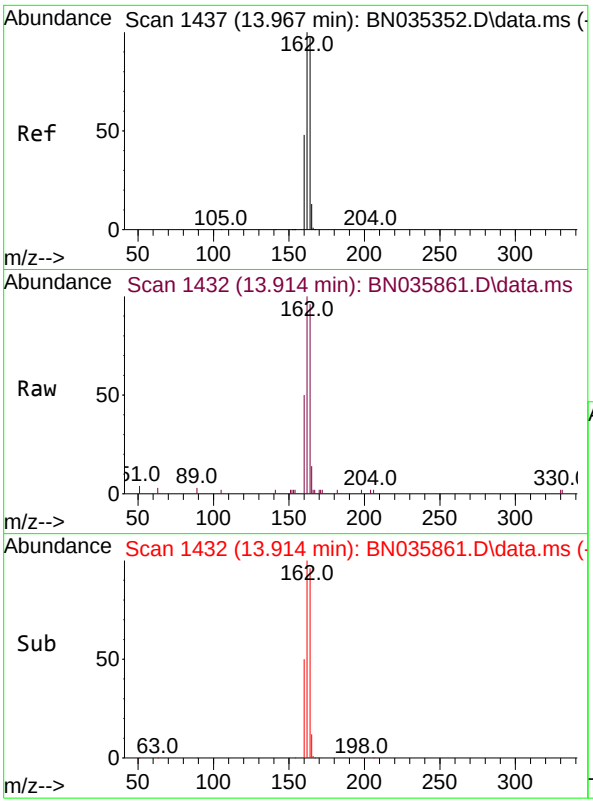


#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:142 Resp: 4745

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.4	31.4	47.0



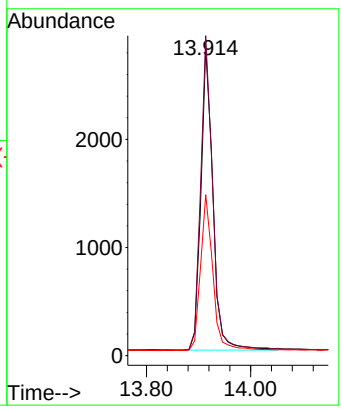


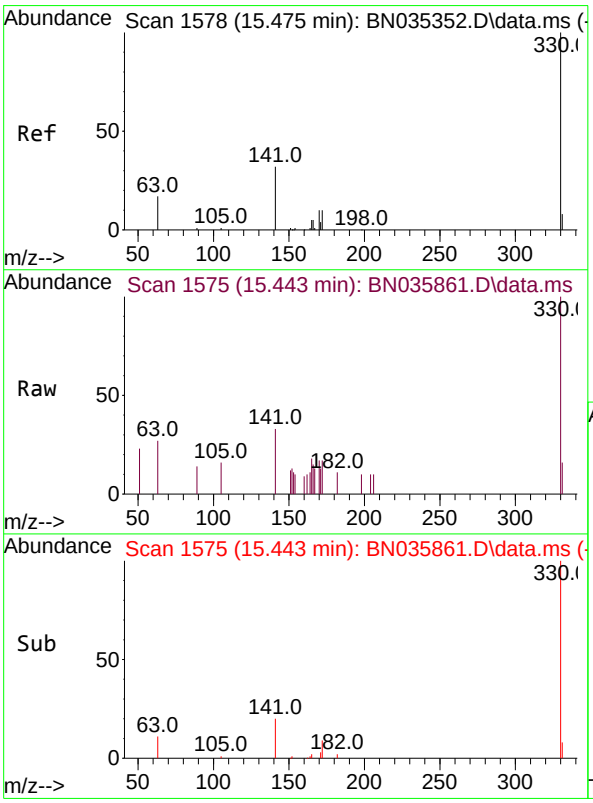
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 4472

Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.2	123.2
160	52.3	40.1	60.1

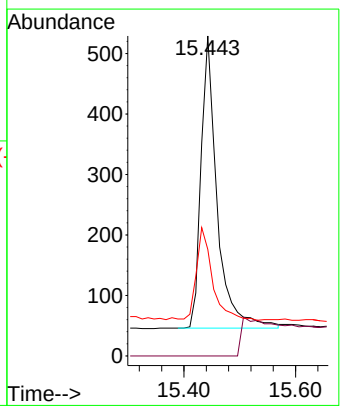


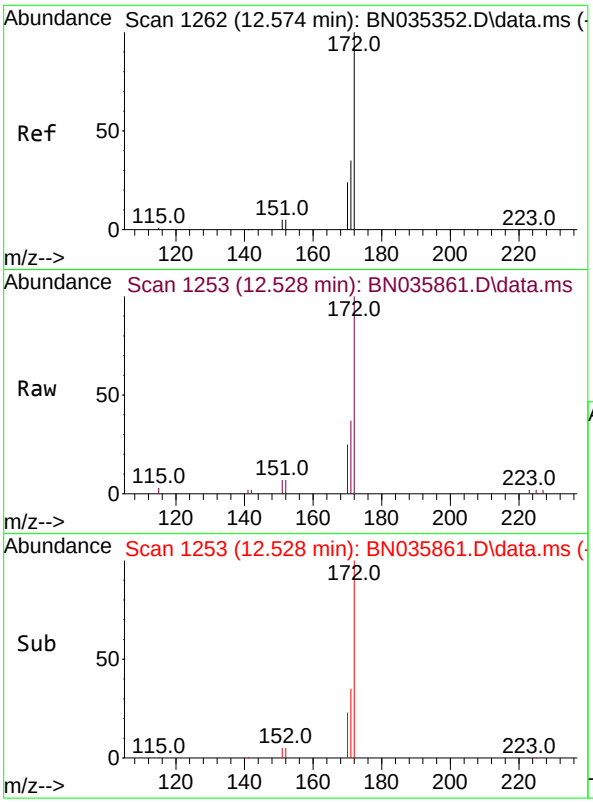


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.5	26.6	40.0



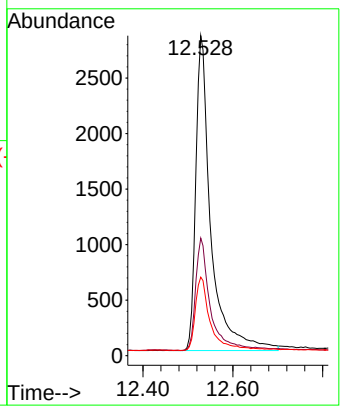


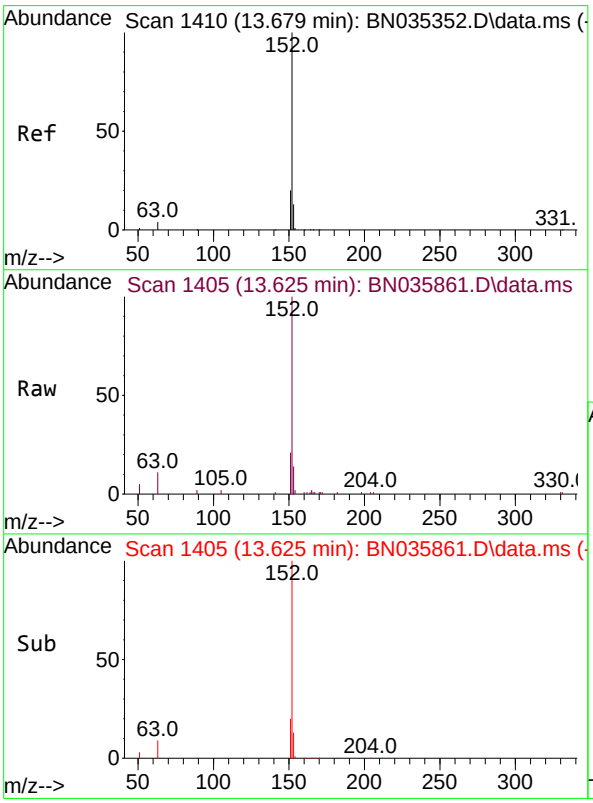
#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 6619

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.0	43.4
170	24.5	19.8	29.8

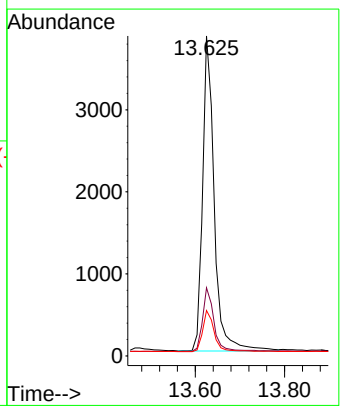


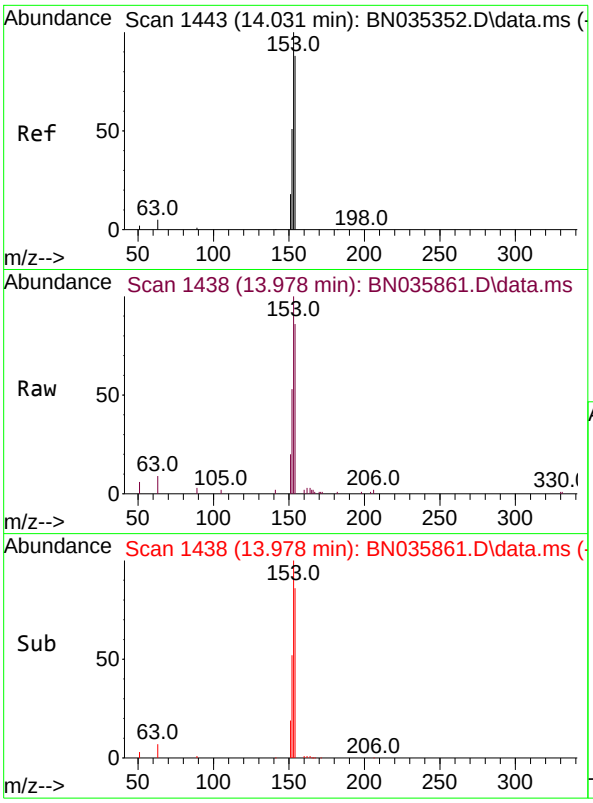


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 6923

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.0	10.4	15.6



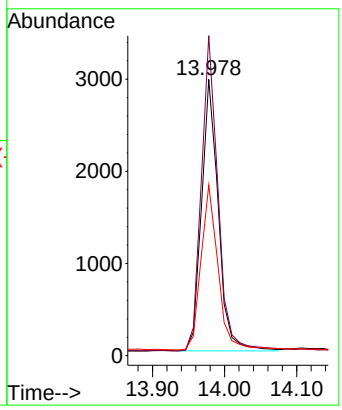


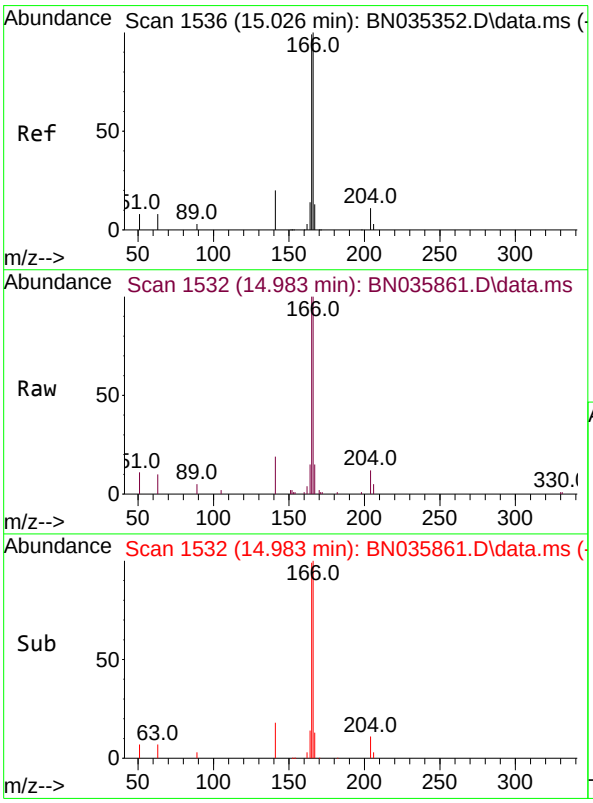
#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 4776

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	62.6	49.0	73.6

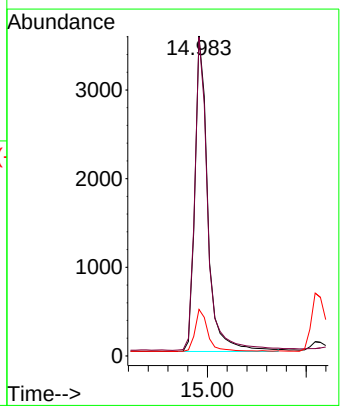


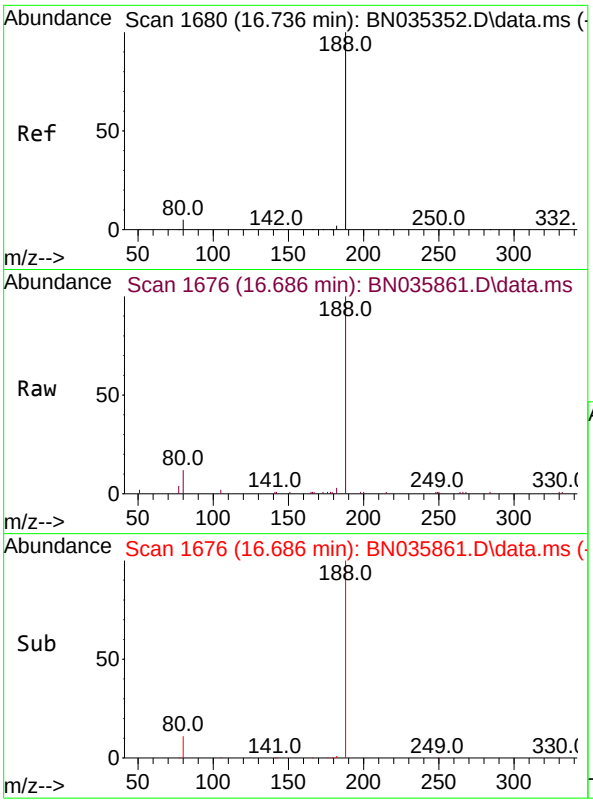


#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.6	10.8	16.2



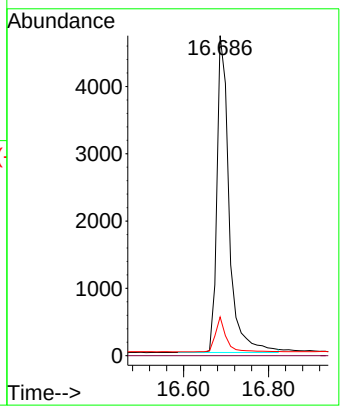


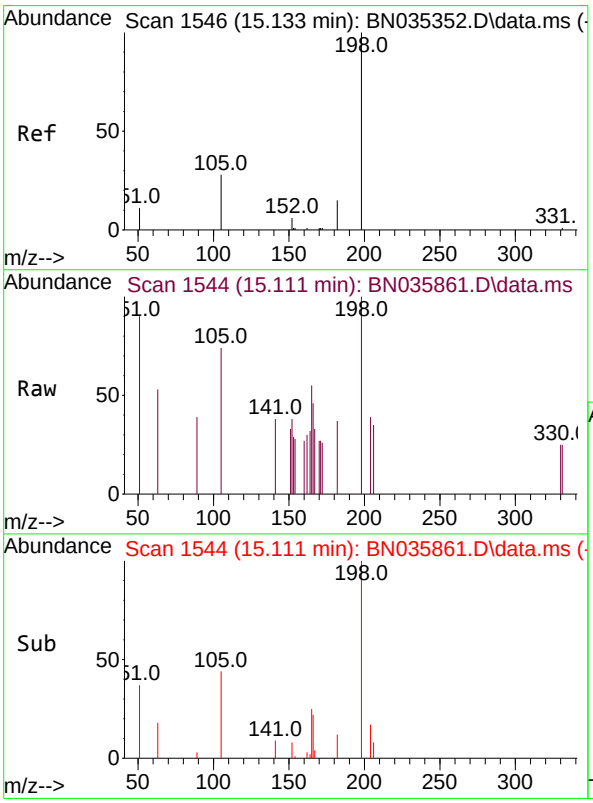
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9373

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	4.6	6.8#

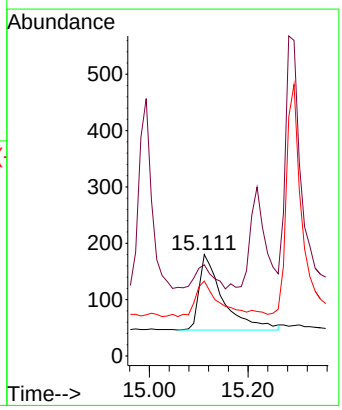


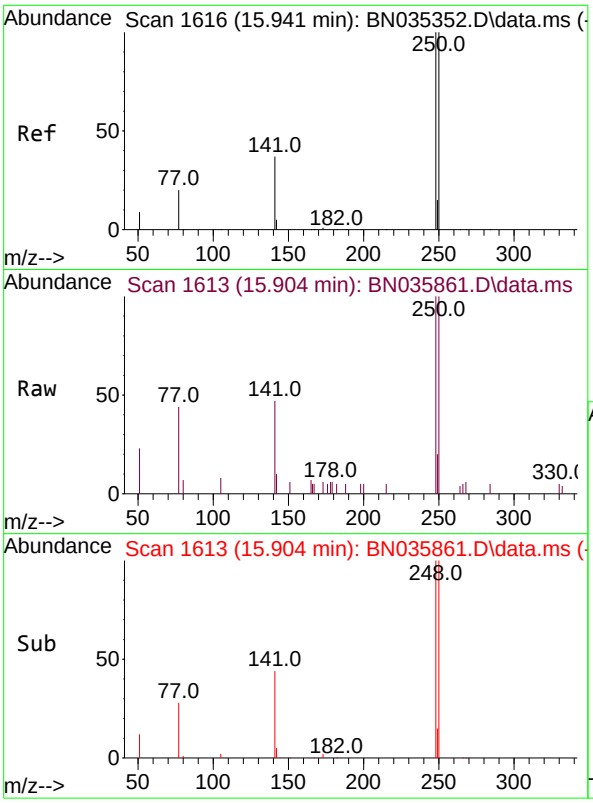


#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:198 Resp: 453

Ion	Ratio	Lower	Upper
198	100		
51	90.0	46.5	69.7#
105	73.9	45.3	67.9#



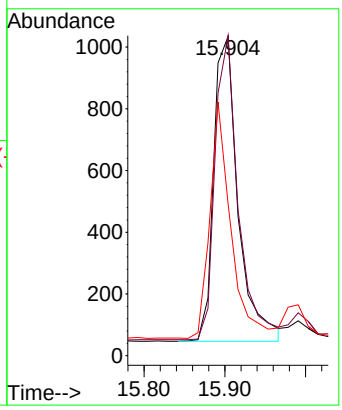


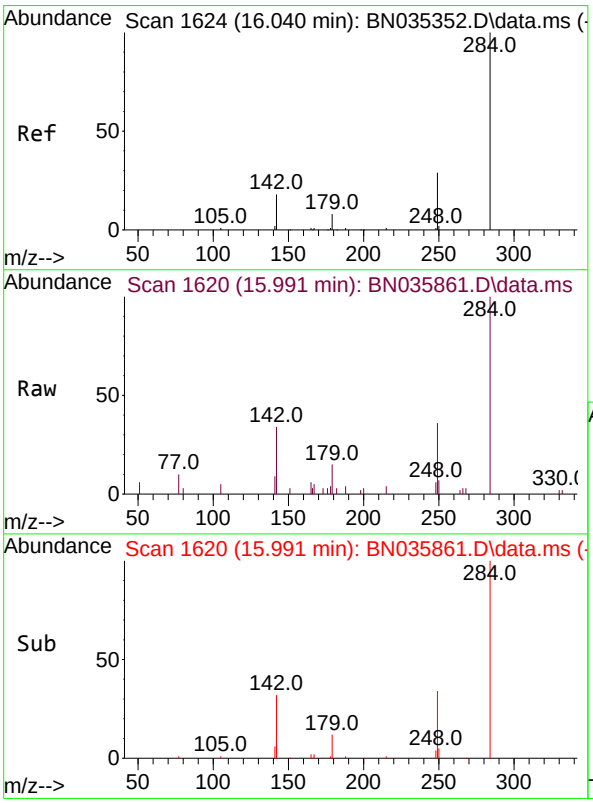
#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2071

Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.6	120.8
141	47.4	31.5	47.3#

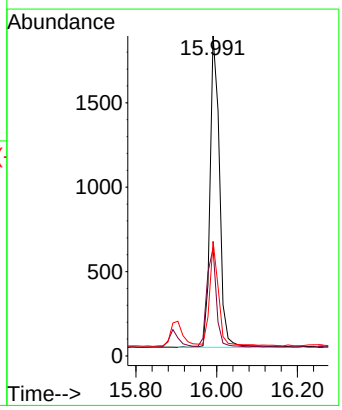


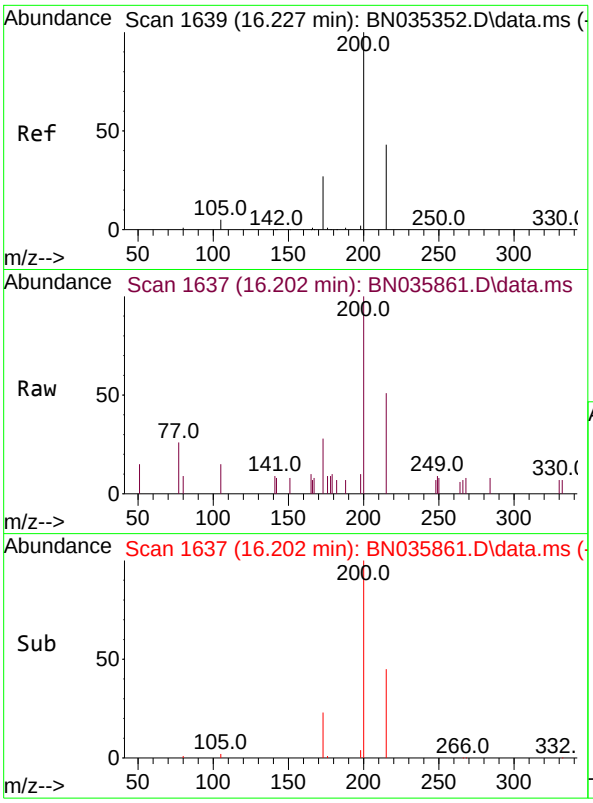


#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015

Ion	Ratio	Lower	Upper
284	100		
142	31.5	26.7	40.1
249	31.2	24.6	36.8



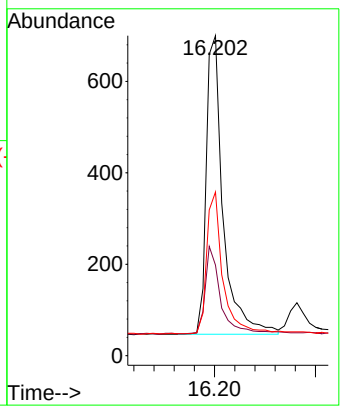


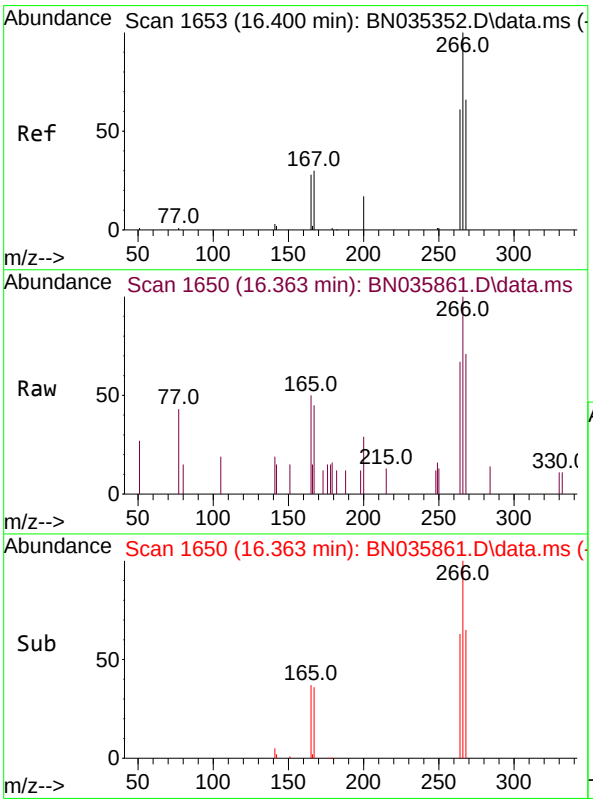
#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1507

Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	51.1	36.9	55.3

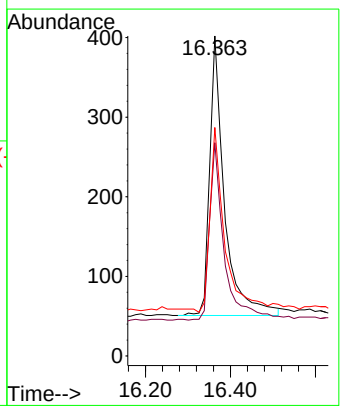


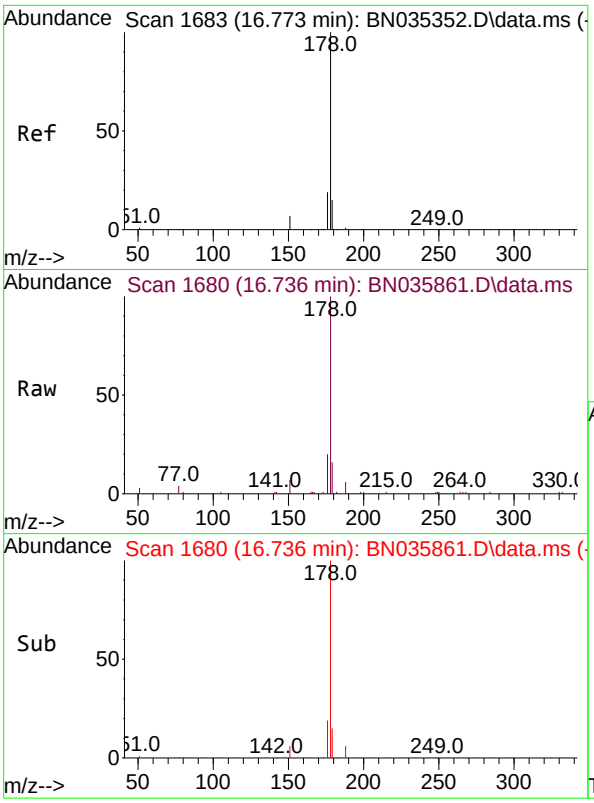


#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846

Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	67.7	43.3	64.9#



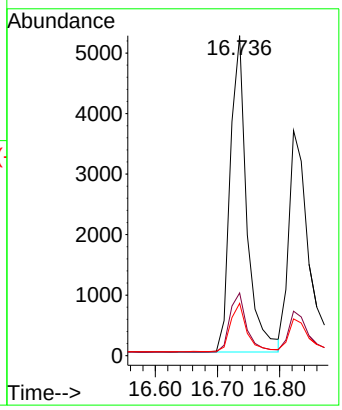


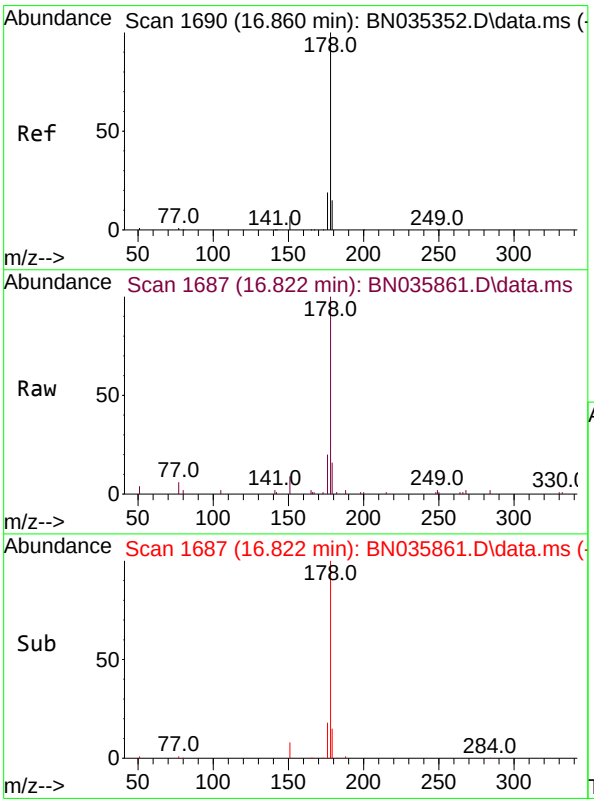
#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 9697

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.3	12.3	18.5

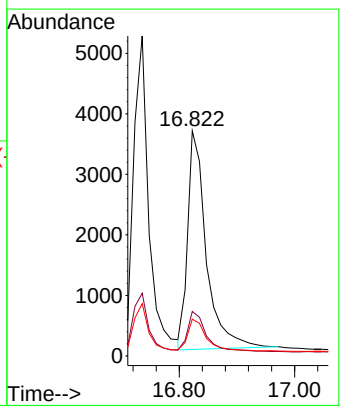


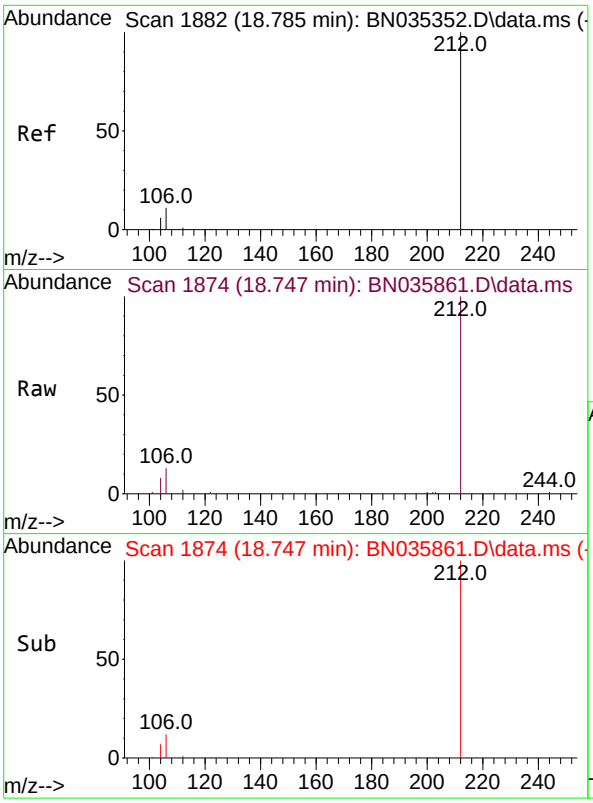


#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 8100

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.3	12.6	18.8



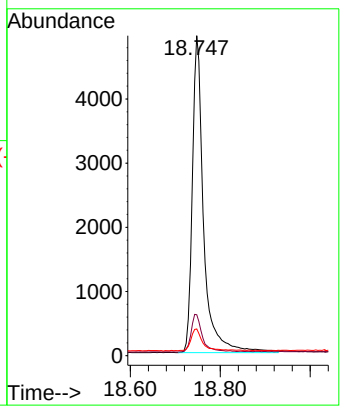


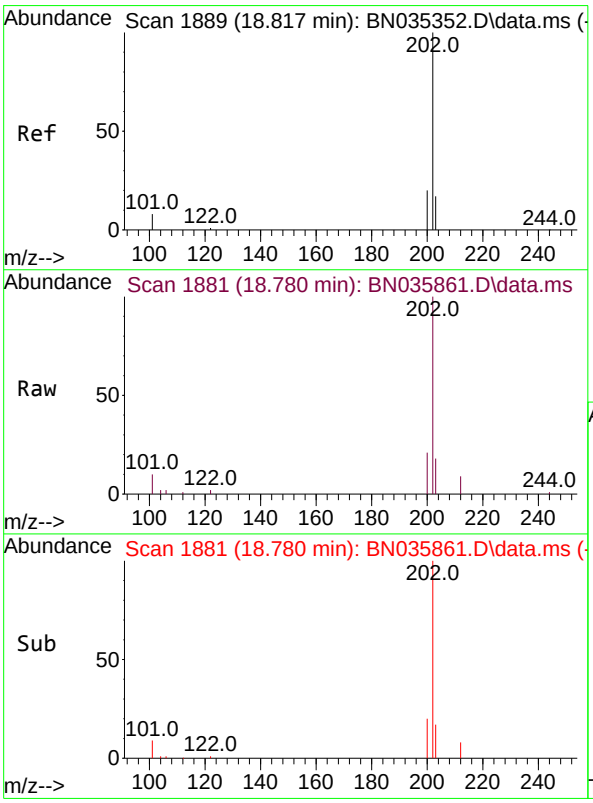
#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 8643

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	7.0	5.3	7.9

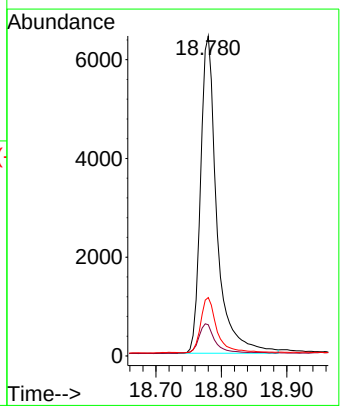


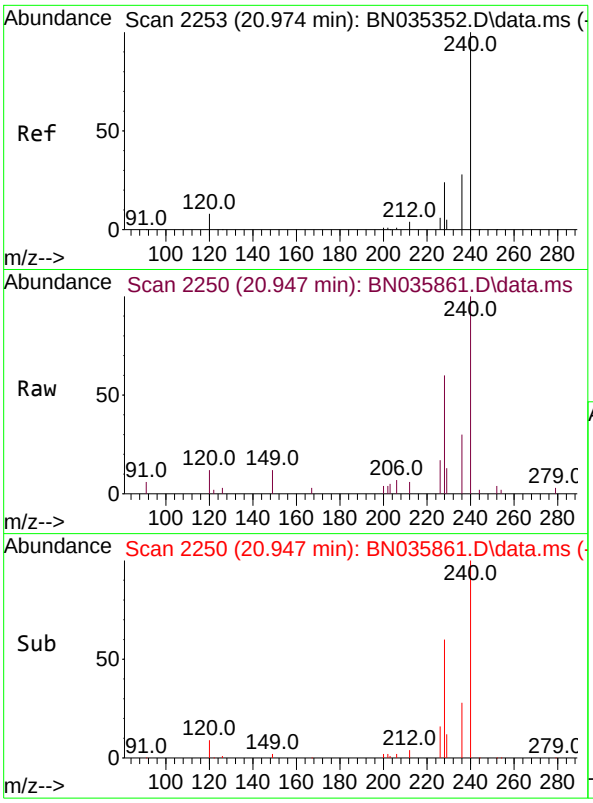


#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.4	11.0
203	17.4	13.7	20.5



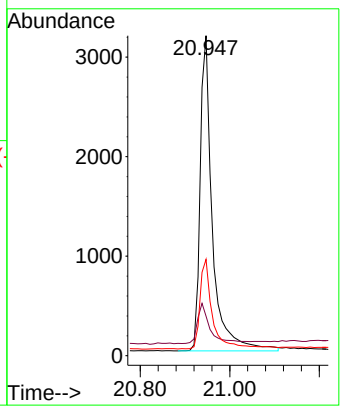


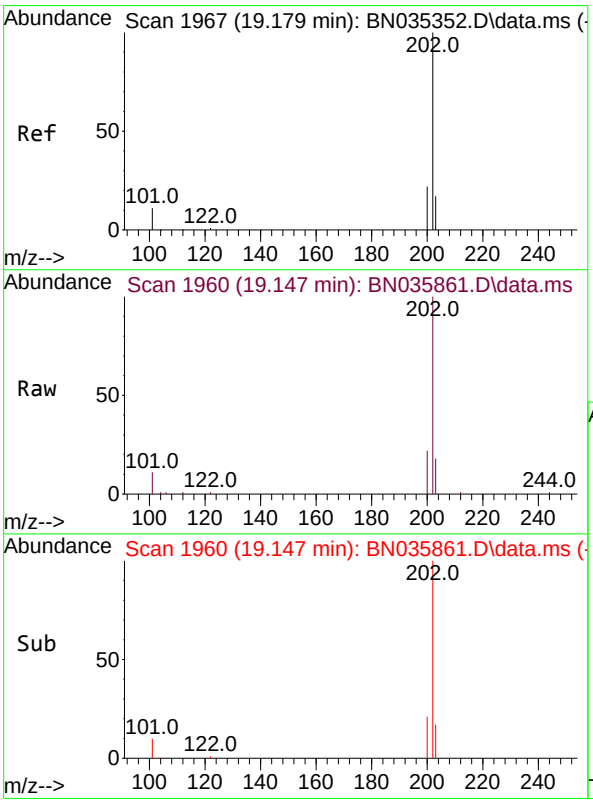
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 6021

Ion	Ratio	Lower	Upper
240	100		
120	12.3	7.9	11.9#
236	30.1	22.9	34.3

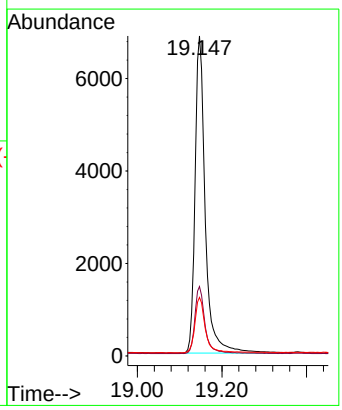


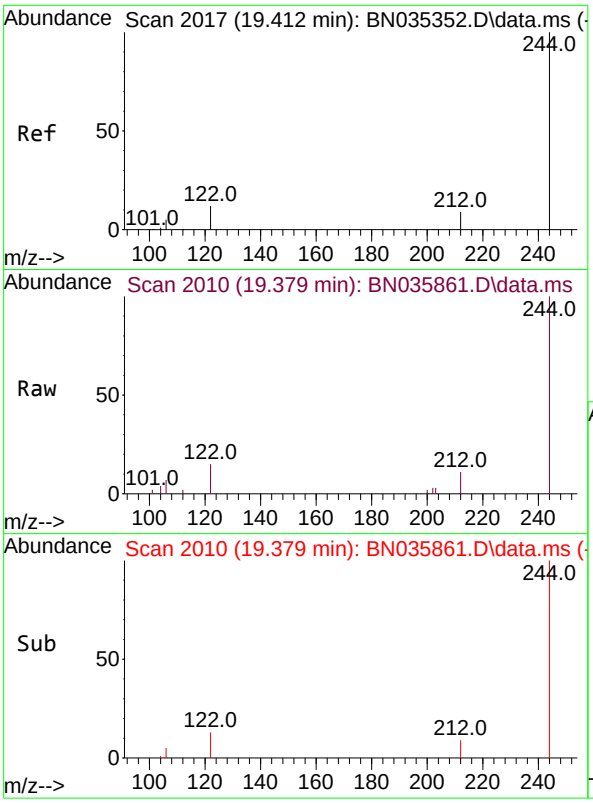


#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11492

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.0	14.3	21.5



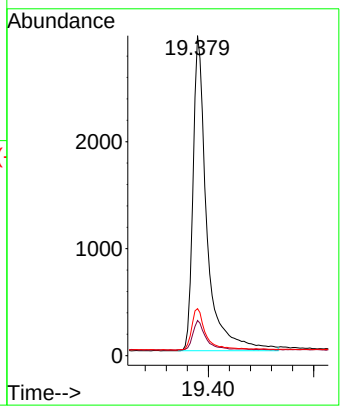


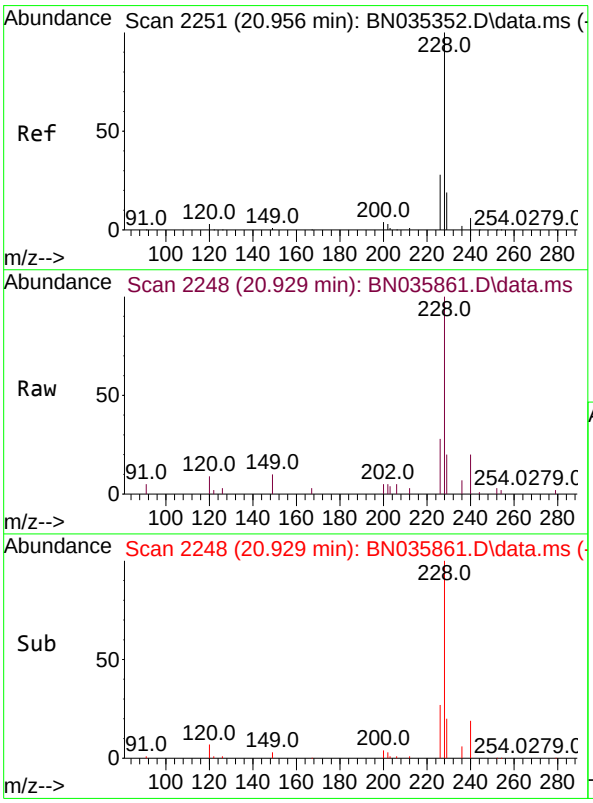
#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 5407

Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	14.7	10.3	15.5

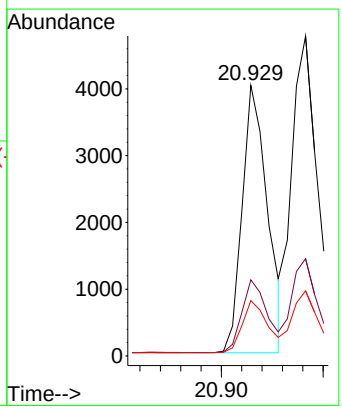


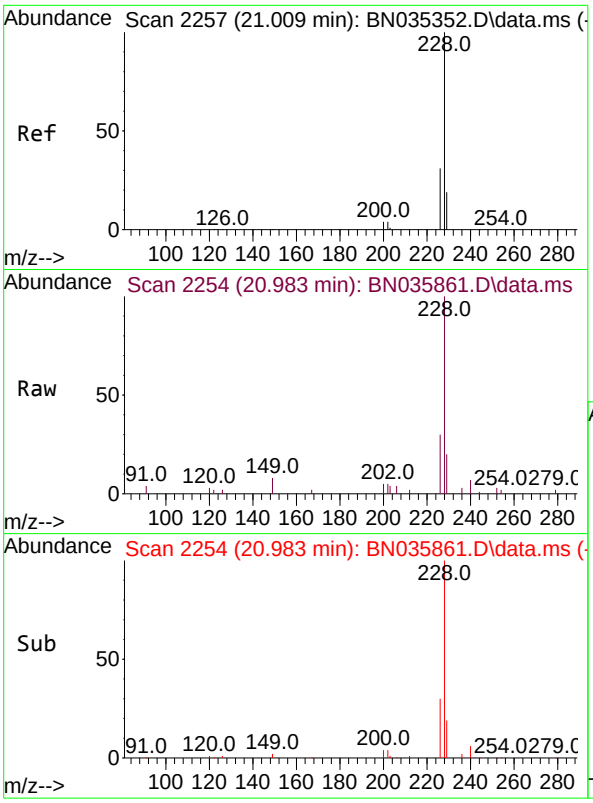


#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 6901

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.5	15.8	23.8



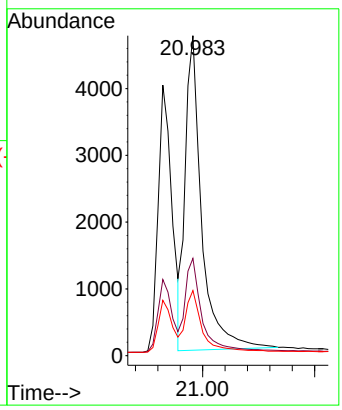


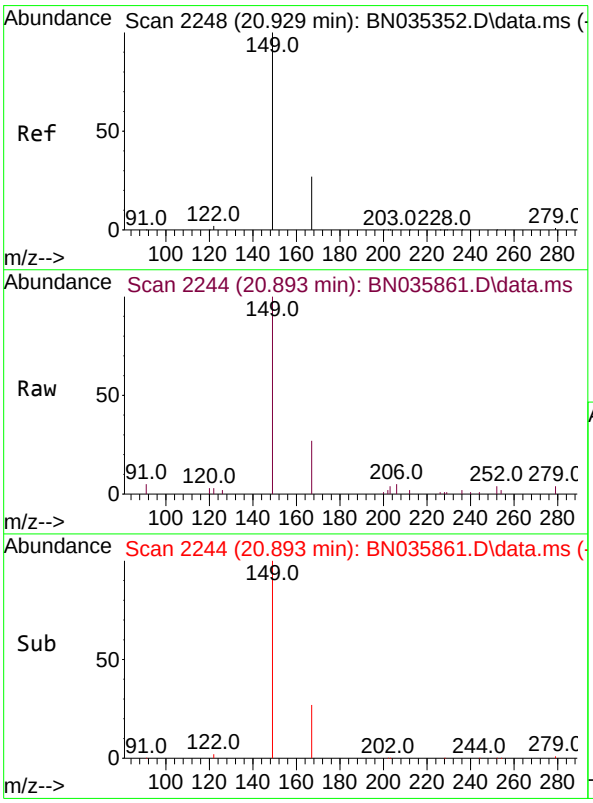
#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 9578

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.3	15.9	23.9

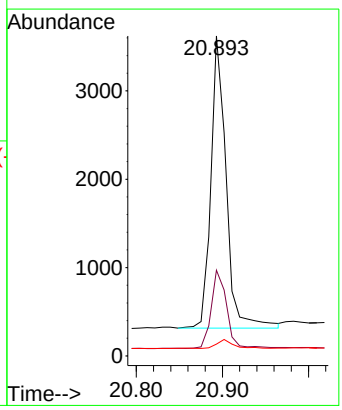


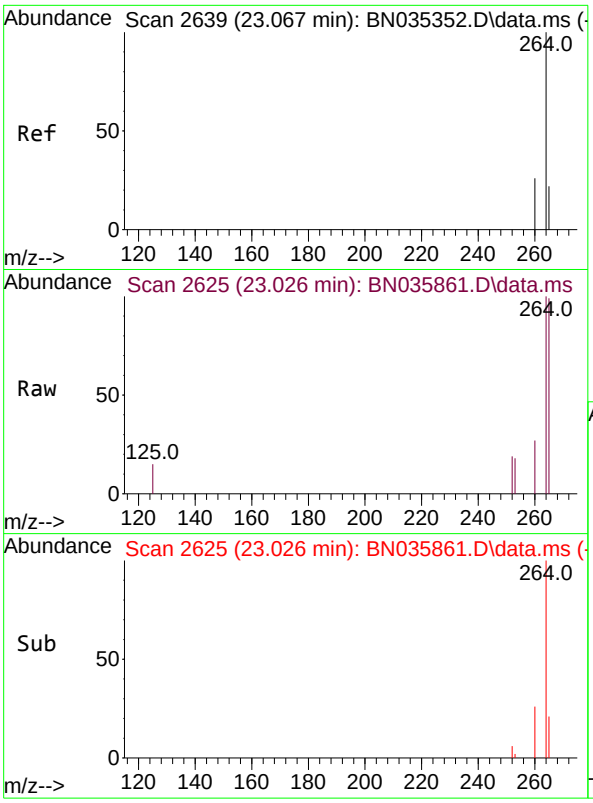


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:149 Resp: 4069

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	3.2	2.7	4.1



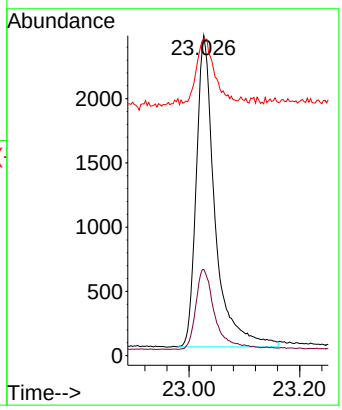


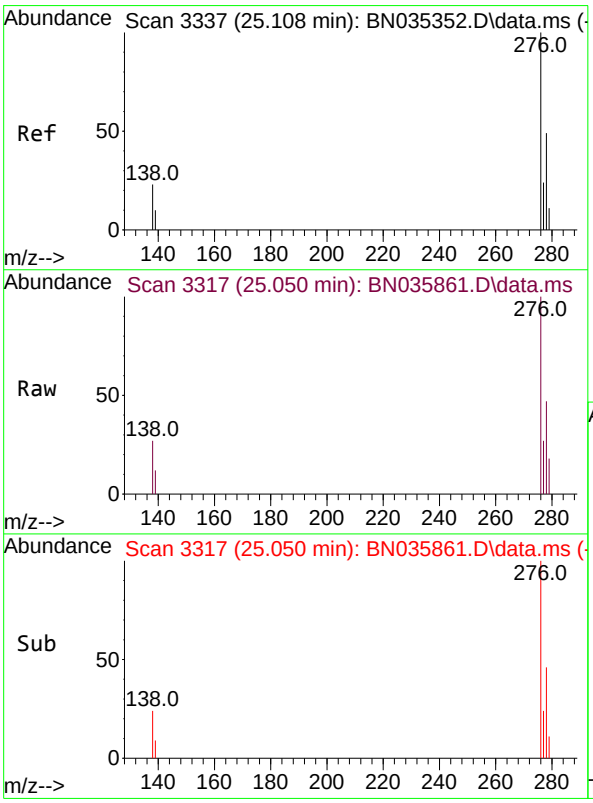
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 5699

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	99.1	40.2	60.4#

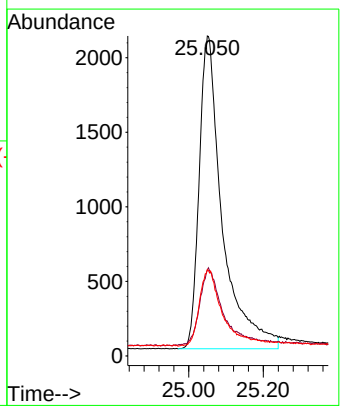


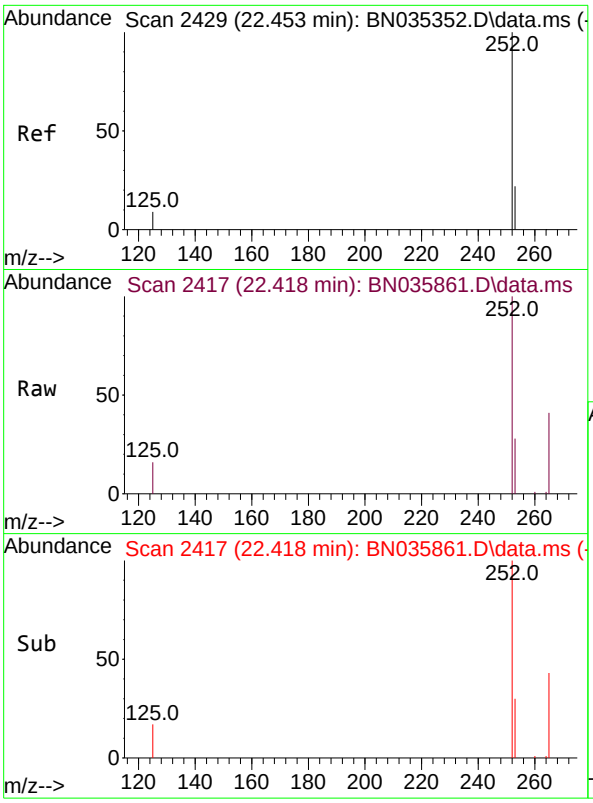


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 9030

Ion	Ratio	Lower	Upper
276	100		
138	24.8	19.4	29.0
277	23.4	19.8	29.6



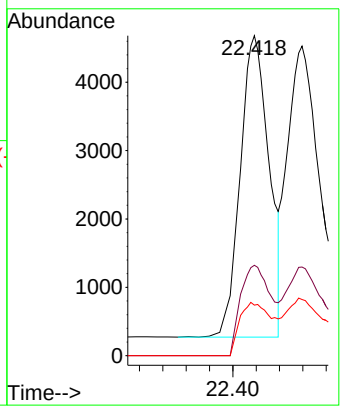


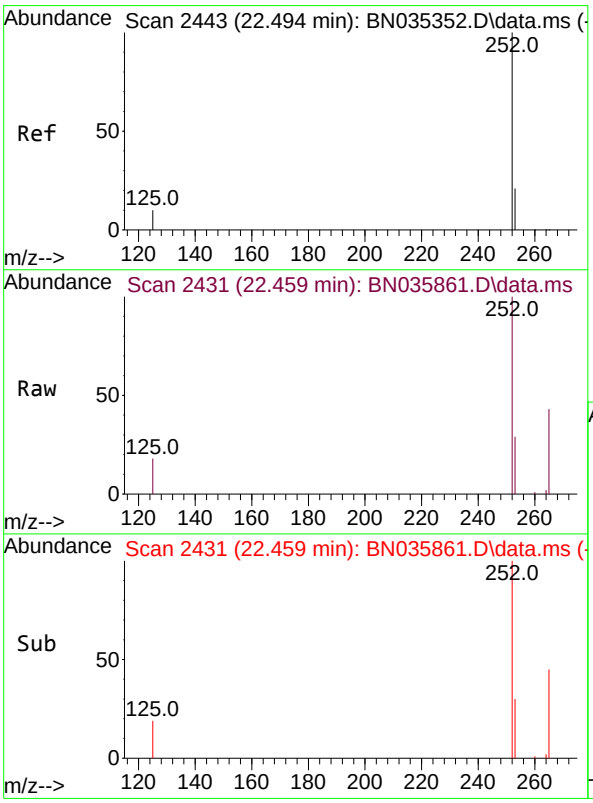
#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 11803

Ion	Ratio	Lower	Upper
252	100		
253	28.3	19.6	29.4
125	15.8	9.6	14.4#

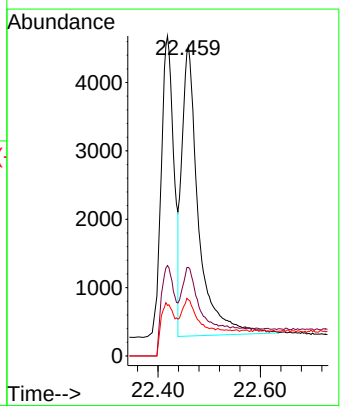


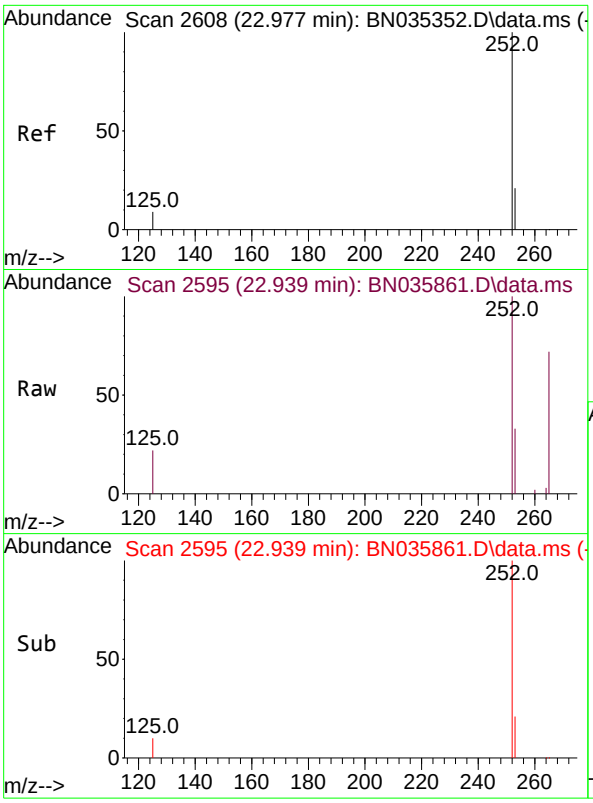


#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638

Ion	Ratio	Lower	Upper
252	100		
253	28.6	19.5	29.3
125	18.2	10.2	15.4#



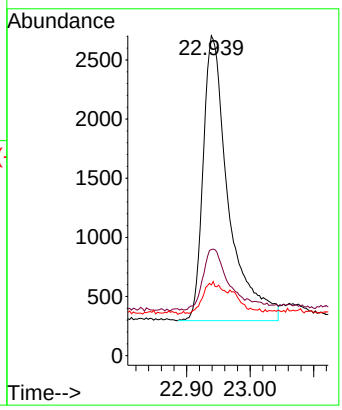


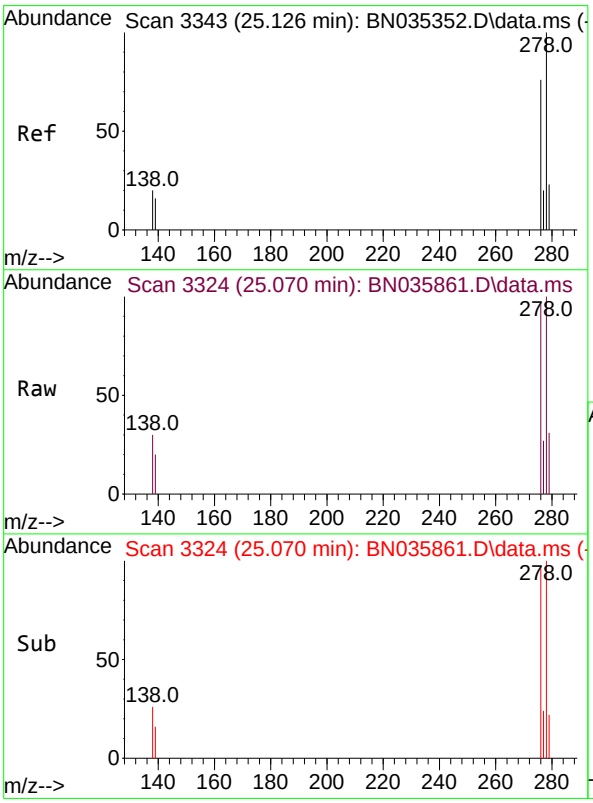
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 6641

Ion	Ratio	Lower	Upper
252	100		
253	33.2	20.2	30.4#
125	22.1	10.9	16.3#

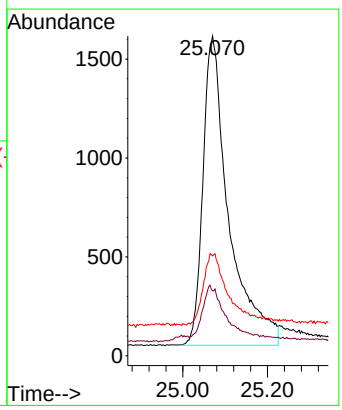


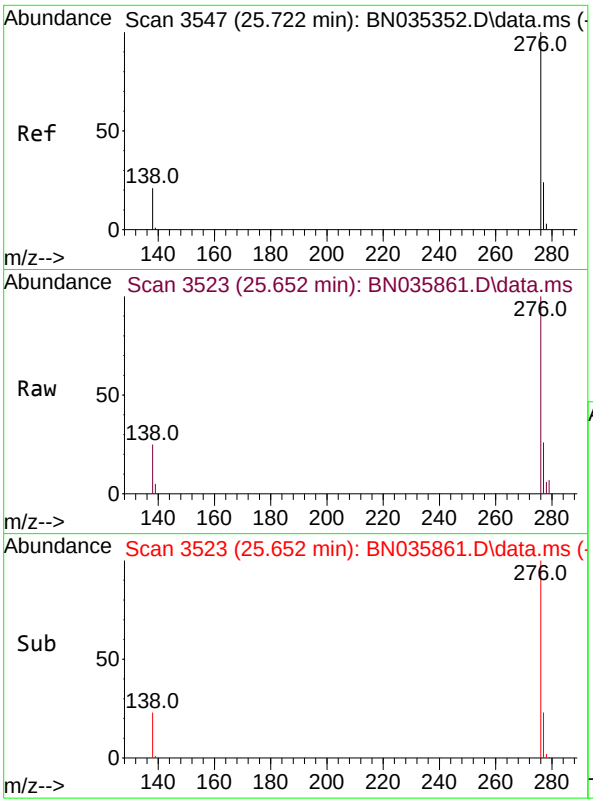


#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:278 Resp: 6633

Ion	Ratio	Lower	Upper
278	100		
139	20.3	14.2	21.4
279	31.2	20.5	30.7#





#41
Benzo(g,h,i)perylene
Concen: 0.452 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 8300

Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.9	29.9
138	25.5	17.8	26.8

