

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

PROJECT NAME : CTO WE13

**TETRA TECH NUS, INC.
661 Andersen Drive
Suite 200
Pittsburgh, PA - 15220-2745
Phone No: 412-921-7090**

**ORDER ID : P5065
ATTENTION : Ernie Wu**



Laboratory Certification ID # 20012



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Cover Page

Order ID : P5065

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P5065-04
P5065-05
P5065-06

Client Sample Number

RW7-SP200-20241202
RW7-SP201-20241202
RW7-SP300A-20241202

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: 12/5/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # P5065

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

3 Water samples were received on 12/03/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for RW7-SP200-20241202 [Terphenyl-d14 - 135%], RW7-SP201-20241202 [Terphenyl-d14 - 145%], RW7-SP300A-20241202 [Terphenyl-d14 - 151%], PB165348BS [2-Fluorobiphenyl - 108%, Nitrobenzene-d5 - 112%] and PB165348BSD [2-Fluorobiphenyl - 115%, Nitrobenzene-d5 - 127%], 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.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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.

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_____

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 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: P5065

MATRIX: /Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for RW7-SP200-20241202 [Terphenyl-d14 - 135%], RW7-SP201-20241202 [Terphenyl-d14 - 145%], RW7- SP300A-20241202 [Terphenyl-d14 - 151%], PB165348BS [2-Fluorobiphenyl - 108%, Nitrobenzene-d5 - 112%] and PB165348BSD [2-Fluorobiphenyl - 115%, Nitrobenzene- d5 - 127%], 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 Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓

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

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5065

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: 12/05/2024

LAB CHRONICLE

OrderID:	P5065	OrderDate:	12/3/2024 10:48:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5065-04	RW7-SP200-20241202	Water			12/02/24			12/03/24
			SVOC-SIMGroup1	8270-Modified		12/03/24	12/03/24	
P5065-05	RW7-SP201-20241202	Water			12/02/24			12/03/24
			SVOC-SIMGroup1	8270-Modified		12/03/24	12/03/24	
P5065-06	RW7-SP300A-20241202	Water			12/02/24			12/03/24
			SVOC-SIMGroup1	8270-Modified		12/03/24	12/03/24	

Hit Summary Sheet SW-846

SDG No.: P5065
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW7-SP200-20241202								
P5065-04	RW7-SP200-20241202	WATER	1,4-Dioxane	3.300	0.07	0.21	0.21	ug/L
			Total Svoc :	3.30				
			Total Concentration:	3.30				
Client ID : RW7-SP300A-20241202								
P5065-06	RW7-SP300A-20241202	WATER	1,4-Dioxane	0.570	0.07	0.2	0.2	ug/L
			Total Svoc :	0.57				
			Total Concentration:	0.57				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: **P5065**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5065-04	RW7-SP200-20241202	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.54	135	*	58	132
P5065-05	RW7-SP201-20241202	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.58	145	*	58	132
P5065-06	RW7-SP300A-20241202	2-Methylnaphthalene-d10	0.4	0.36	91		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.37	94		53	106
		Terphenyl-d14	0.4	0.60	151	*	58	132
PB165348BL	PB165348BL	2-Methylnaphthalene-d10	0.4	0.44	109		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.42	106		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
PB165348BS	PB165348BS	2-Methylnaphthalene-d10	0.4	0.52	130		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.45	112	*	55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.46	116		58	132
PB165348BSD	PB165348BSD	2-Methylnaphthalene-d10	0.4	0.57	142		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.51	127	*	55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.50	124		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5065

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035408.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB165348BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5065

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035409.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB165348BSD	1,4-Dioxane	0.4	0.41	ug/L	103	10			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165348BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5065

SAS No.: P5065 SDG NO.: P5065

Lab File ID: BN035407.D

Lab Sample ID: PB165348BL

Instrument ID: BNA_N

Date Extracted: 12/03/2024

Matrix: (soil/water) Water

Date Analyzed: 12/03/2024

Level: (low/med) LOW

Time Analyzed: 17:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165348BS	PB165348BS	BN035408.D	12/03/2024
PB165348BSD	PB165348BSD	BN035409.D	12/03/2024
RW7-SP300A-20241202	P5065-06	BN035412.D	12/03/2024
RW7-SP200-20241202	P5065-04	BN035410.D	12/03/2024
RW7-SP201-20241202	P5065-05	BN035411.D	12/03/2024

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5065 SDG NO.: P5065Lab File ID: BN035349.DDFTPP Injection Date: 11/27/2024Instrument ID: BNA_NDFTPP 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



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5065 SDG NO.: P5065Lab File ID: BN035405.DDFTPP Injection Date: 12/03/2024Instrument ID: BNA_NDFTPP Injection Time: 15:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.2
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	40.9
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	6.9
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	11.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.1 (19) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035406.D	12/03/2024	16:35
PB165348BL	PB165348BL	BN035407.D	12/03/2024	17:37
PB165348BS	PB165348BS	BN035408.D	12/03/2024	18:13
PB165348BSD	PB165348BSD	BN035409.D	12/03/2024	18:48
RW7-SP200-20241202	P5065-04	BN035410.D	12/03/2024	19:24
RW7-SP201-20241202	P5065-05	BN035411.D	12/03/2024	20:00
RW7-SP300A-20241202	P5065-06	BN035412.D	12/03/2024	20:36
SSTDCCC0.4EC	SSTDCCC0.4	BN035413.D	12/03/2024	21:11

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5065 SAS No.: P5065 SDG NO.: P5065

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/03/2024

Lab File ID: BN035406.D Time Analyzed: 16:35

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	2015	7.3	5135	10.05	3625	13.96
UPPER LIMIT	4030	7.8	10270	10.552	7250	14.457
LOWER LIMIT	1007.5	6.8	2567.5	9.552	1812.5	13.457
EPA SAMPLE NO.						
01 PB165348BL	1833	7.30	4526	10.05	3257	13.97
02 PB165348BS	2152	7.30	5114	10.05	3359	13.96
03 RW7-SP200-20241202	2075	7.31	5240	10.05	3772	13.96
04 PB165348BSD	1951	7.30	4691	10.05	3099	13.96
05 RW7-SP201-20241202	1851	7.31	4555	10.05	3248	13.97
06 RW7-SP300A-20241202	1636	7.31	4083	10.05	2951	13.96

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5065 SAS No.: P5065 SDG NO.: P5065

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/03/2024

Lab File ID: BN035406.D Time Analyzed: 16:35

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	8862	16.723	8251	20.974	7832	23.07
UPPER LIMIT	17724	17.223	16502	21.474	15664	23.57
LOWER LIMIT	4431	16.223	4125.5	20.474	3916	22.57
EPA SAMPLE NO.						
01 PB165348BL	8120	16.74	6937	20.98	6492	23.08
02 PB165348BS	8334	16.72	7507	20.97	6897	23.07
03 RW7-SP200-20241202	9570	16.72	8675	20.97	8373	23.06
04 PB165348BSD	7726	16.72	7120	20.97	6595	23.06
05 RW7-SP201-20241202	8127	16.74	6931	20.97	6312	23.07
06 RW7-SP300A-20241202	7433	16.72	6344	20.97	5799	23.07

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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18

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/02/24	
Project:	CTO WE13		Date Received:	12/03/24	
Client Sample ID:	RW7-SP200-20241202		SDG No.:	P5065	
Lab Sample ID:	P5065-04		Matrix:	Water	
Analytical Method:	SW8270SIM		% 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 :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035410.D	1	12/03/24 12:30	12/03/24 19:24	PB165348

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.30		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		135%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2080	7.308				
1146-65-2	Naphthalene-d8	5240	10.052				
15067-26-2	Acenaphthene-d10	3770	13.957				
1517-22-2	Phenanthrene-d10	9570	16.723				
1719-03-5	Chrysene-d12	8680	20.974				
1520-96-3	Perylene-d12	8370	23.064				

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\BN120424\
Data File : BN035410.D
Acq On : 03 Dec 2024 19:24
Operator : RC/JU
Sample : P5065-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

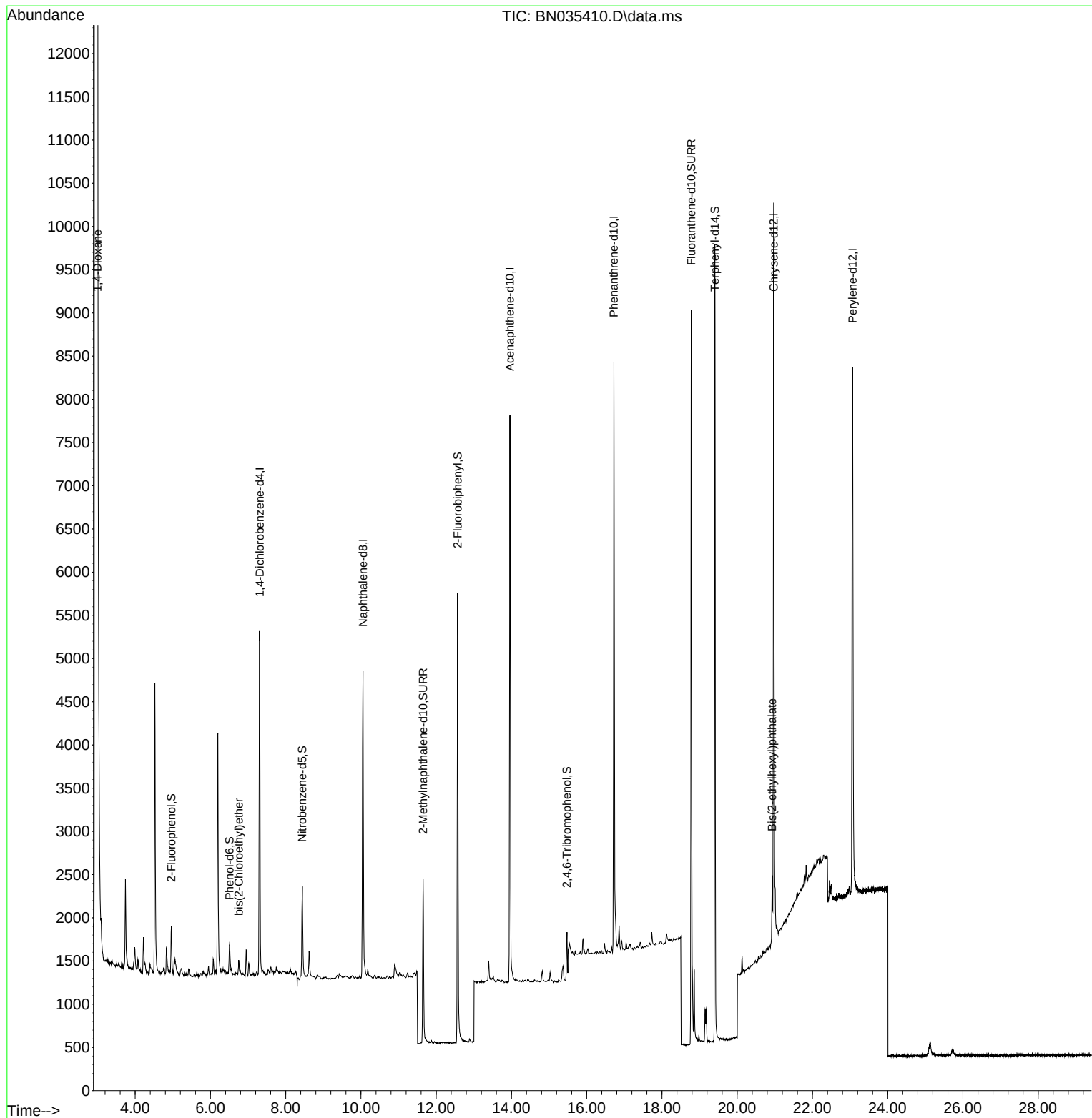
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2075	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5240	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3772	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9570	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	8675	0.400	ng	0.00
35) Perylene-d12	23.064	264	8373	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	496	0.096	ng	0.00
5) Phenol-d6	6.506	99	374	0.060	ng	0.00
8) Nitrobenzene-d5	8.440	82	1048m	0.327	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2970	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	530	0.198	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5211	0.365	ng	0.00
27) Fluoranthene-d10	18.780	212	10124	0.373	ng	0.00
31) Terphenyl-d14	19.407	244	9247	0.540	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.996	88	6354	3.203	ng	98
6) bis(2-Chloroethyl)ether	6.752	93	129	0.025	ng	94
34) Bis(2-ethylhexyl)phtha...	20.929	149	831	0.069	ng	# 93

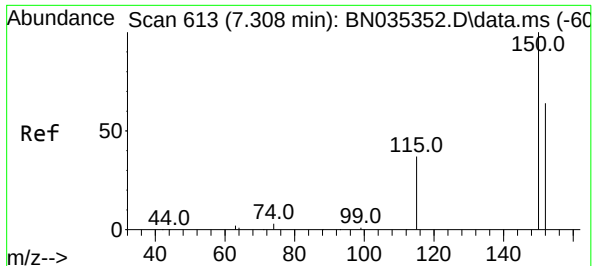
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035410.D
Acq On : 03 Dec 2024 19:24
Operator : RC/JU
Sample : P5065-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

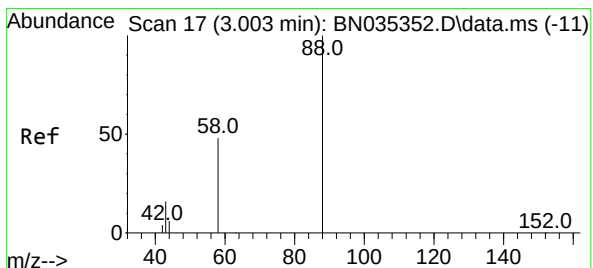
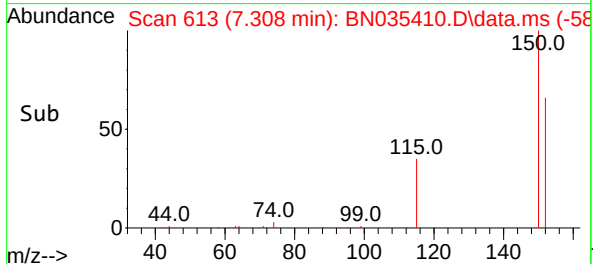
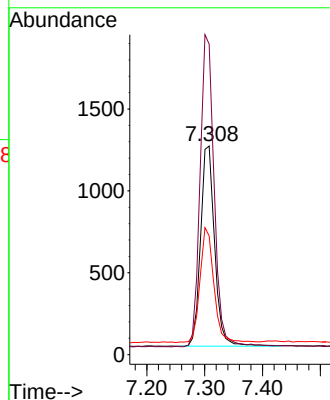
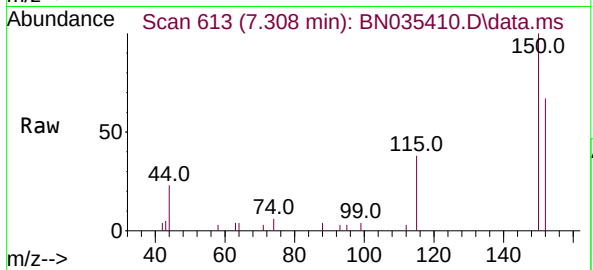




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

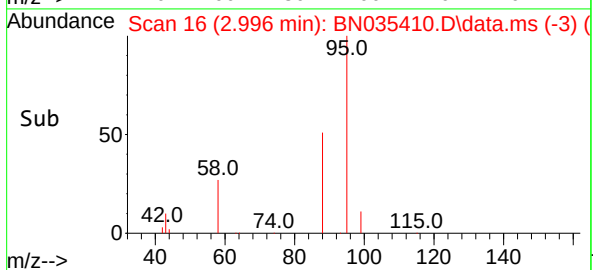
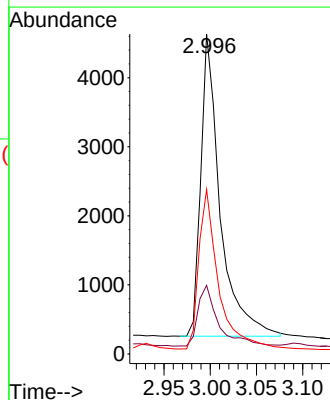
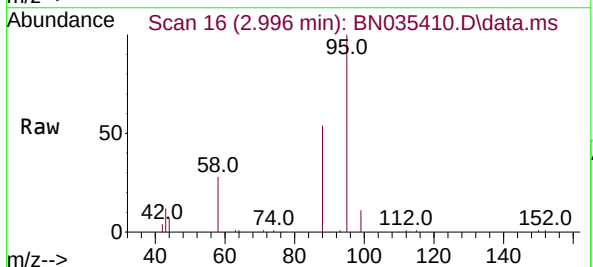
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

Tgt Ion:152 Resp: 2075
Ion Ratio Lower Upper
152 100
150 148.8 124.0 186.0
115 56.9 49.6 74.4

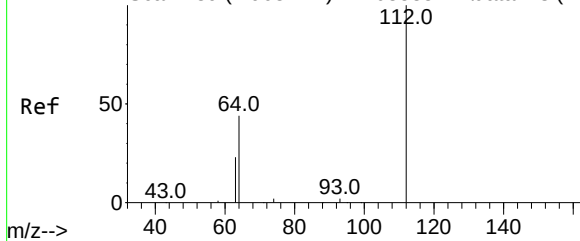


#2
1,4-Dioxane
Concen: 3.203 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion: 88 Resp: 6354
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 53.3 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.096 ng

RT: 4.960 min Scan# 21

Delta R.T. -0.007 min

Lab File: BN035410.D

Acq: 03 Dec 2024 19:24

Instrument :

BNA_N

ClientSampleId :

RW7-SP200-20241202

Tgt Ion:112 Resp: 496

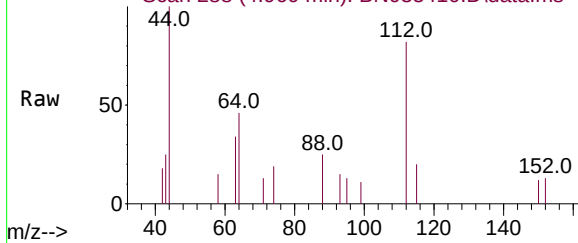
Ion Ratio Lower Upper

112 100

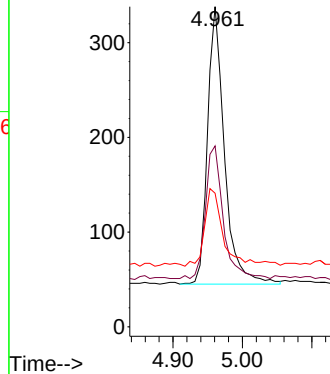
64 50.4 39.8 59.8

63 30.0 21.0 31.6

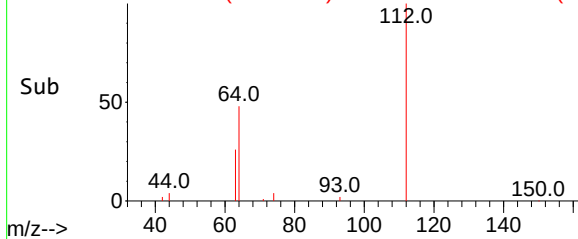
Abundance Scan 288 (4.960 min): BN035410.D\data.ms



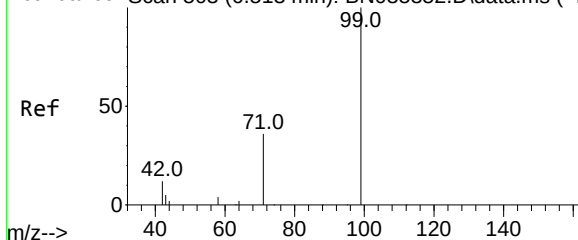
Abundance



Abundance Scan 288 (4.960 min): BN035410.D\data.ms (-26



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.060 ng

RT: 6.506 min Scan# 502

Delta R.T. -0.007 min

Lab File: BN035410.D

Acq: 03 Dec 2024 19:24

Tgt Ion: 99 Resp: 374

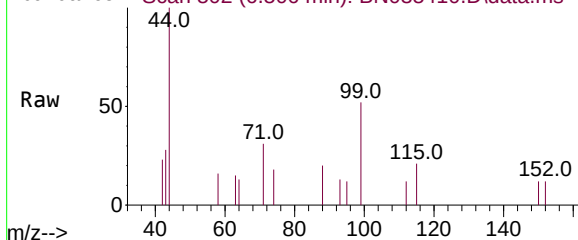
Ion Ratio Lower Upper

99 100

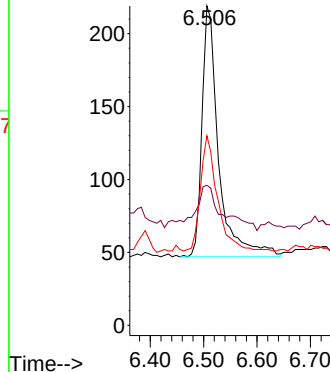
42 27.8 11.4 17.2#

71 46.8 29.3 43.9#

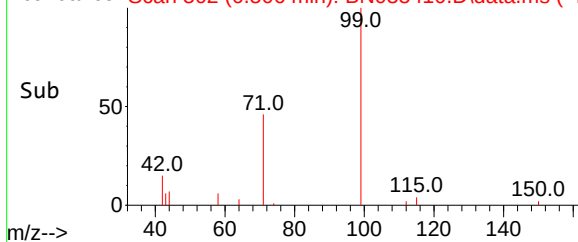
Abundance Scan 502 (6.506 min): BN035410.D\data.ms

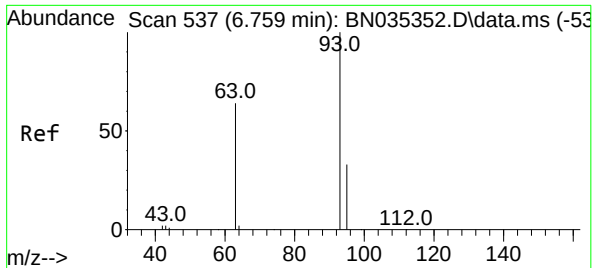


Abundance



Abundance Scan 502 (6.506 min): BN035410.D\data.ms (-47

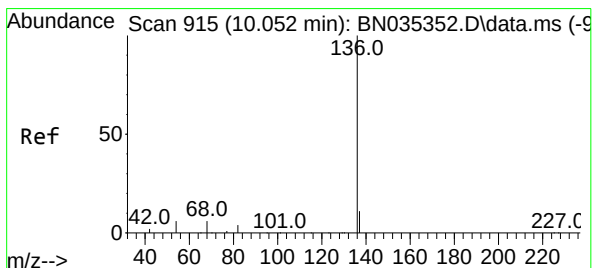
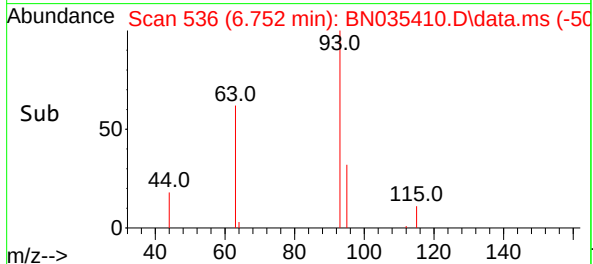
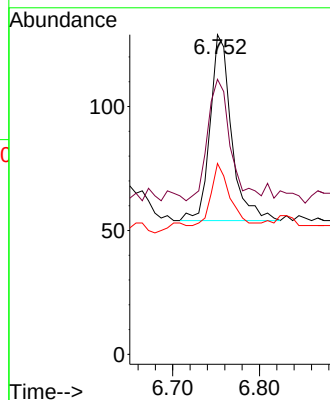
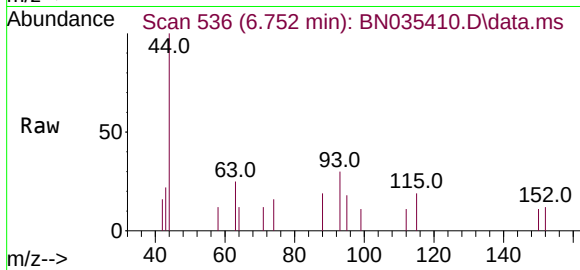




#6
bis(2-Chloroethyl)ether
Concen: 0.025 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

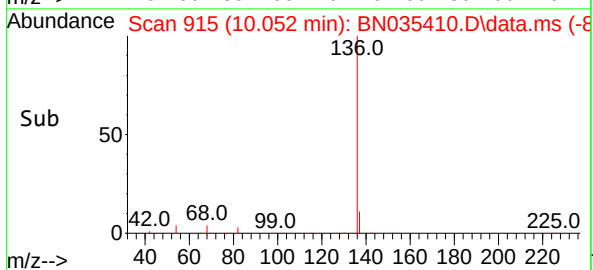
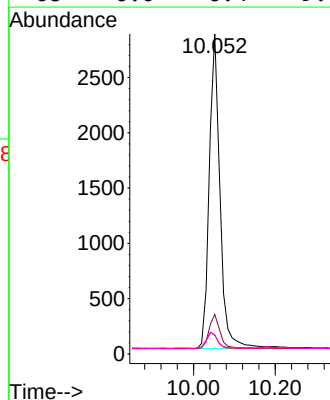
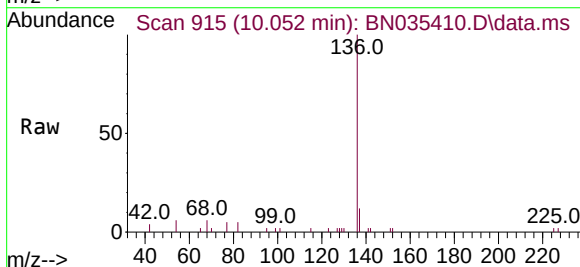
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

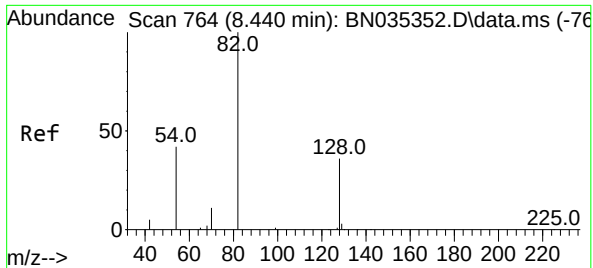
Tgt Ion: 93 Resp: 129
Ion Ratio Lower Upper
93 100
63 69.8 50.4 75.6
95 31.8 25.7 38.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion: 136 Resp: 5240
Ion Ratio Lower Upper
136 100
137 12.3 10.2 15.2
54 5.9 6.1 9.1#
68 6.0 6.4 9.6#

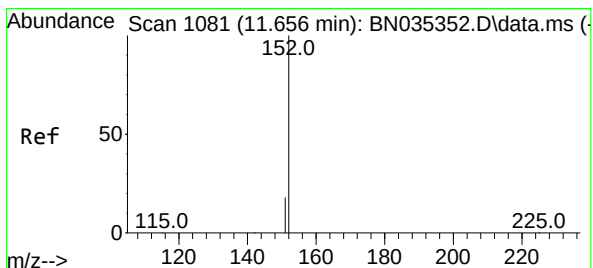
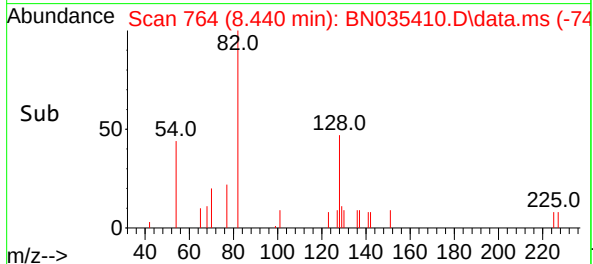
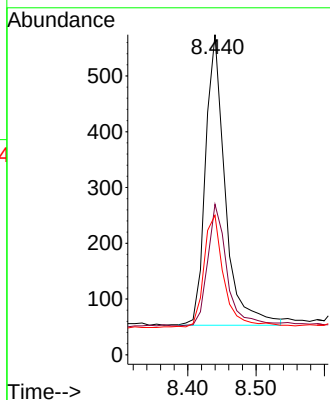
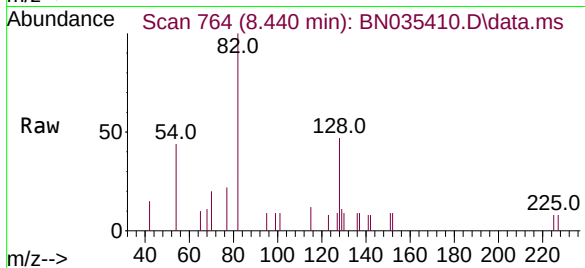




#8
Nitrobenzene-d5
Concen: 0.327 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

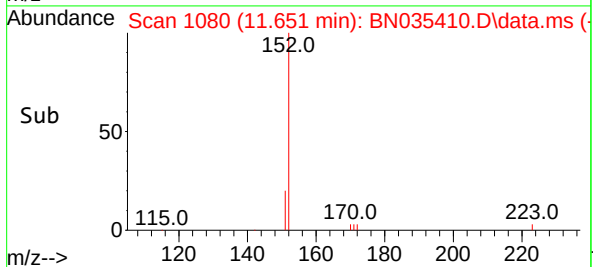
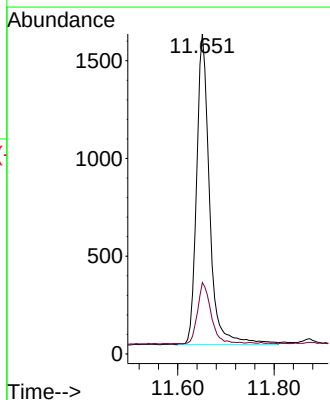
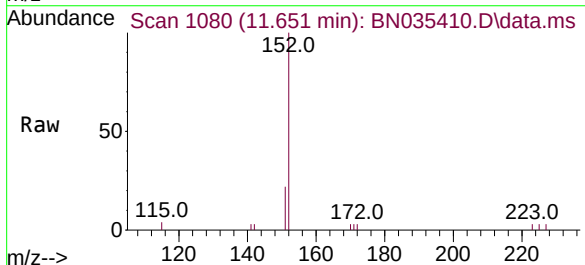
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

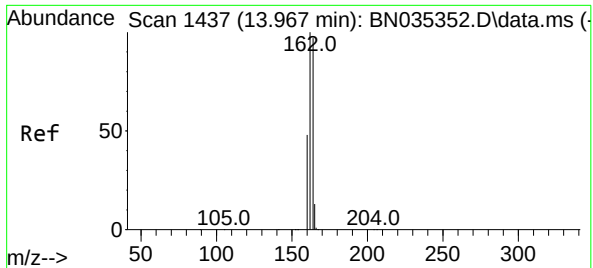
Tgt Ion:	82	Resp:	1048
Ion	Ratio	Lower	Upper
82	100		
128	47.0	33.4	50.0
54	43.6	36.7	55.1



#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:	152	Resp:	2970
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

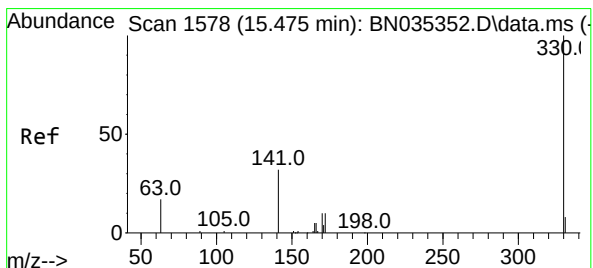
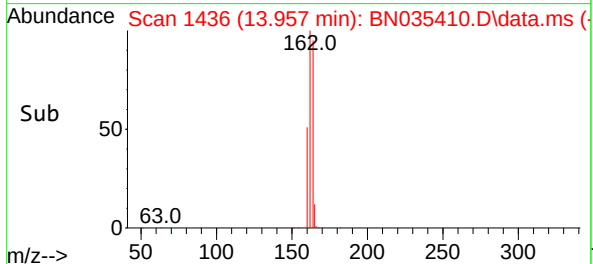
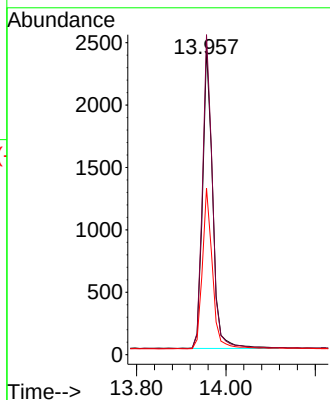
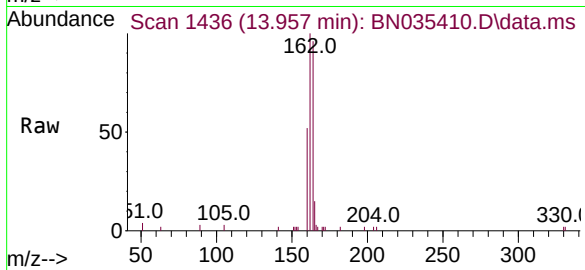




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

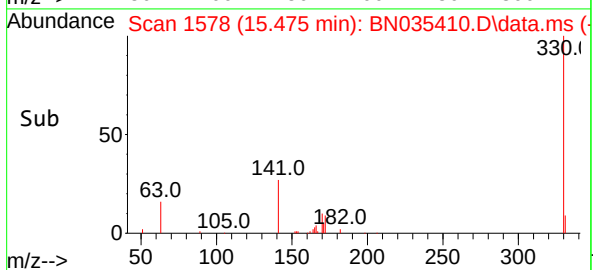
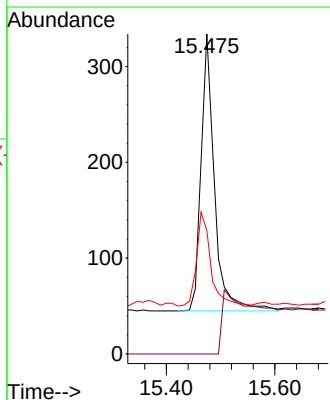
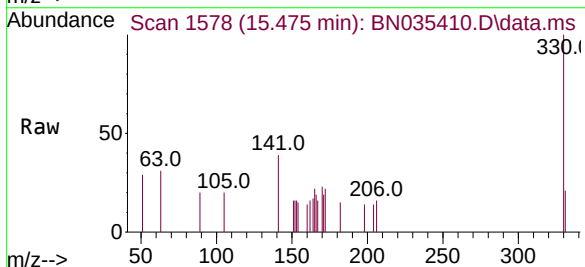
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

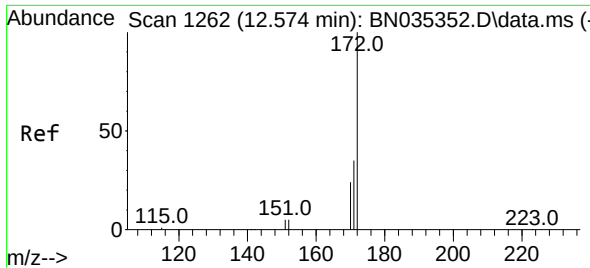
Tgt Ion:164 Resp: 3772
Ion Ratio Lower Upper
164 100
162 104.5 82.2 123.2
160 54.4 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:330 Resp: 530
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.3 26.6 40.0

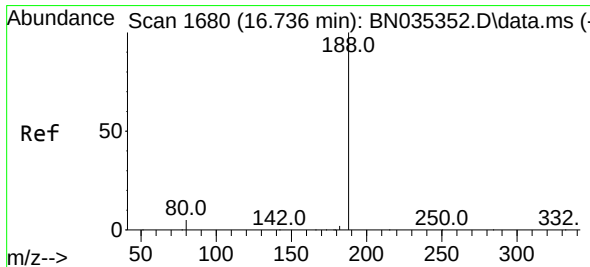
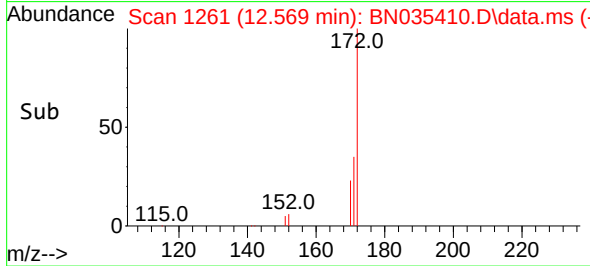
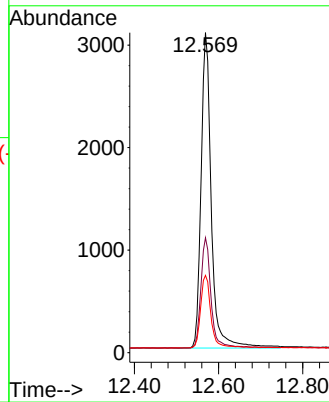
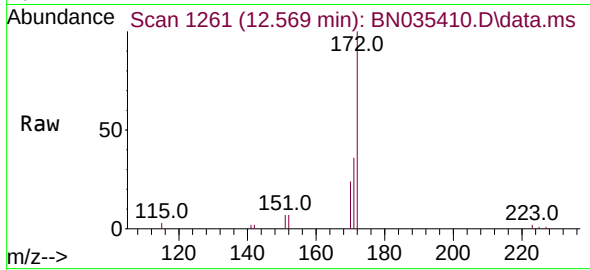




#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.569 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

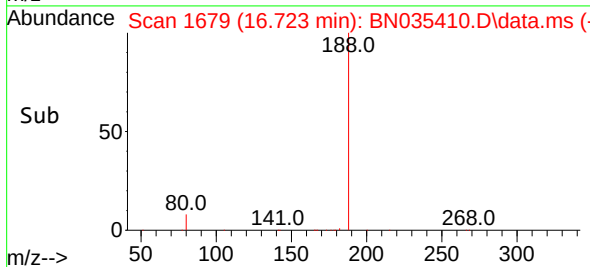
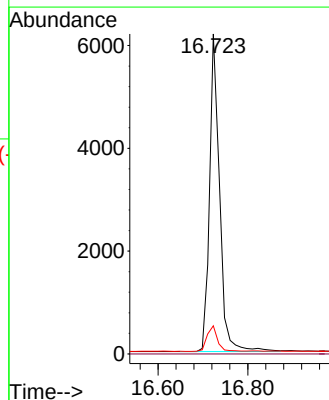
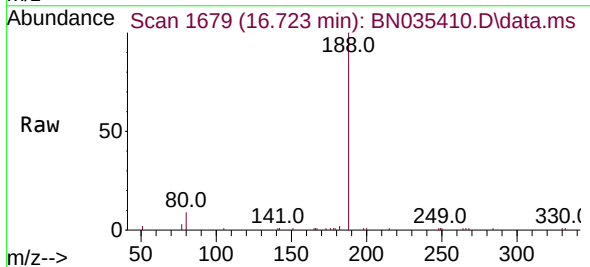
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

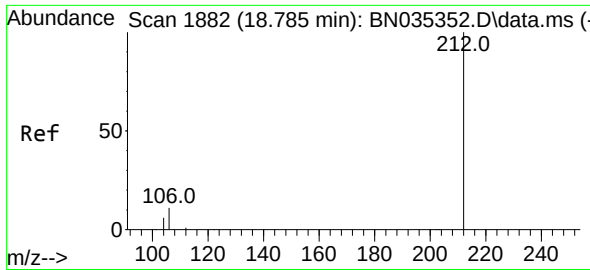
Tgt Ion:172	Resp:	5211
Ion	Ratio	Lower Upper
172	100	
171	35.9	29.0 43.4
170	24.1	19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:188	Resp:	9570
Ion	Ratio	Lower Upper
188	100	
94	0.0	0.0 0.0
80	8.8	4.6 6.8#

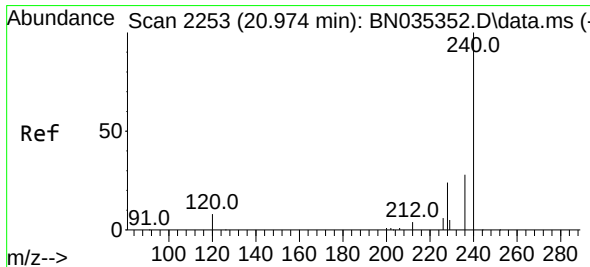
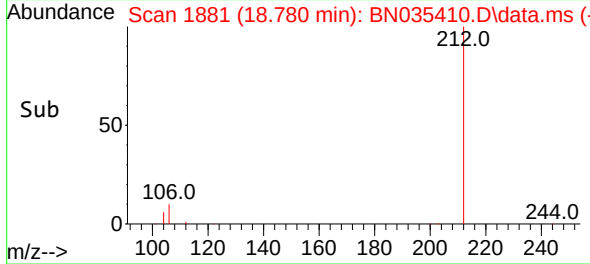
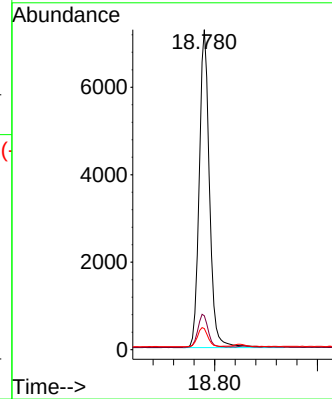
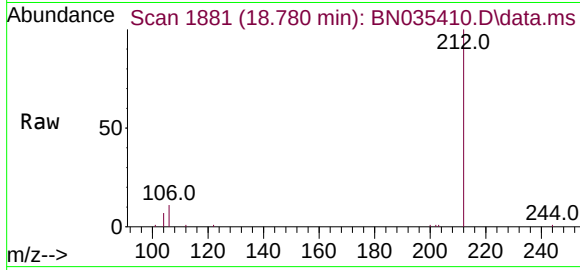




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

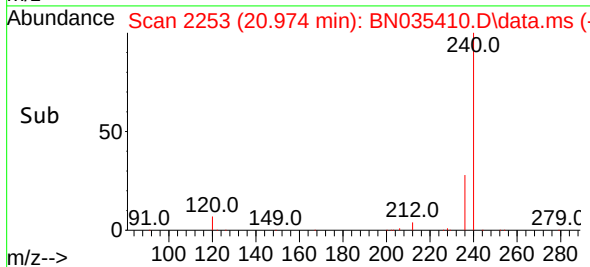
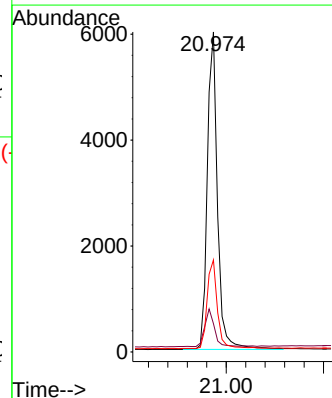
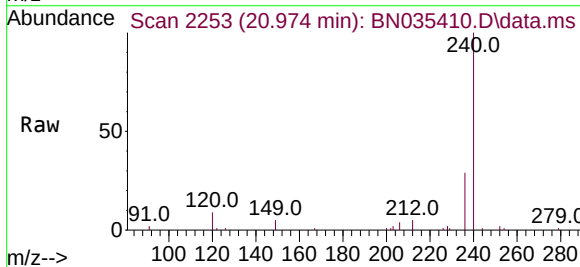
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

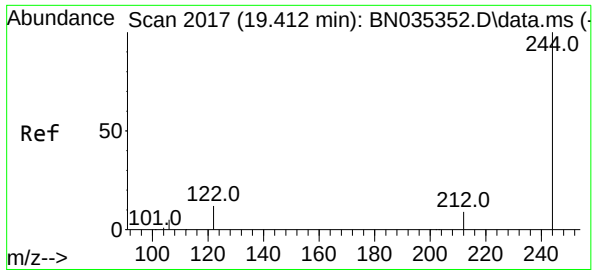
Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.5	9.2	13.8
104	6.0	5.3	7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.9	11.9
236	28.8	22.9	34.3

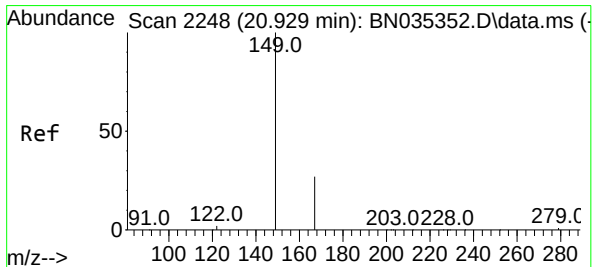
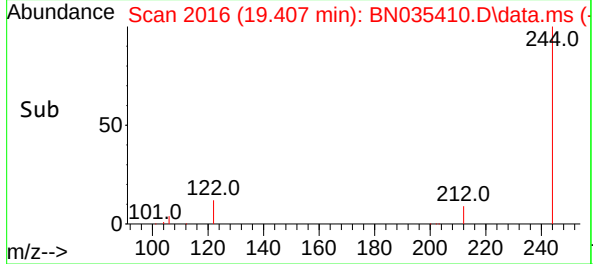
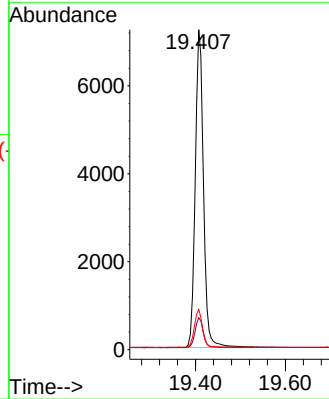
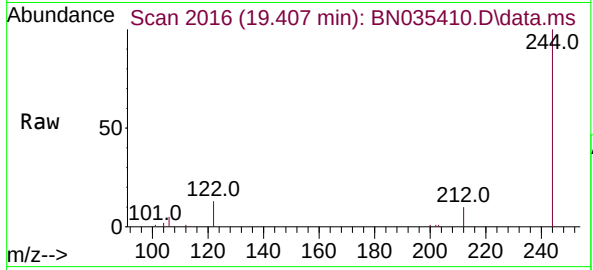




#31
Terphenyl-d14
Concen: 0.540 ng
RT: 19.407 min Scan# 2017
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

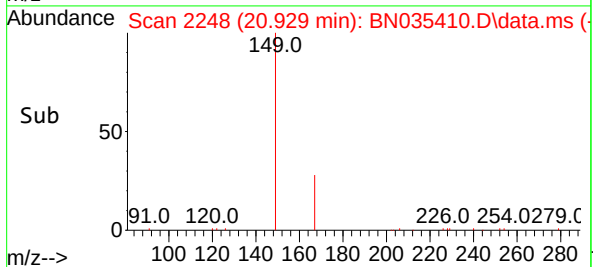
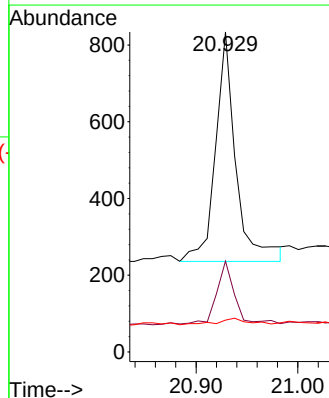
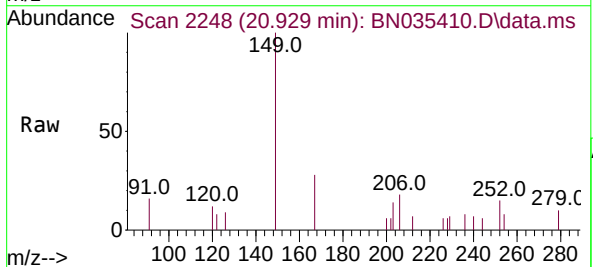
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

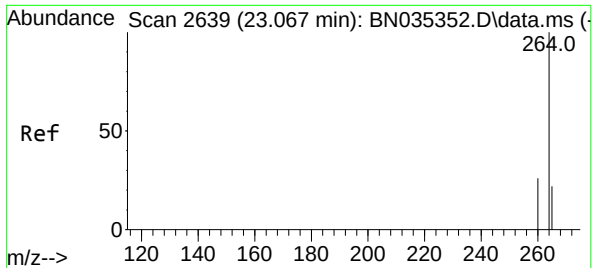
Tgt Ion:244 Resp: 9247
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 12.6 10.3 15.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.069 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:149 Resp: 831
Ion Ratio Lower Upper
149 100
167 23.7 22.2 33.4
279 4.2 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.064 min Scan# 2

Delta R.T. -0.003 min

Lab File: BN035410.D

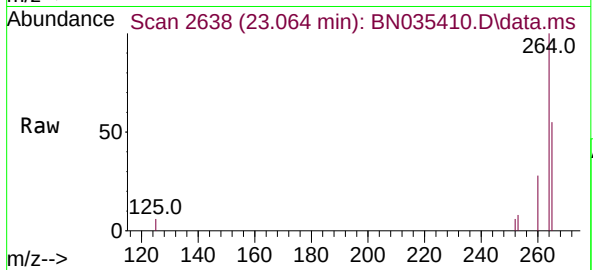
Acq: 03 Dec 2024 19:24

Instrument :

BNA_N

ClientSampleId :

RW7-SP200-20241202



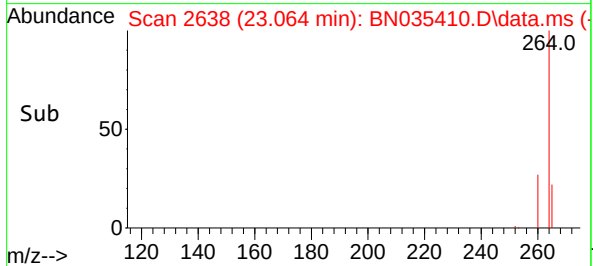
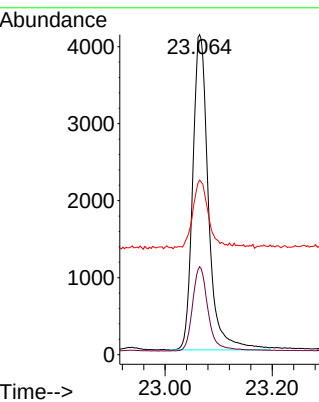
Tgt Ion:264 Resp: 8373

Ion Ratio Lower Upper

264 100

260 27.5 21.4 32.2

265 54.6 40.2 60.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/02/24	
Project:	CTO WE13		Date Received:	12/03/24	
Client Sample ID:	RW7-SP201-20241202		SDG No.:	P5065	
Lab Sample ID:	P5065-05		Matrix:	Water	
Analytical Method:	SW8270SIM		% 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 :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035411.D	1	12/03/24 12:30	12/03/24 20:00	PB165348

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		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	58 - 132		145%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1850	7.308				
1146-65-2	Naphthalene-d8	4560	10.052				
15067-26-2	Acenaphthene-d10	3250	13.967				
1517-22-2	Phenanthrene-d10	8130	16.736				
1719-03-5	Chrysene-d12	6930	20.974				
1520-96-3	Perylene-d12	6310	23.067				

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\BN120424\
Data File : BN035411.D
Acq On : 03 Dec 2024 20:00
Operator : RC/JU
Sample : P5065-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

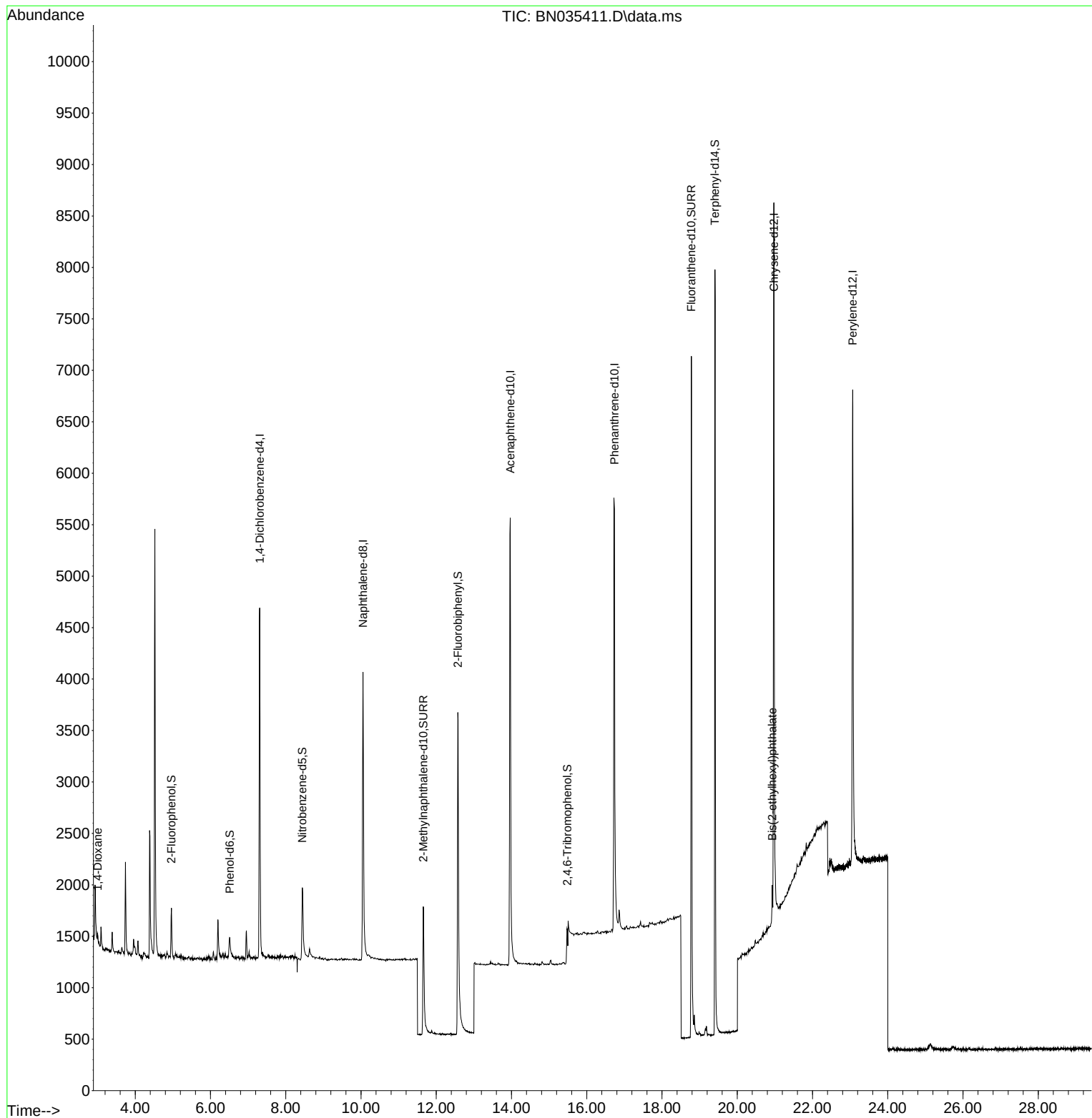
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1851	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4555	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3248	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	8127	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6931	0.400	ng	0.00
35) Perylene-d12	23.067	264	6312	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	428	0.092	ng	0.00
5) Phenol-d6	6.513	99	268	0.048	ng	0.00
8) Nitrobenzene-d5	8.440	82	974m	0.350	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2531	0.355	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	441	0.191	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	4425	0.360	ng	0.00
27) Fluoranthene-d10	18.780	212	8690	0.377	ng	0.00
31) Terphenyl-d14	19.407	244	7900	0.578	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.003	88	109	0.062	ng	# 68
34) Bis(2-ethylhexyl)phtha...	20.929	149	402	0.042	ng	93

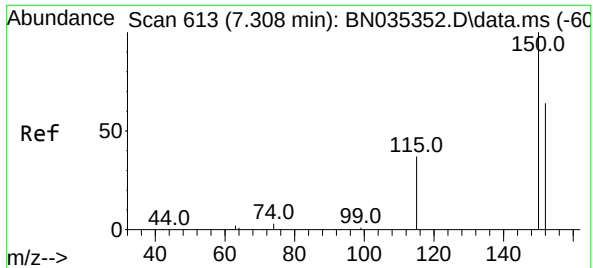
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035411.D
Acq On : 03 Dec 2024 20:00
Operator : RC/JU
Sample : P5065-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

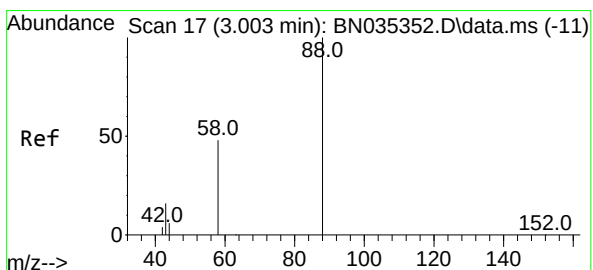
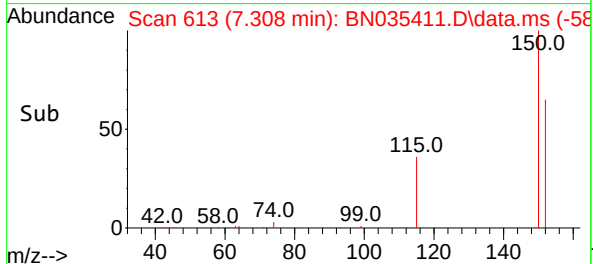
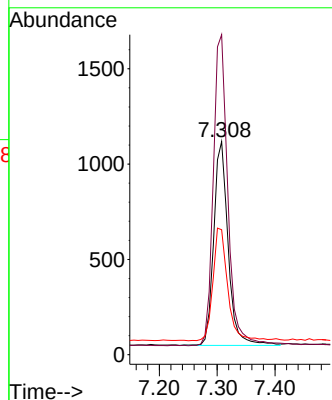
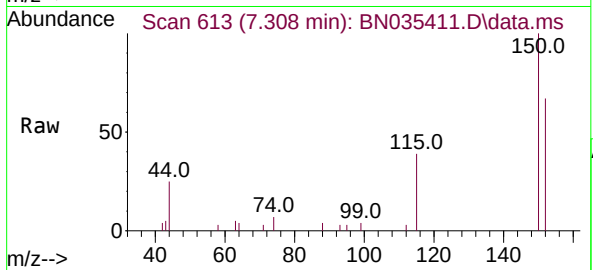




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

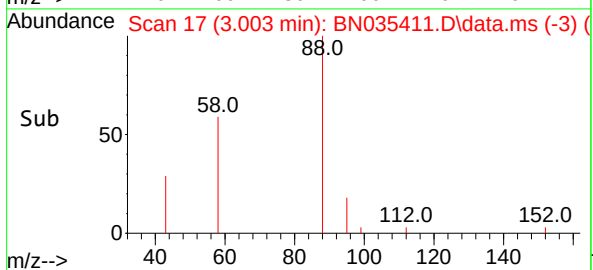
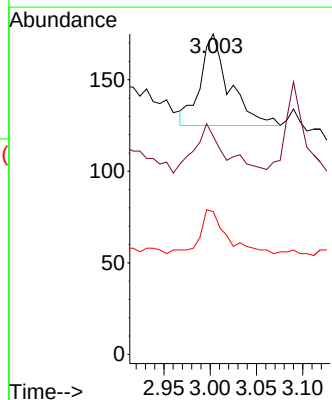
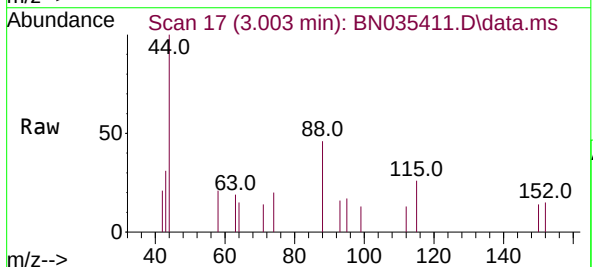
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

Tgt Ion:152 Resp: 1851
Ion Ratio Lower Upper
152 100
150 150.2 124.0 186.0
115 58.7 49.6 74.4

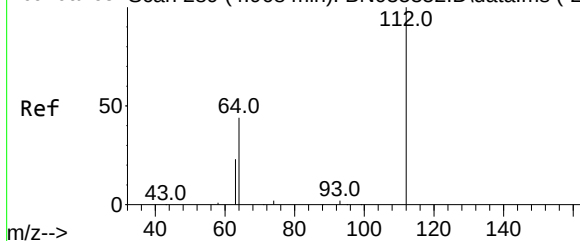


#2
1,4-Dioxane
Concen: 0.062 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

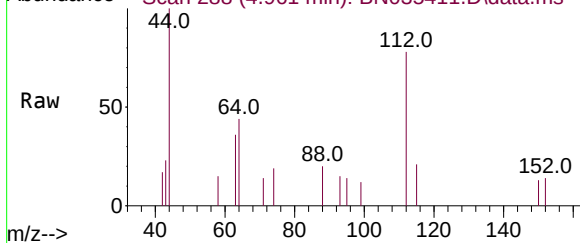
Tgt Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
43 56.9 17.2 25.8#
58 44.0 44.5 66.7#



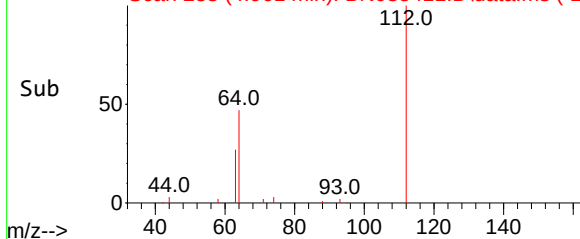
Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



Abundance Scan 288 (4.961 min): BN035411.D\data.ms



Abundance Scan 288 (4.961 min): BN035411.D\data.ms (-26



#4

2-Fluorophenol

Concen: 0.092 ng

RT: 4.961 min Scan# 21

Delta R.T. -0.007 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241202

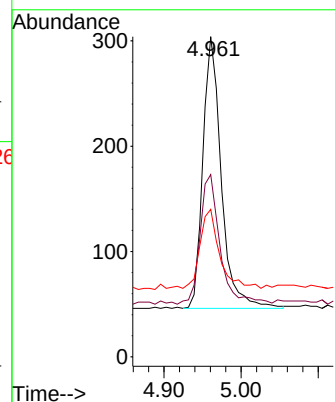
Tgt Ion:112 Resp: 428

Ion Ratio Lower Upper

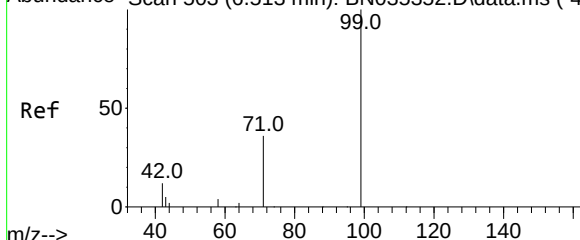
112 100

64 51.6 39.8 59.8

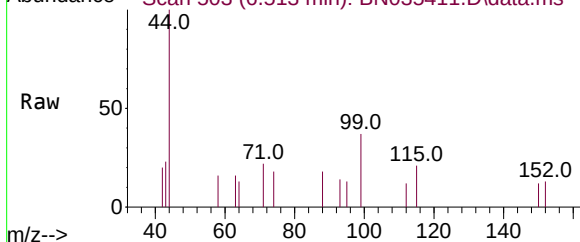
63 30.6 21.0 31.6



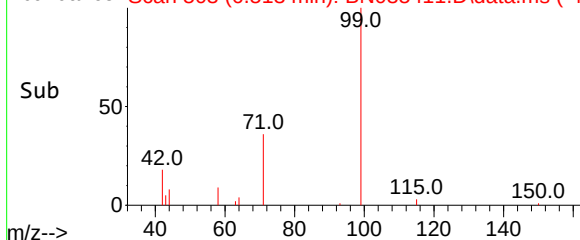
Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



Abundance Scan 503 (6.513 min): BN035411.D\data.ms



Abundance Scan 503 (6.513 min): BN035411.D\data.ms (-47



#5

Phenol-d6

Concen: 0.048 ng

RT: 6.513 min Scan# 503

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

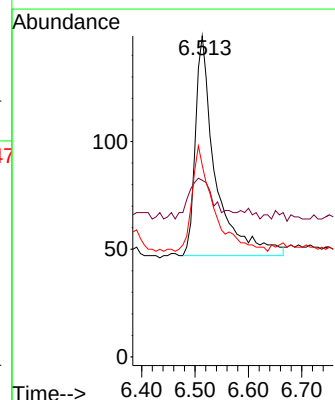
Tgt Ion: 99 Resp: 268

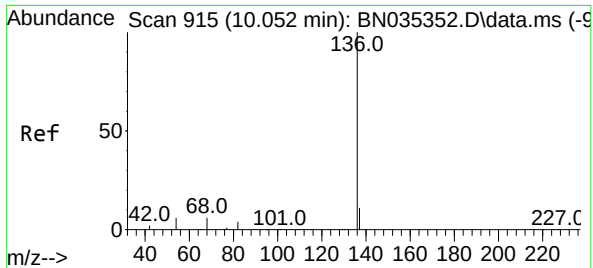
Ion Ratio Lower Upper

99 100

42 23.1 11.4 17.2#

71 50.7 29.3 43.9#

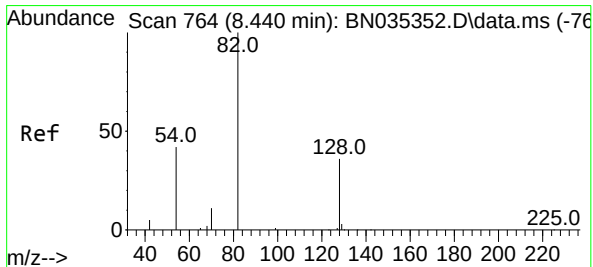
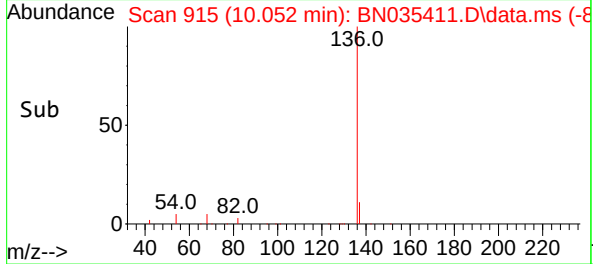
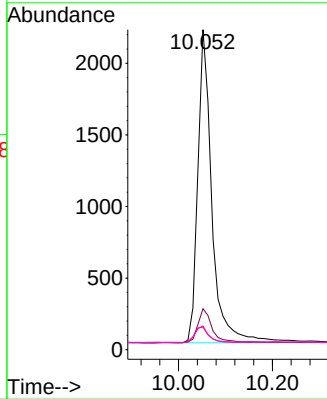
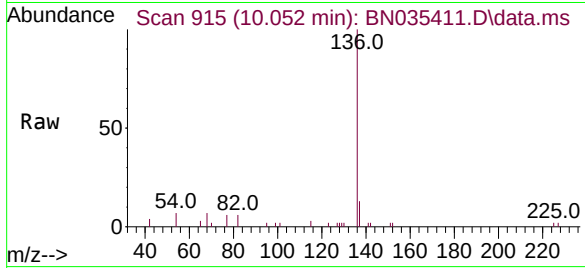




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

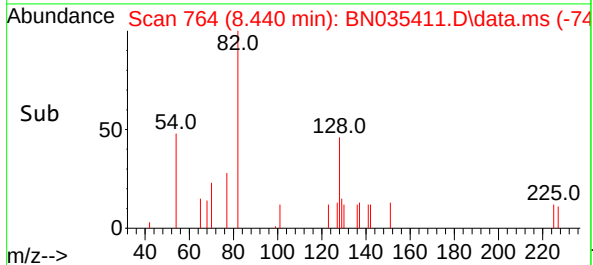
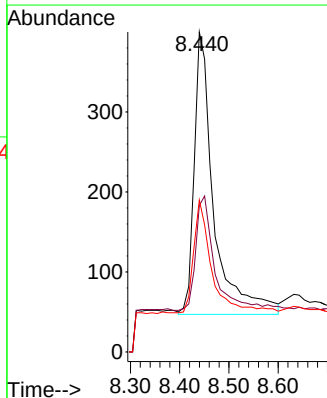
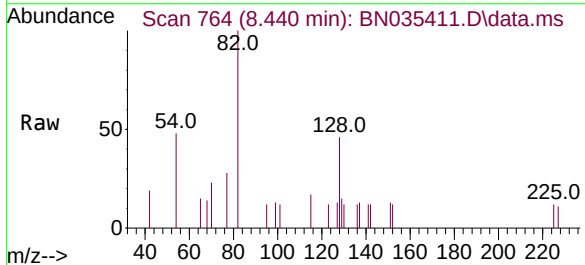
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

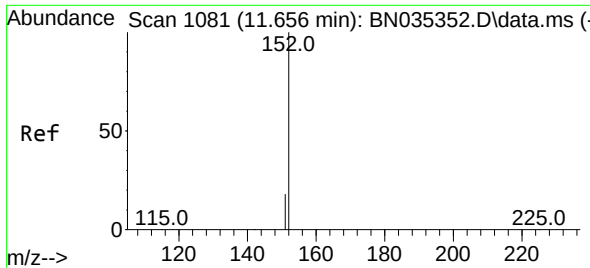
Tgt Ion:	136	Resp:	4555
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	7.1	6.1	9.1
68	7.5	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.350 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:	82	Resp:	974
Ion	Ratio	Lower	Upper
82	100		
128	45.8	33.4	50.0
54	47.5	36.7	55.1

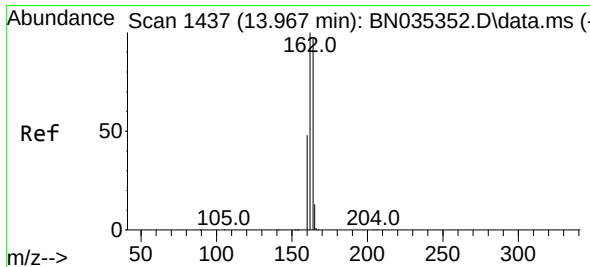
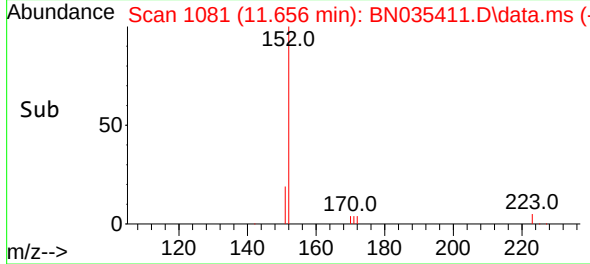
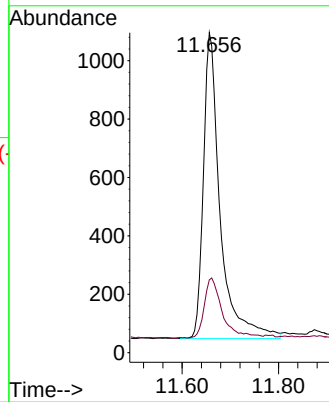
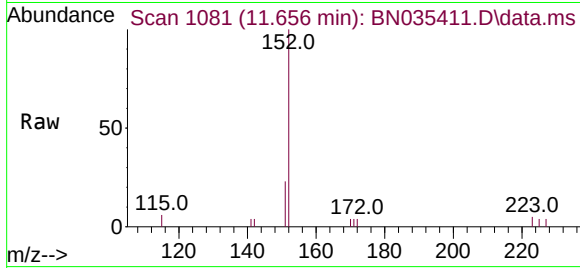




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

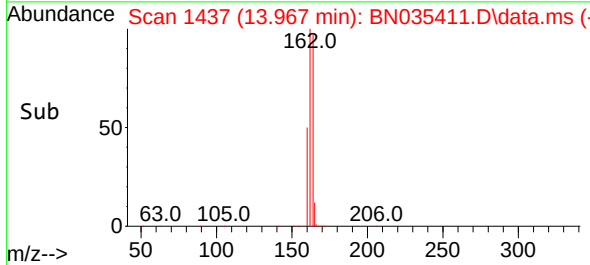
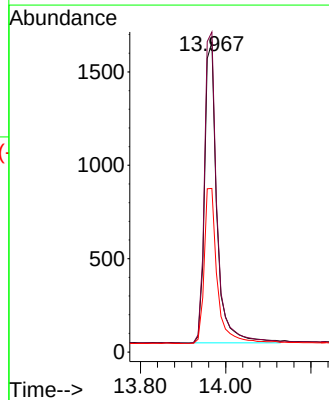
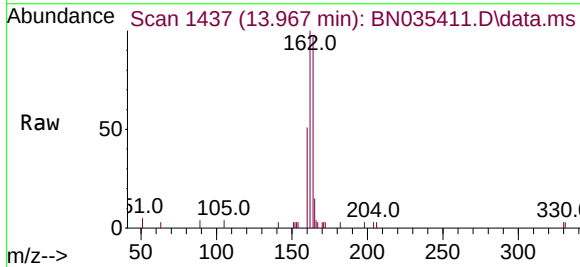
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

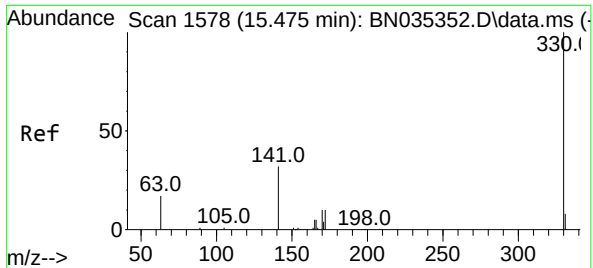
Tgt Ion:152 Resp: 2531
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:164 Resp: 3248
Ion Ratio Lower Upper
164 100
162 103.3 82.2 123.2
160 52.8 40.1 60.1

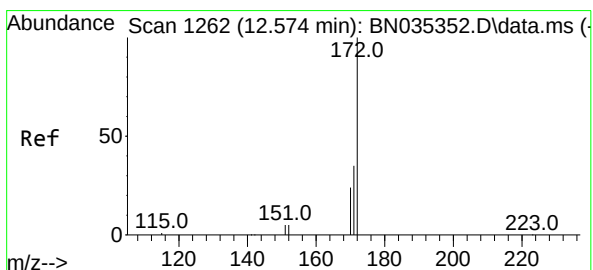
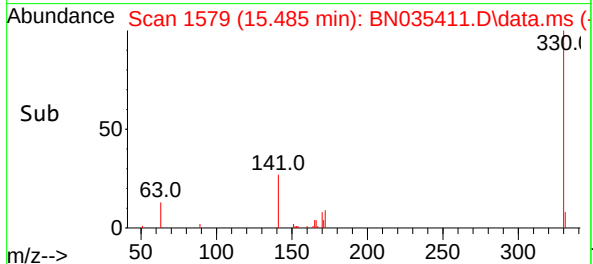
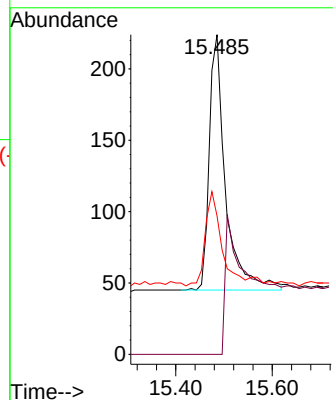
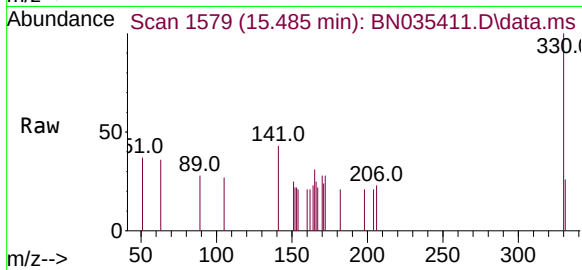




#14
2,4,6-Tribromophenol
Concen: 0.191 ng
RT: 15.485 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

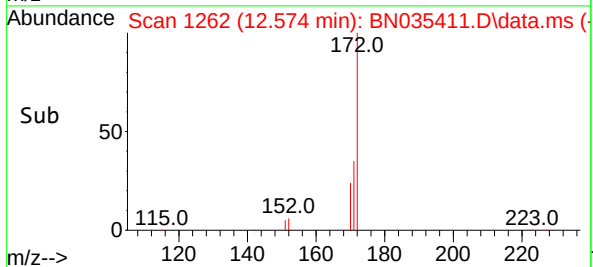
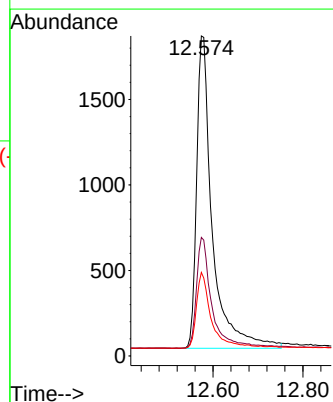
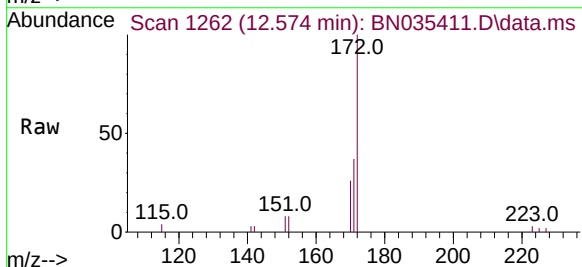
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

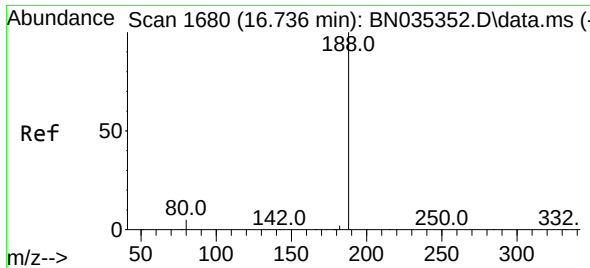
Tgt Ion:330 Resp: 441
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 40.8 26.6 40.0#



#15
2-Fluorobiphenyl
Concen: 0.360 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:172 Resp: 4425
Ion Ratio Lower Upper
172 100
171 37.0 29.0 43.4
170 26.1 19.8 29.8

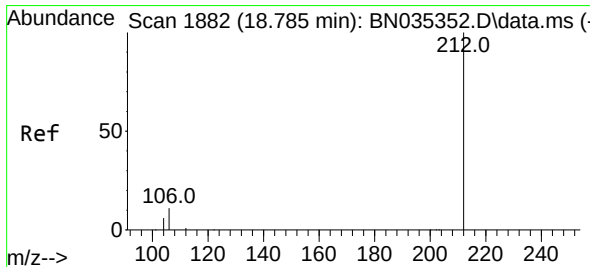
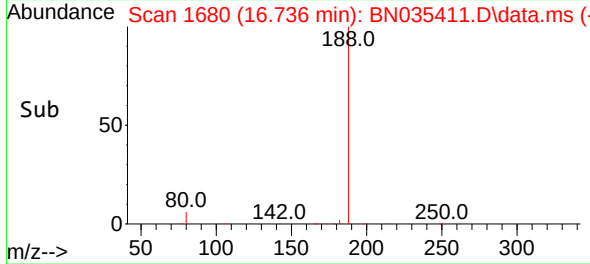
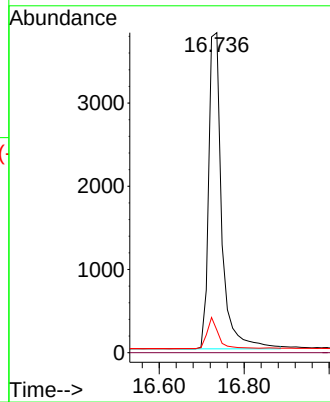
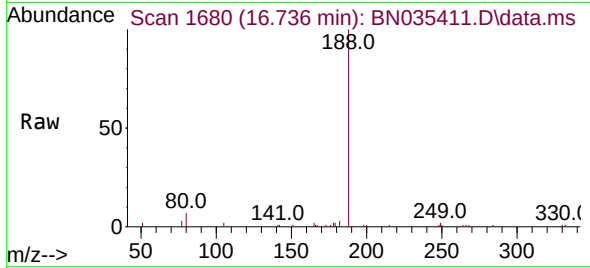




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

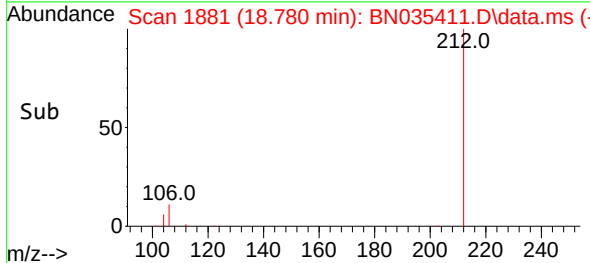
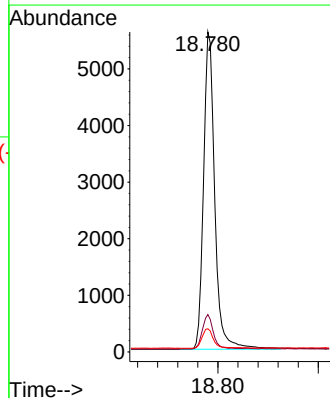
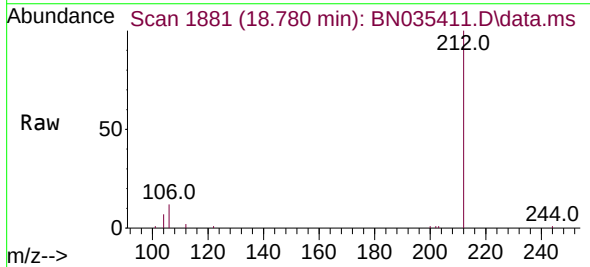
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

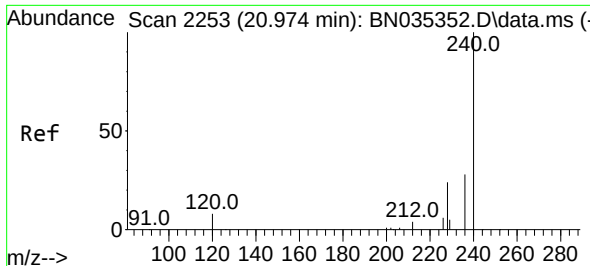
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.0	4.6	6.8



#27
Fluoranthene-d10
Concen: 0.377 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.005 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.5	9.2	13.8
104	6.5	5.3	7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241202

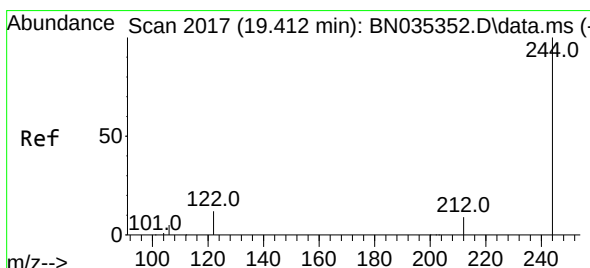
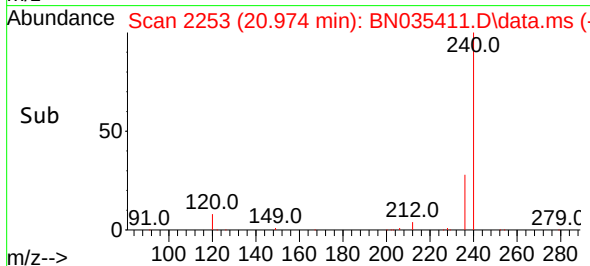
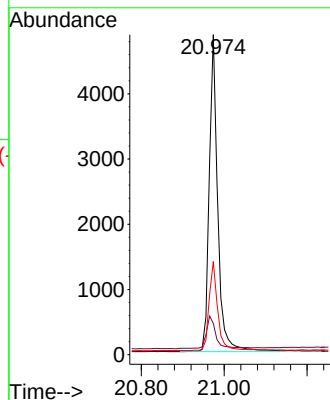
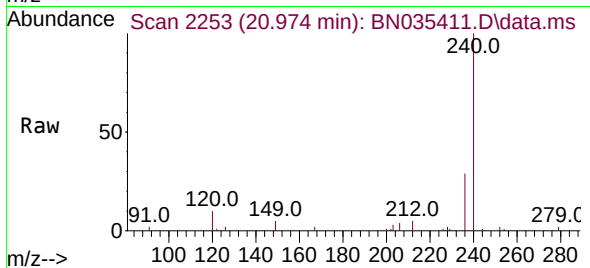
Tgt Ion:240 Resp: 6931

Ion Ratio Lower Upper

240 100

120 9.7 7.9 11.9

236 29.1 22.9 34.3



#31

Terphenyl-d14

Concen: 0.578 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

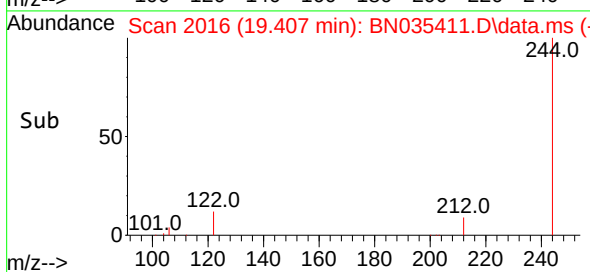
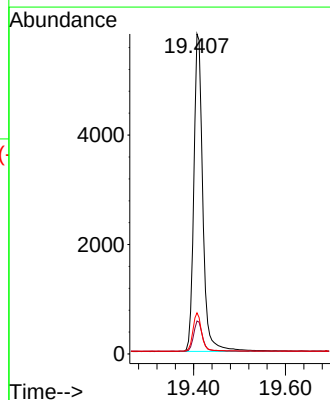
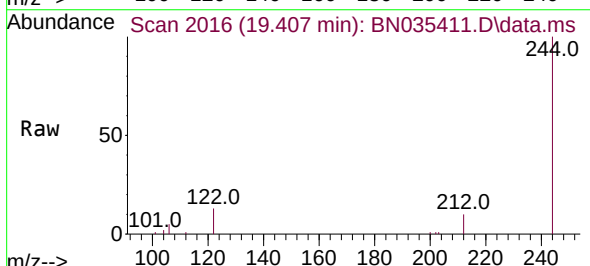
Tgt Ion:244 Resp: 7900

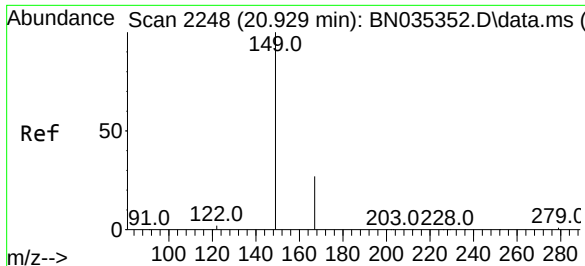
Ion Ratio Lower Upper

244 100

212 10.3 8.1 12.1

122 12.9 10.3 15.5

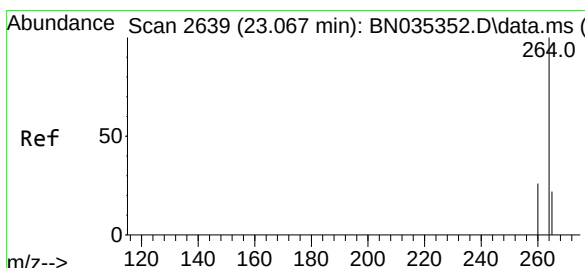
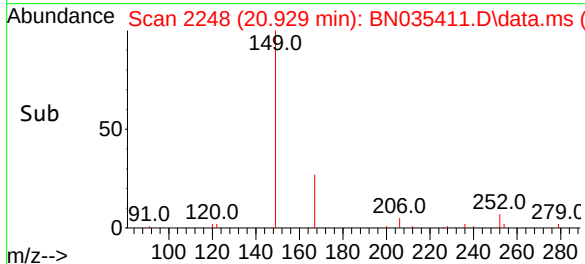
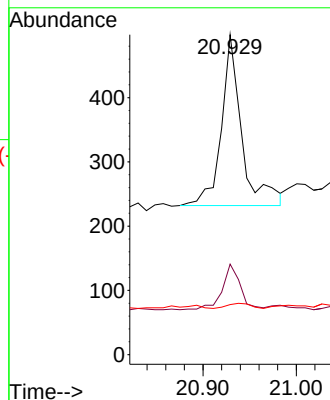
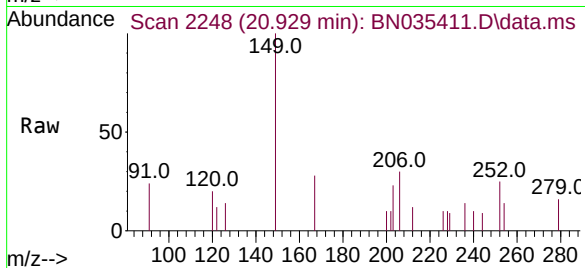




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.042 ng
RT: 20.929 min Scan# 211
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

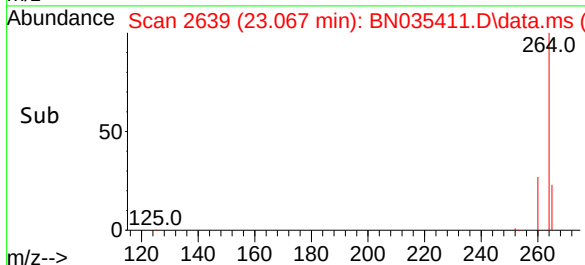
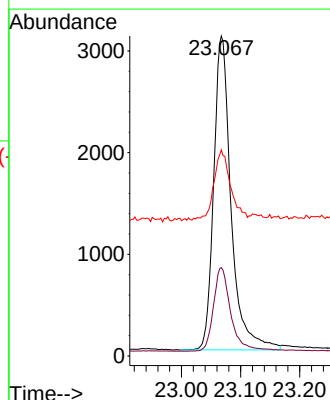
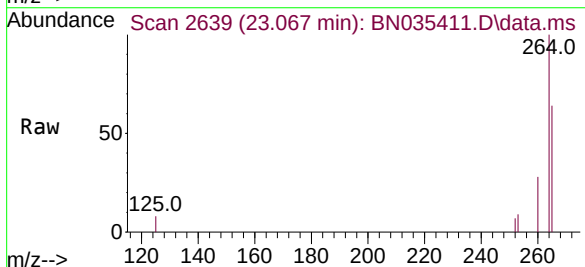
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

Tgt Ion:	149	Resp:	402
Ion	Ratio	Lower	Upper
149	100		
167	23.9	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: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:	264	Resp:	6312
Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.4	32.2
265	64.4	40.2	60.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/02/24	
Project:	CTO WE13		Date Received:	12/03/24	
Client Sample ID:	RW7-SP300A-20241202		SDG No.:	P5065	
Lab Sample ID:	P5065-06		Matrix:	Water	
Analytical Method:	SW8270SIM		% 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 :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035412.D	1	12/03/24 12:30	12/03/24 20:36	PB165348

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.57		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	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.60	*	58 - 132		151%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1640	7.308				
1146-65-2	Naphthalene-d8	4080	10.052				
15067-26-2	Acenaphthene-d10	2950	13.956				
1517-22-2	Phenanthrene-d10	7430	16.723				
1719-03-5	Chrysene-d12	6340	20.973				
1520-96-3	Perylene-d12	5800	23.067				

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\BN120424\
Data File : BN035412.D
Acq On : 03 Dec 2024 20:36
Operator : RC/JU
Sample : P5065-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

Quant Time: Dec 03 22:06:12 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

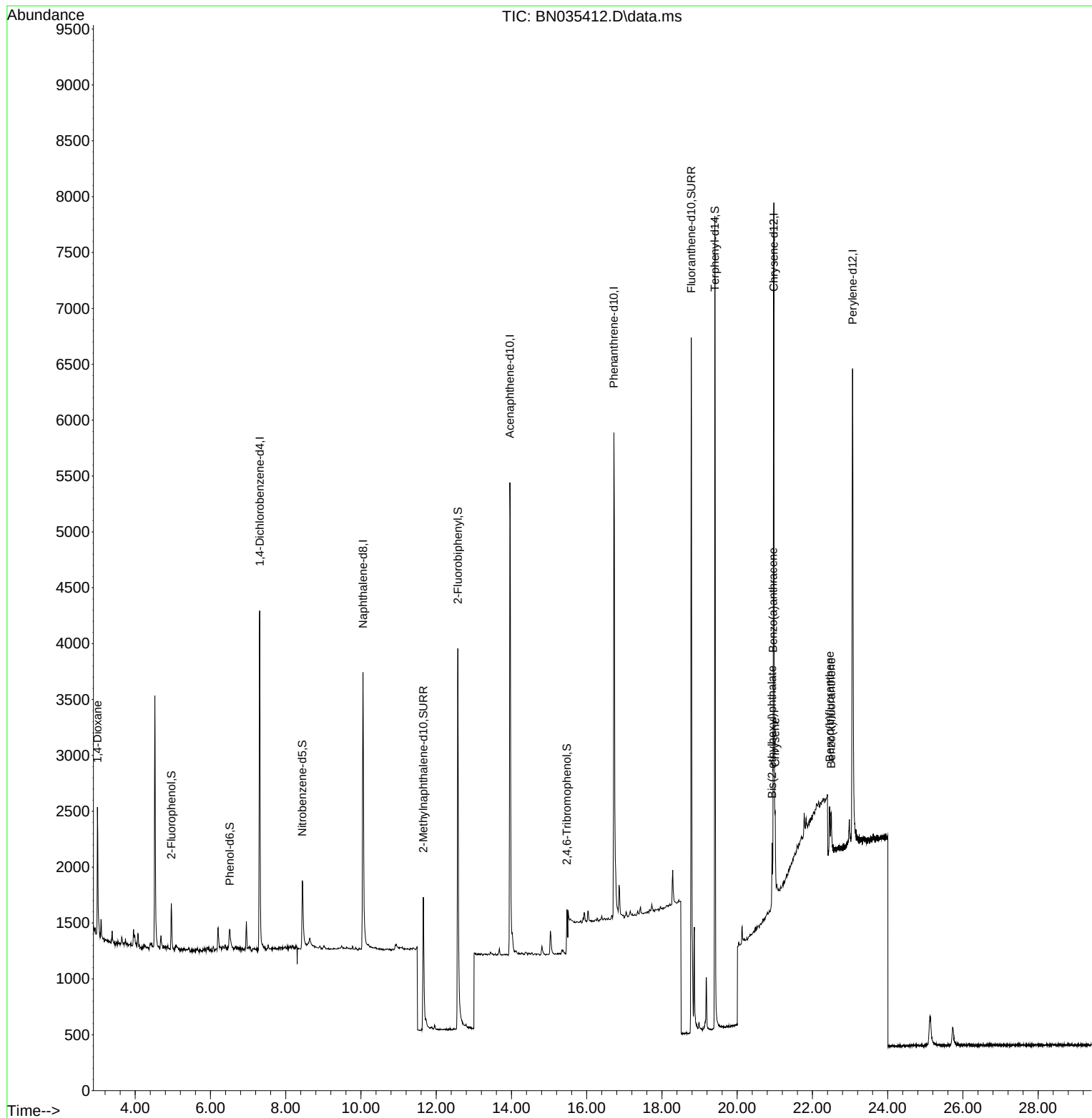
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1636	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4083	0.400	ng	0.00
13) Acenaphthene-d10	13.956	164	2951	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7433	0.400	ng	#-0.01
29) Chrysene-d12	20.973	240	6344	0.400	ng	0.00
35) Perylene-d12	23.067	264	5799	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	375	0.092	ng	0.00
5) Phenol-d6	6.513	99	224	0.045	ng	0.00
8) Nitrobenzene-d5	8.440	82	804	0.322	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2329	0.364	ng	0.00
14) 2,4,6-Tribromophenol	15.474	330	435	0.208	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	4173	0.374	ng	0.00
27) Fluoranthene-d10	18.780	212	7907	0.375	ng	0.00
31) Terphenyl-d14	19.407	244	7562	0.604	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.996	88	884	0.565	ng	98
32) Benzo(a)anthracene	20.956	228	457	0.021	ng	# 79
33) Chrysene	21.009	228	622	0.027	ng	# 85
34) Bis(2-ethylhexyl)phtha...	20.929	149	548	0.063	ng	# 98
37) Benzo(b)fluoranthene	22.456	252	598	0.028	ng	# 16
38) Benzo(k)fluoranthene	22.500	252	476	0.023	ng	# 4

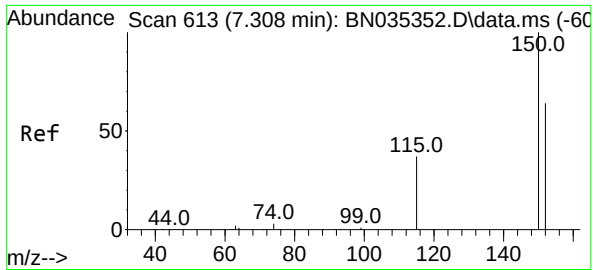
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035412.D
Acq On : 03 Dec 2024 20:36
Operator : RC/JU
Sample : P5065-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

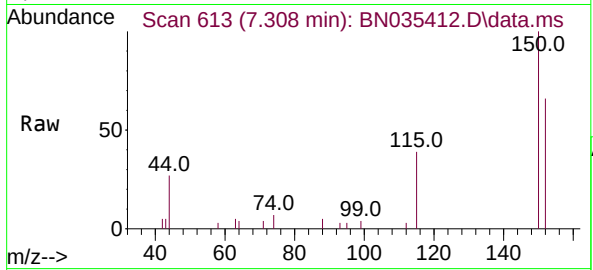
Quant Time: Dec 03 22:06:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



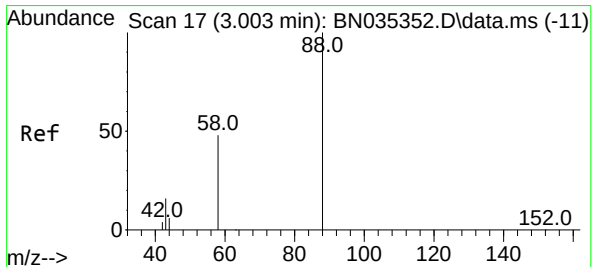
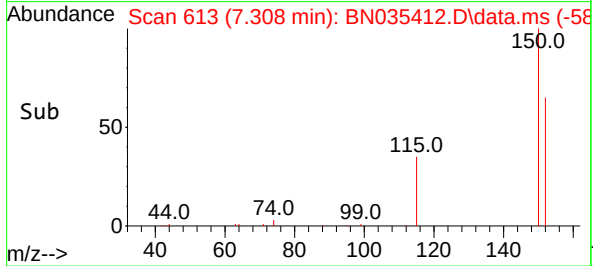
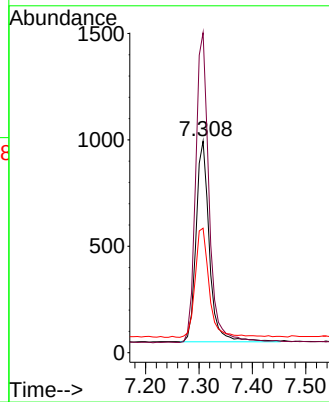


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

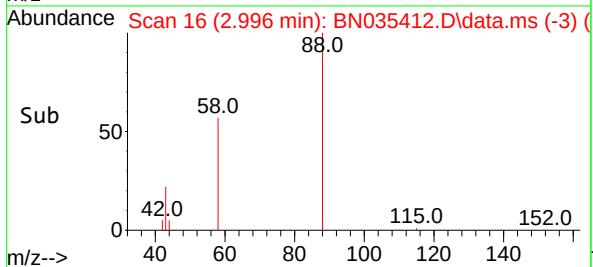
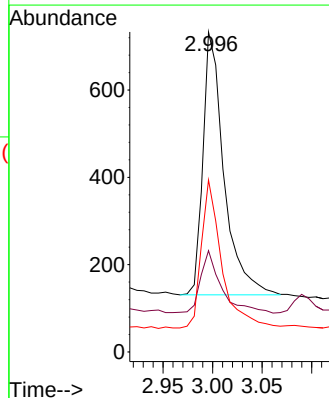
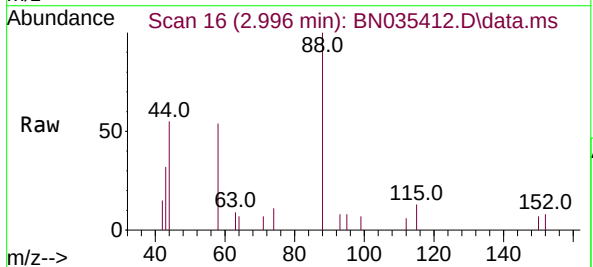


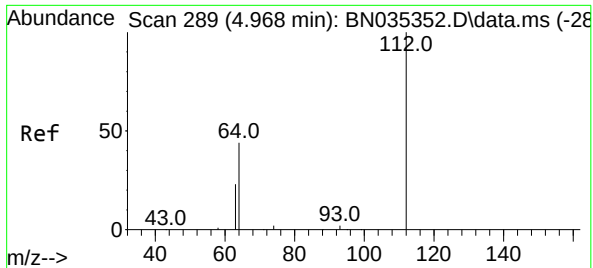
Tgt Ion:152 Resp: 1636
Ion Ratio Lower Upper
152 100
150 151.3 124.0 186.0
115 58.9 49.6 74.4



#2
1,4-Dioxane
Concen: 0.565 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion: 88 Resp: 884
Ion Ratio Lower Upper
88 100
43 23.6 17.2 25.8
58 54.8 44.5 66.7

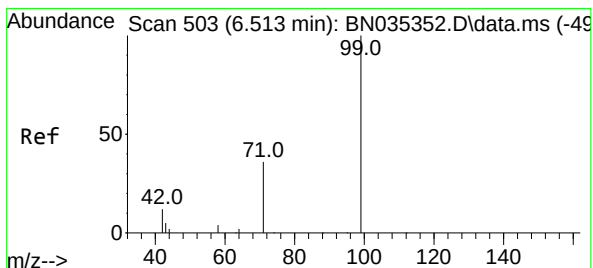
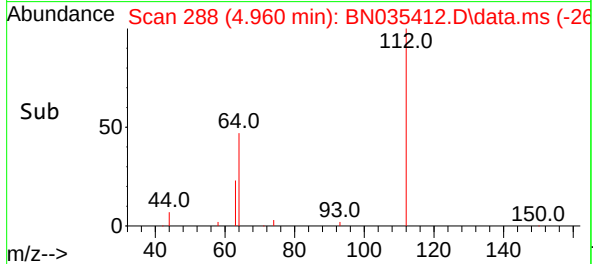
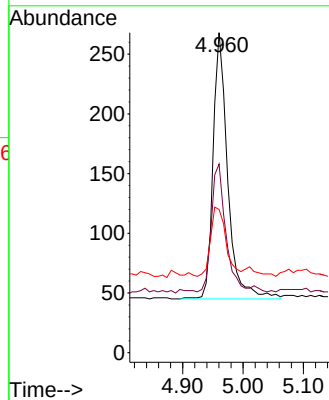
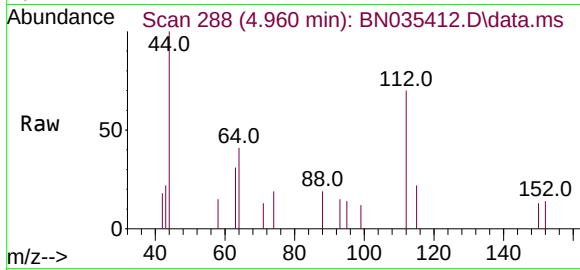




#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.007 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

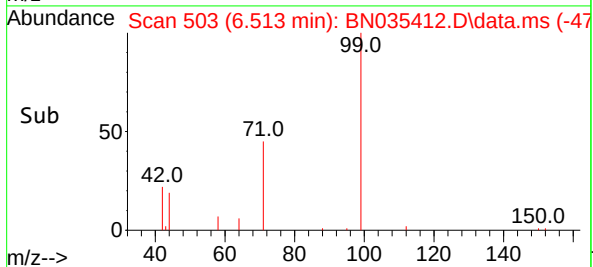
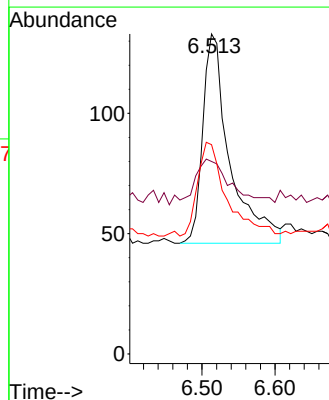
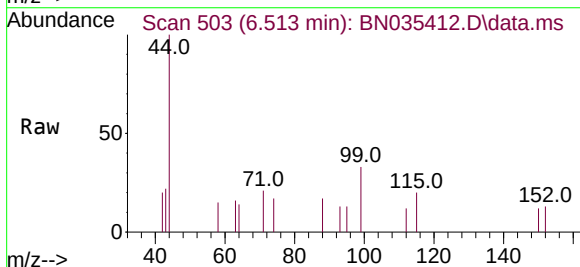
Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

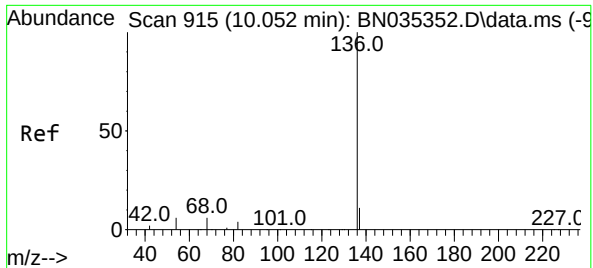
Tgt Ion:	112	Resp:	375
Ion	Ratio	Lower	Upper
112	100		
64	46.9	39.8	59.8
63	27.2	21.0	31.6



#5
Phenol-d6
Concen: 0.045 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion:	99	Resp:	224
Ion	Ratio	Lower	Upper
99	100		
42	24.6	11.4	17.2#
71	48.7	29.3	43.9#

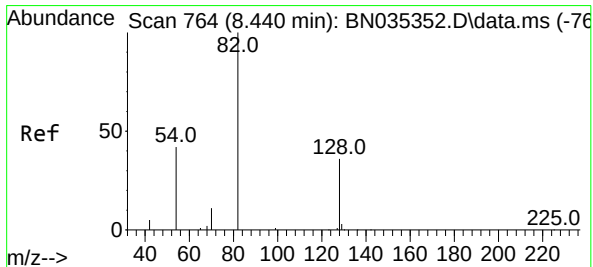
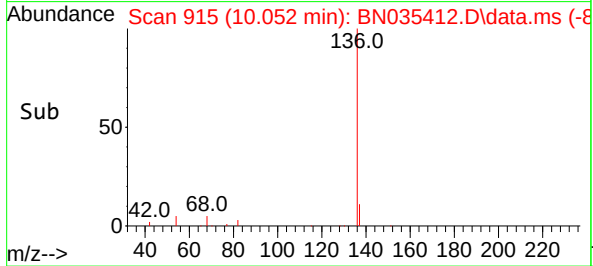
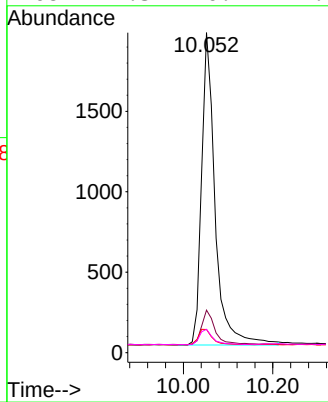
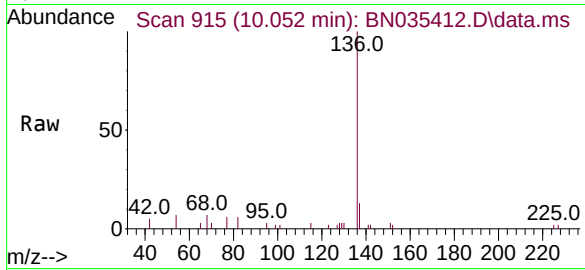




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

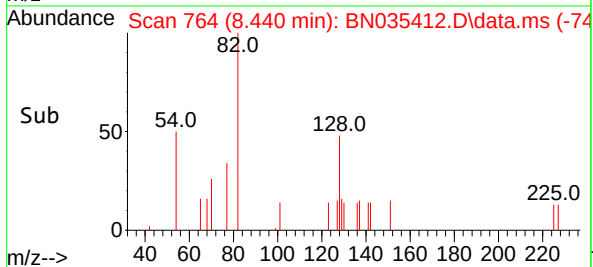
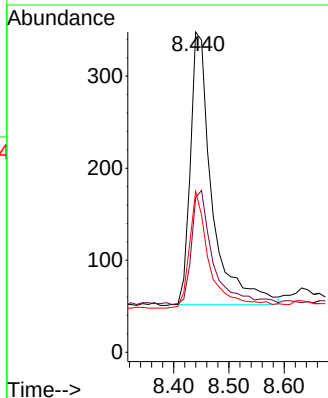
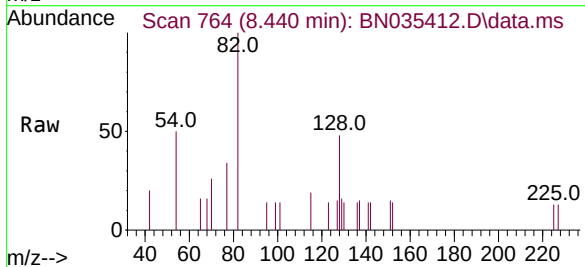
Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

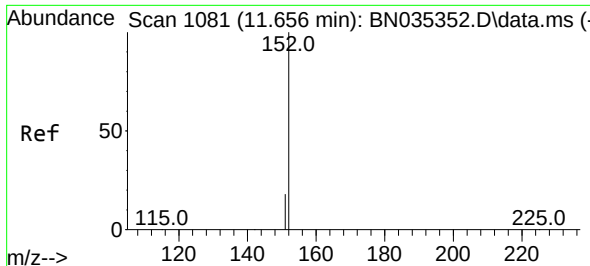
Tgt Ion:	136	Resp:	4083
Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.2	15.2
54	7.2	6.1	9.1
68	7.3	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion:	82	Resp:	804
Ion	Ratio	Lower	Upper
82	100		
128	48.3	33.4	50.0
54	50.3	36.7	55.1

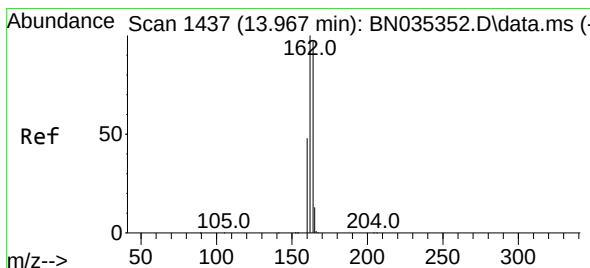
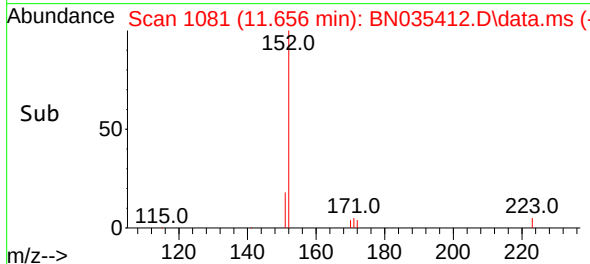
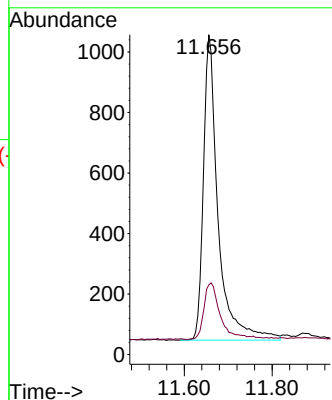
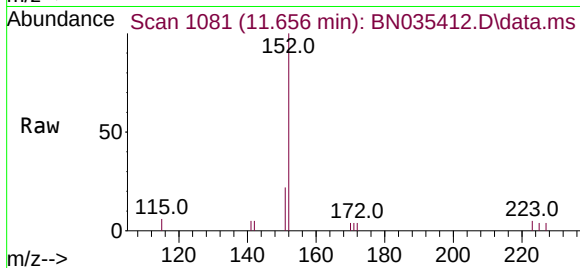




#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

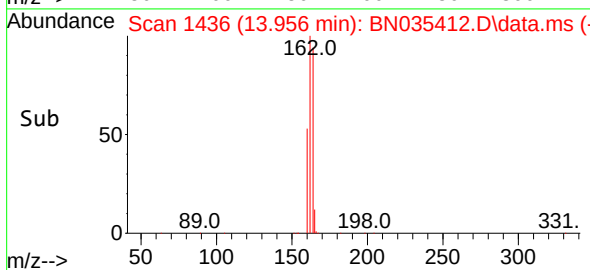
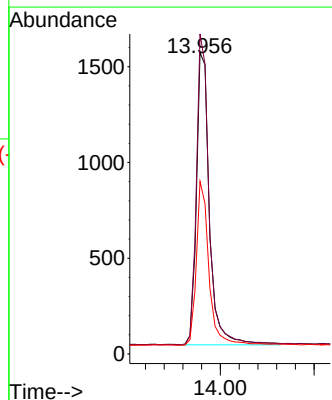
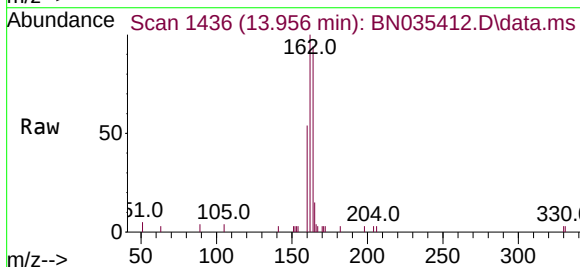
Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

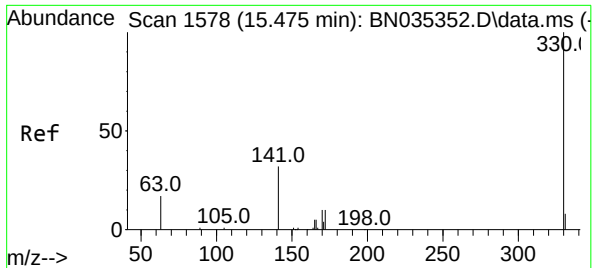
Tgt Ion:152 Resp: 2329
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion:164 Resp: 2951
Ion Ratio Lower Upper
164 100
162 106.2 82.2 123.2
160 57.3 40.1 60.1

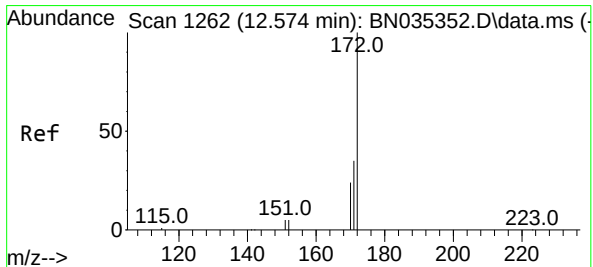
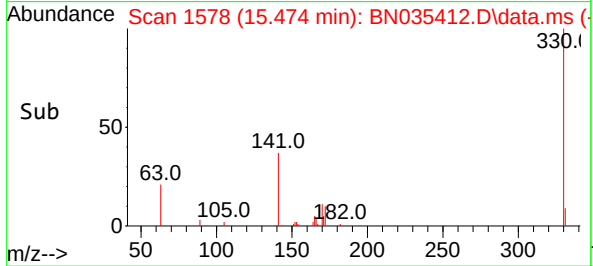
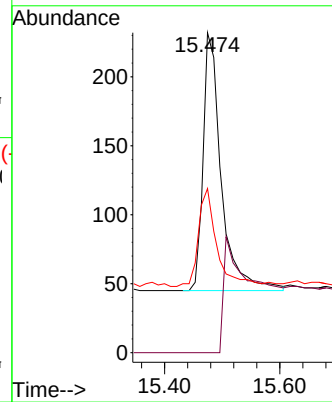
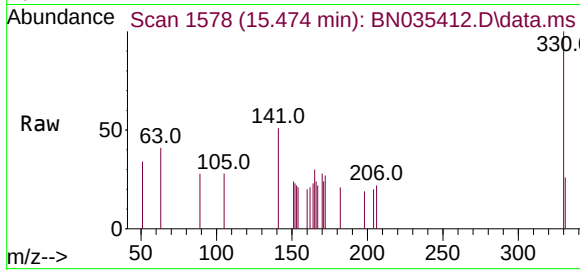




#14
2,4,6-Tribromophenol
Concen: 0.208 ng
RT: 15.474 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

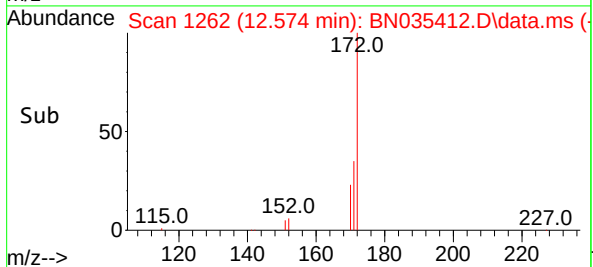
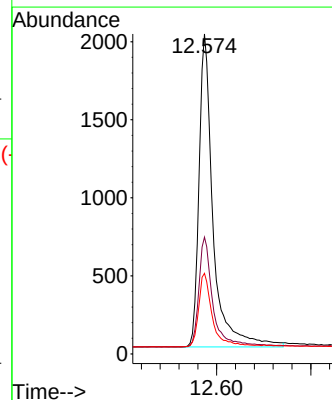
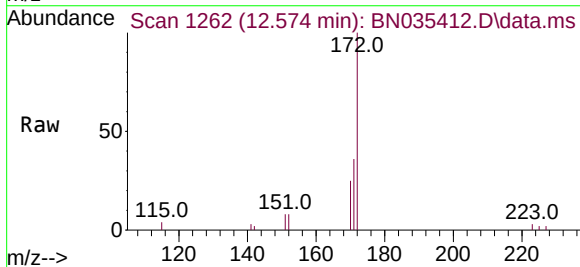
Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

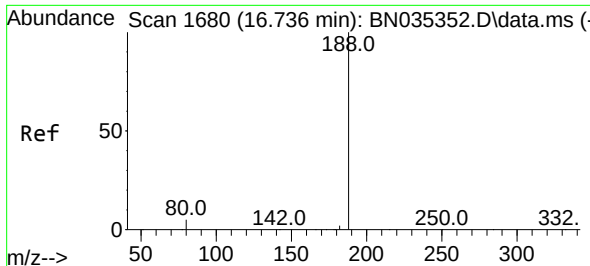
Tgt Ion	330	332	141
Resp:	435		
Ion Ratio	100	0.0	39.1
Lower		0.0	26.6
Upper		0.0	40.0



#15
2-Fluorobiphenyl
Concen: 0.374 ng
RT: 12.574 min Scan# 1262
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion	172	171	170
Resp:	4173		
Ion Ratio	100	36.5	25.2
Lower		29.0	19.8
Upper		43.4	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :

BNA_N

ClientSampleId :

RW7-SP300A-20241202

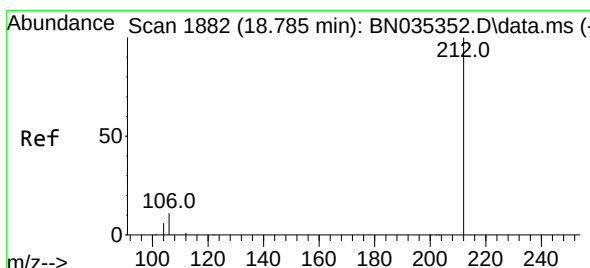
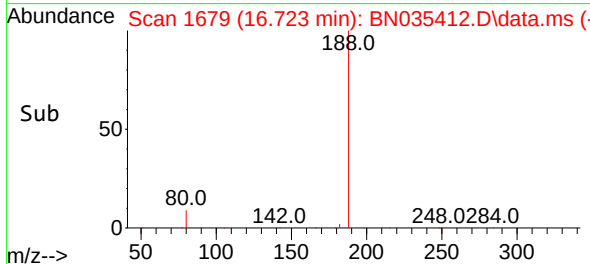
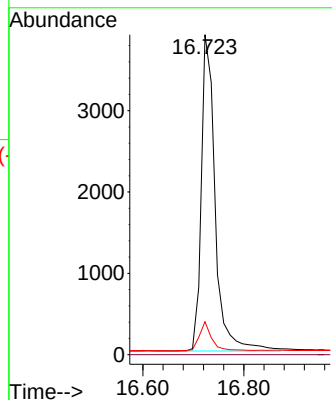
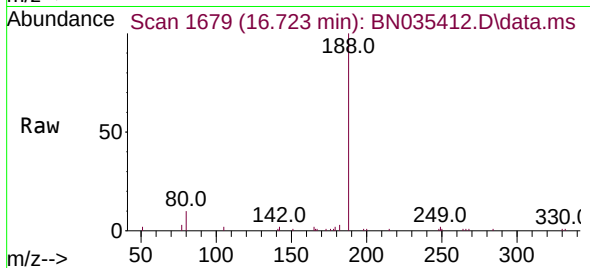
Tgt Ion:188 Resp: 7433

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 4.6 6.8#



#27

Fluoranthene-d10

Concen: 0.375 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.005 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

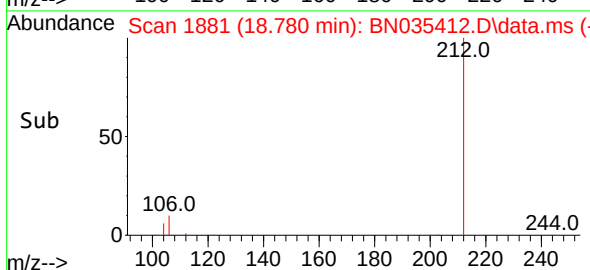
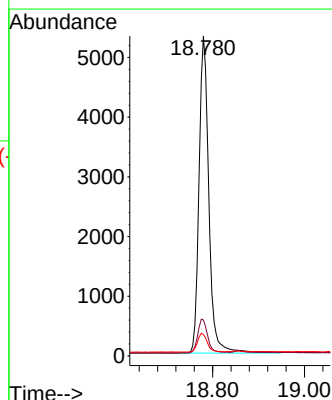
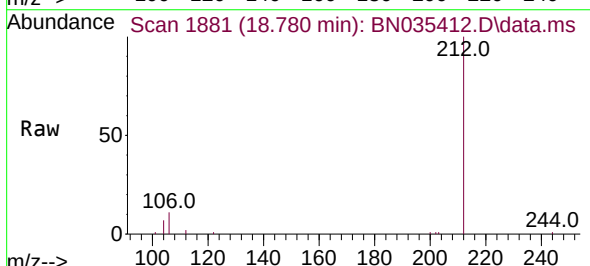
Tgt Ion:212 Resp: 7907

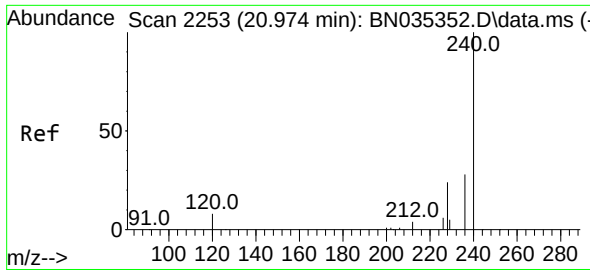
Ion Ratio Lower Upper

212 100

106 10.6 9.2 13.8

104 5.9 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.973 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :

BNA_N

ClientSampleId :

RW7-SP300A-20241202

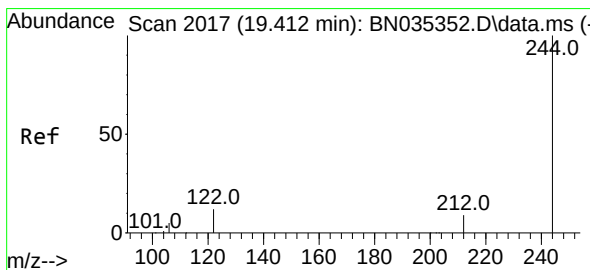
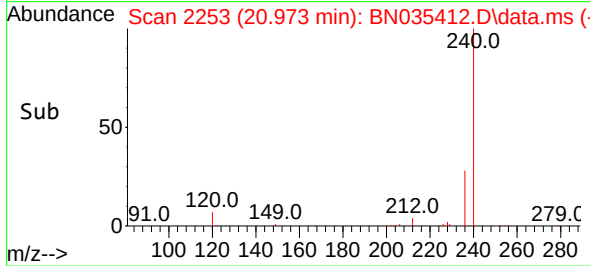
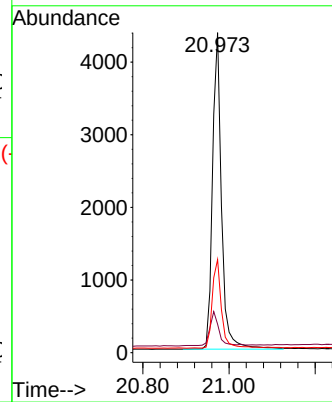
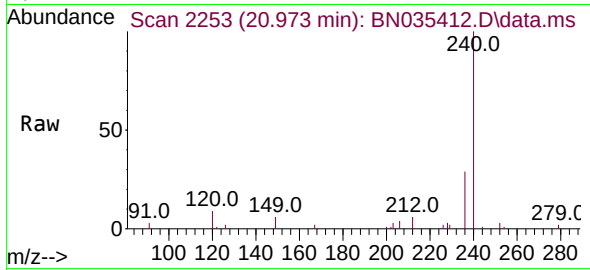
Tgt Ion:240 Resp: 6344

Ion Ratio Lower Upper

240 100

120 8.9 7.9 11.9

236 29.1 22.9 34.3



#31

Terphenyl-d14

Concen: 0.604 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

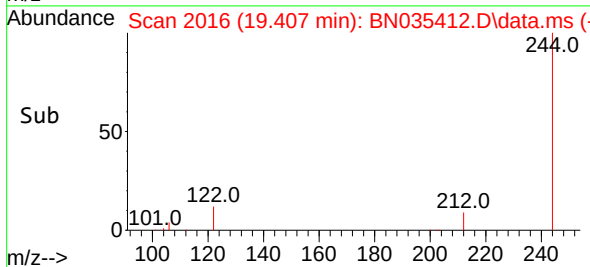
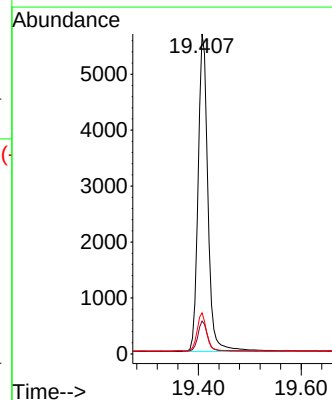
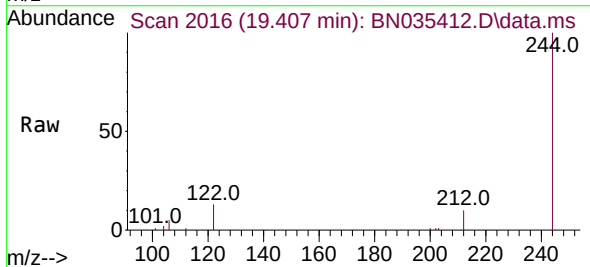
Tgt Ion:244 Resp: 7562

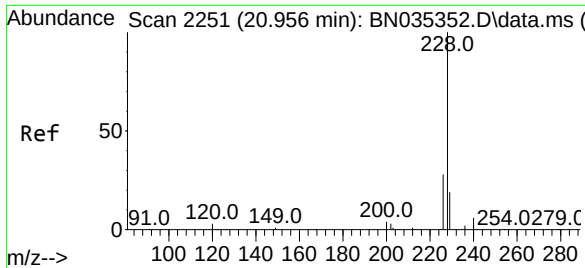
Ion Ratio Lower Upper

244 100

212 10.3 8.1 12.1

122 12.9 10.3 15.5

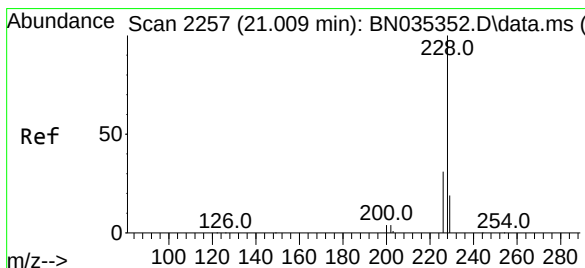
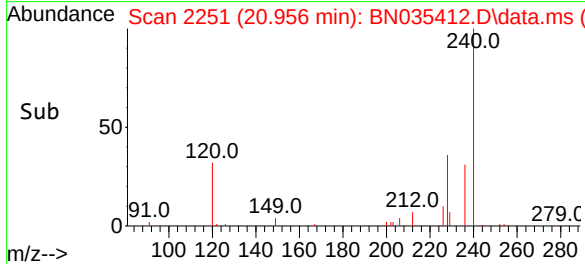
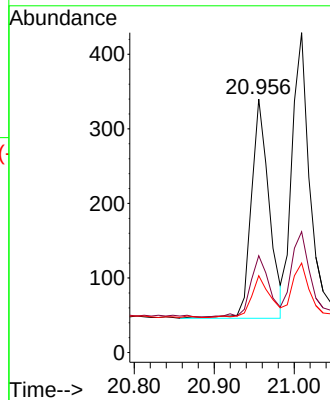
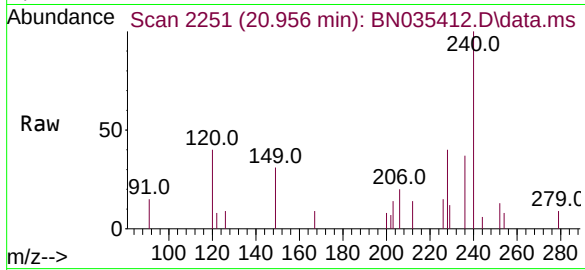




#32
Benzo(a)anthracene
Concen: 0.021 ng
RT: 20.956 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

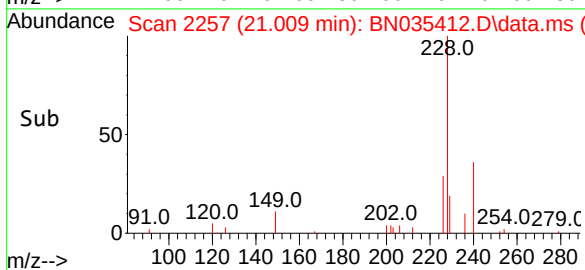
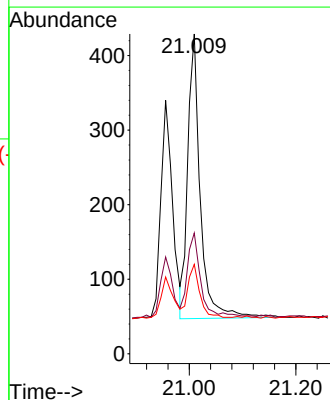
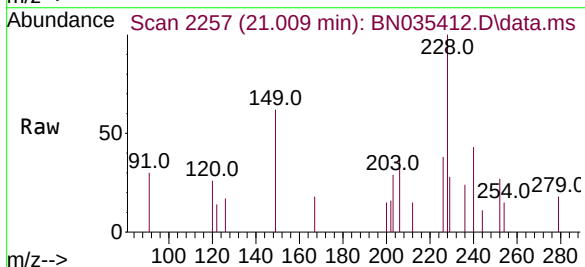
Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

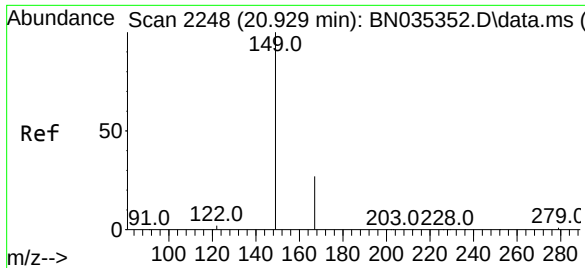
Tgt Ion:228 Resp: 457
Ion Ratio Lower Upper
228 100
226 38.2 22.5 33.7#
229 30.3 15.8 23.8#



#33
Chrysene
Concen: 0.027 ng
RT: 21.009 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion:228 Resp: 622
Ion Ratio Lower Upper
228 100
226 37.8 24.6 37.0#
229 28.0 15.9 23.9#

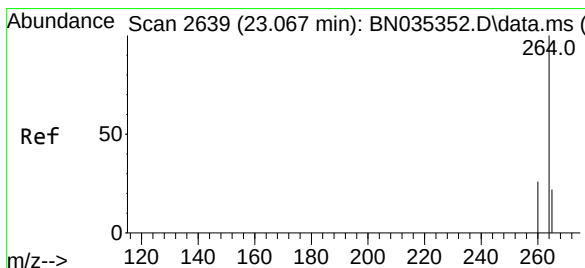
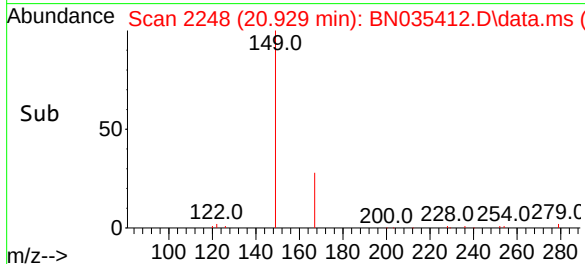
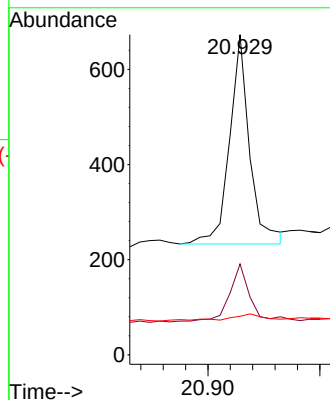
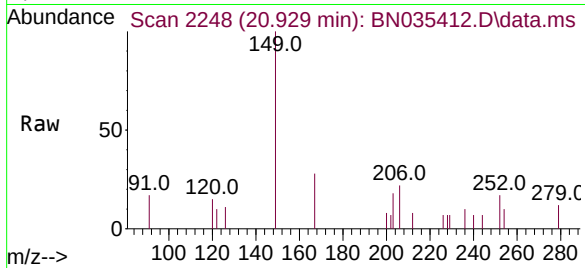




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.063 ng
RT: 20.929 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

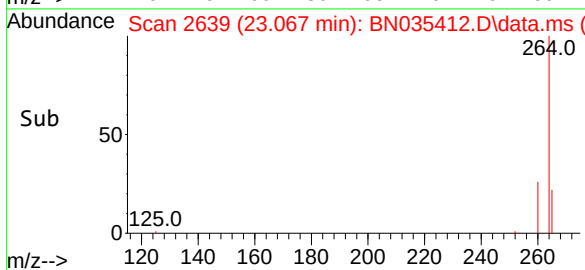
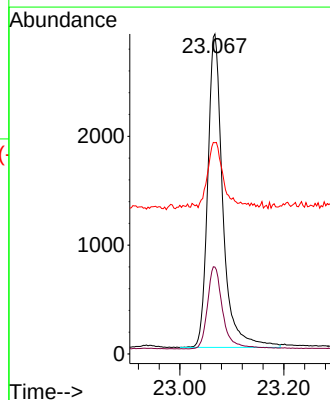
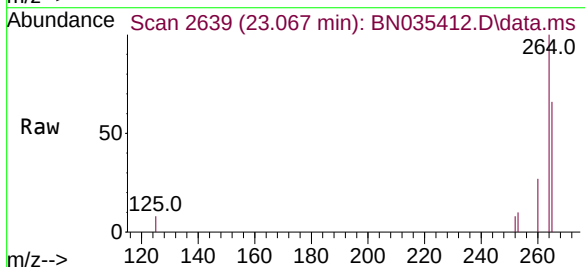
Instrument :
BNA_N
ClientSampleId :
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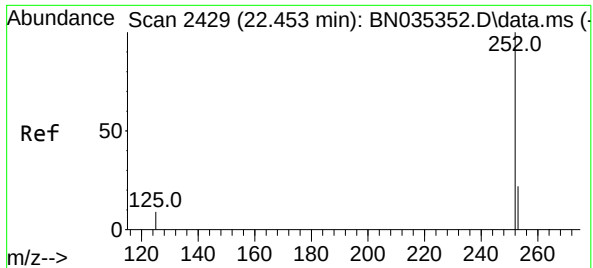
Tgt Ion:149 Resp: 548
Ion Ratio Lower Upper
149 100
167 27.0 22.2 33.4
279 4.2 2.7 4.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion:264 Resp: 5799
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 66.0 40.2 60.4#





#37

Benzo(b)fluoranthene

Concen: 0.028 ng

RT: 22.456 min Scan# 24

Delta R.T. 0.003 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :

BNA_N

ClientSampleId :

RW7-SP300A-20241202

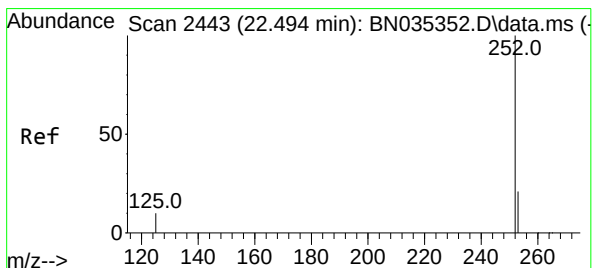
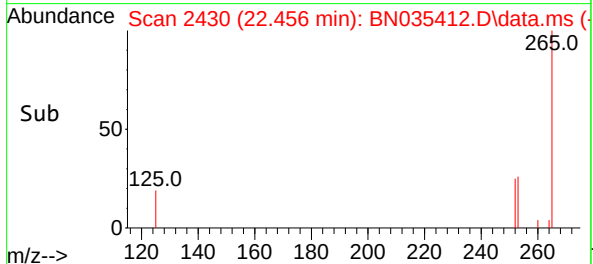
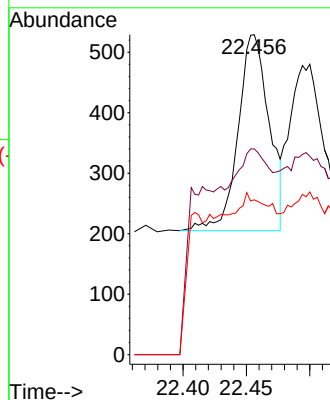
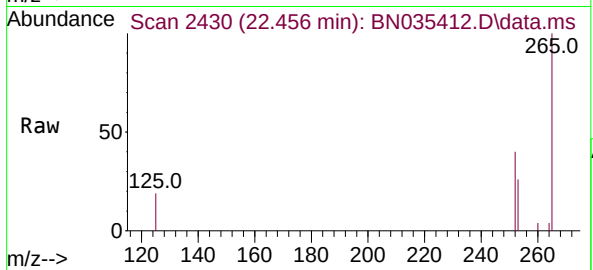
Tgt Ion:252 Resp: 598

Ion Ratio Lower Upper

252 100

253 64.3 19.6 29.4#

125 48.4 9.6 14.4#



#38

Benzo(k)fluoranthene

Concen: 0.023 ng

RT: 22.500 min Scan# 2445

Delta R.T. 0.006 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

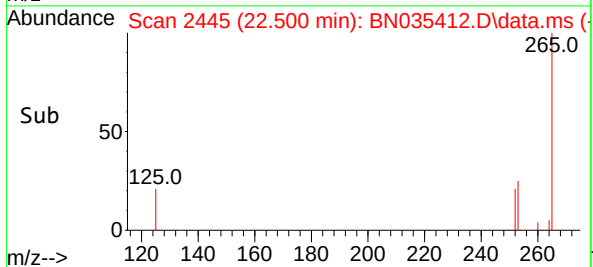
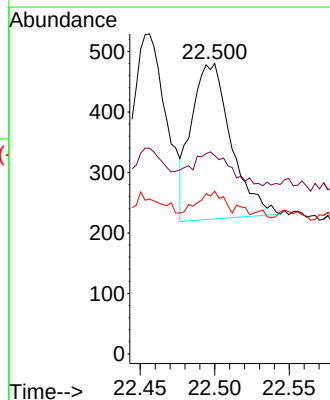
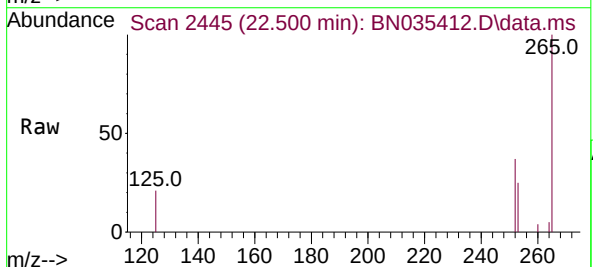
Tgt Ion:252 Resp: 476

Ion Ratio Lower Upper

252 100

253 68.3 19.5 29.3#

125 56.0 10.2 15.4#





CALIBRATION SUMMARY

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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) SURR2	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-----								

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

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

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	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						
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

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

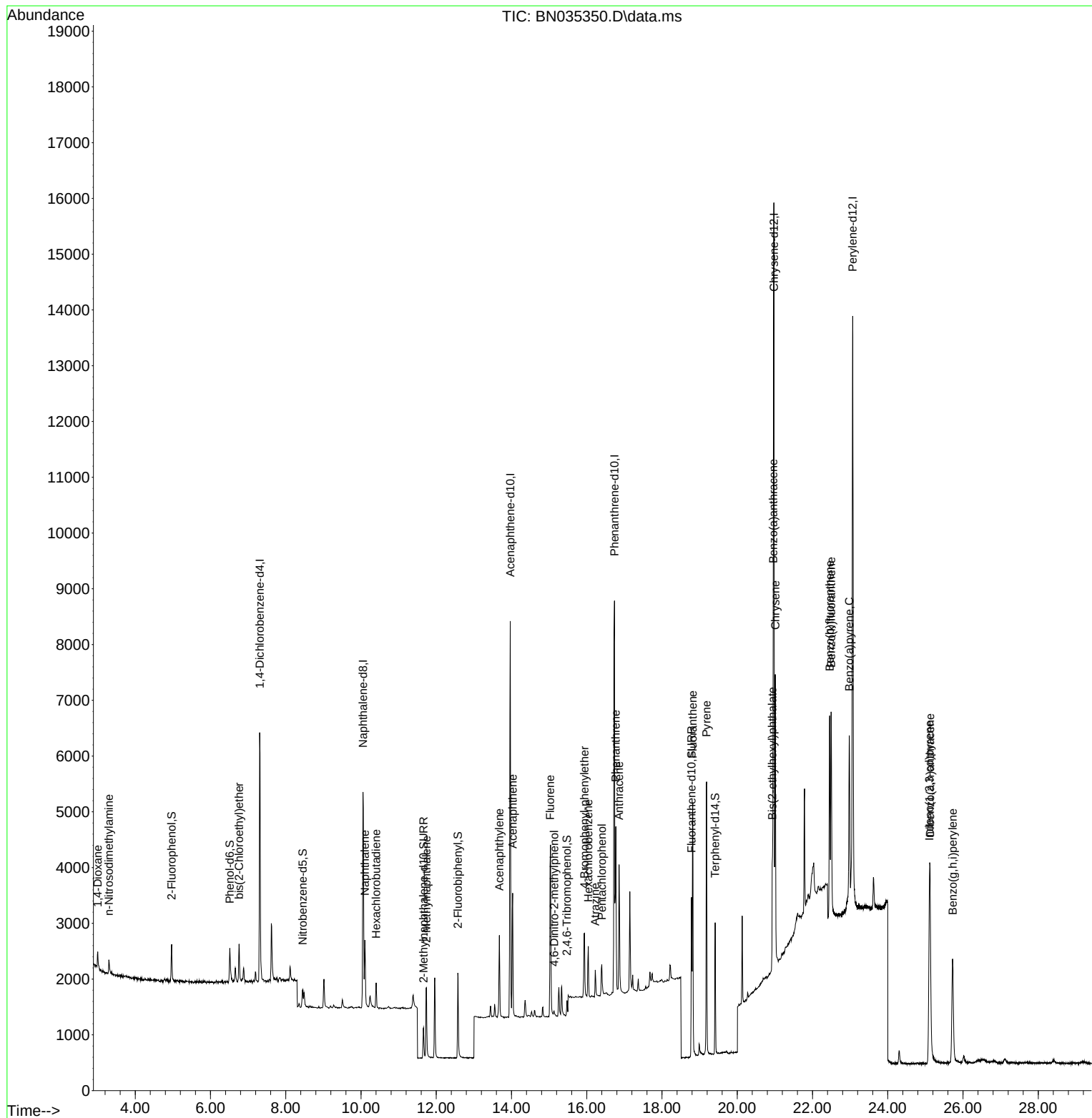
Manual Integrations

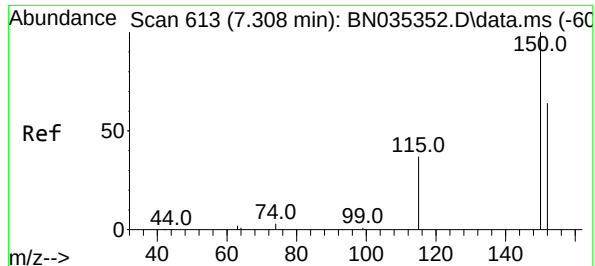
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

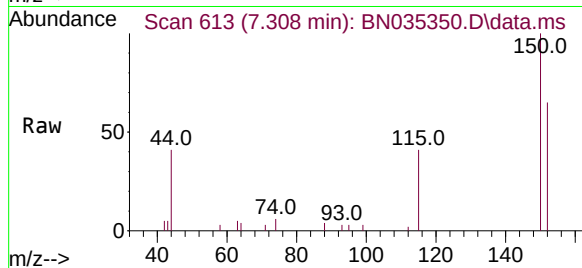
Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

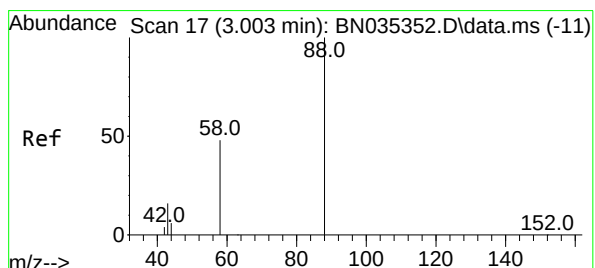
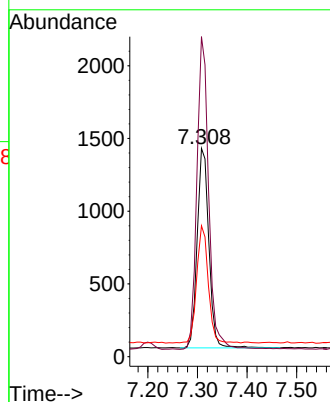
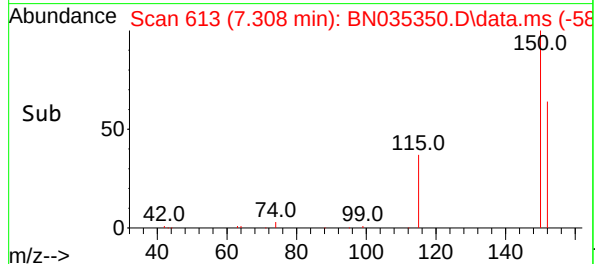
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 152 Resp: 223
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.8 49.6 74.4

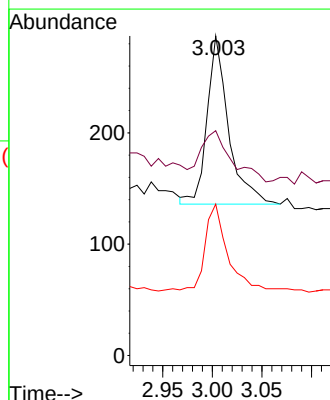
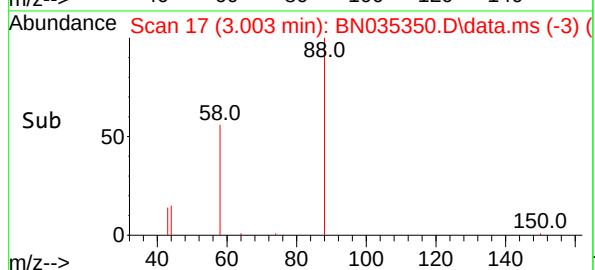
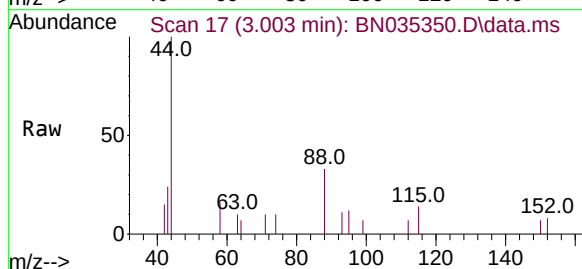
Manual Integrations
APPROVED

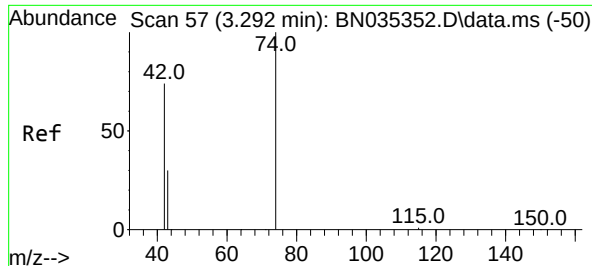
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

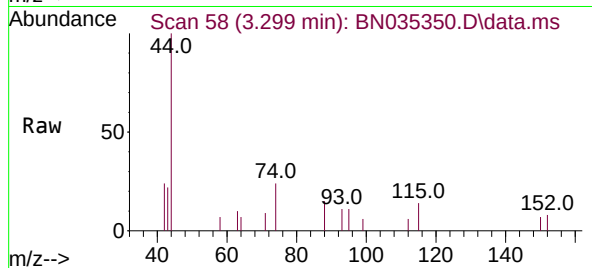
Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 41.4 17.2 25.8#
58 54.6 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 50
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

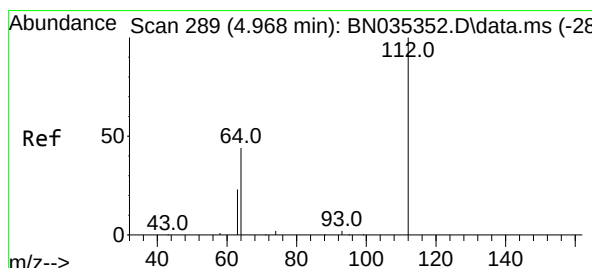
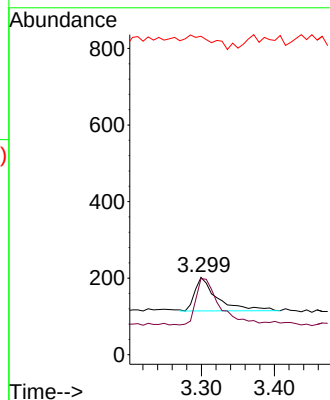
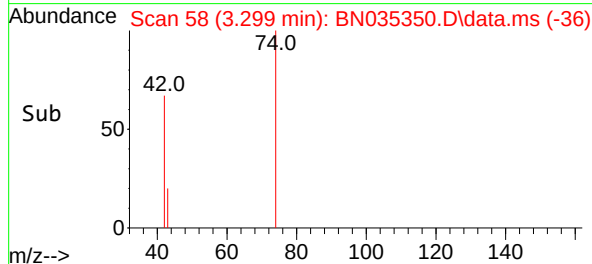
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

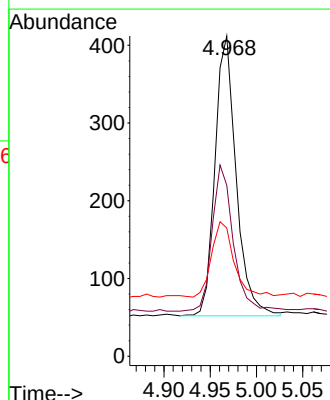
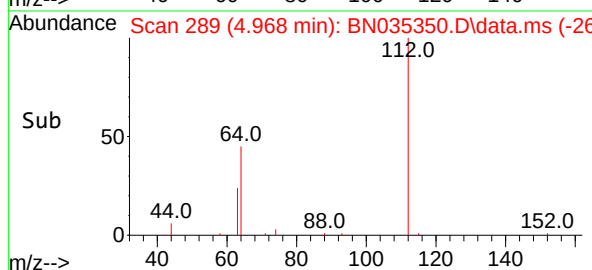
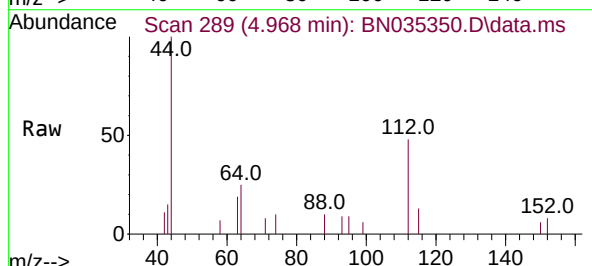
Manual Integrations
APPROVED

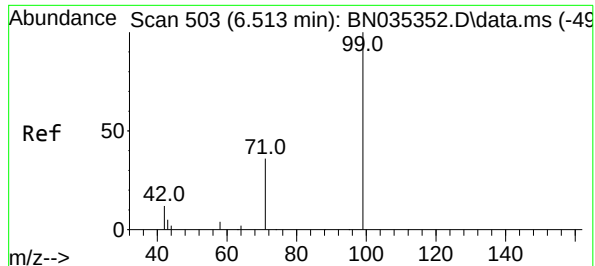
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

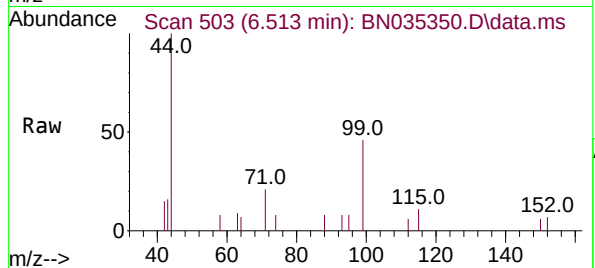
Tgt Ion:112 Resp: 573
Ion Ratio Lower Upper
112 100
64 52.0 39.8 59.8
63 28.8 21.0 31.6





#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

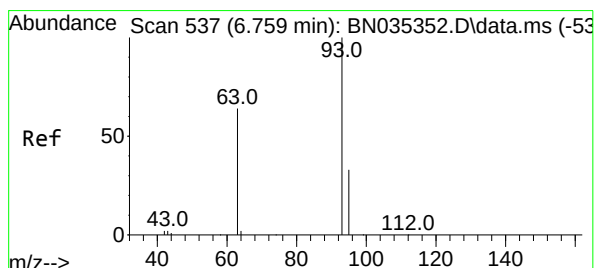
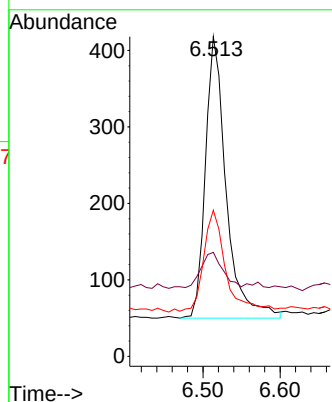
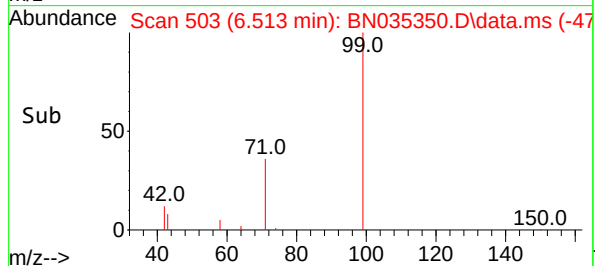
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 99 Resp: 680
Ion Ratio Lower Upper
99 100
42 13.7 11.4 17.2
71 38.9 29.3 43.9

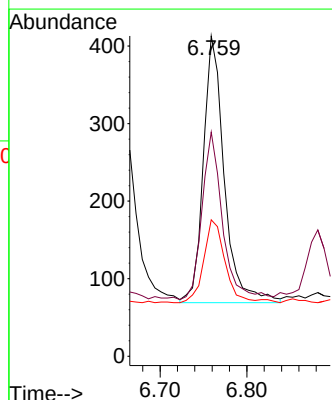
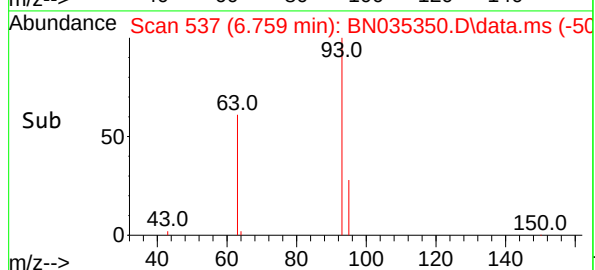
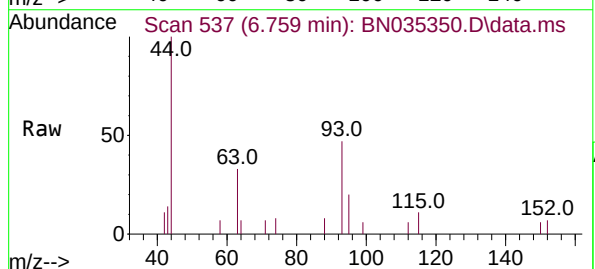
Manual Integrations
APPROVED

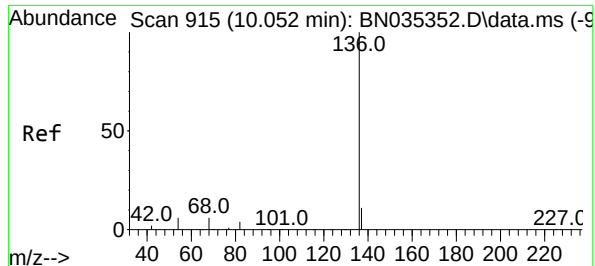
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





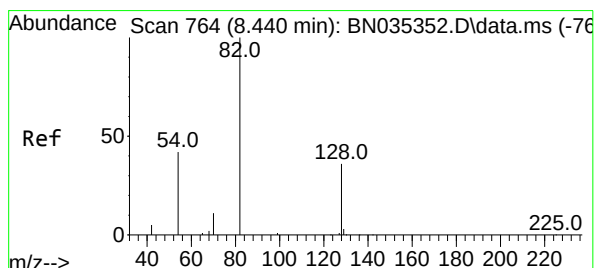
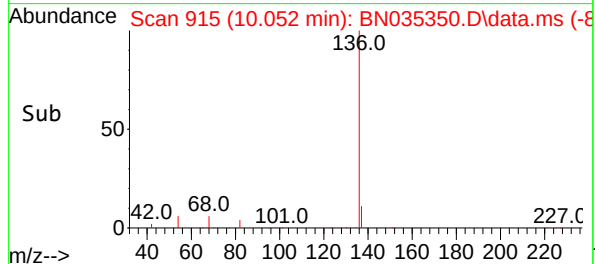
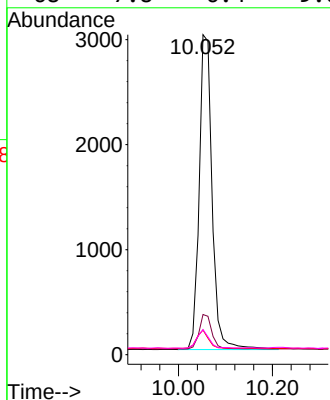
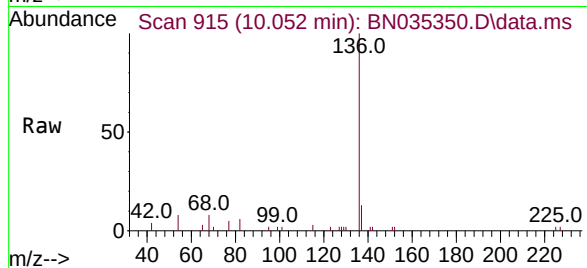
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 136 Resp: 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

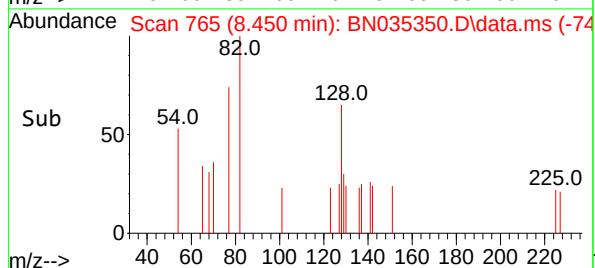
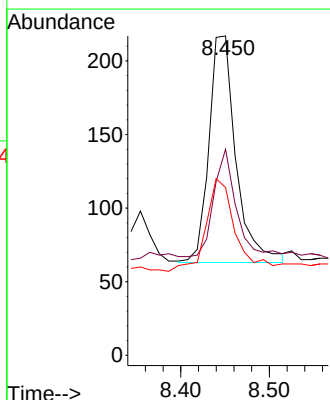
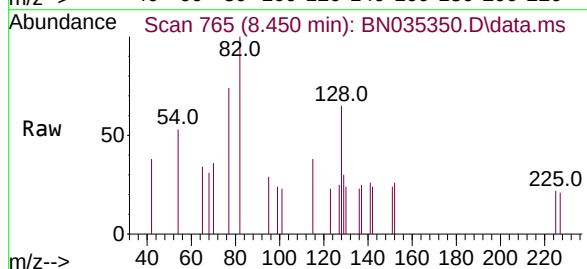
Manual Integrations
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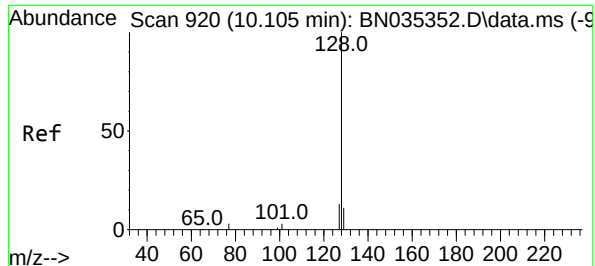
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





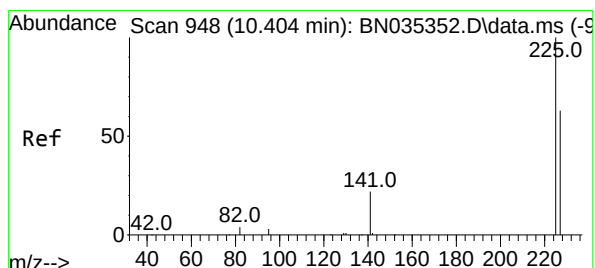
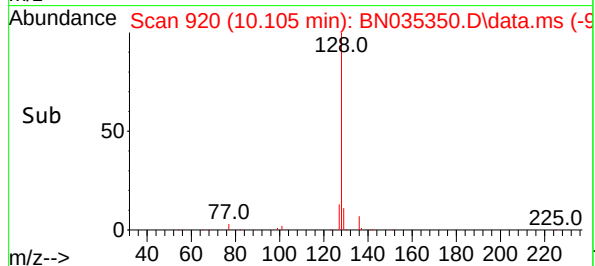
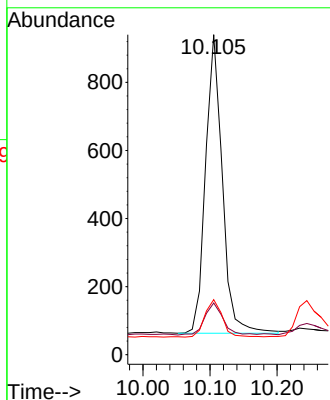
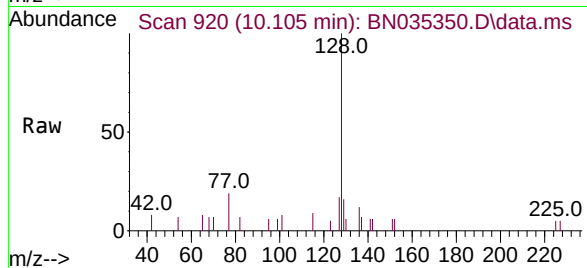
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 152
Ion Ratio Lower Upper
128 100
129 16.2 9.8 14.6
127 17.2 11.4 17.2

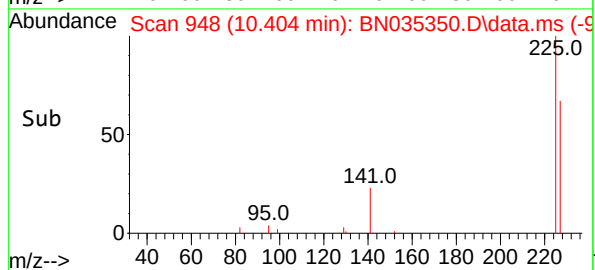
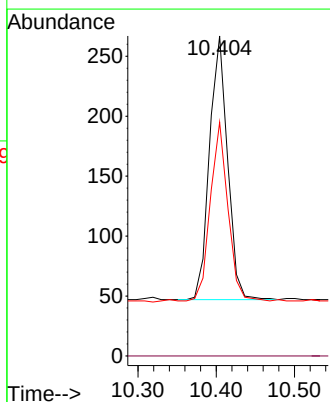
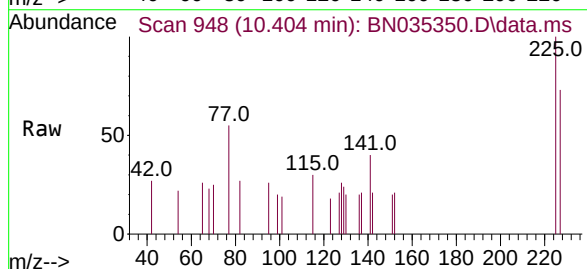
Manual Integrations
APPROVED

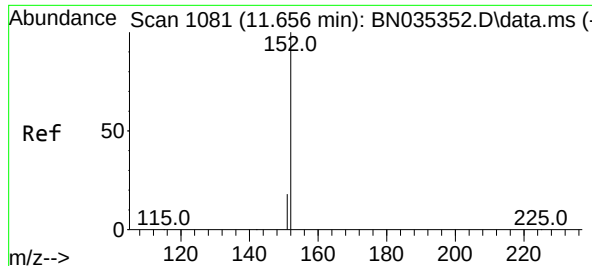
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

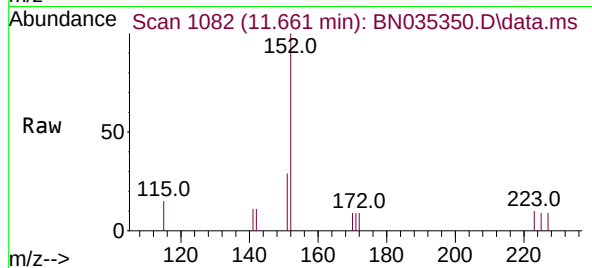
Tgt Ion:225 Resp: 352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1081
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

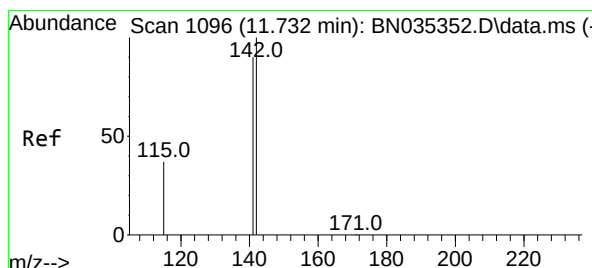
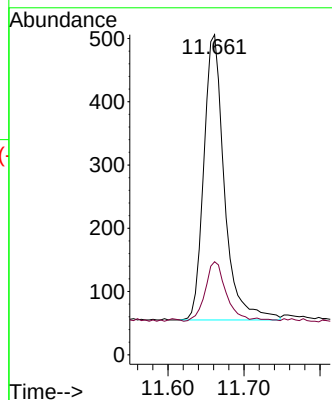
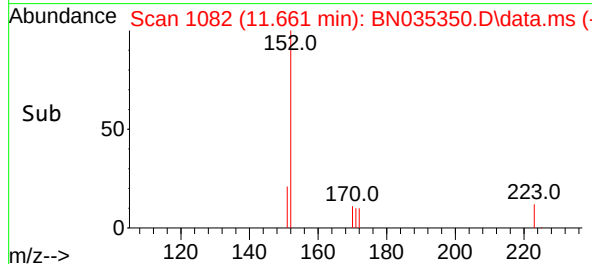
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



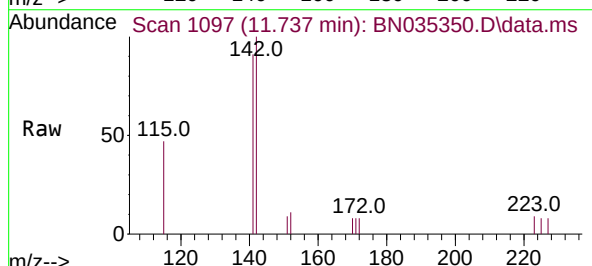
Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

Manual Integrations
APPROVED

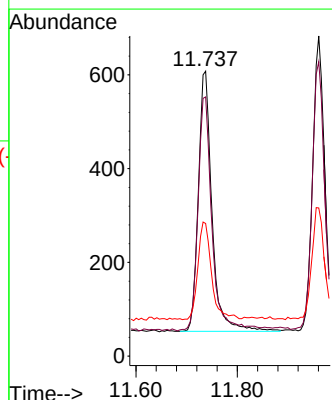
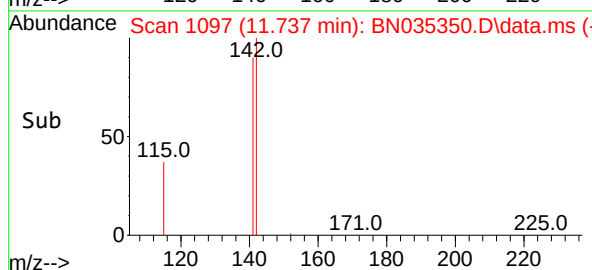
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

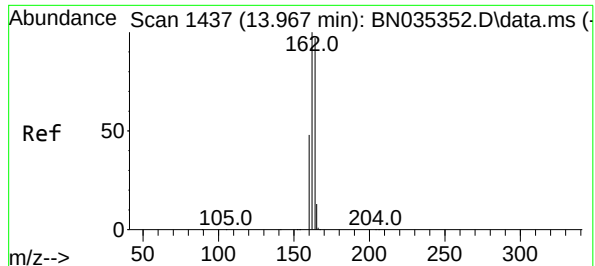


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



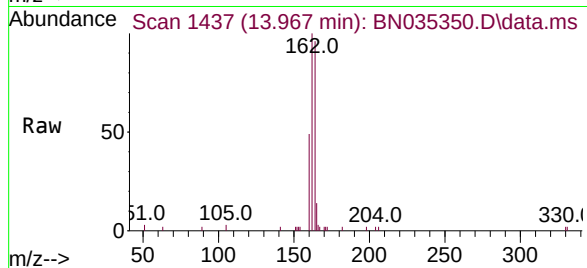
Tgt Ion:142 Resp: 1042
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 46.5 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

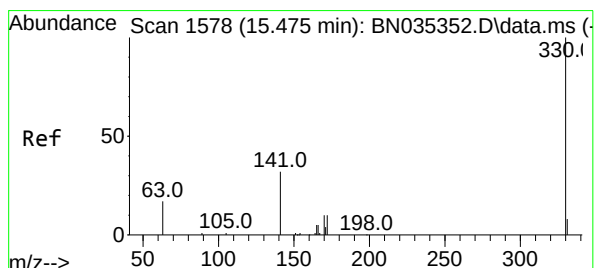
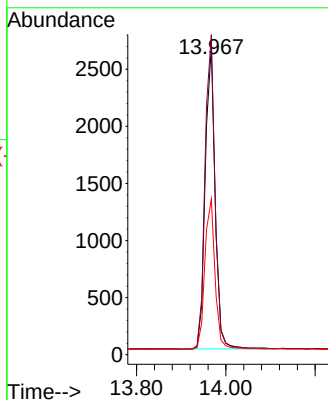
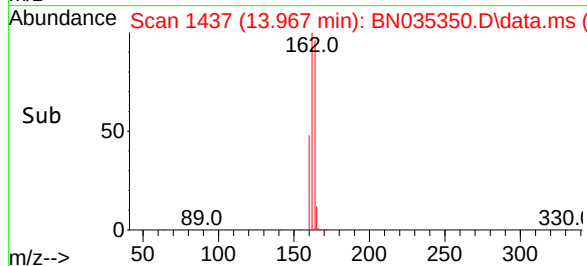
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



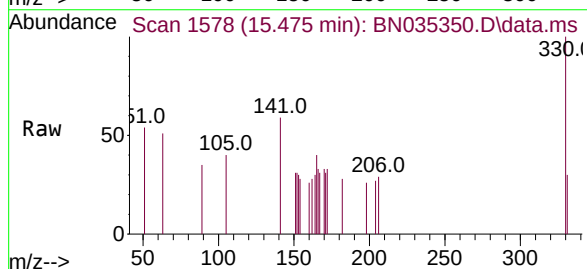
Tgt Ion:164 Resp: 407
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.4 40.1 60.1

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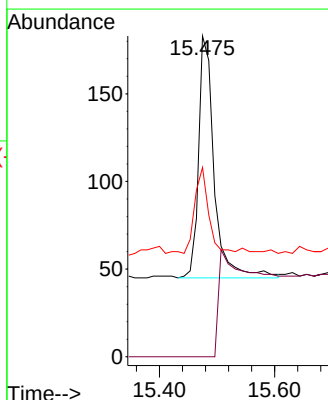
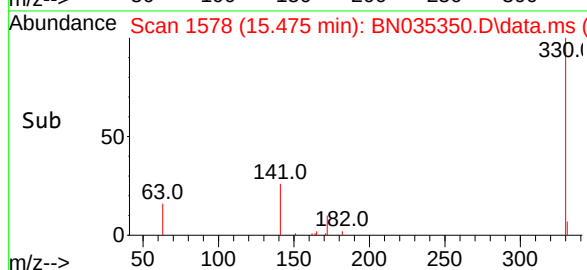
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

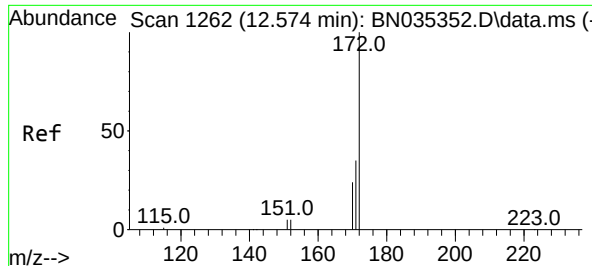


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



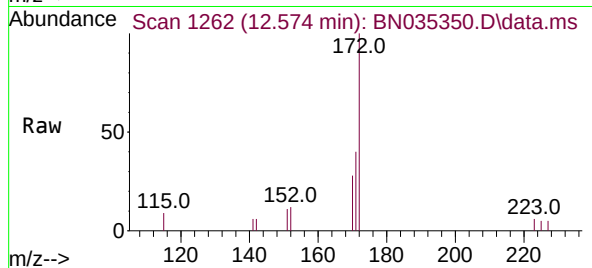
Tgt Ion:330 Resp: 278
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 29.1 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

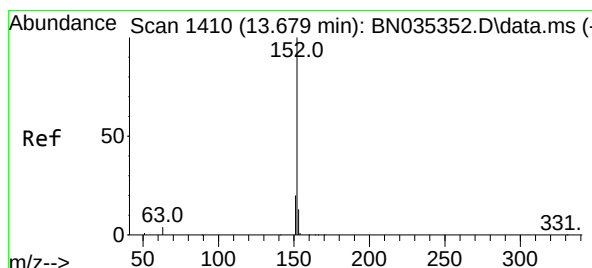
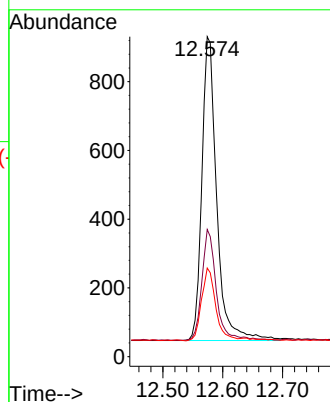
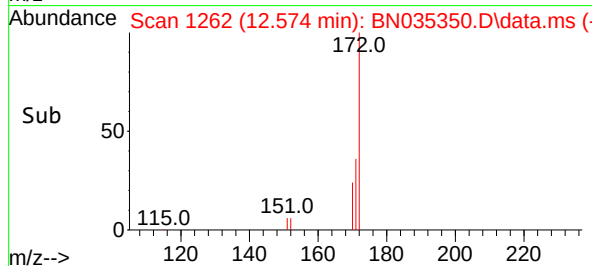
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

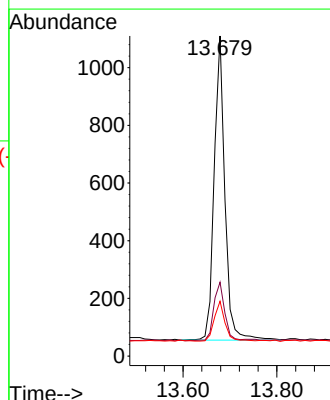
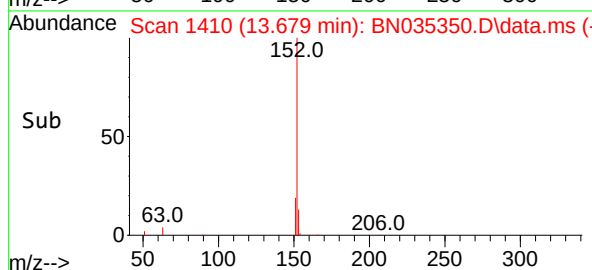
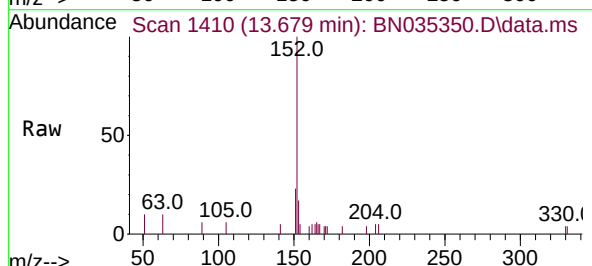
Manual Integrations
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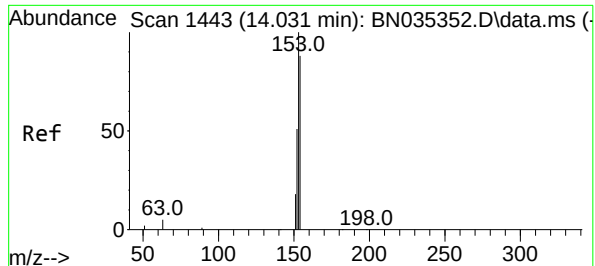
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

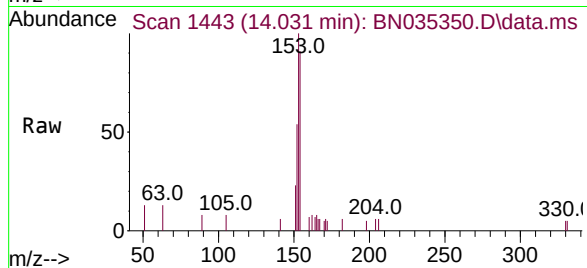
Tgt Ion:152 Resp: 1675
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2
153 13.1 10.4 15.6





#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

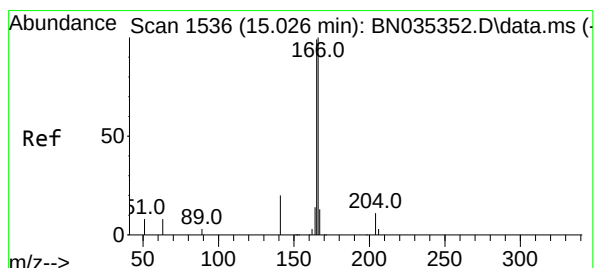
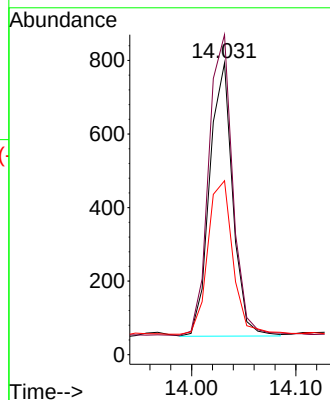
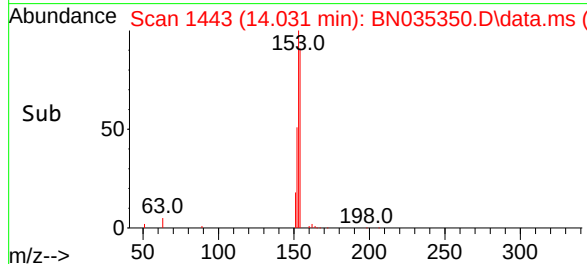
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:154 Resp: 114.0
Ion Ratio Lower Upper
154 100
153 115.0 92.6 139.0
152 60.9 49.0 73.6

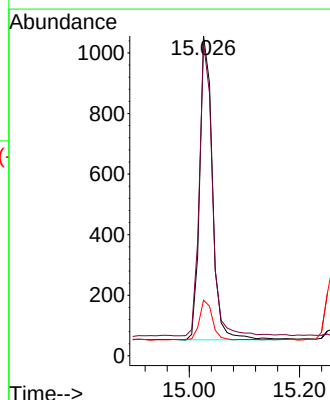
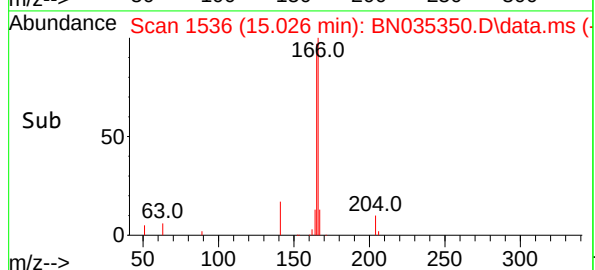
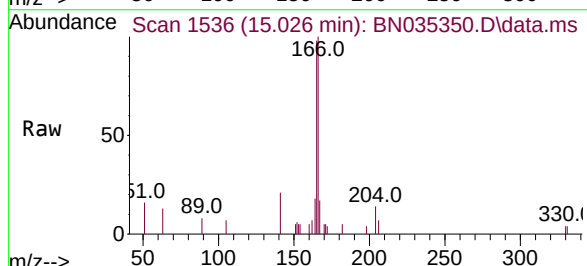
Manual Integrations
APPROVED

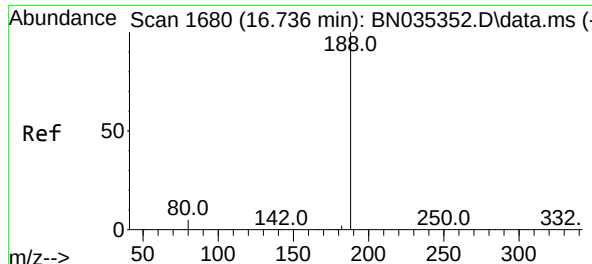
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

Instrument :

BNA_N

ClientSampleId :

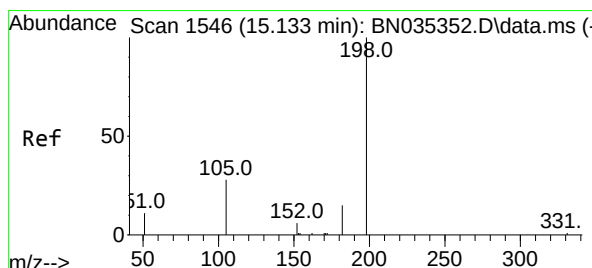
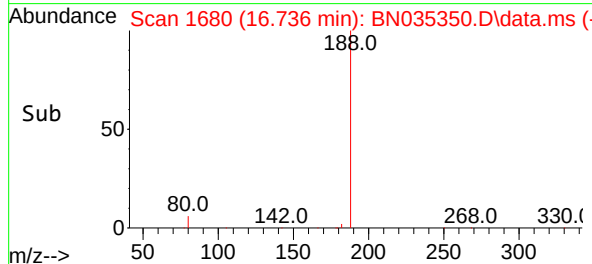
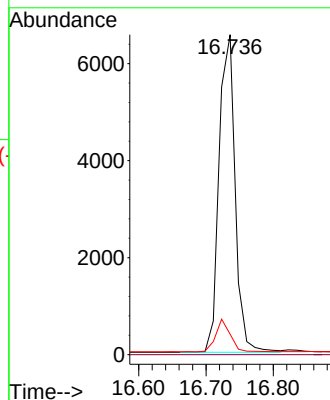
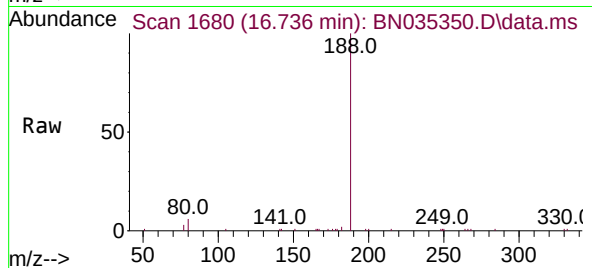
SSTDICC0.1

Tgt Ion:188	Resp:	1085
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	6.4	6.8

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.046 ng

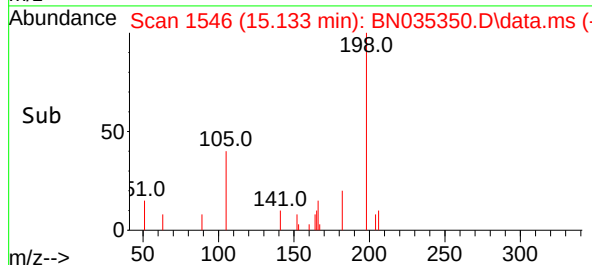
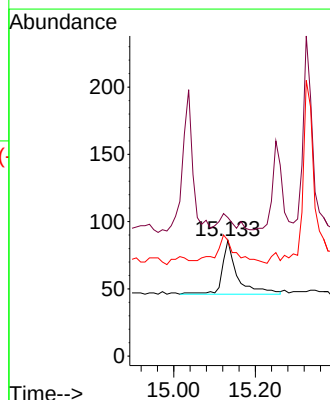
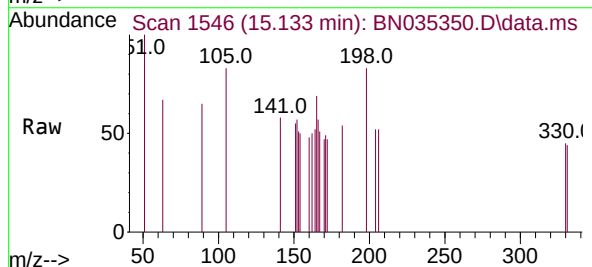
RT: 15.133 min Scan# 1546

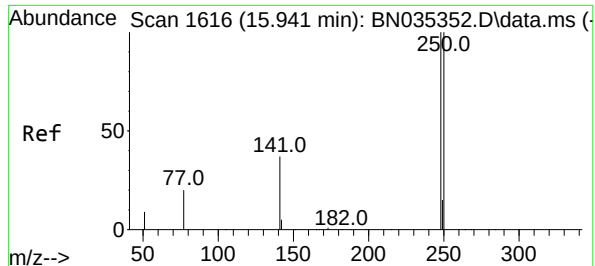
Delta R.T. 0.000 min

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
105	100.0	45.3





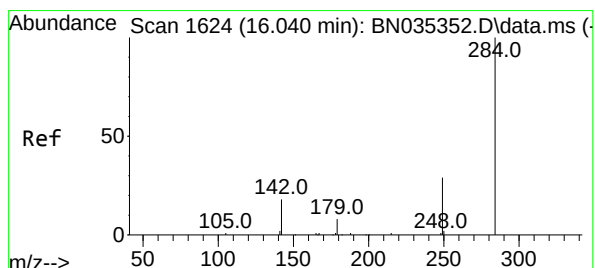
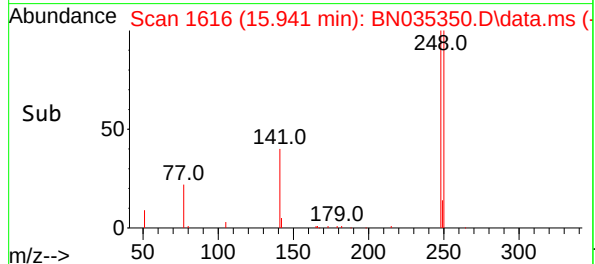
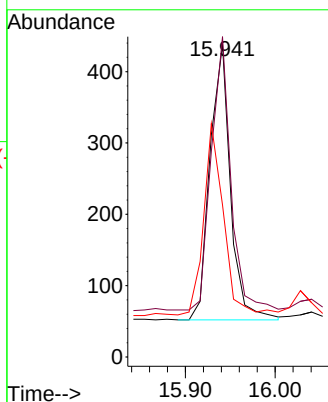
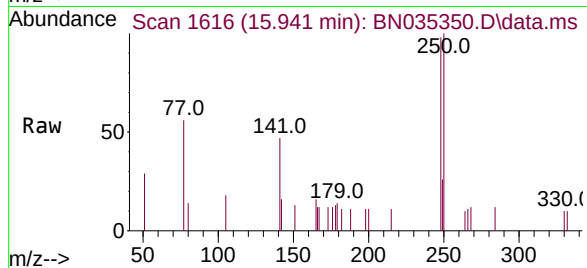
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

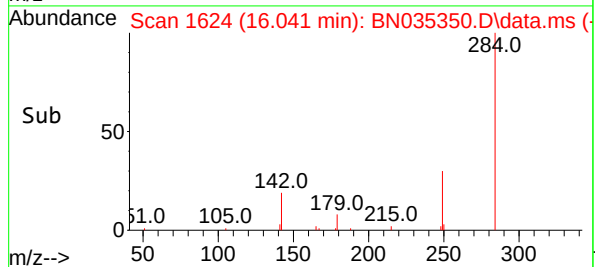
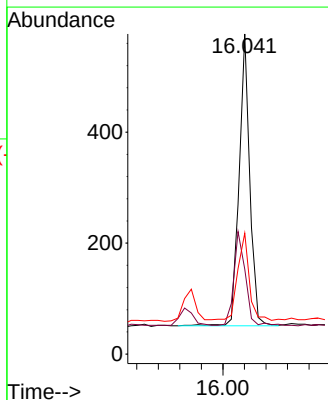
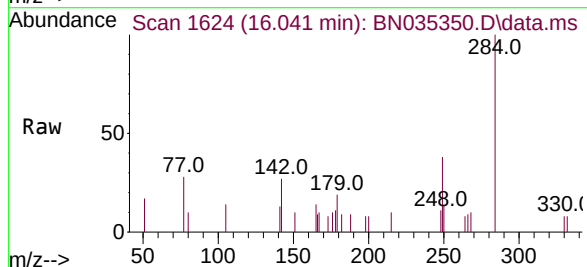
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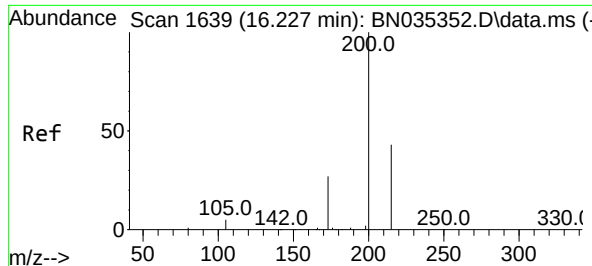
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

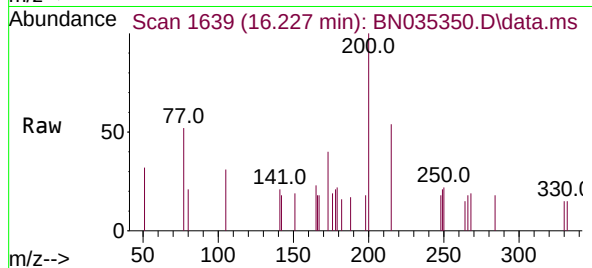
Tgt Ion:284 Resp: 720
Ion Ratio Lower Upper
284 100
142 35.4 26.7 40.1
249 32.2 24.6 36.8





#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

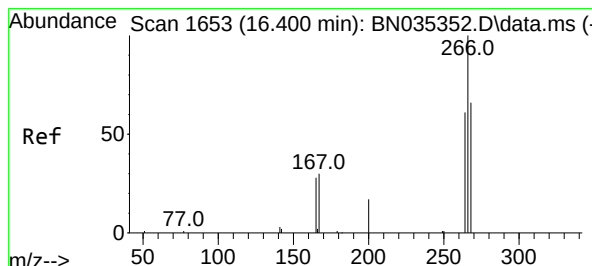
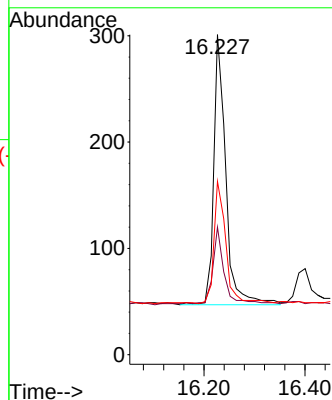
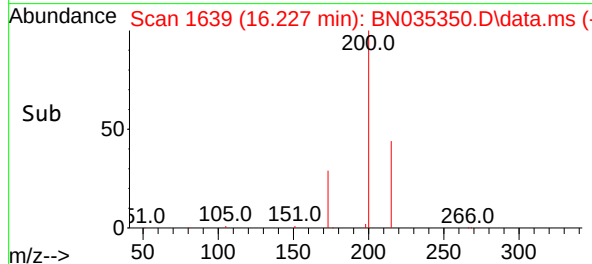
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:200 Resp: 42.1
Ion Ratio Lower Upper
200 100
173 39.9 24.1 36.1
215 54.2 36.9 55.3

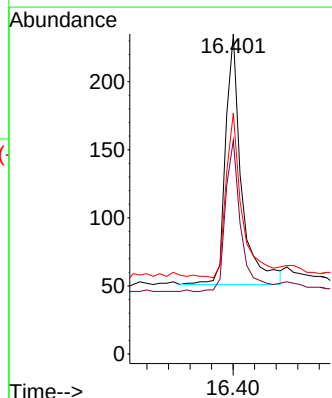
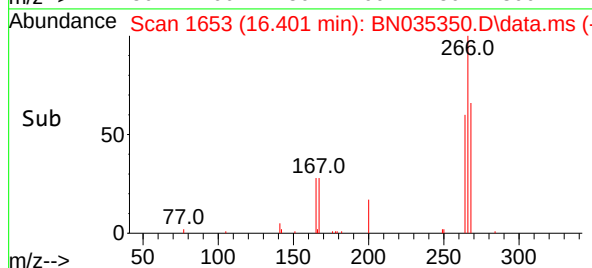
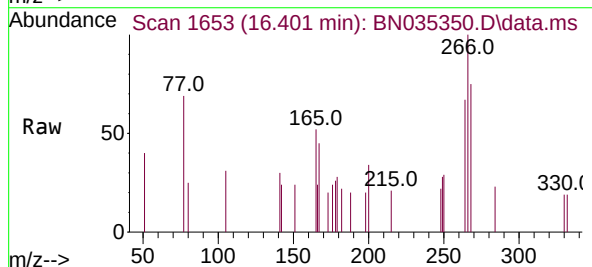
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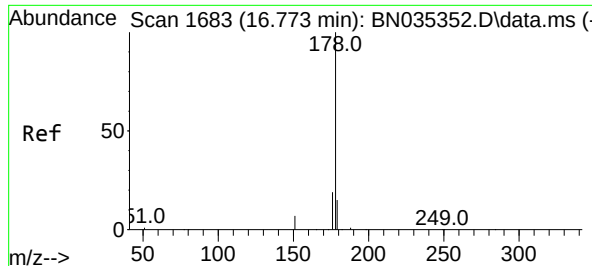
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





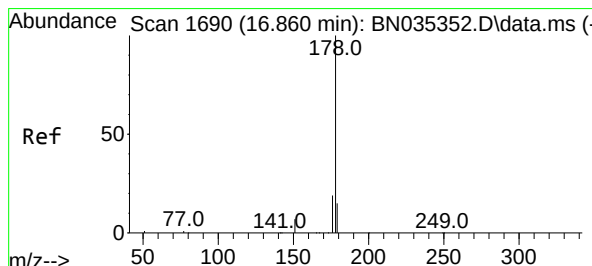
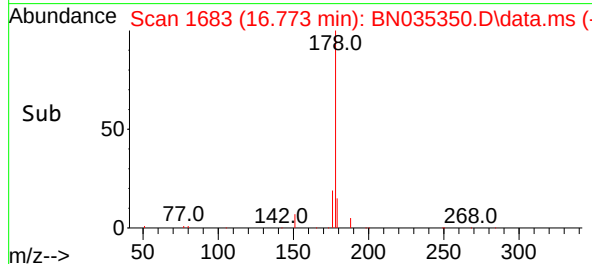
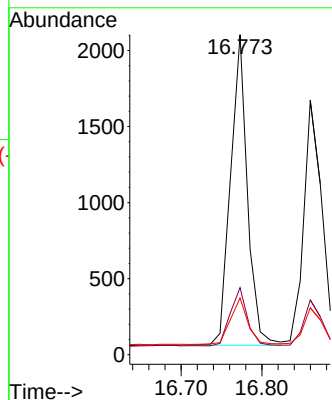
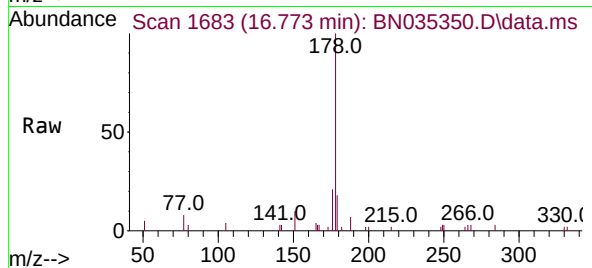
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 296
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.6 12.3 18.5

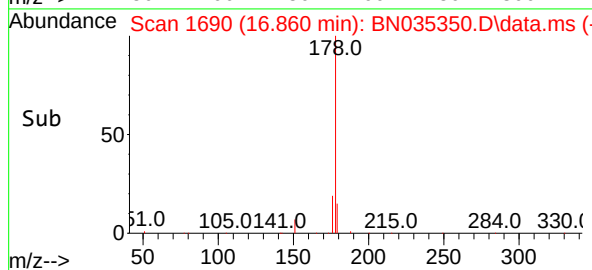
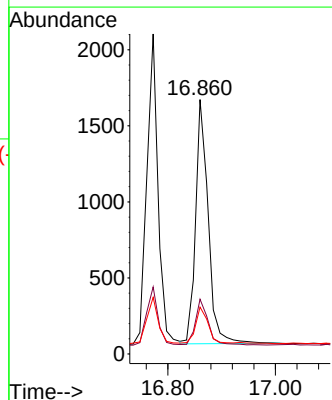
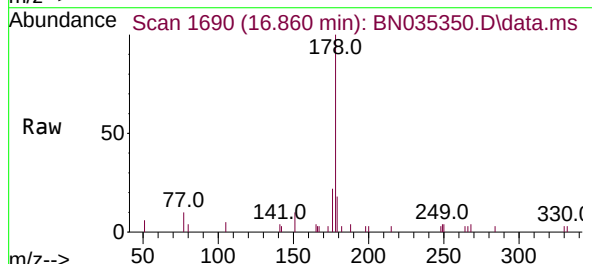
Manual Integrations
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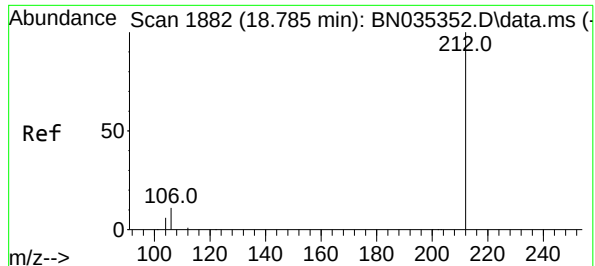
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1882

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

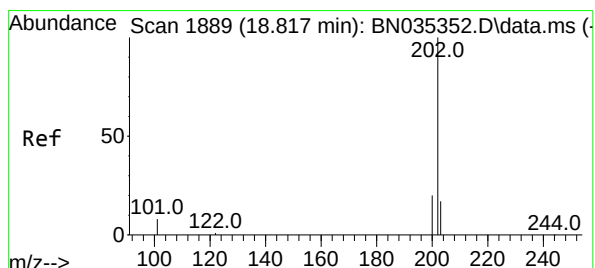
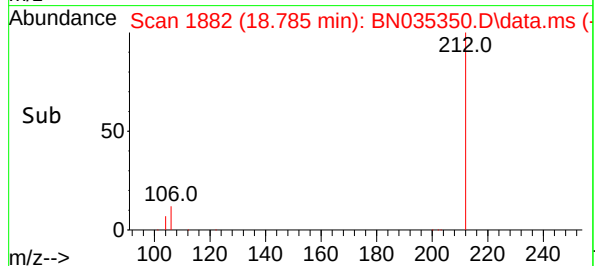
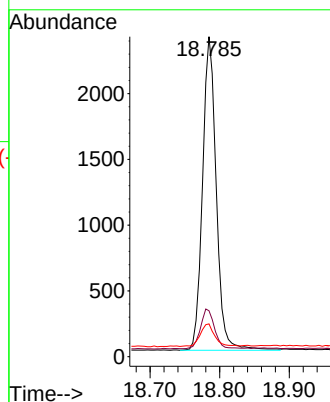
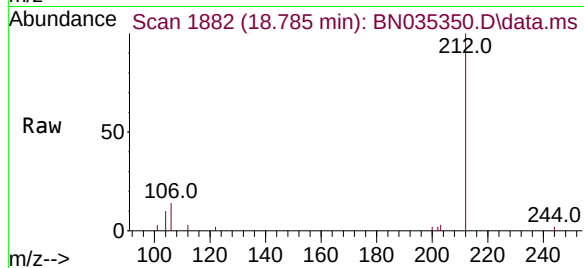
ClientSampleId :

SSTDIC0.1

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

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.106 ng

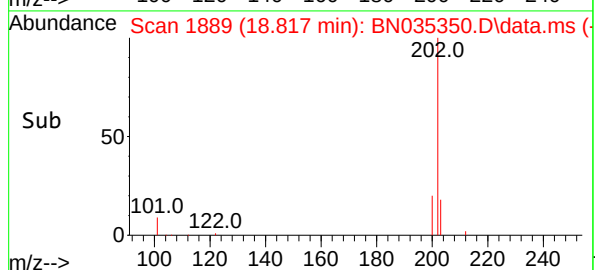
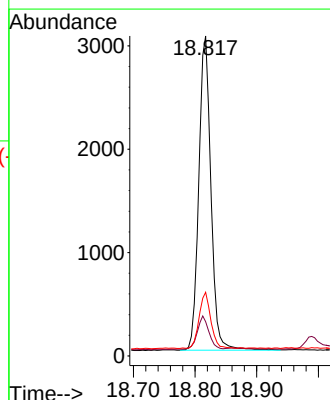
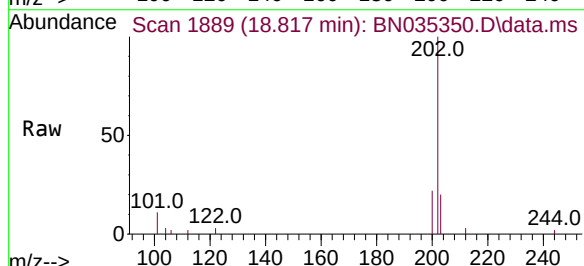
RT: 18.817 min Scan# 1889

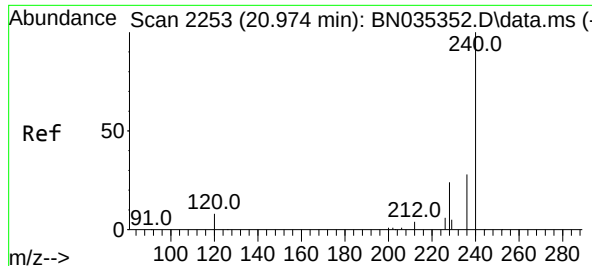
Delta R.T. 0.000 min

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# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

Tgt Ion:240 Resp: 11269

Ion Ratio Lower Upper

240 100

120 10.1 7.9 11.9

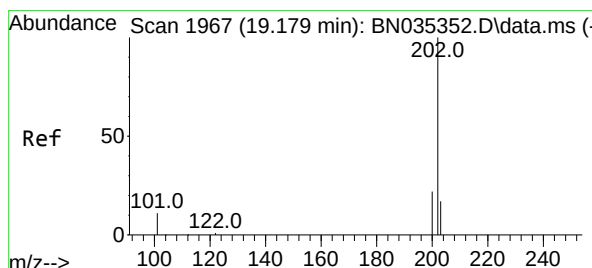
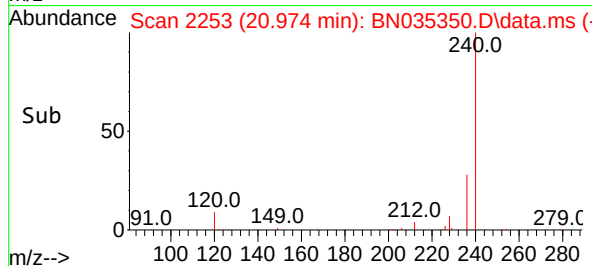
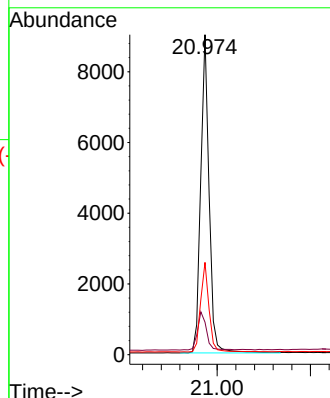
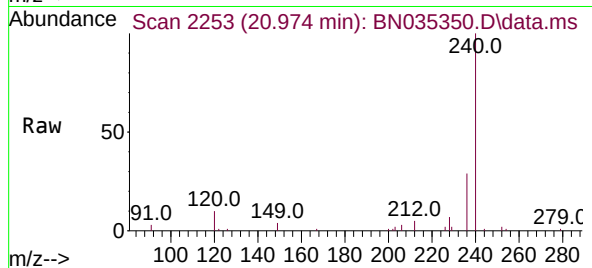
236 28.8 22.9 34.3

Manual Integrations

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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

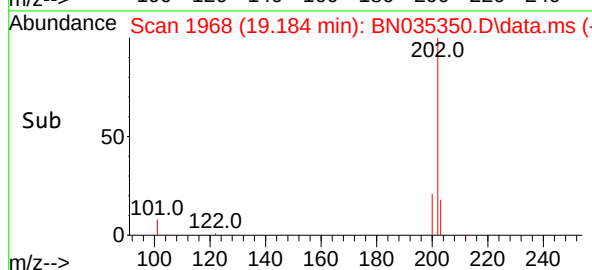
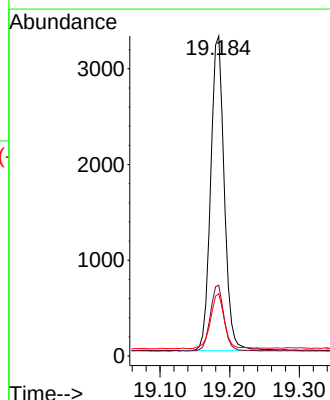
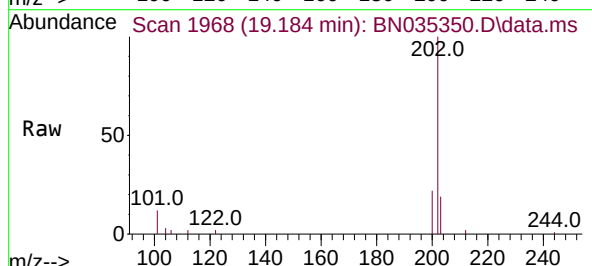
Tgt Ion:202 Resp: 4461

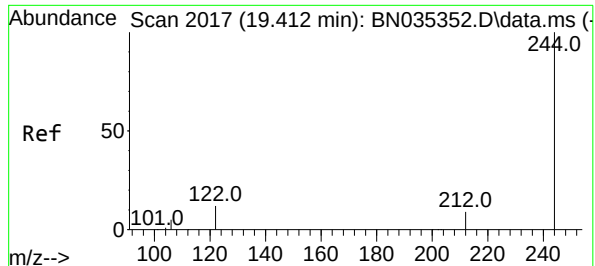
Ion Ratio Lower Upper

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# 2017
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

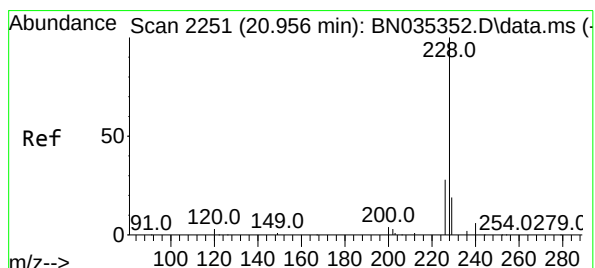
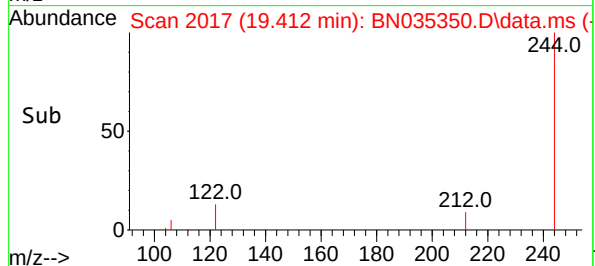
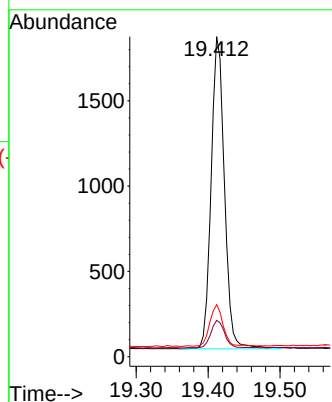
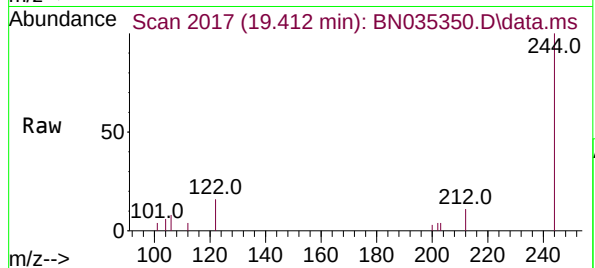
ClientSampleId :

SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5

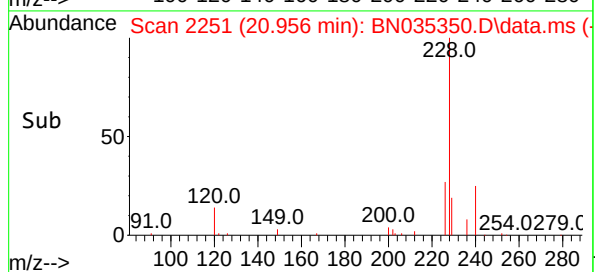
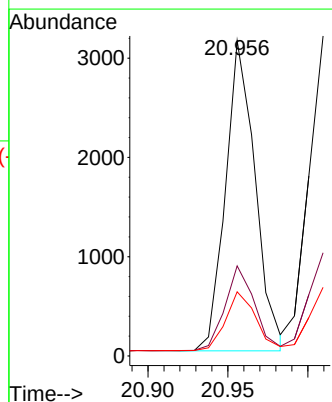
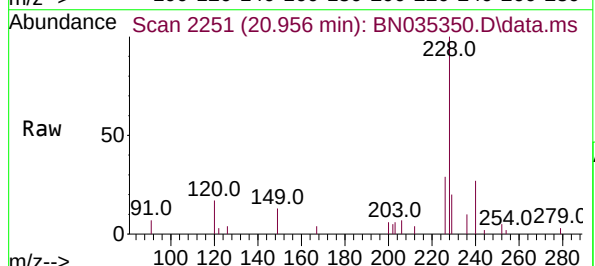
Manual Integrations
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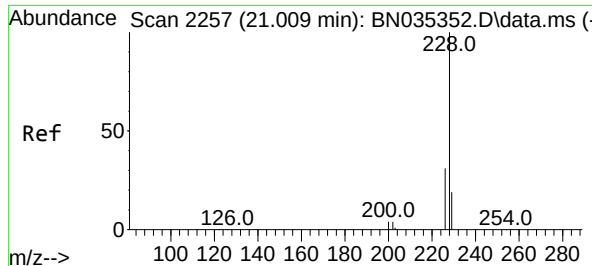
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

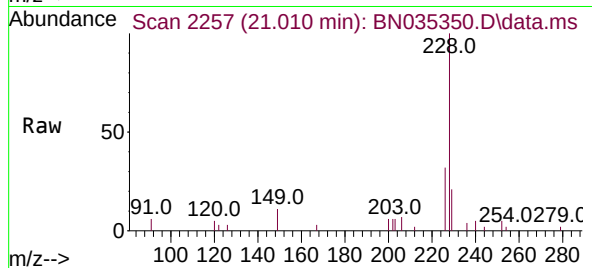
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8





#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 210
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

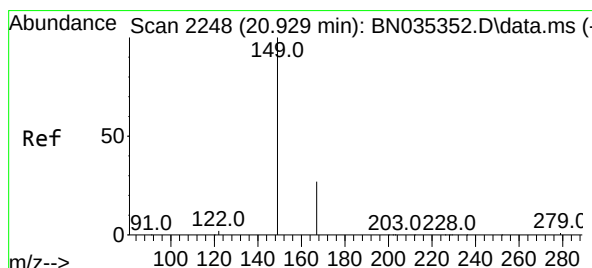
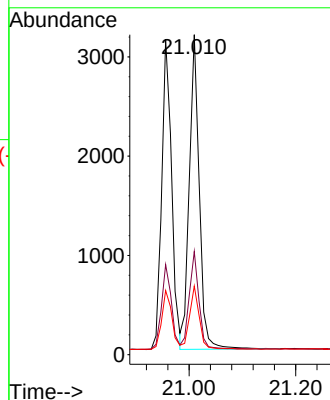
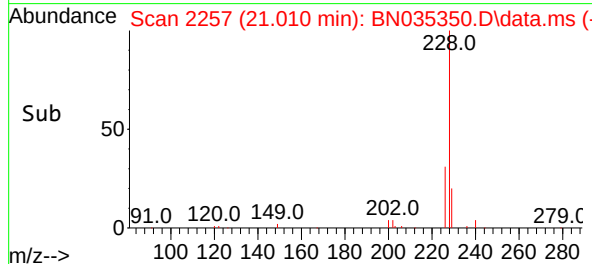
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 412
Ion Ratio Lower Upper
228 100
226 32.3 24.6 37.0
229 21.5 15.9 23.9

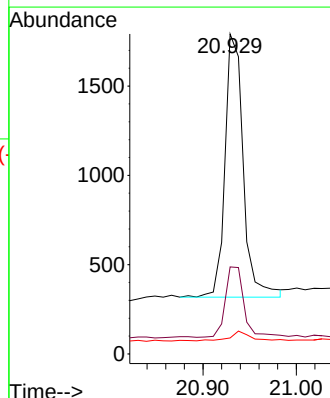
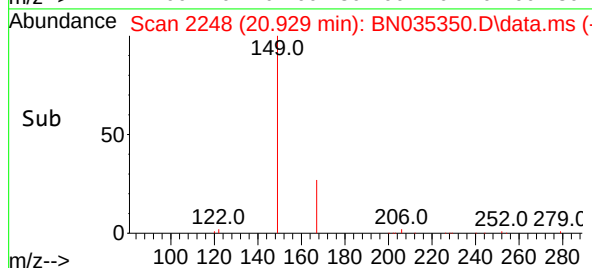
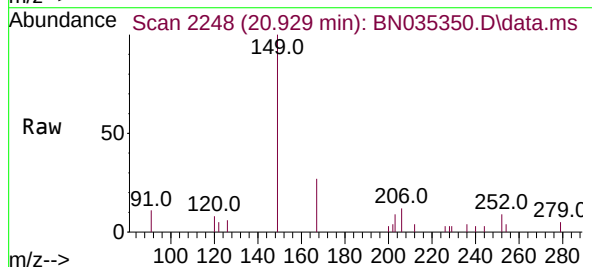
Manual Integrations
APPROVED

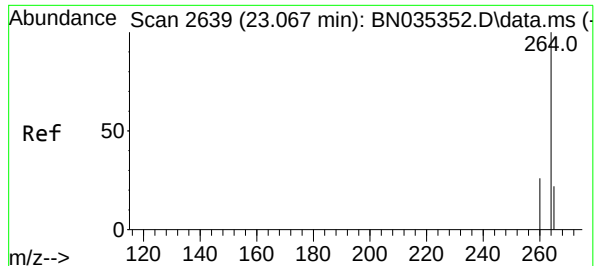
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

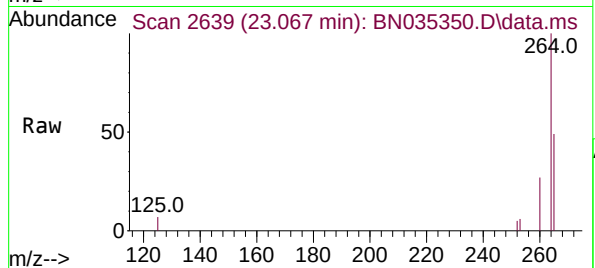
Tgt Ion:149 Resp: 1999
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 3.6 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

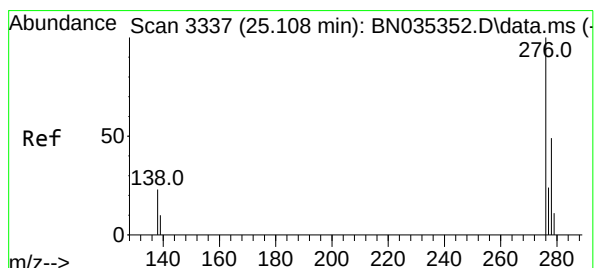
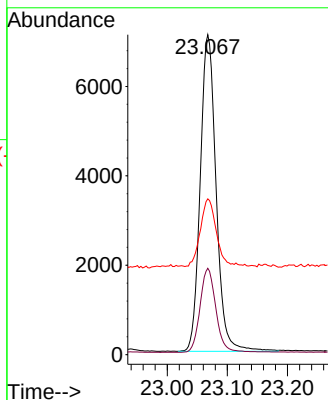
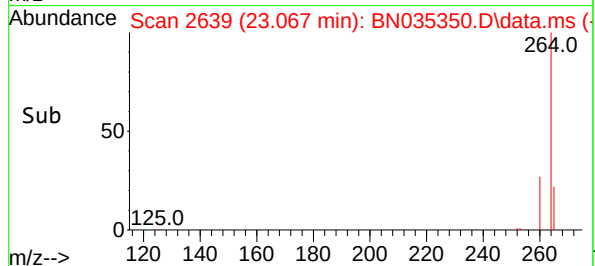
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1



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

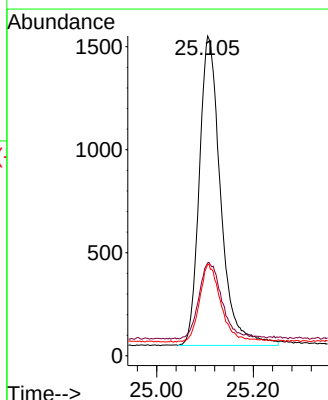
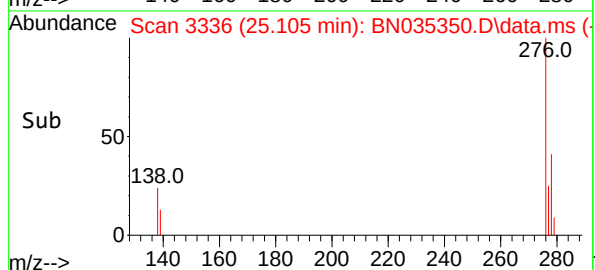
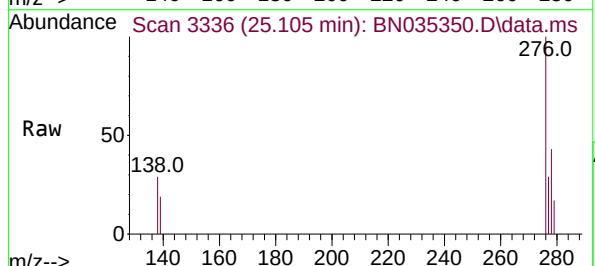
Manual Integrations
APPROVED

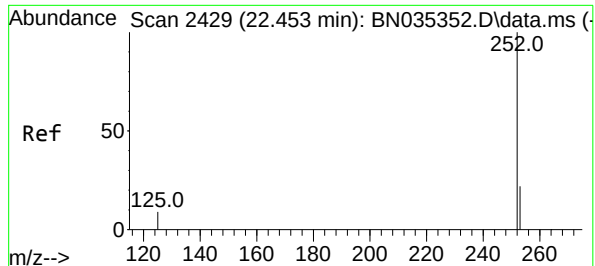
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 2430

Delta R.T. 0.003 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

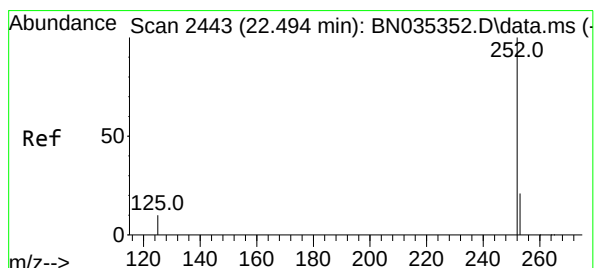
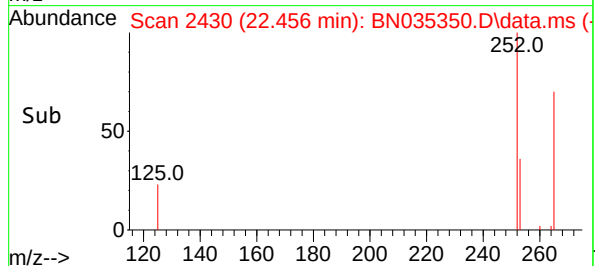
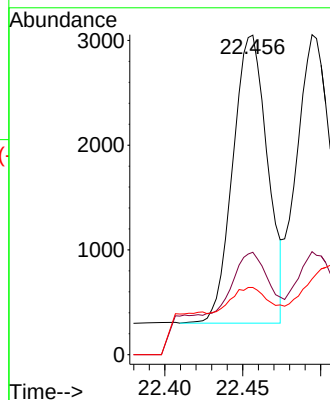
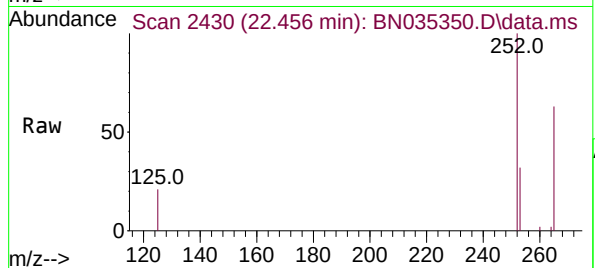
Tgt Ion:252	Resp:	424
Ion Ratio	Lower	Upper
252	100	
253	32.1	19.6 29.4
125	21.0	9.6 14.4

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

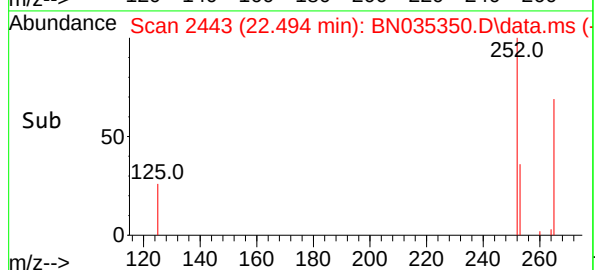
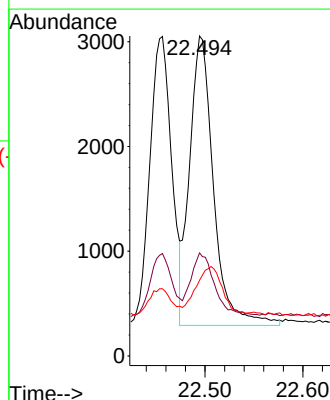
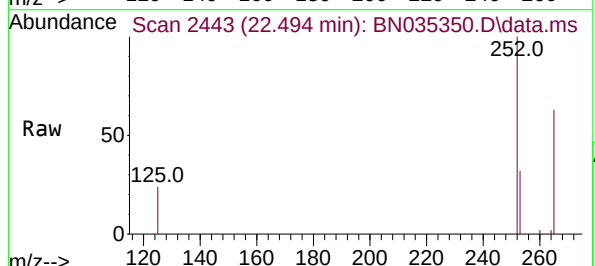
RT: 22.494 min Scan# 2443

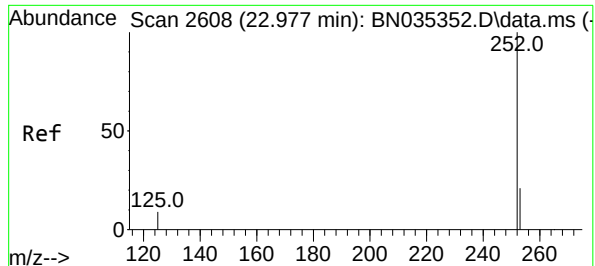
Delta R.T. 0.000 min

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# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

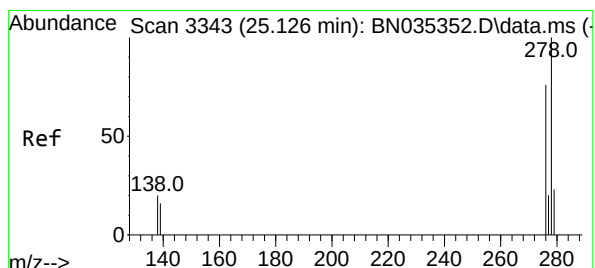
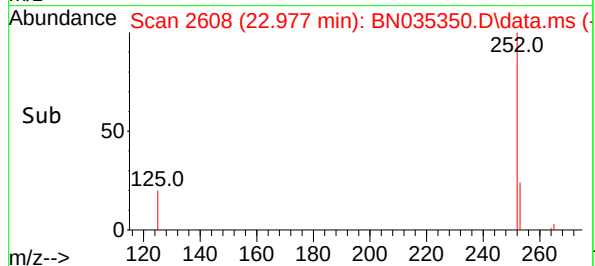
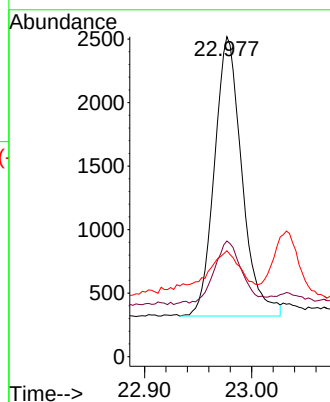
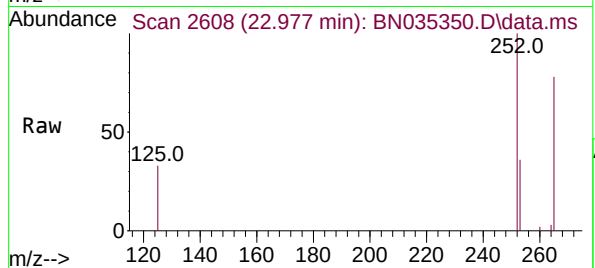
Tgt Ion:	252	Resp:	391
Ion Ratio	Lower	Upper	
252	100		
253	36.1	20.2	30.4
125	33.1	10.9	16.3

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

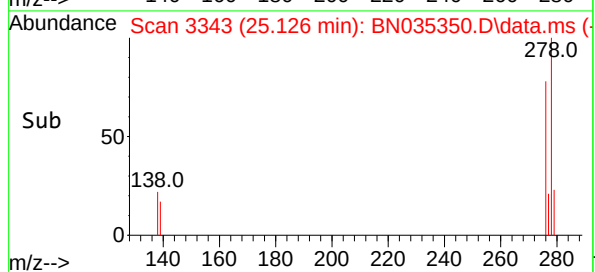
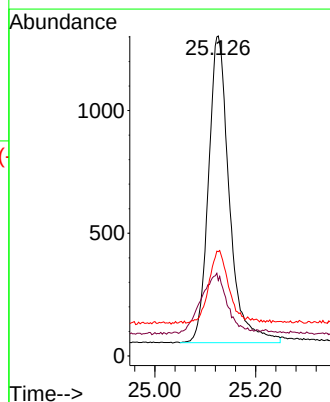
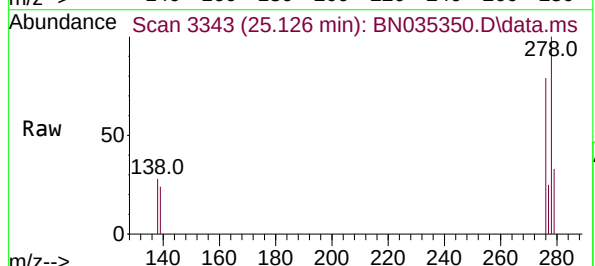
RT: 25.126 min Scan# 3343

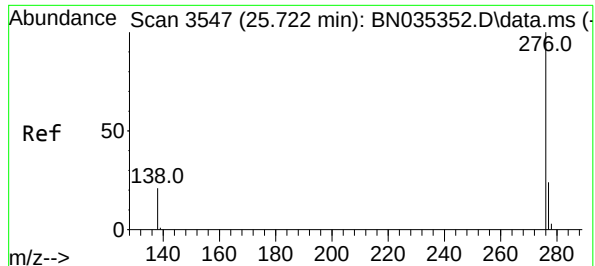
Delta R.T. 0.000 min

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

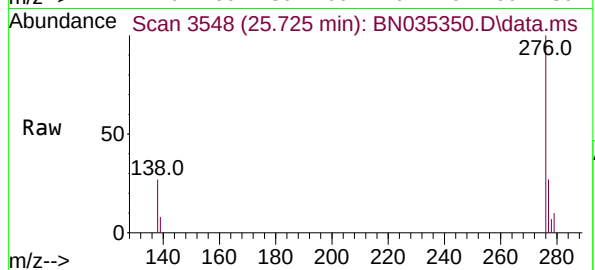
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 26.9 19.9 29.9

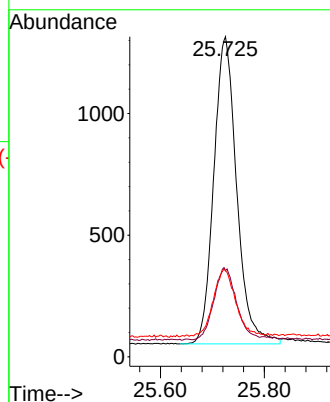
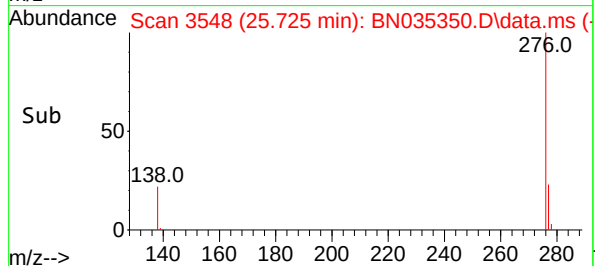
138 26.8 17.8 26.8

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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024

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	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						
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

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

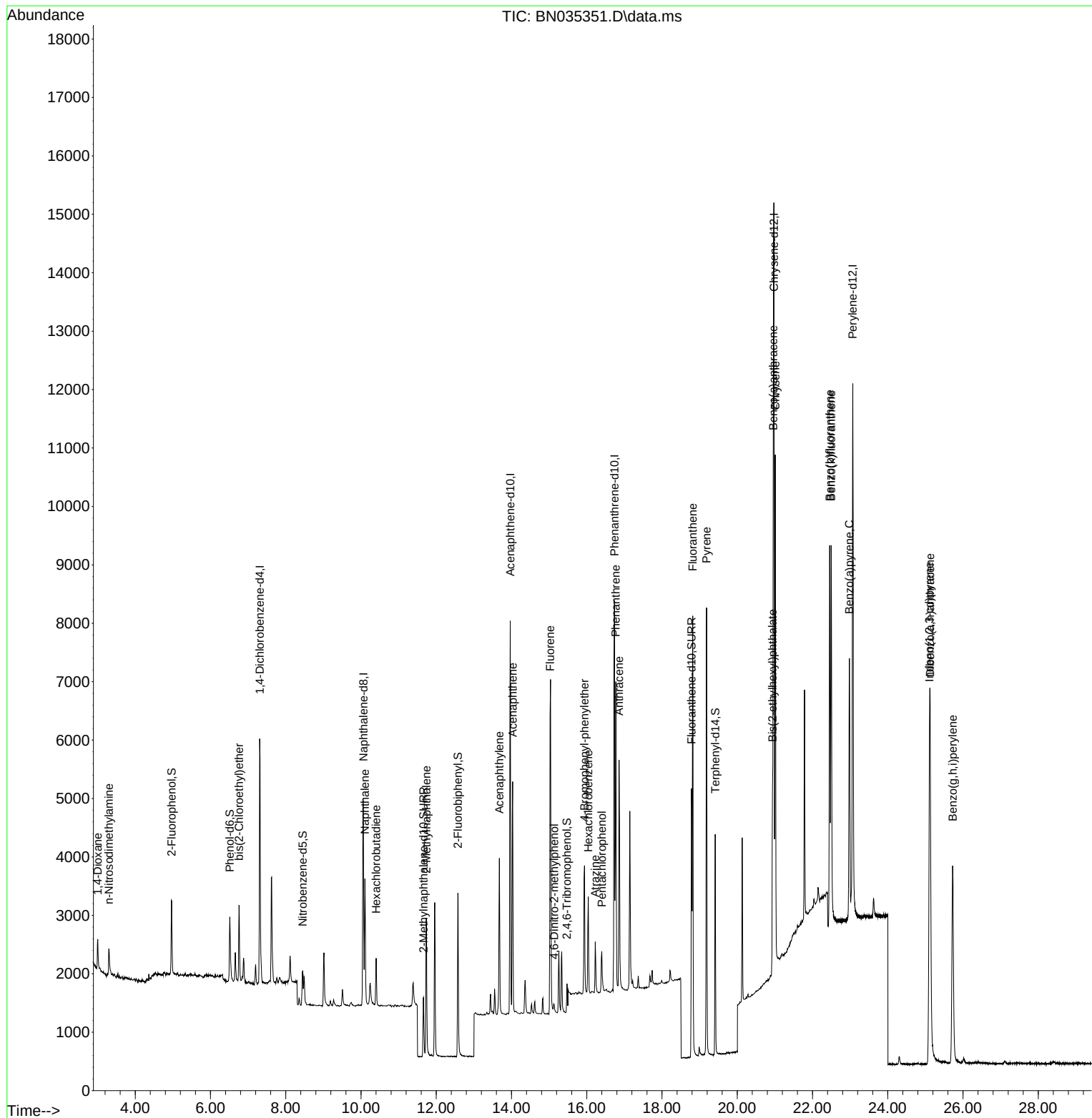
Manual Integrations

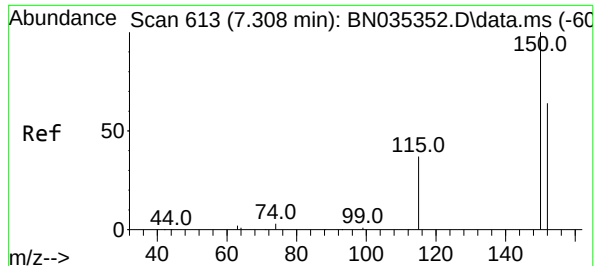
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

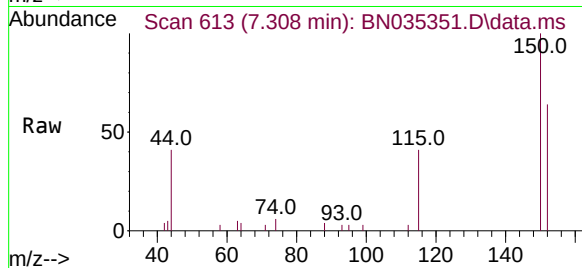
Quant Time: Nov 27 22:52:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration





#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

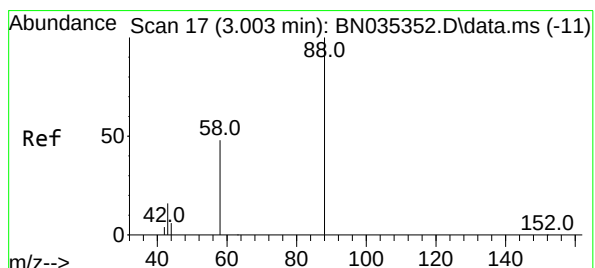
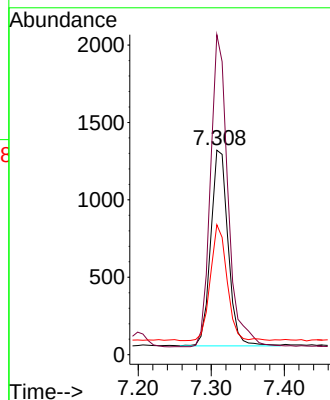
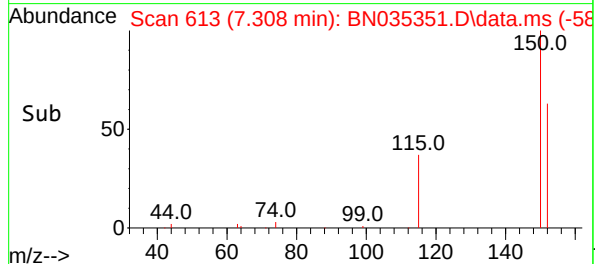
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

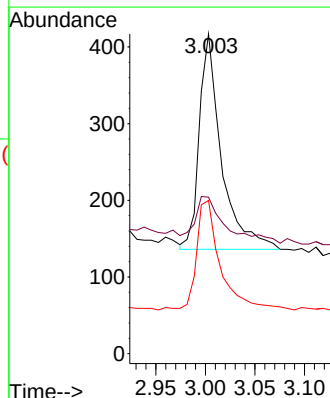
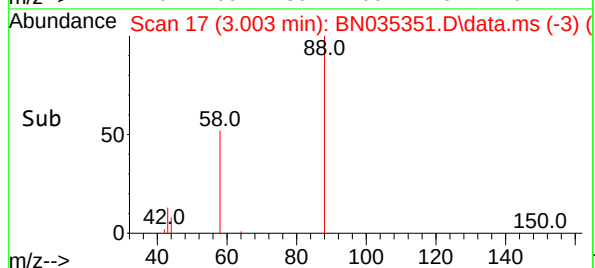
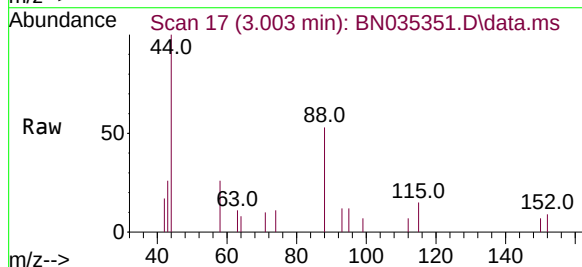
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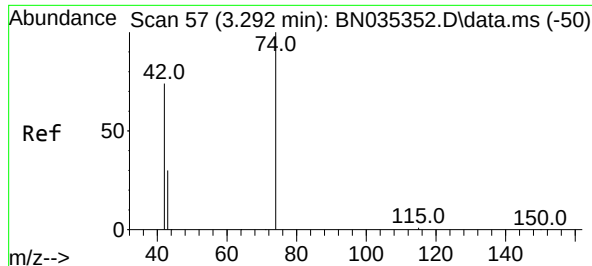
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 50
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

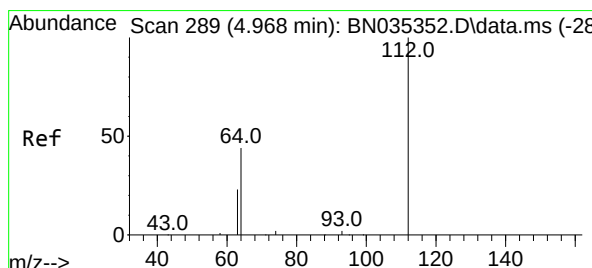
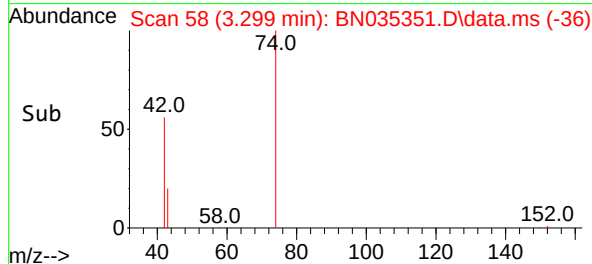
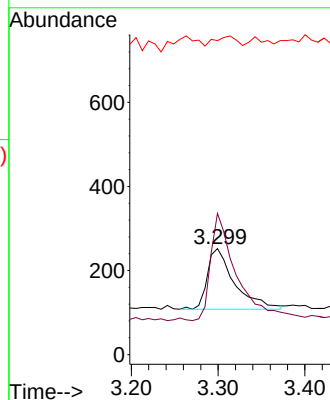
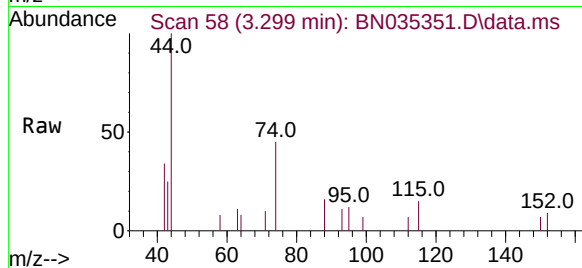
ClientSampleId :

SSTDICC0.2

Tgt Ion: 42 Resp: 311
Ion Ratio Lower Upper
42 100
74 172.4 124.9 187.3
44 16.2 2.2 3.4

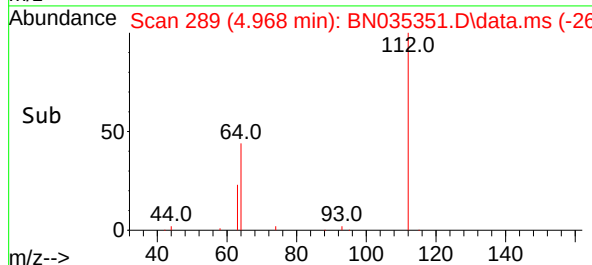
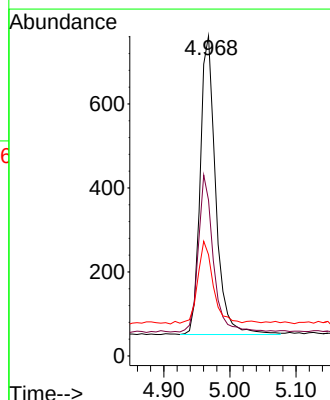
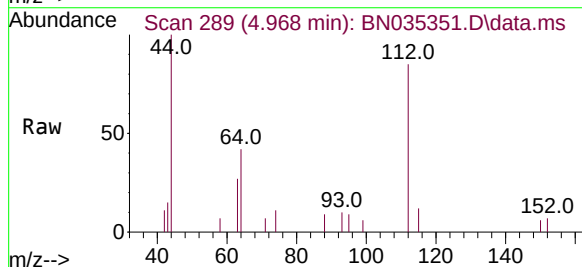
Manual Integrations
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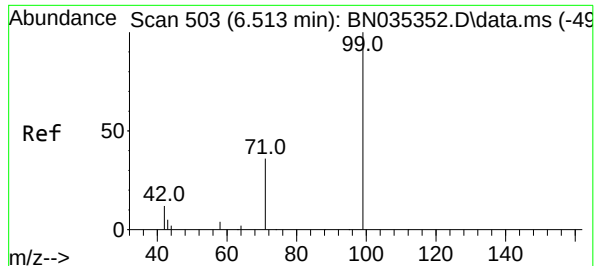
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#4
2-Fluorophenol
Concen: 0.219 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





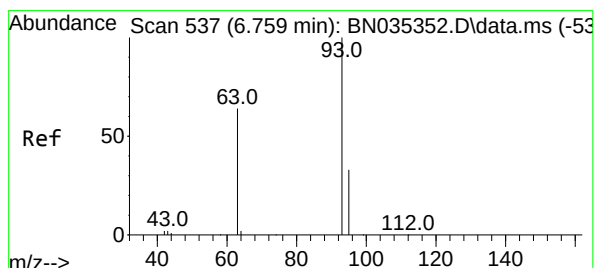
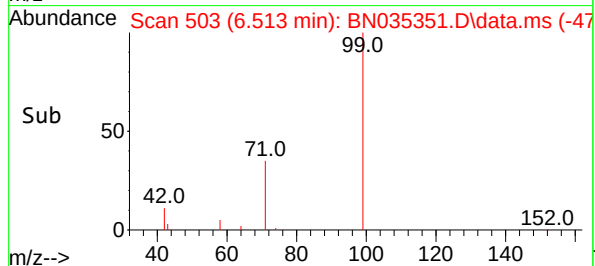
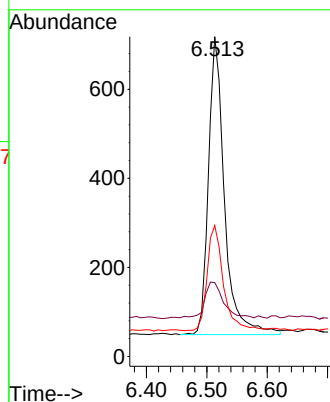
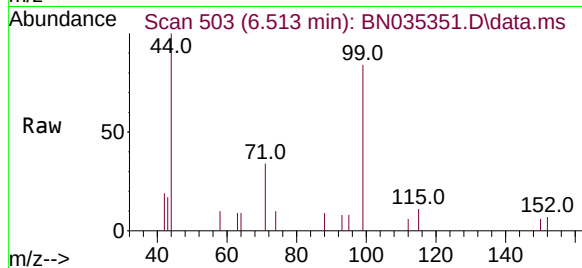
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1230
Ion Ratio Lower Upper
99 100
42 15.0 11.4 17.2
71 35.8 29.3 43.9

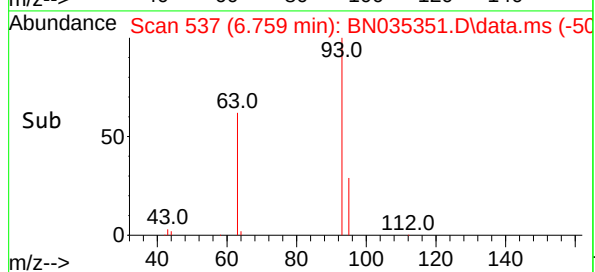
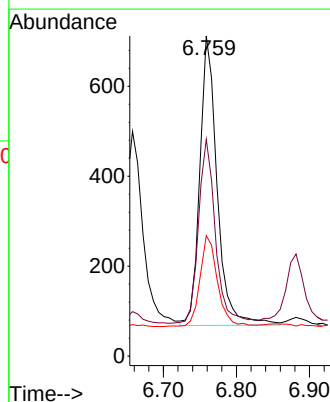
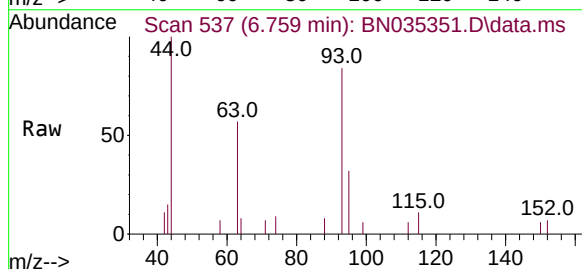
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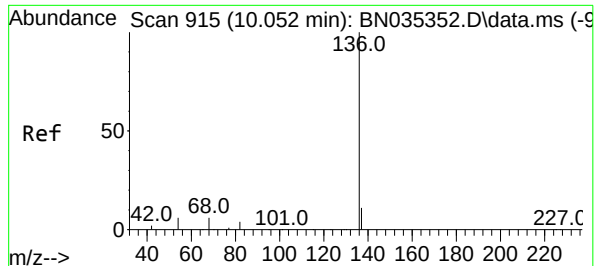
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.214 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





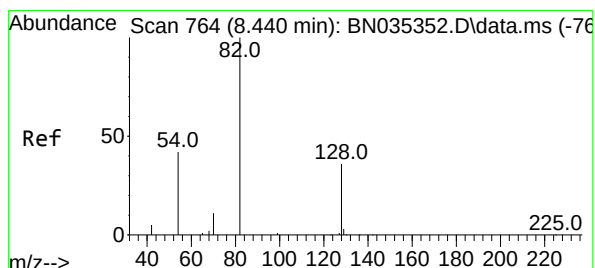
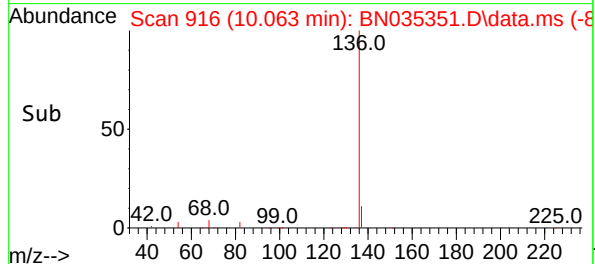
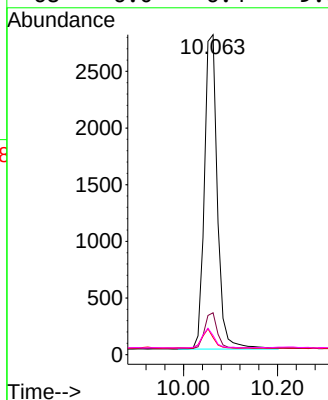
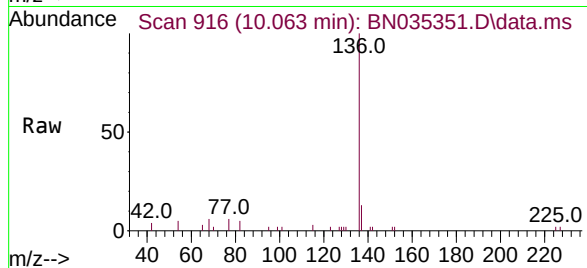
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 915
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

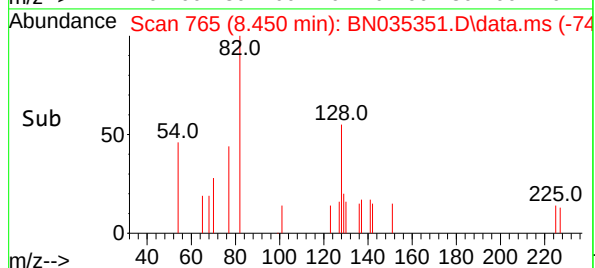
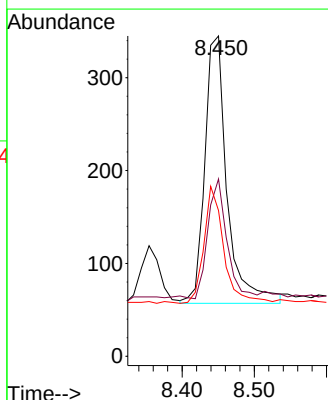
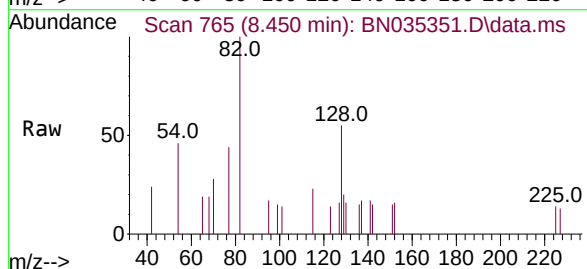
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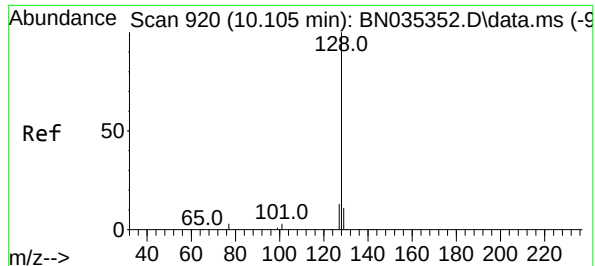
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





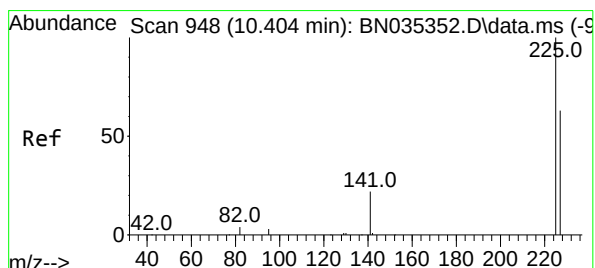
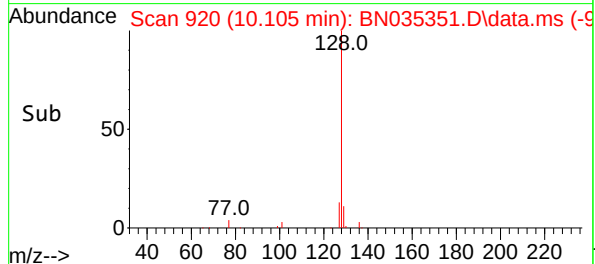
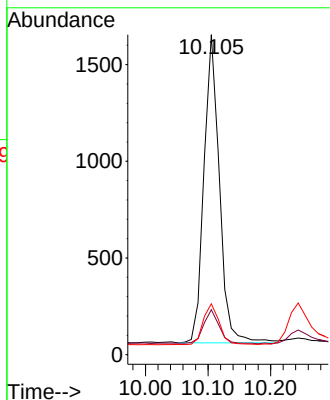
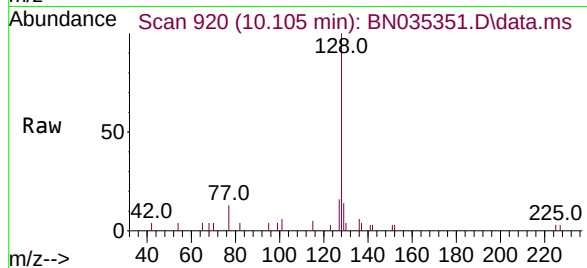
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 274
Ion Ratio Lower Upper
128 100
129 14.0 9.8 14.6
127 15.9 11.4 17.2

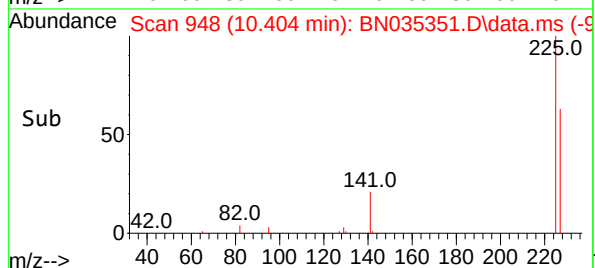
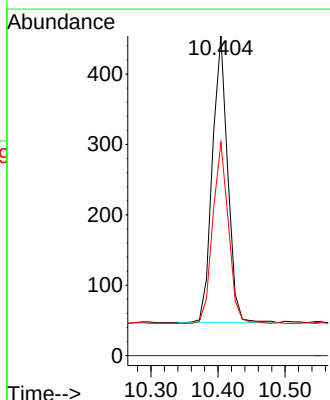
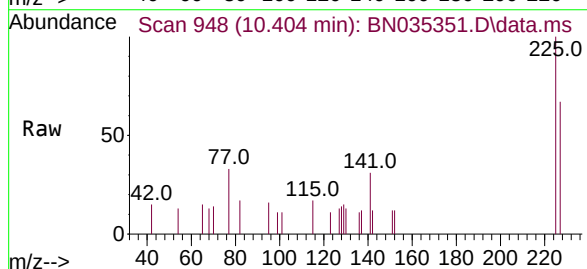
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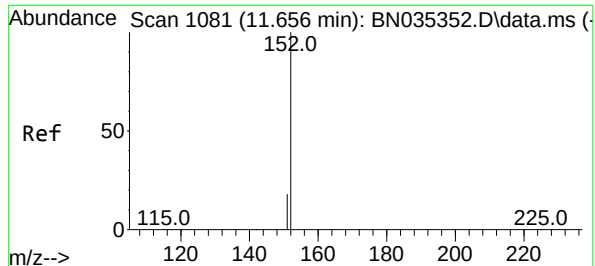
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

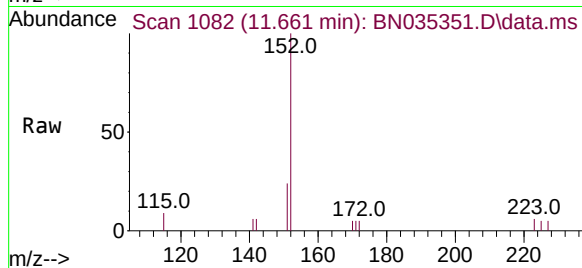
Tgt Ion:225 Resp: 646
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

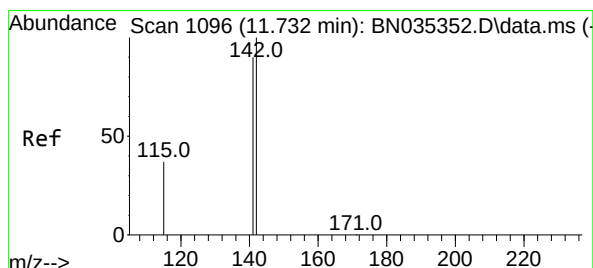
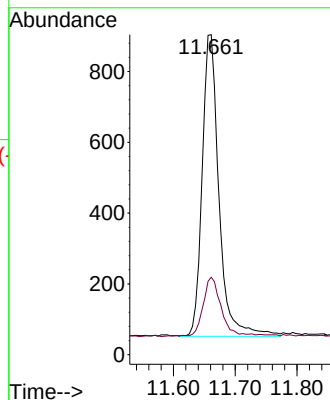
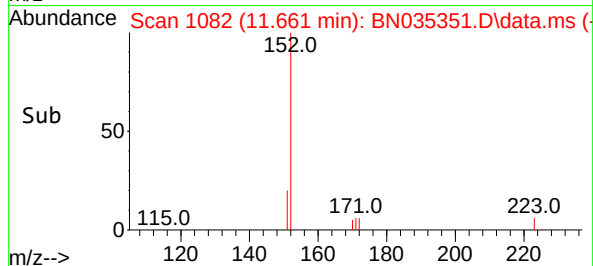
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 1608
Ion Ratio Lower Upper
152 100
151 22.3 16.6 25.0

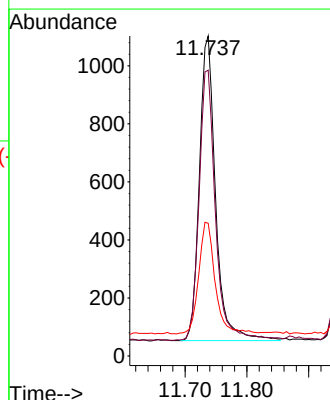
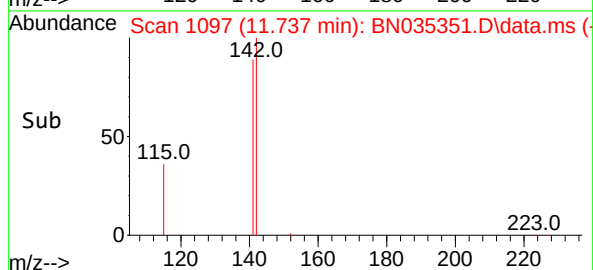
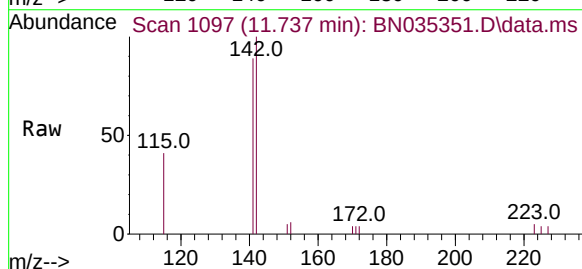
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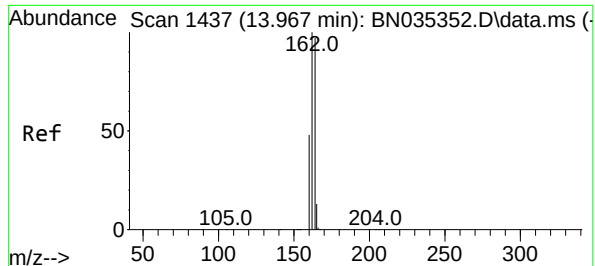
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

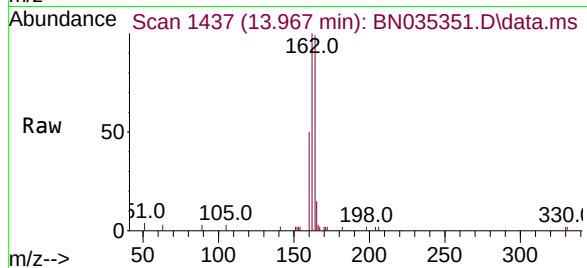
Tgt Ion:142 Resp: 1910
Ion Ratio Lower Upper
142 100
141 89.3 72.2 108.4
115 41.4 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

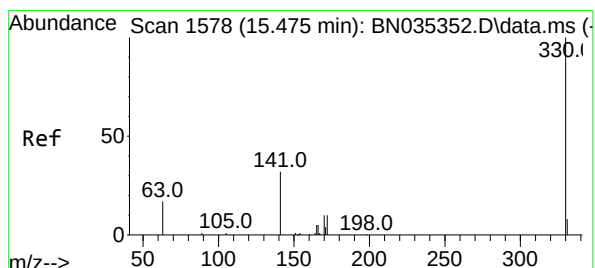
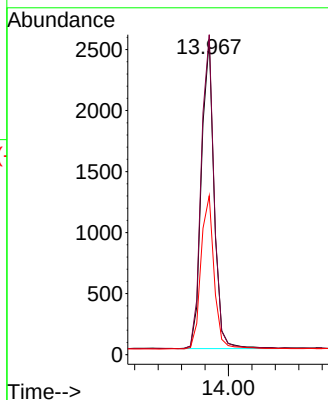
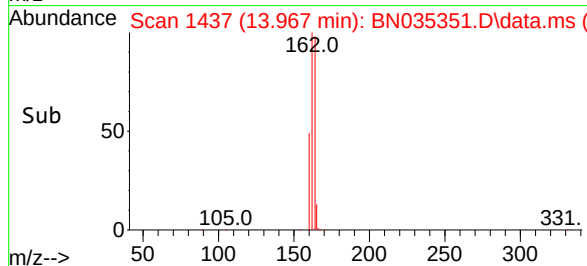
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



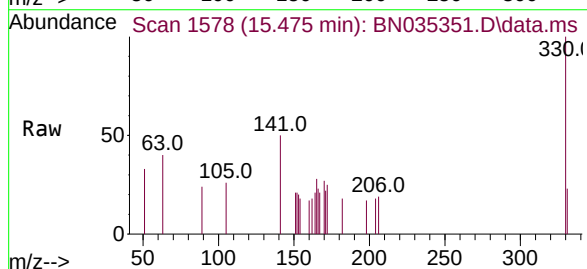
Tgt Ion:164 Resp: 380
Ion Ratio Lower Upper
164 100
162 101.5 82.2 123.2
160 50.4 40.1 60.1

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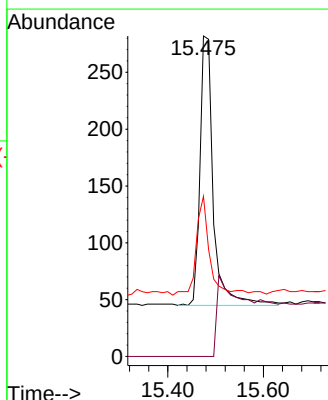
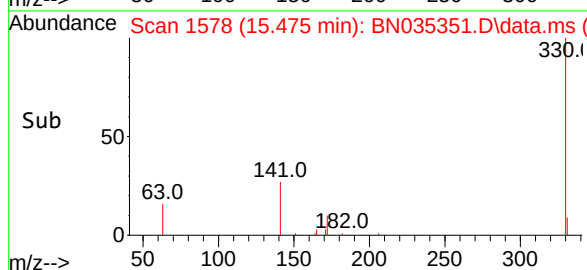
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

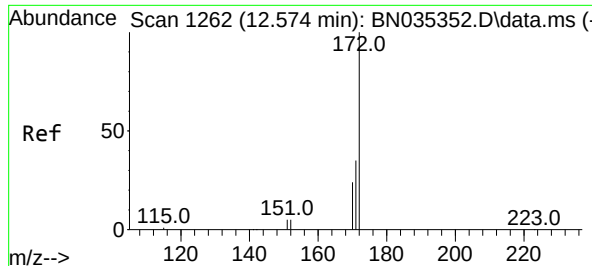


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



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# 11

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

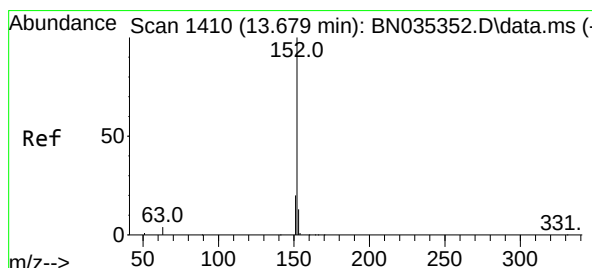
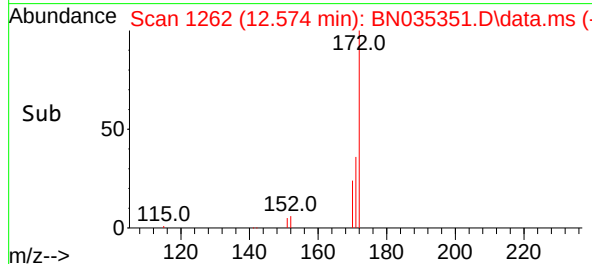
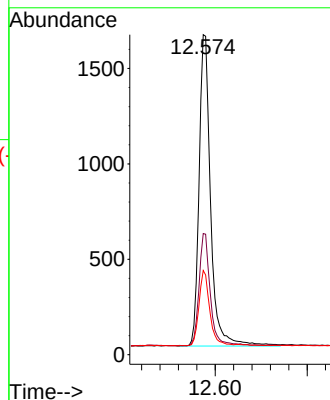
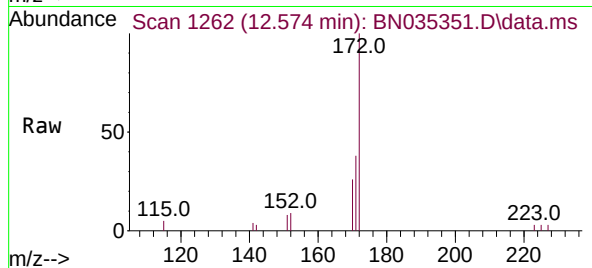
170 26.3 19.8 29.8

Manual Integrations

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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

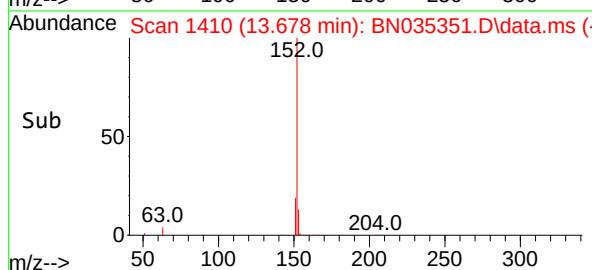
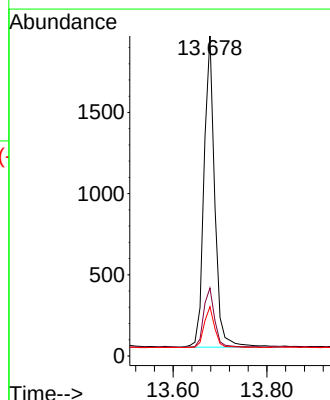
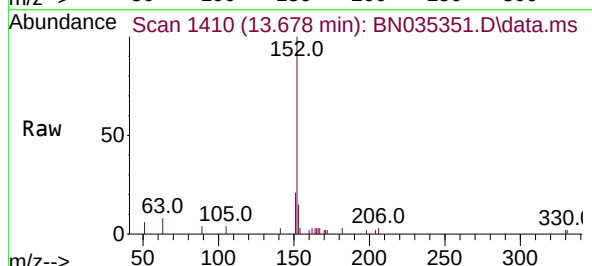
Tgt Ion:152 Resp: 3047

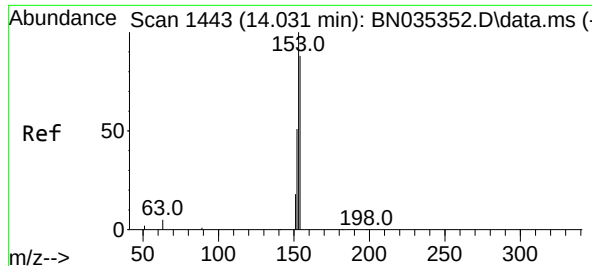
Ion Ratio Lower Upper

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# 1443

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

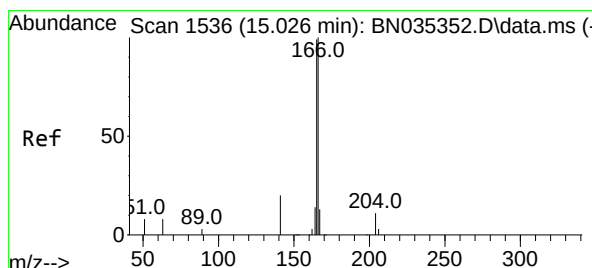
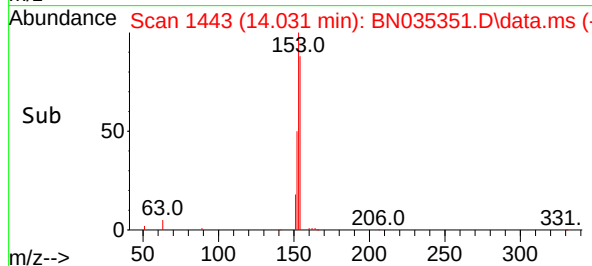
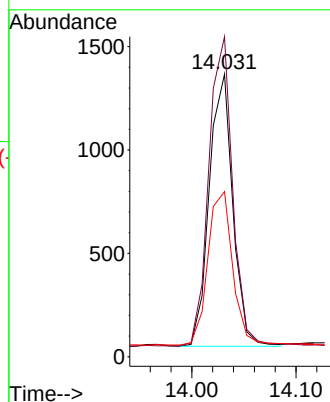
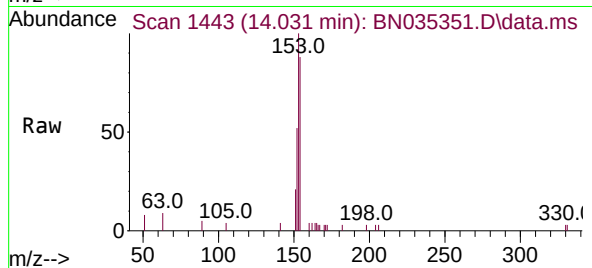
Tgt Ion:	154	Resp:	2064
Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#18

Fluorene

Concen: 0.188 ng

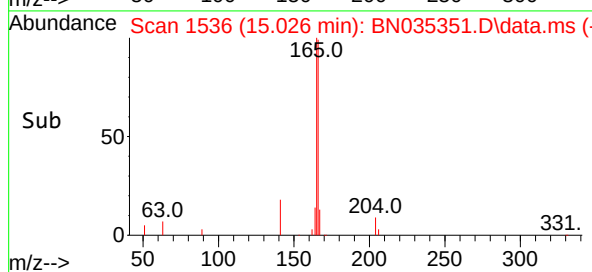
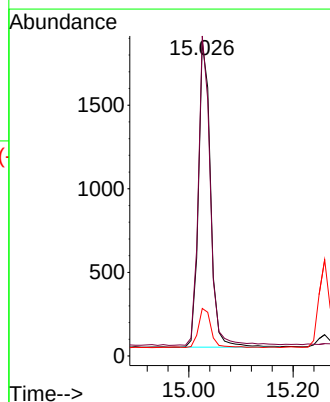
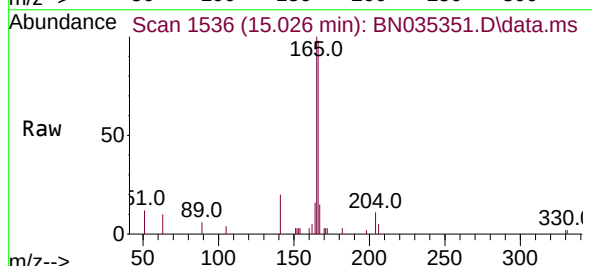
RT: 15.026 min Scan# 1536

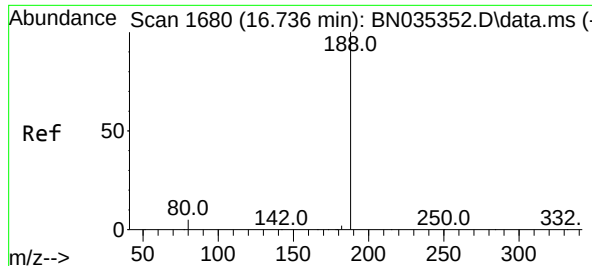
Delta R.T. -0.000 min

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# 1680

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

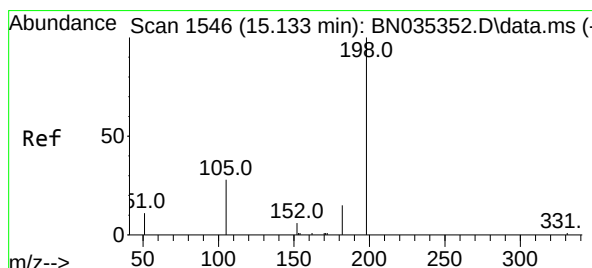
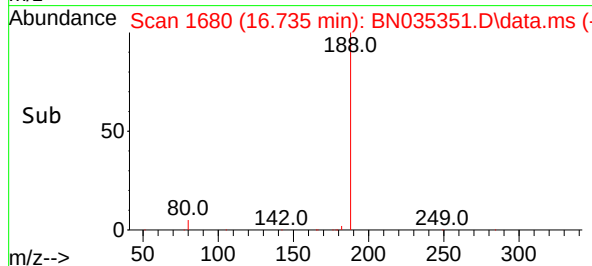
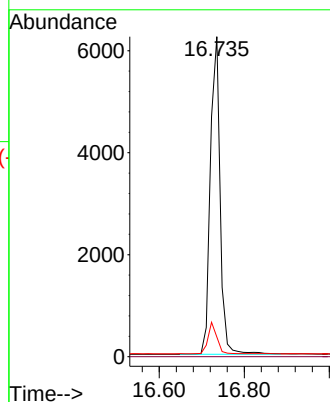
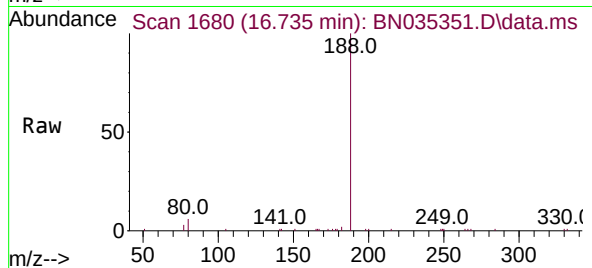
SSTDIC0.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

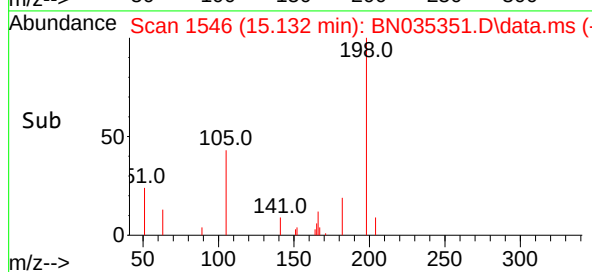
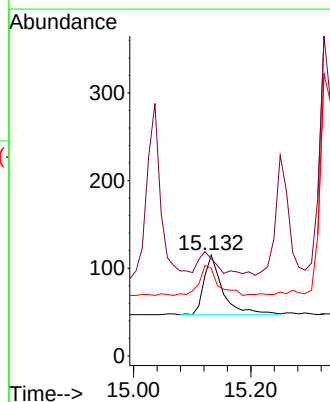
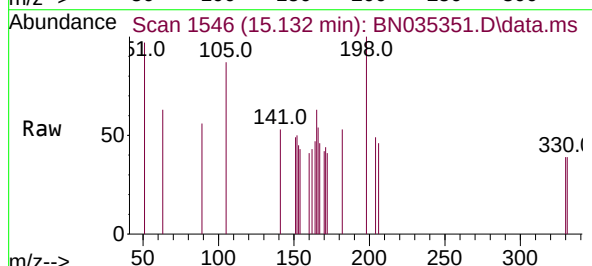
RT: 15.132 min Scan# 1546

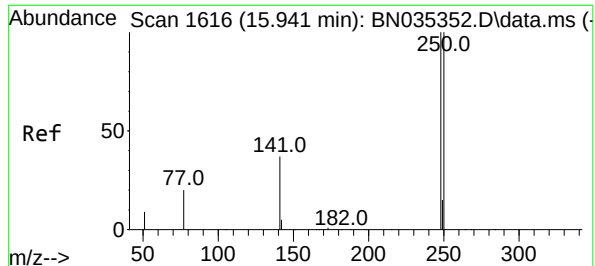
Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Tgt Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#





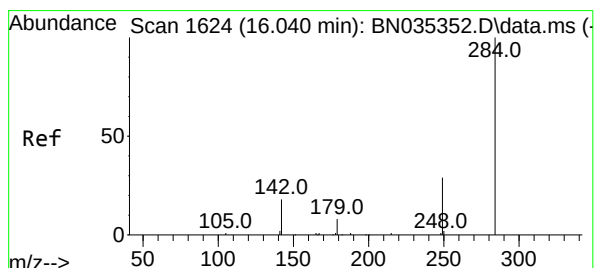
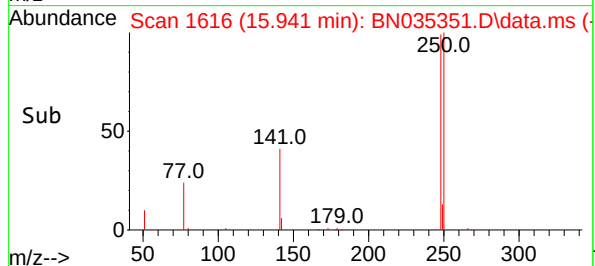
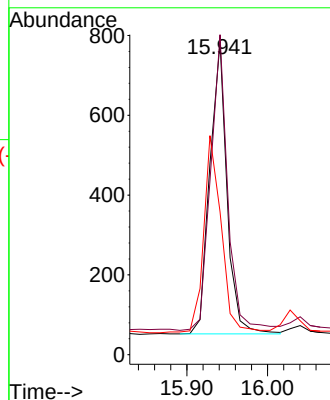
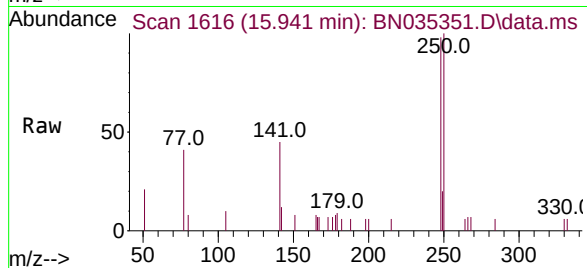
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 108
Ion Ratio Lower Upper
248 100
250 102.3 80.6 120.8
141 45.7 31.5 47.3

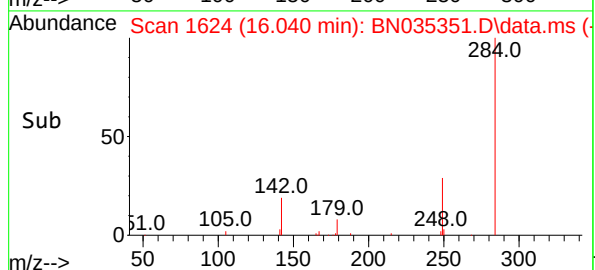
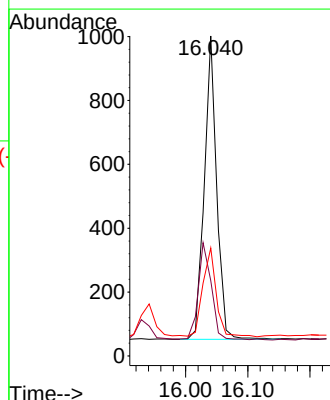
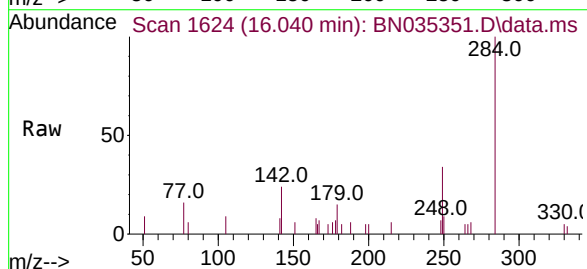
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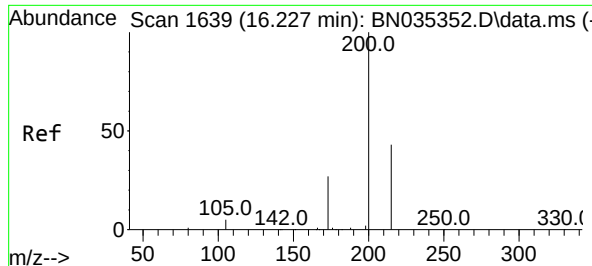
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

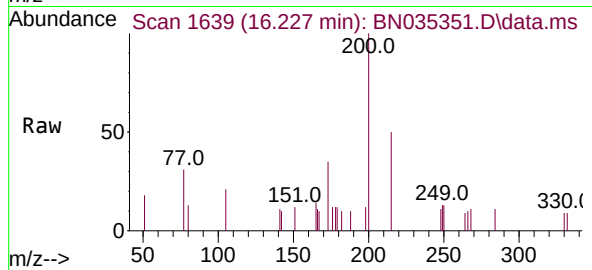
Tgt Ion:284 Resp: 1318
Ion Ratio Lower Upper
284 100
142 34.2 26.7 40.1
249 32.0 24.6 36.8





#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

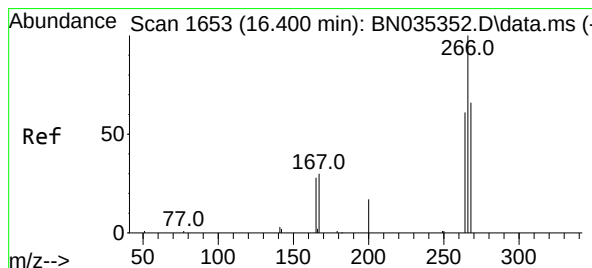
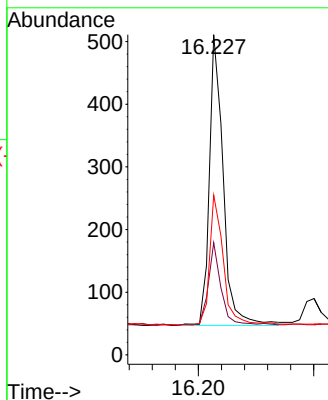
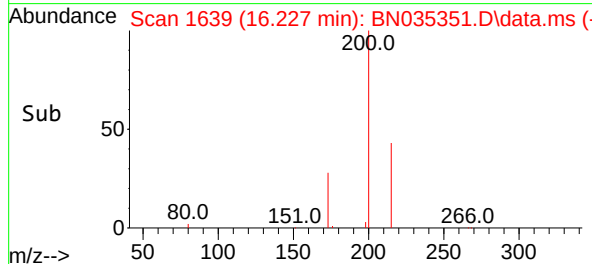
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

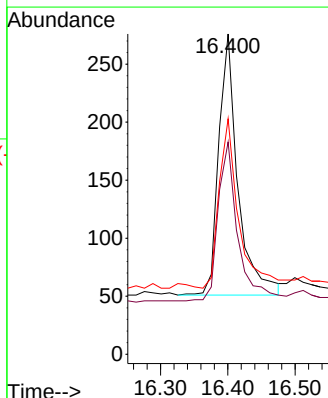
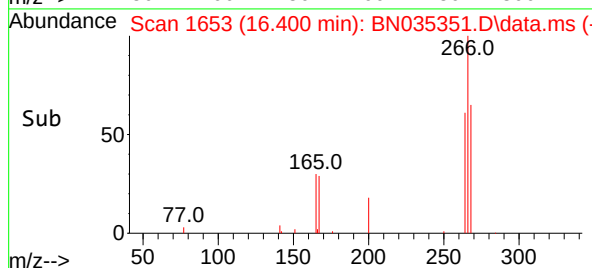
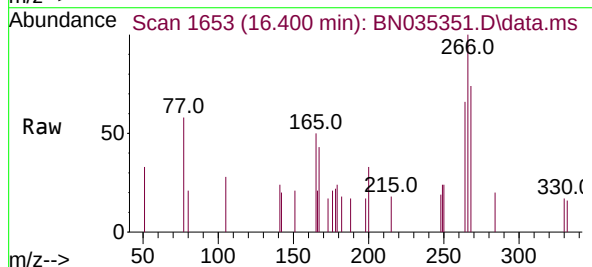
Manual Integrations
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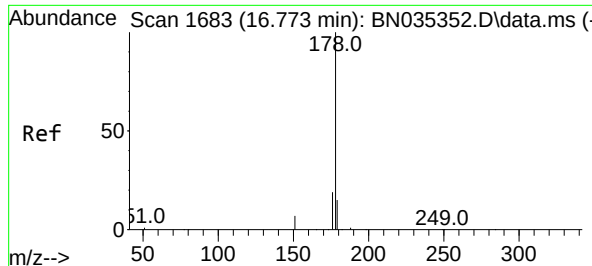
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1683

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

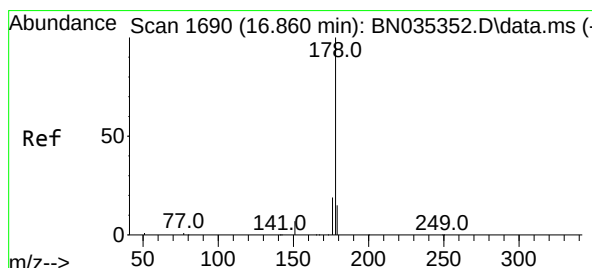
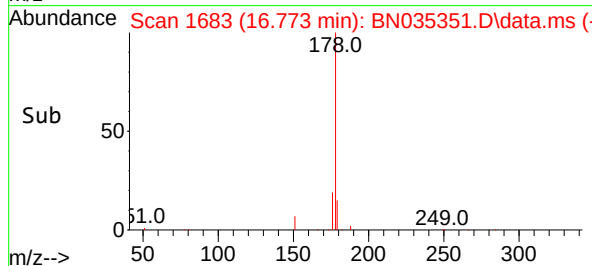
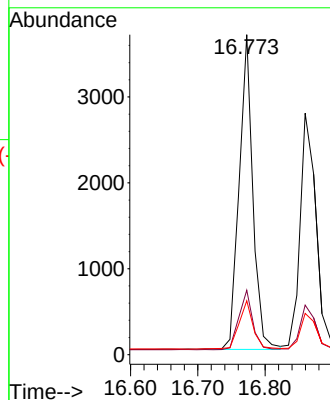
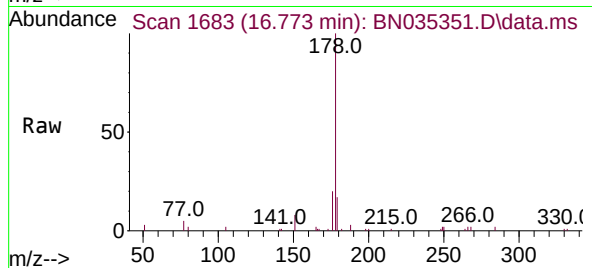
SSTDICC0.2

Tgt Ion:178	Resp:	518
Ion Ratio	Lower	Upper
178	100	
176	18.9	15.4 23.2
179	15.9	12.3 18.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#26

Anthracene

Concen: 0.191 ng

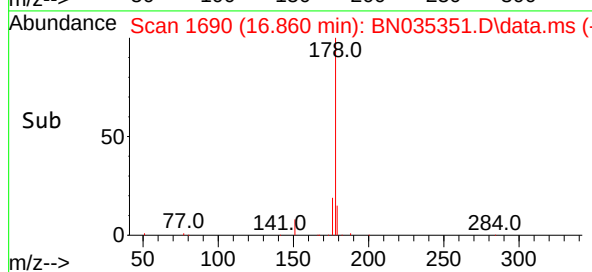
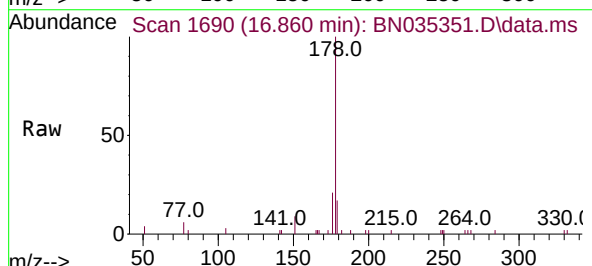
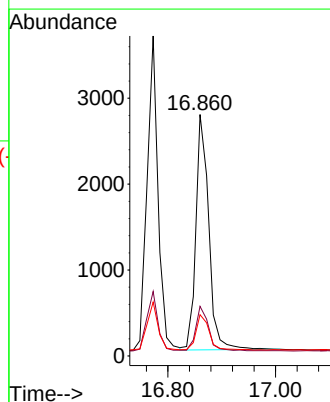
RT: 16.860 min Scan# 1690

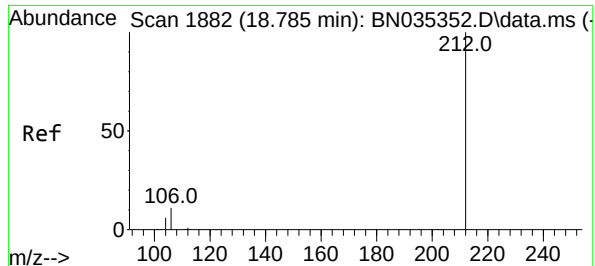
Delta R.T. -0.000 min

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# 1882

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

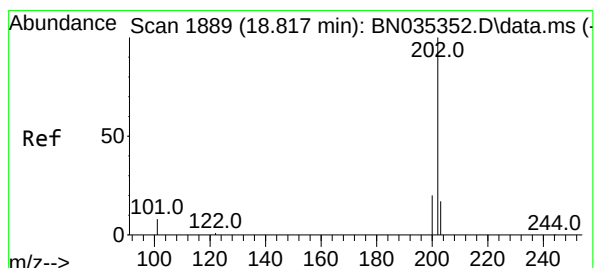
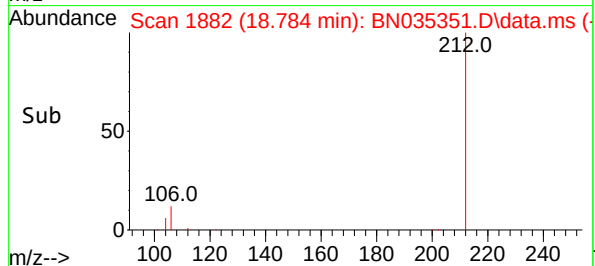
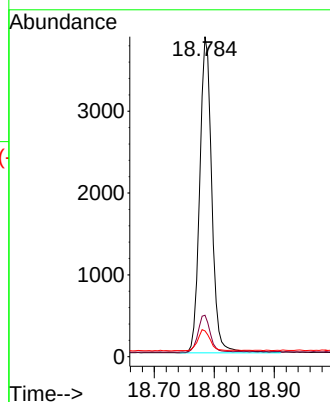
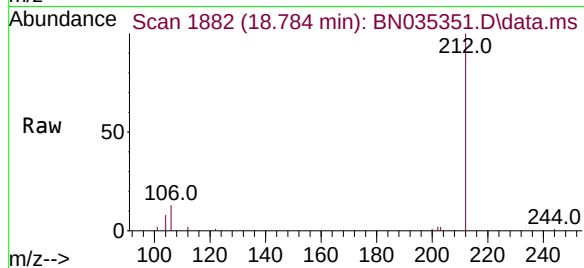
Tgt Ion:	212	Resp:	5379
Ion Ratio	Lower	Upper	
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.193 ng

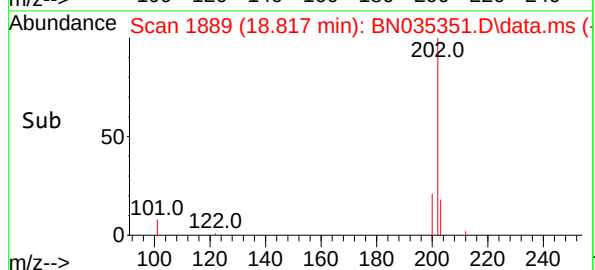
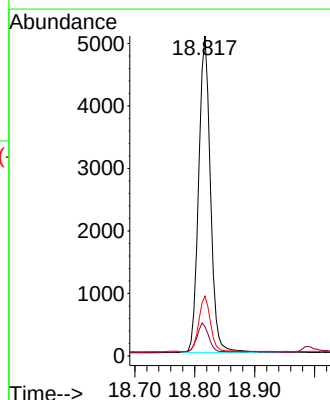
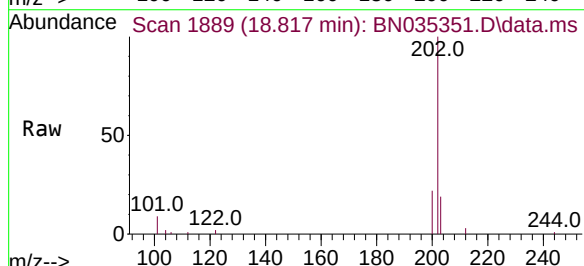
RT: 18.817 min Scan# 1889

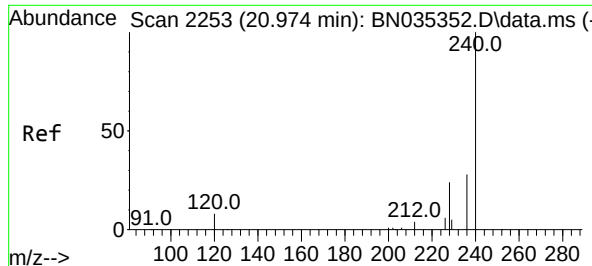
Delta R.T. -0.000 min

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# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

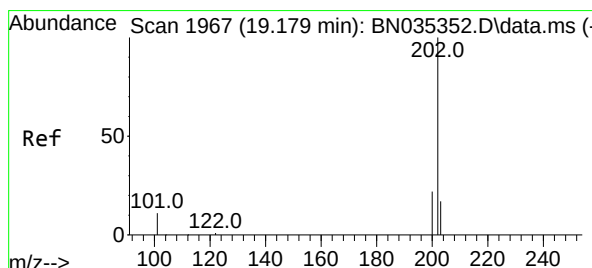
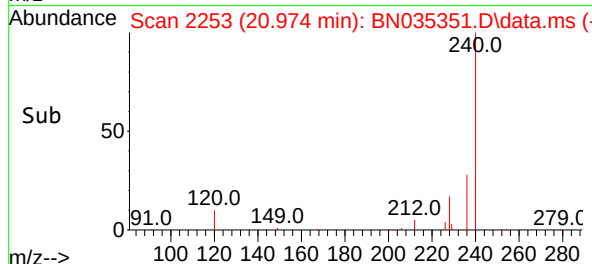
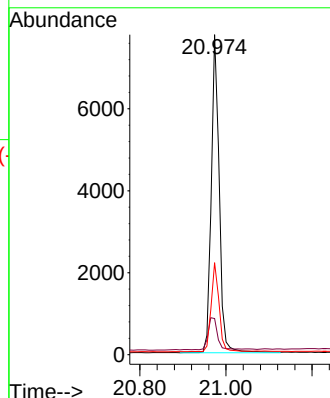
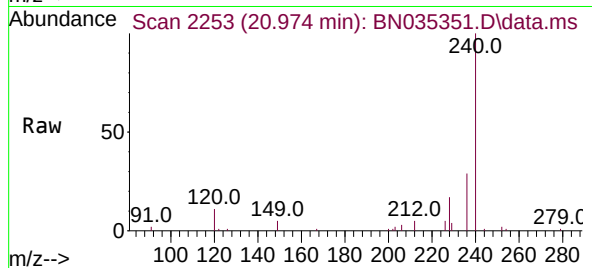
ClientSampleId :

SSTDIC0.2

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

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.217 ng

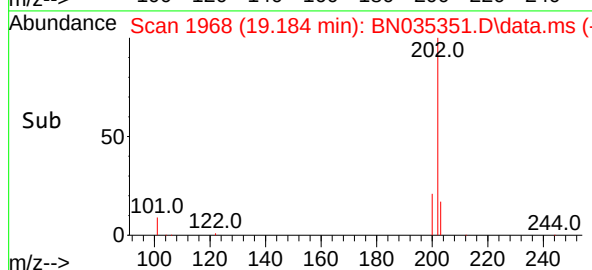
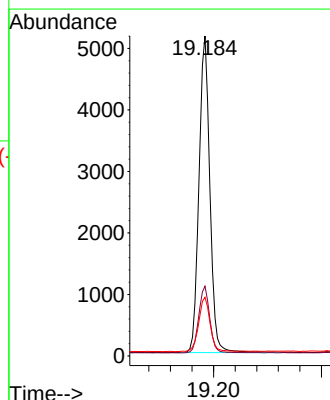
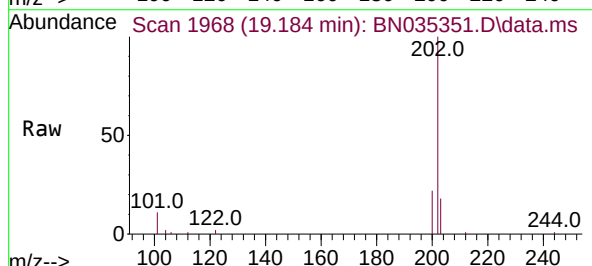
RT: 19.184 min Scan# 1968

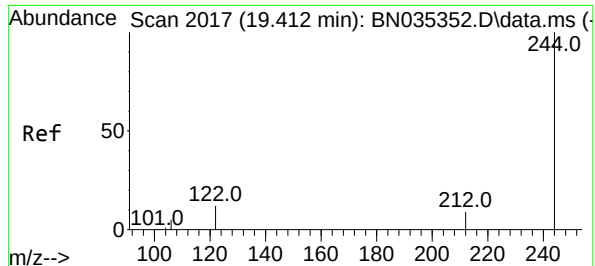
Delta R.T. 0.005 min

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# 2017
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

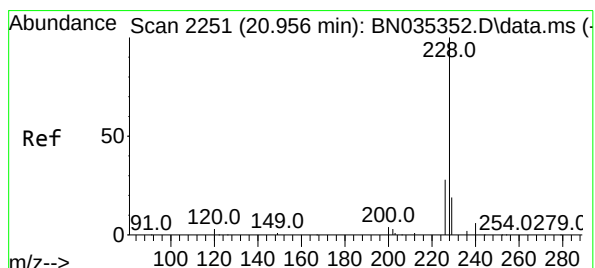
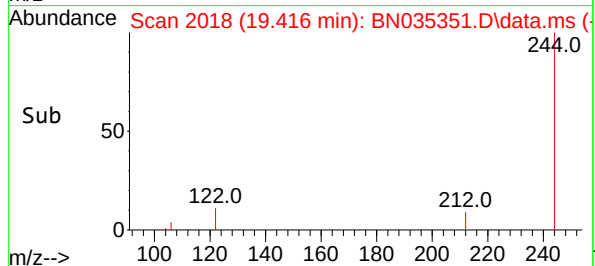
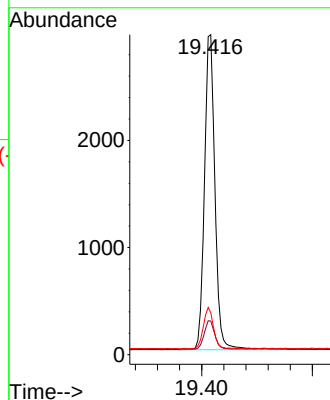
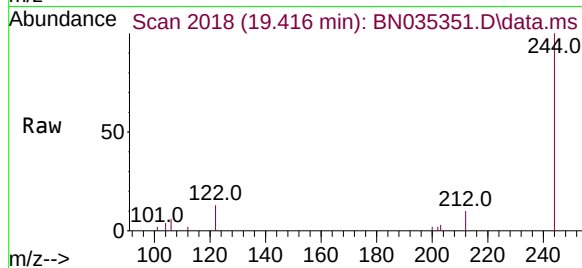
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5

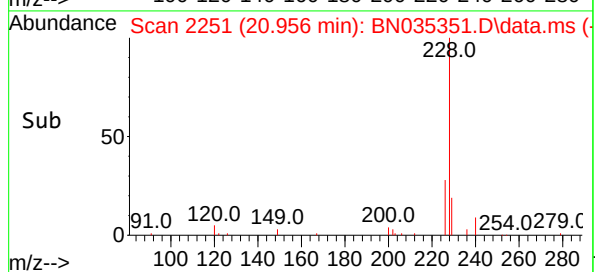
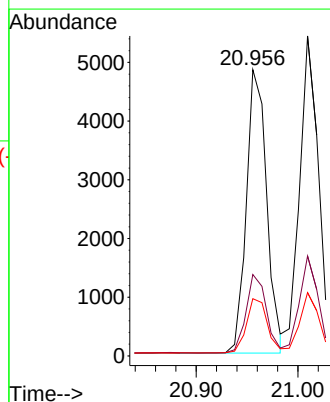
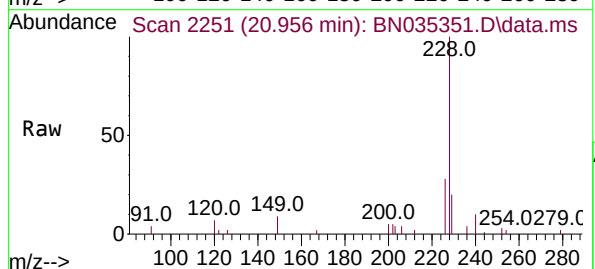
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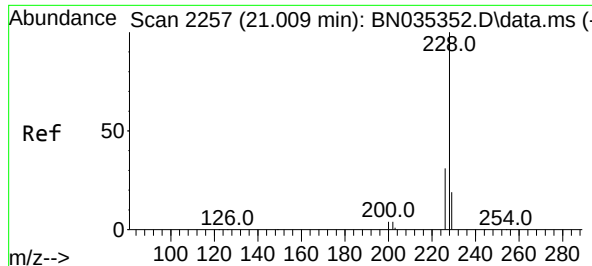
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8





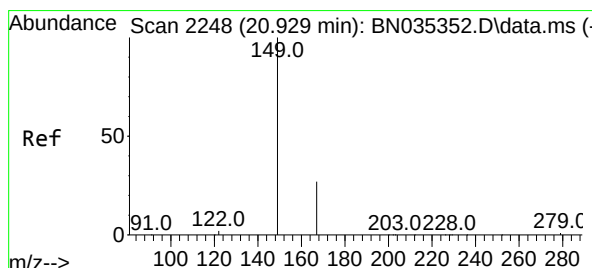
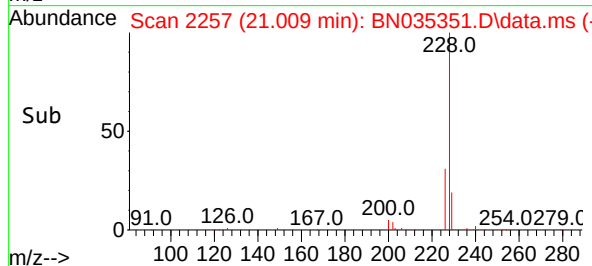
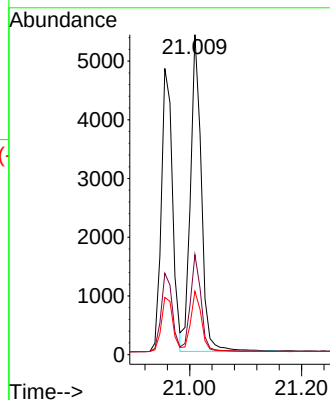
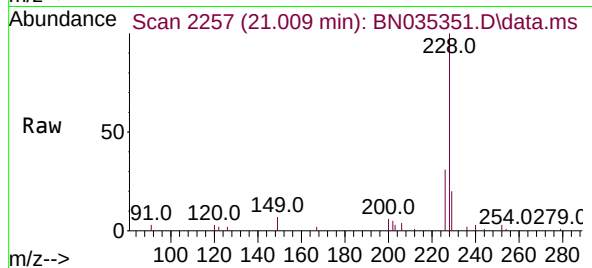
#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2100
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

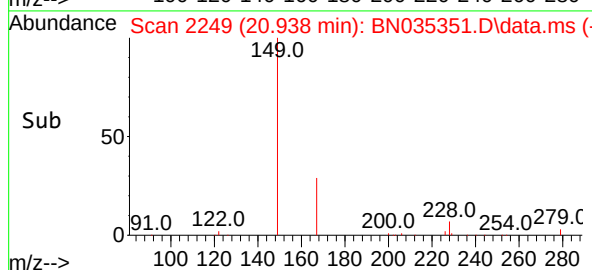
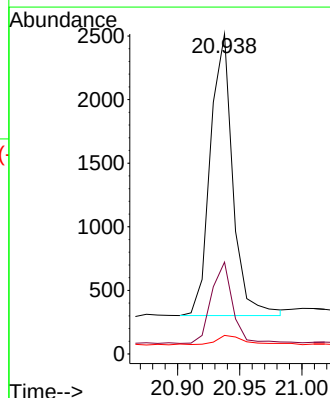
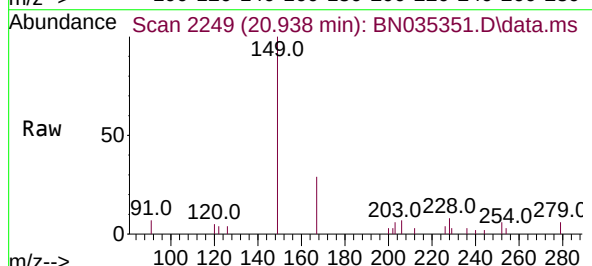
Manual Integrations
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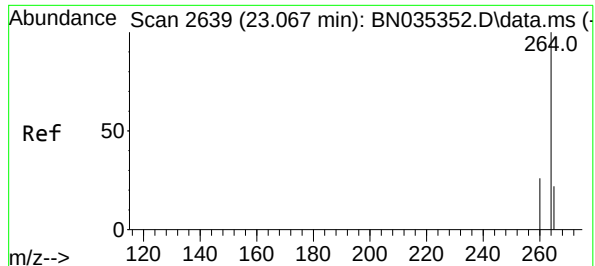
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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#





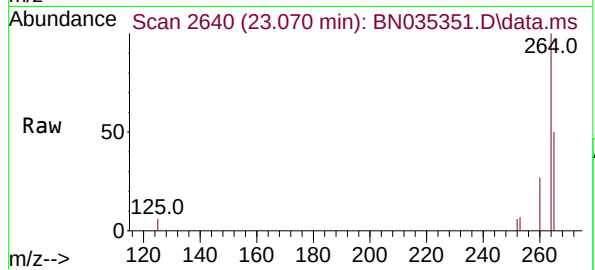
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2640
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

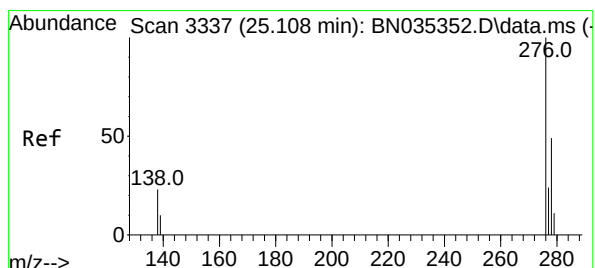
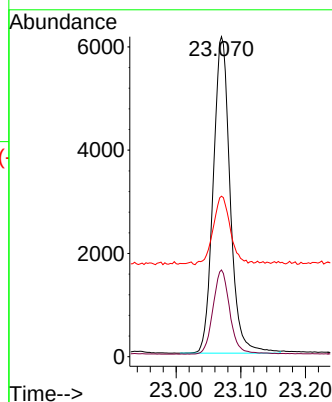
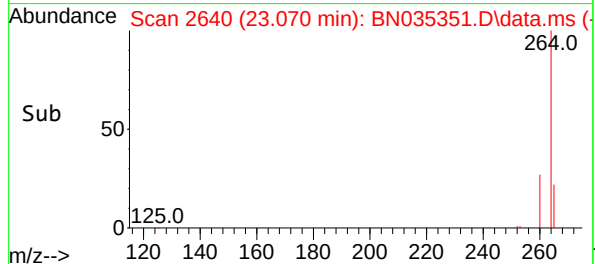
SSTDIC0.2



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

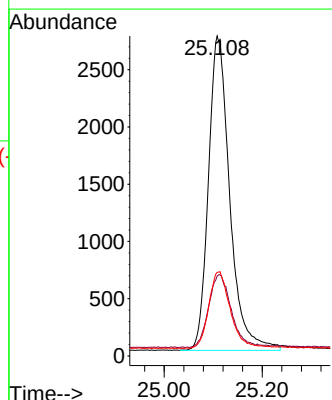
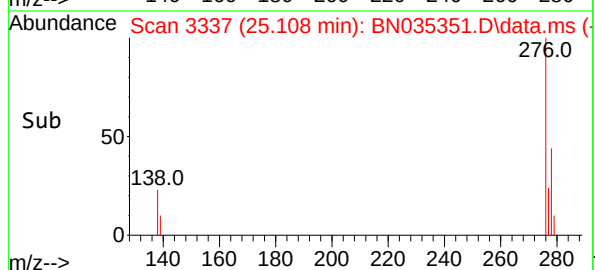
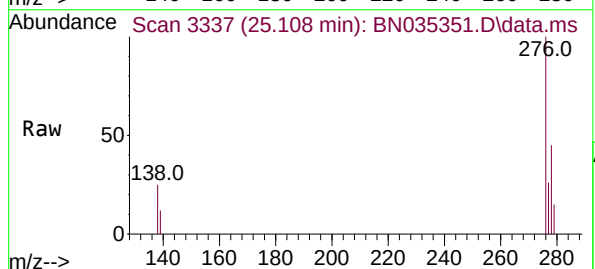
Manual Integrations
APPROVED

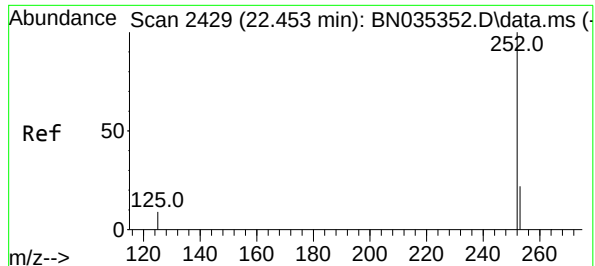
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 2429

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

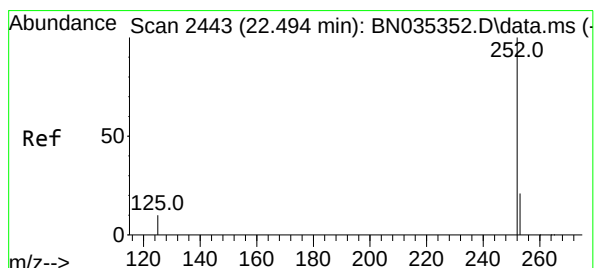
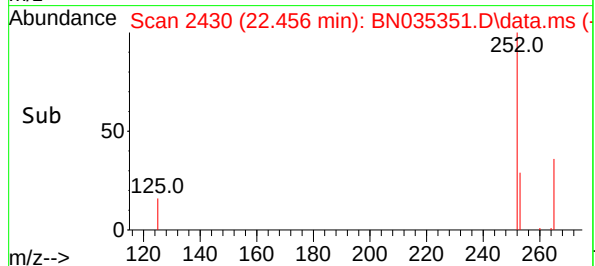
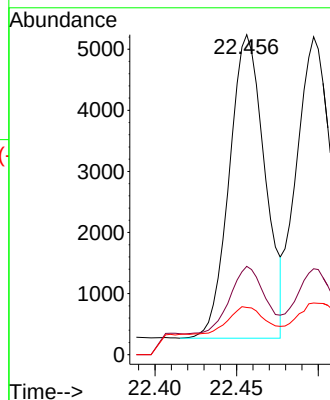
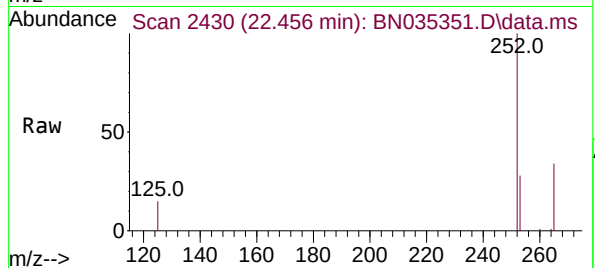
Tgt Ion:	252	Resp:	752
Ion Ratio	Lower	Upper	
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4

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

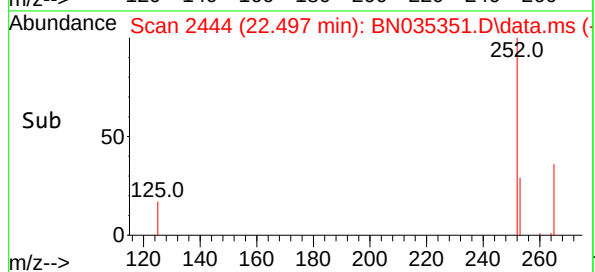
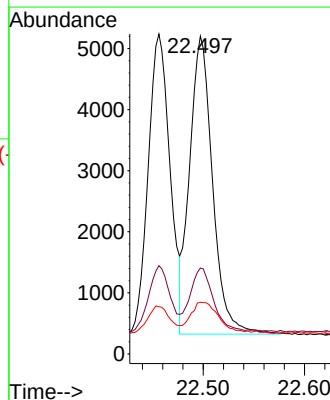
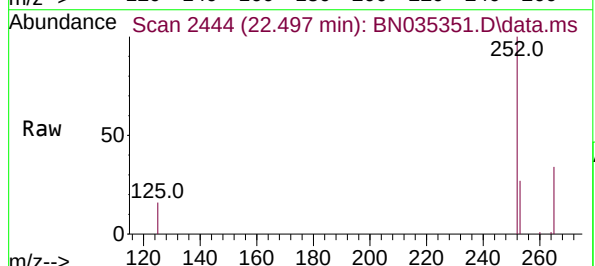
RT: 22.497 min Scan# 2444

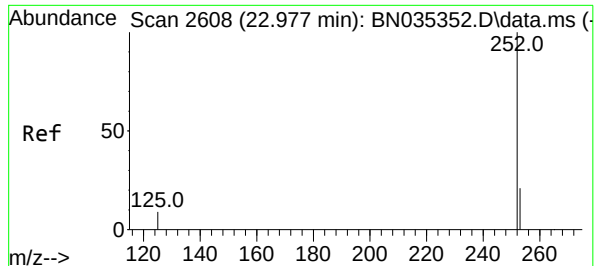
Delta R.T. 0.003 min

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# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

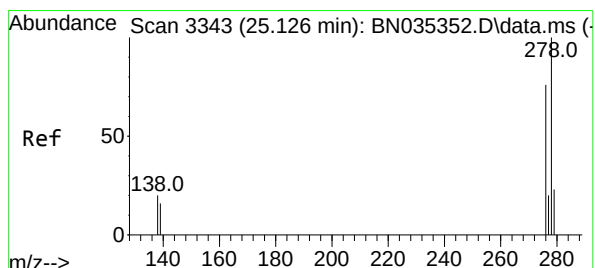
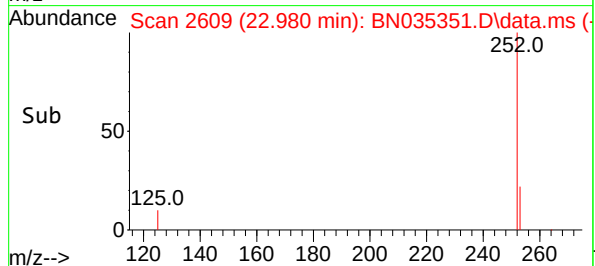
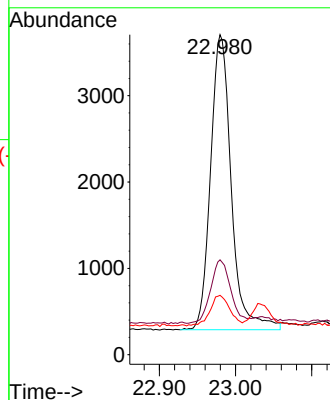
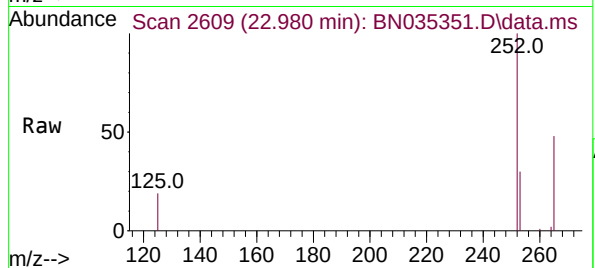
Tgt Ion:252	Resp:	6450
Ion Ratio	Lower	Upper
252	100	
253	29.7	20.2 30.4
125	18.5	10.9 16.3

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

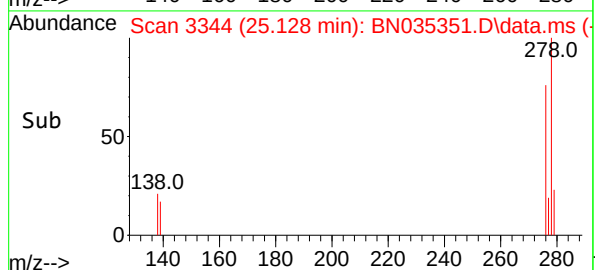
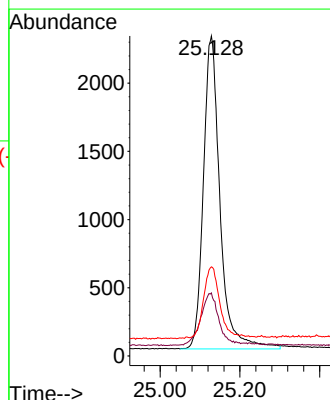
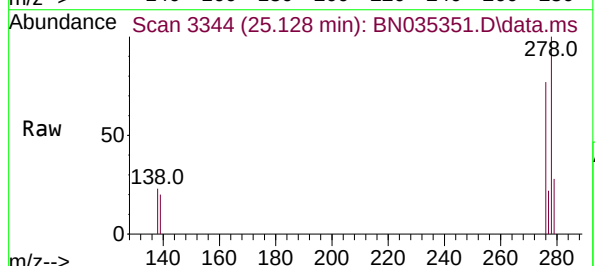
RT: 25.128 min Scan# 3344

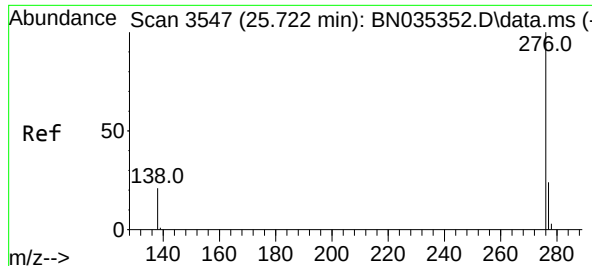
Delta R.T. 0.003 min

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# 31

Delta R.T. 0.003 min

Lab File: BN035351.D

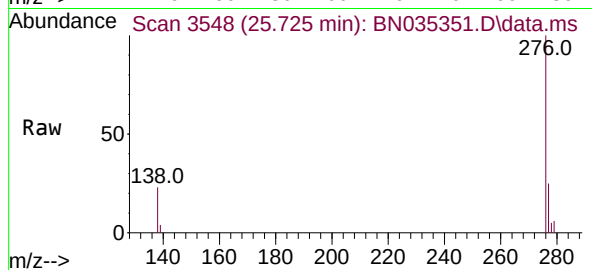
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6908

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

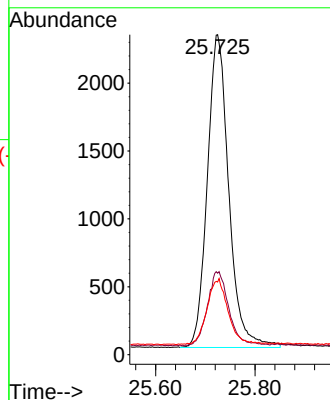
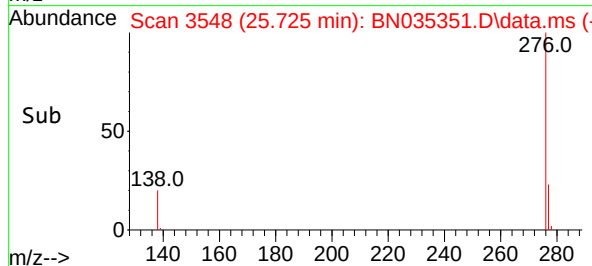
138 22.7 17.8 26.8

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 : 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

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

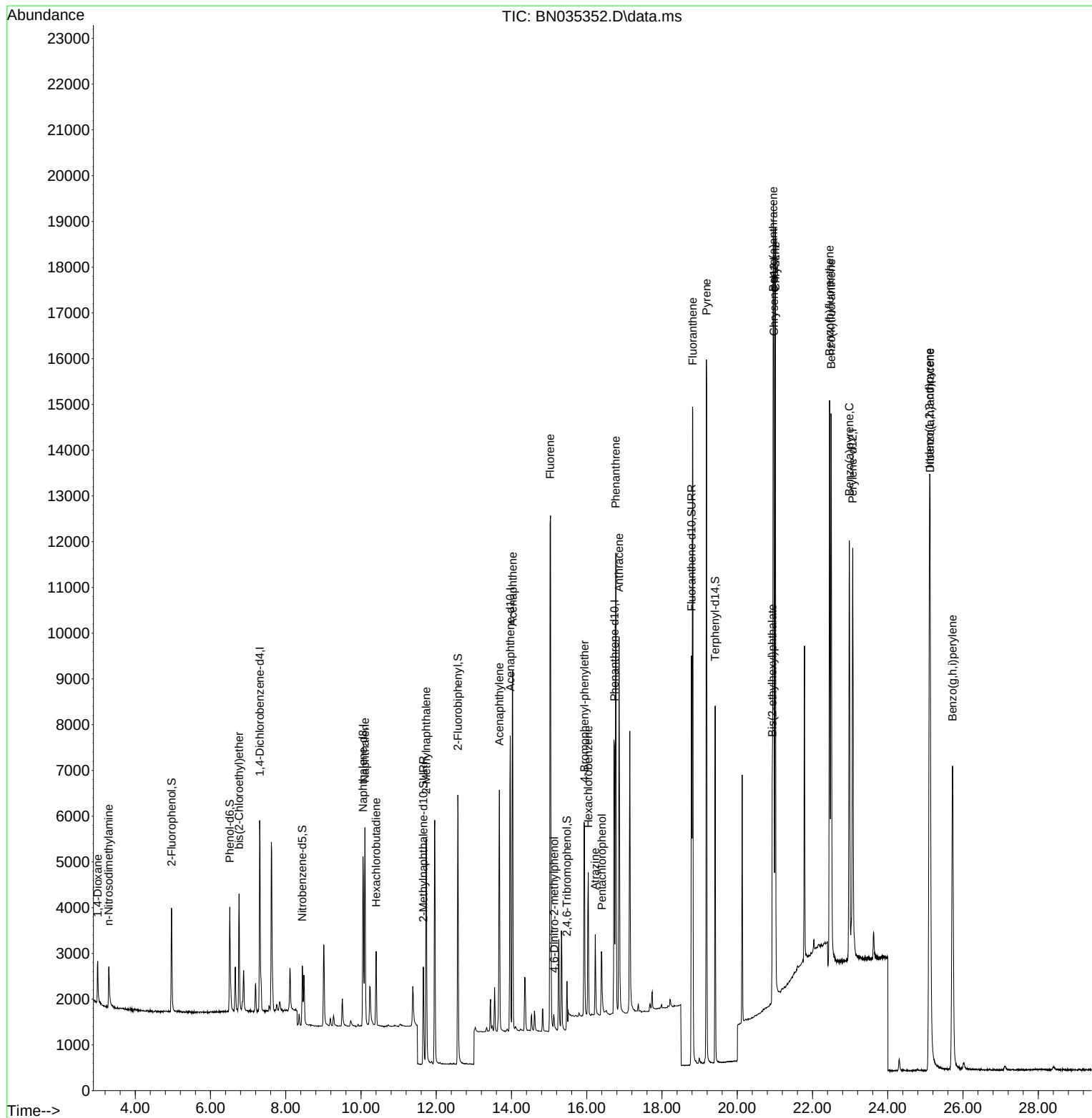
Response via : Initial Calibration

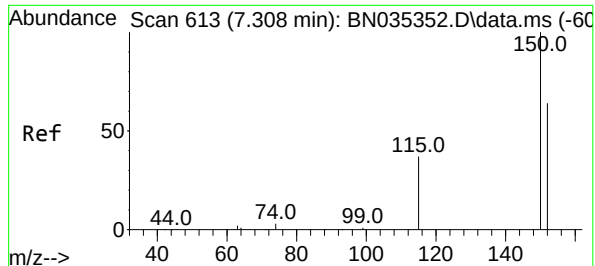
Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

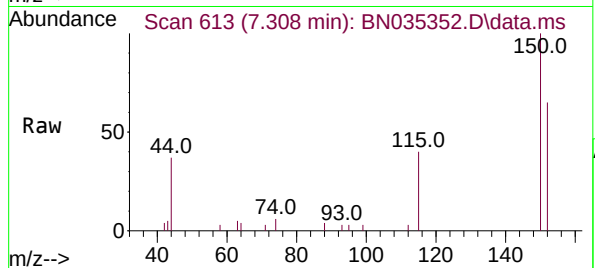
Supervised By :mohammad ahmed 12/03/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

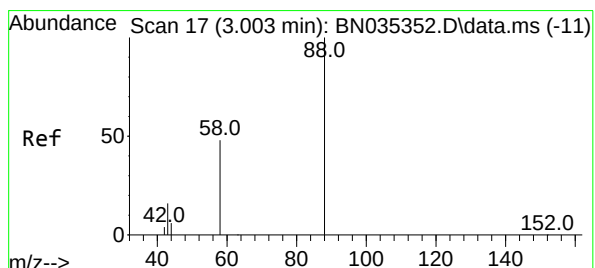
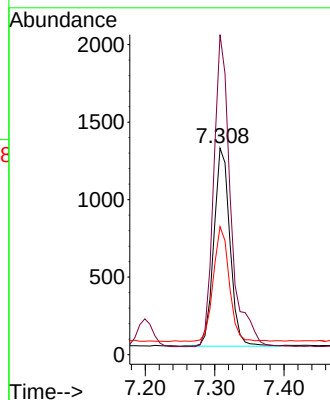
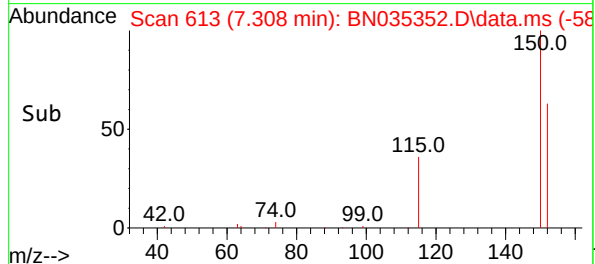
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

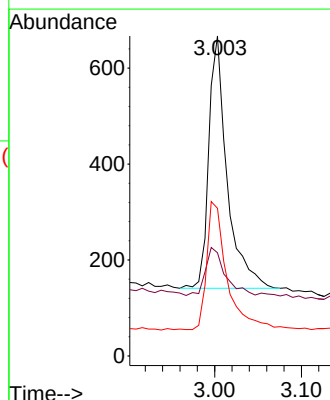
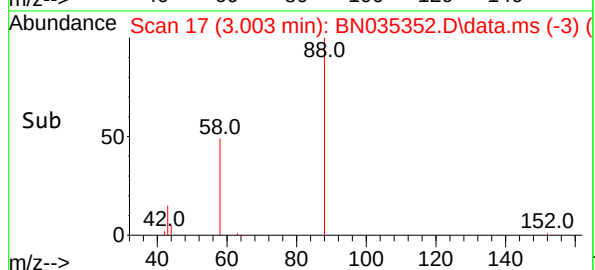
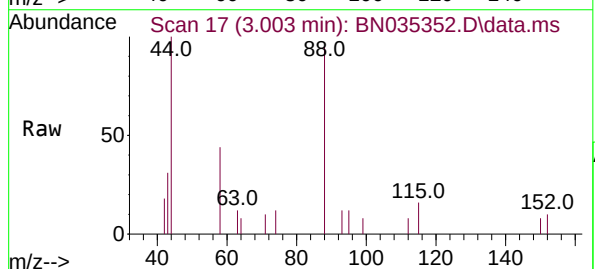
Manual Integrations
APPROVED

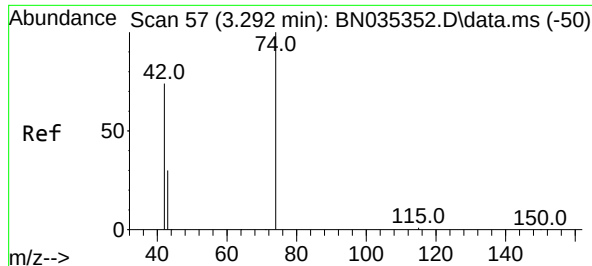
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

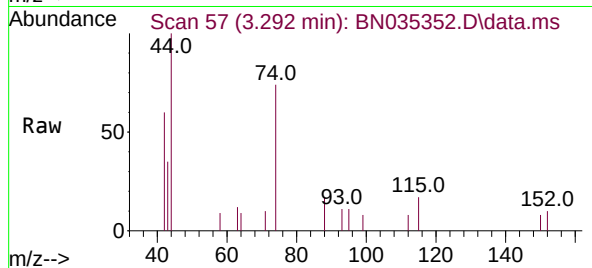
Tgt Ion: 88 Resp: 771
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 55.6 44.5 66.7





#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

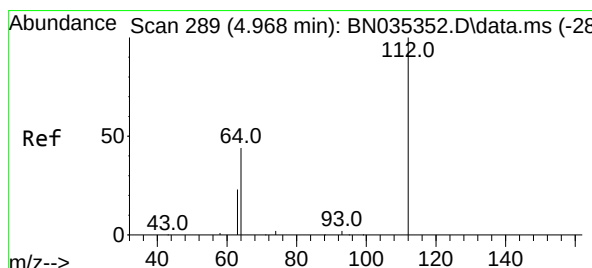
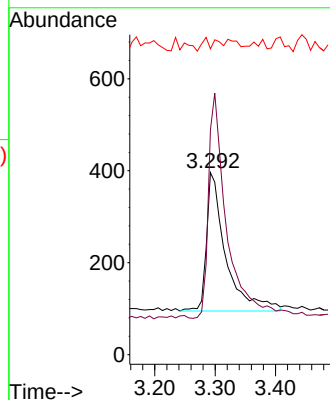
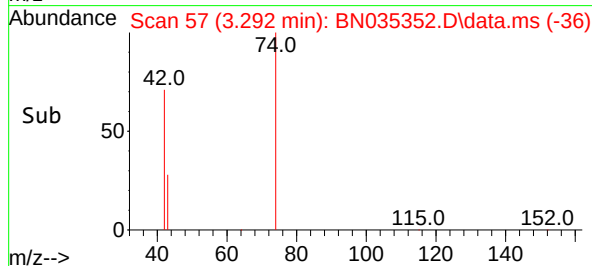
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



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

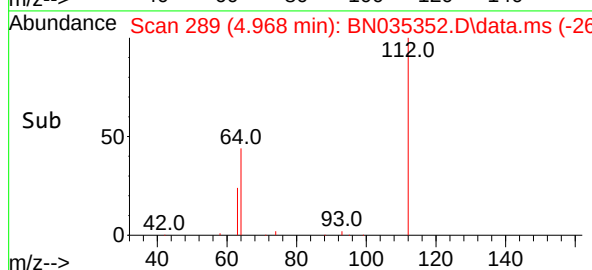
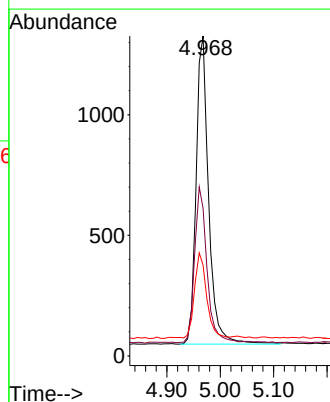
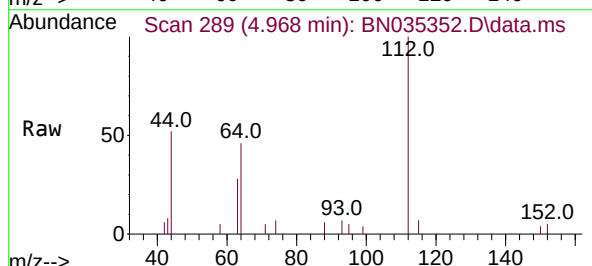
Manual Integrations
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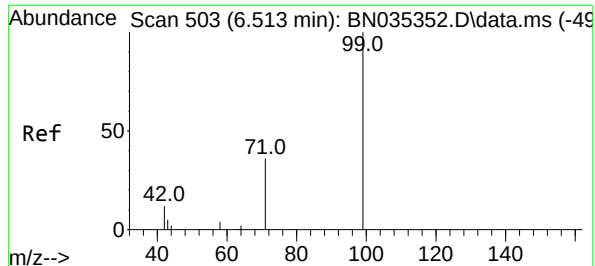
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#4
2-Fluorophenol
Concen: 0.401 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





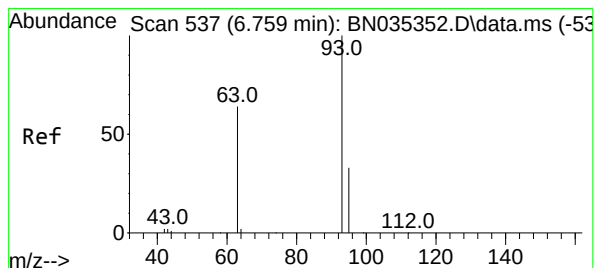
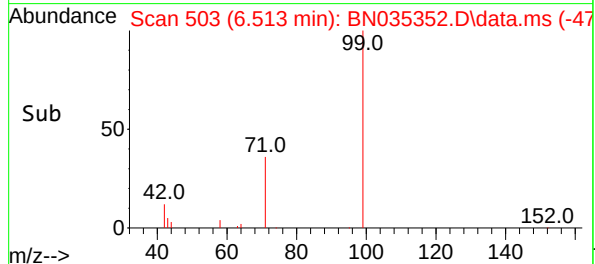
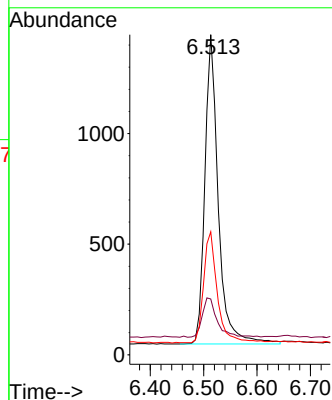
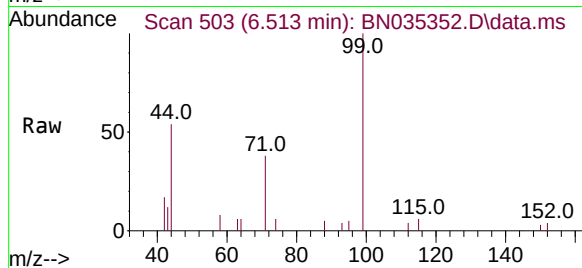
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 244
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.2
71 36.6 29.3 43.9

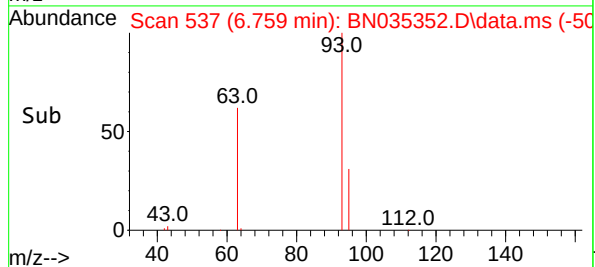
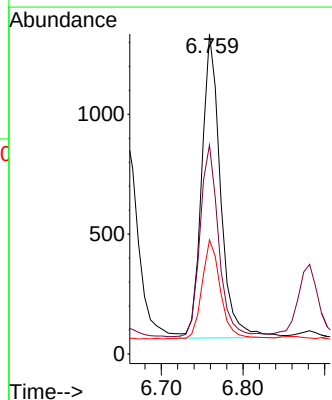
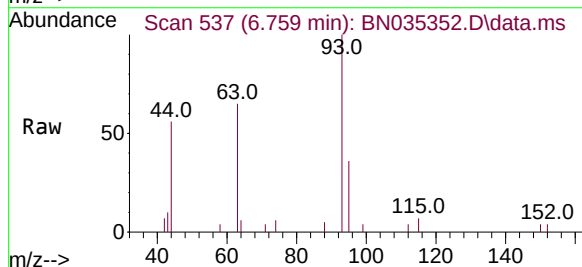
Manual Integrations
APPROVED

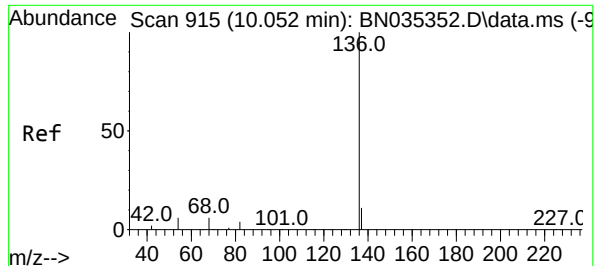
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





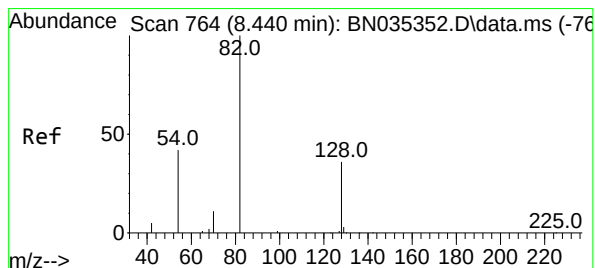
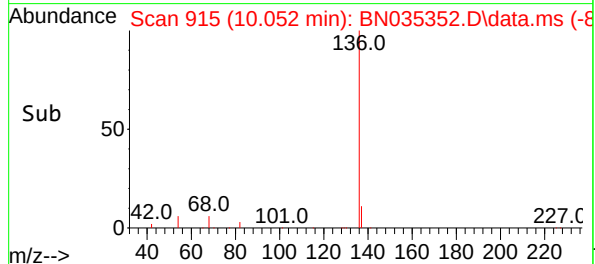
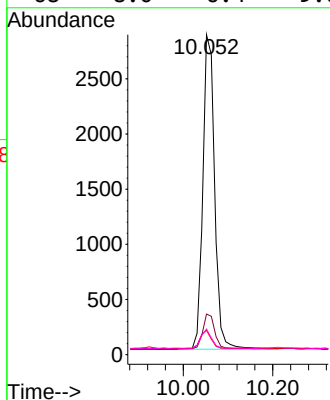
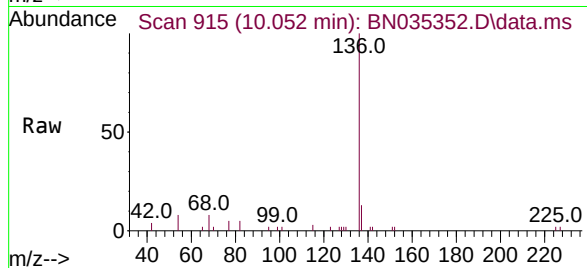
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt 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

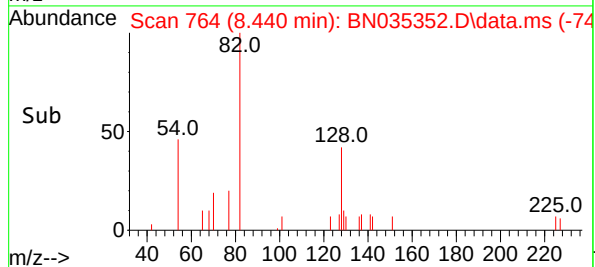
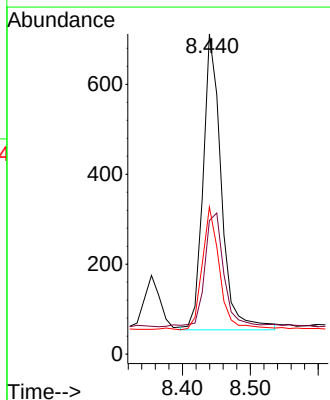
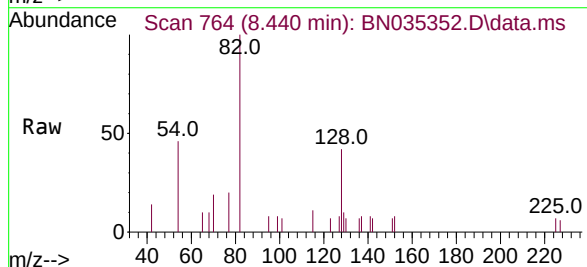
Manual Integrations
APPROVED

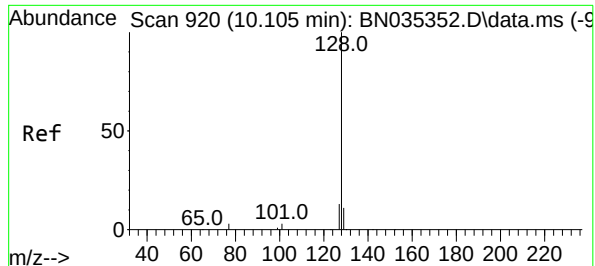
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1





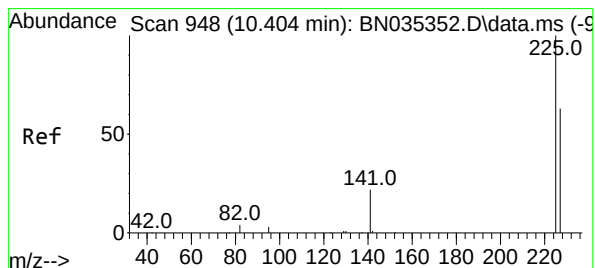
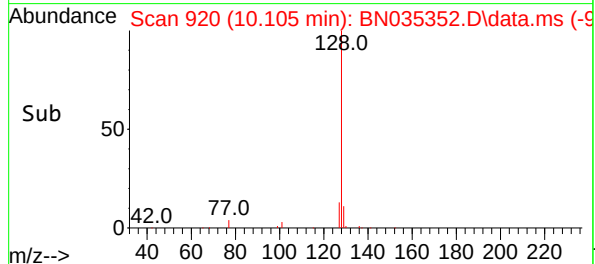
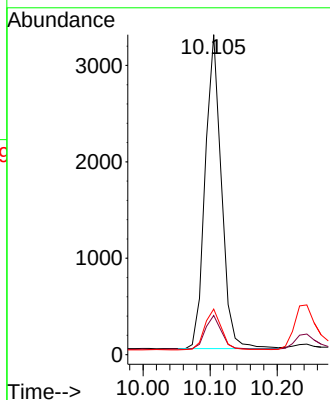
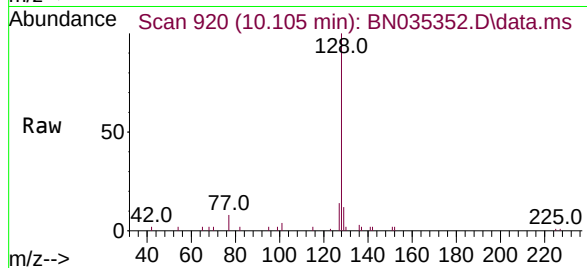
#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 547
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.3 11.4 17.2

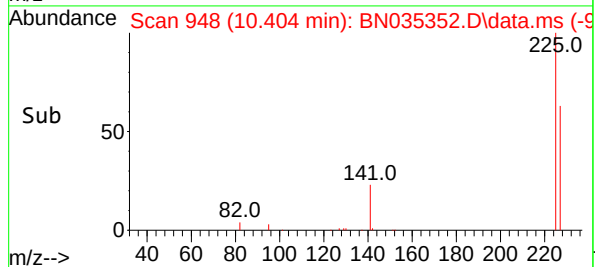
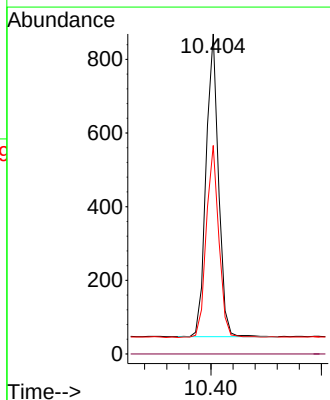
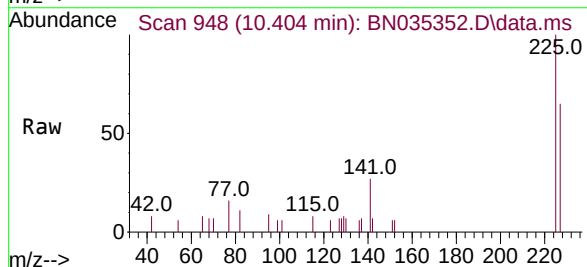
Manual Integrations
APPROVED

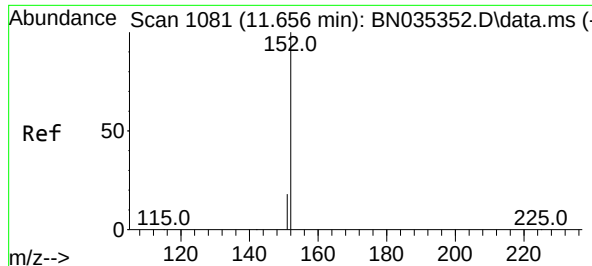
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





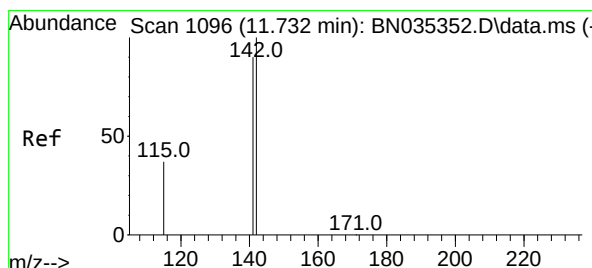
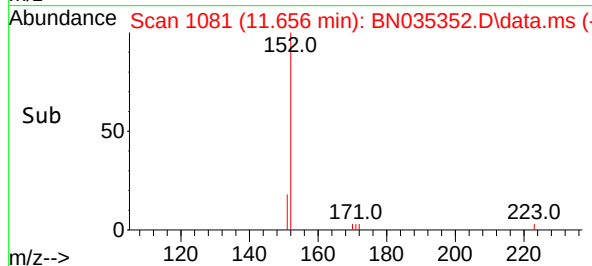
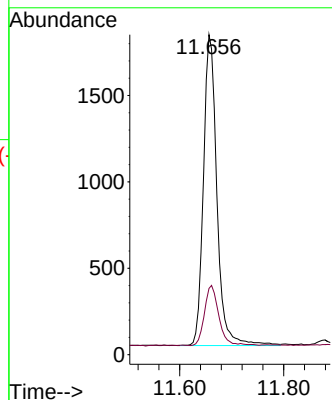
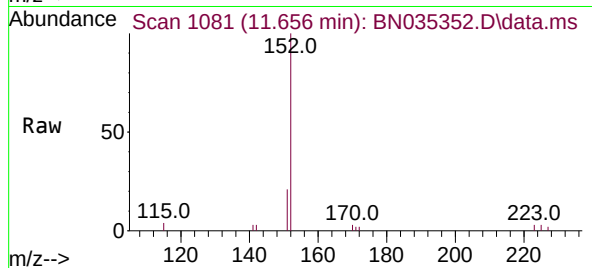
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 323
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

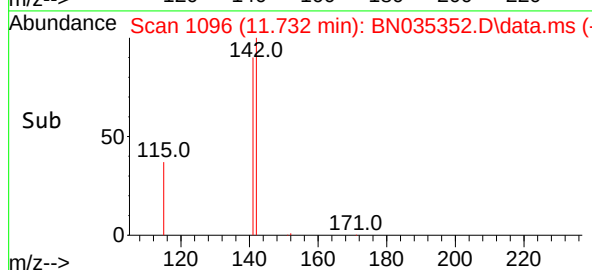
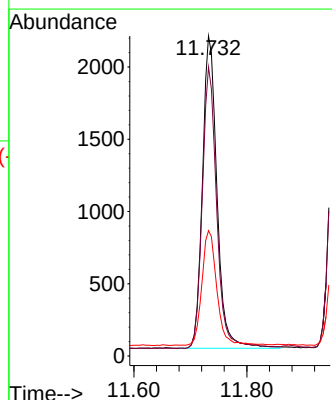
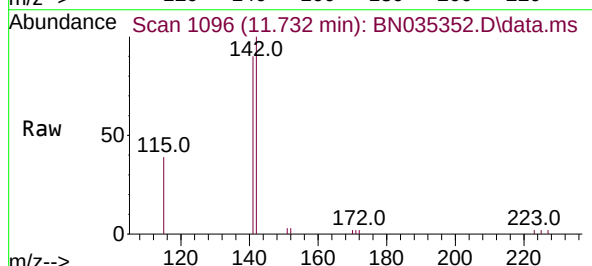
Manual Integrations
APPROVED

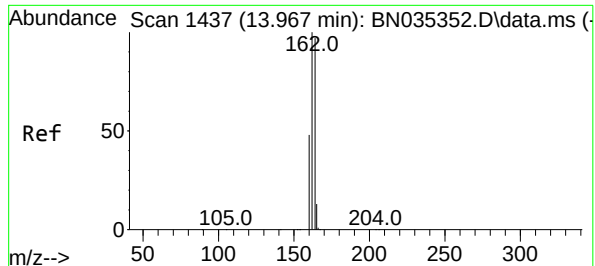
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

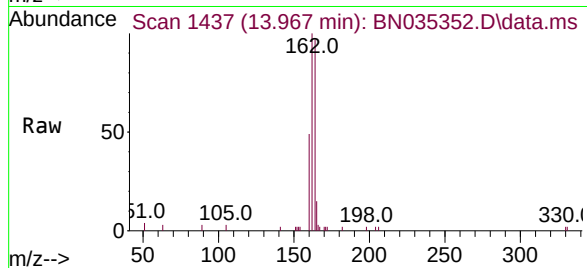
Tgt Ion:142 Resp: 3867
Ion Ratio Lower Upper
142 100
141 90.3 72.2 108.4
115 39.2 31.4 47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

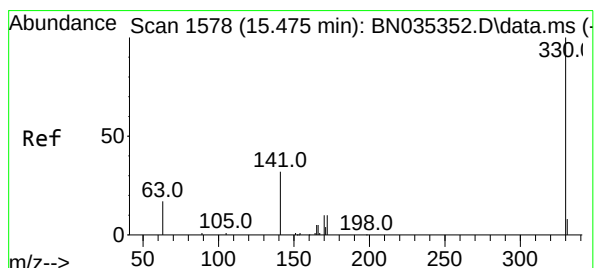
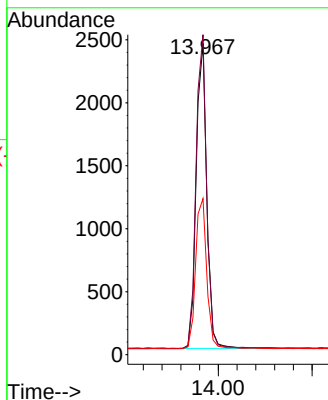
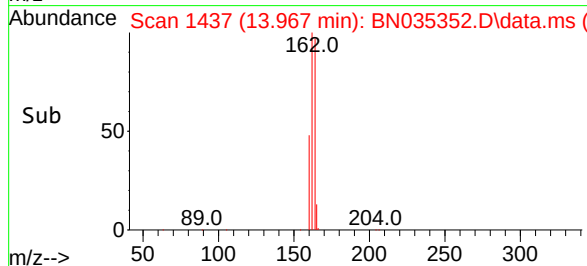
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



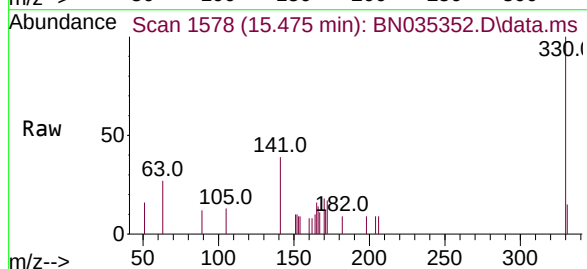
Tgt Ion:164 Resp: 3799
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.2
160 50.1 40.1 60.1

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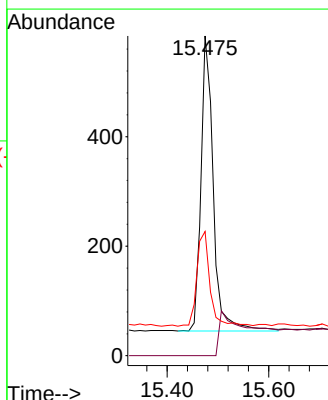
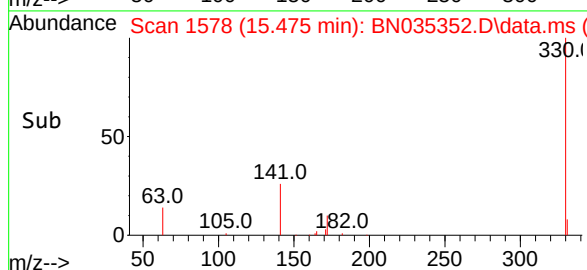
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

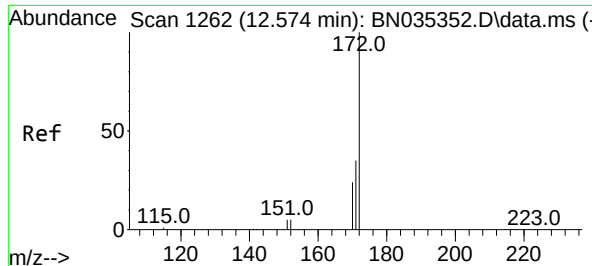


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



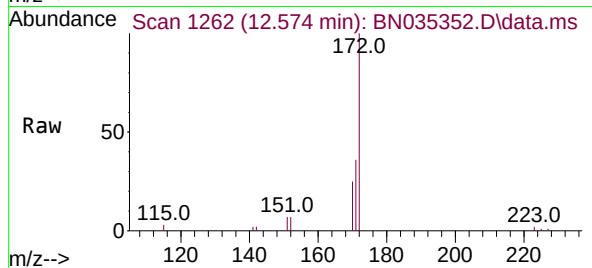
Tgt Ion:330 Resp: 975
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 33.3 26.6 40.0





#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

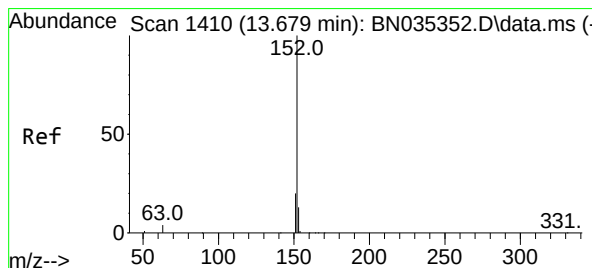
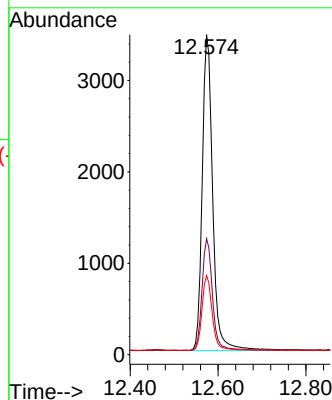
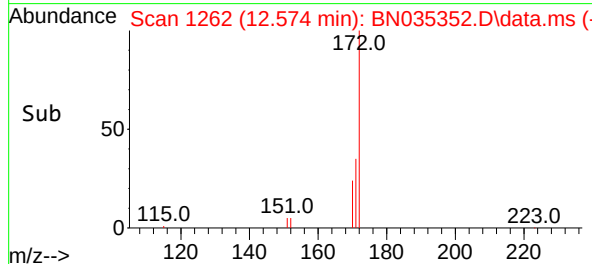
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:172 Resp: 573
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.8 19.8 29.8

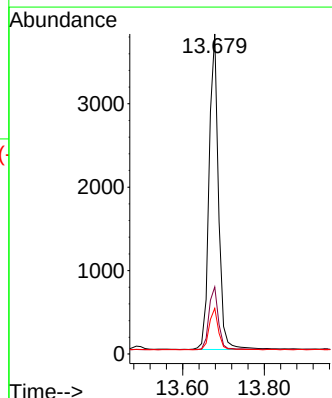
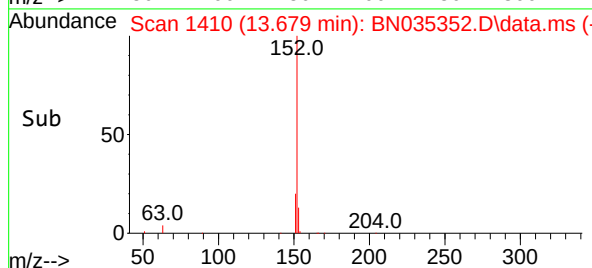
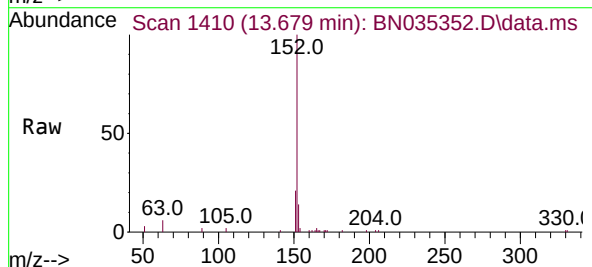
Manual Integrations
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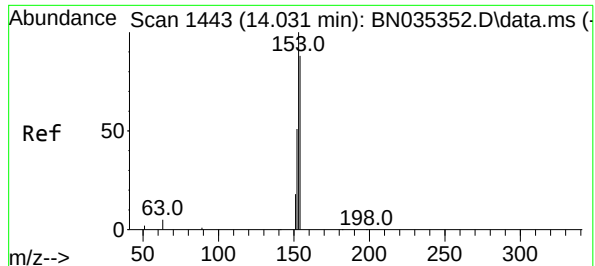
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





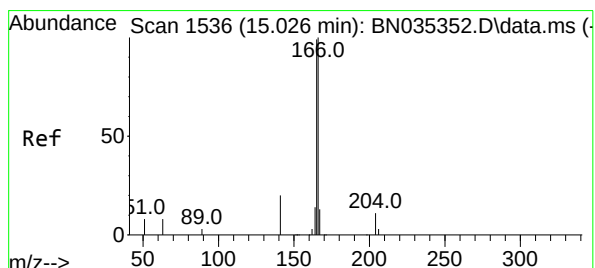
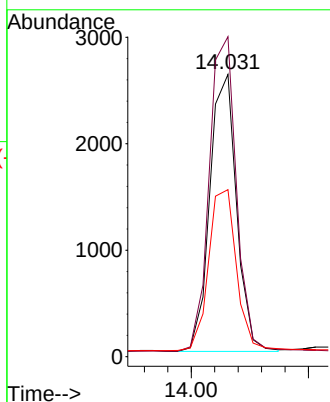
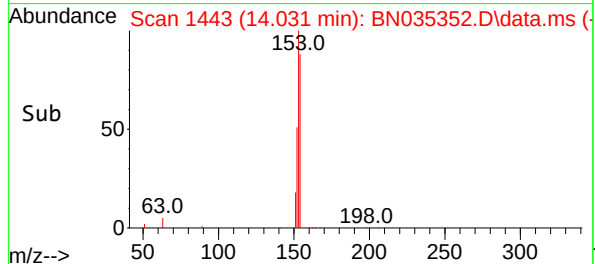
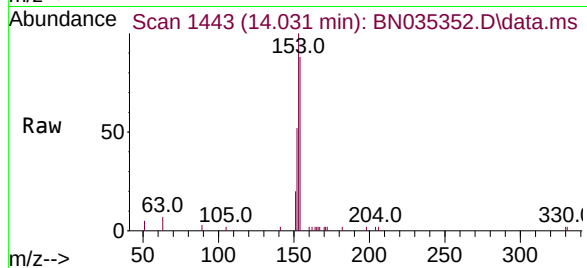
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

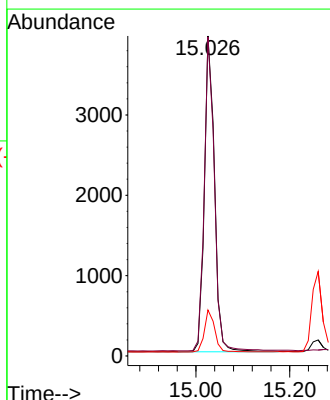
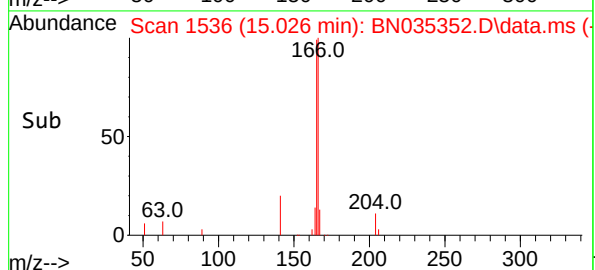
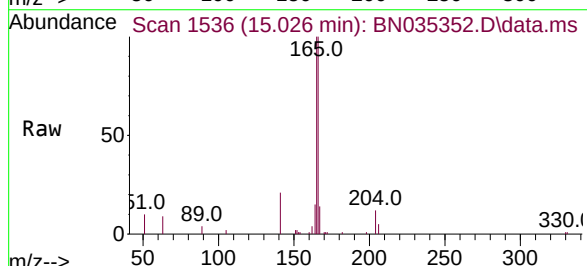
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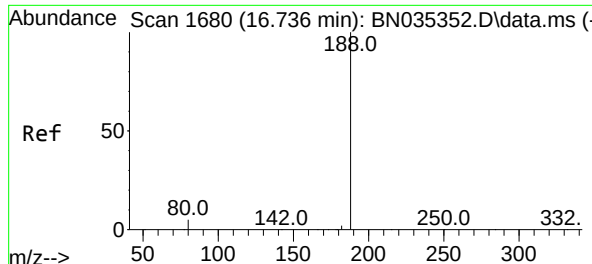
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

Instrument :

BNA_N

ClientSampleId :

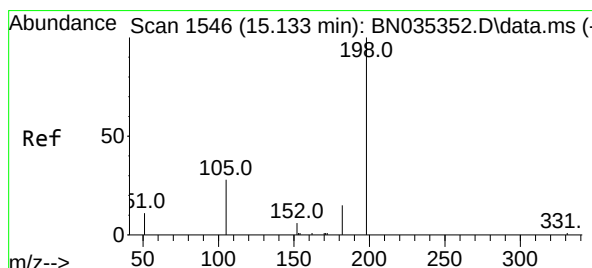
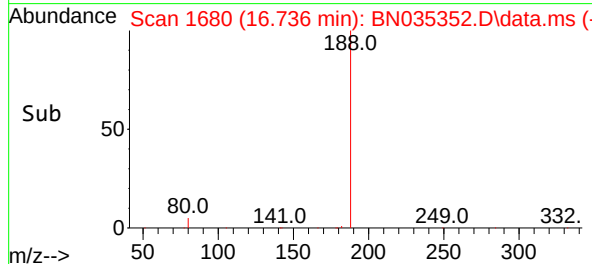
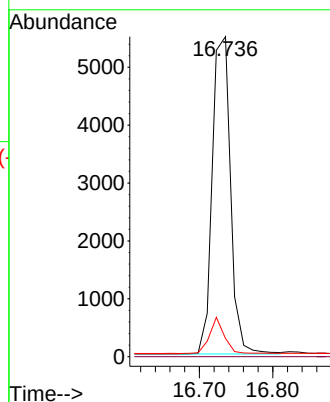
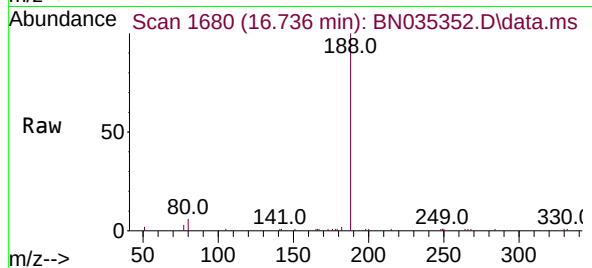
SSTDICCC0.4

Tgt Ion	188	Ratio	100	Lower	Upper
188	100				
94	0.0		0.0	0.0	
80	5.7		4.6	6.8	

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.171 ng

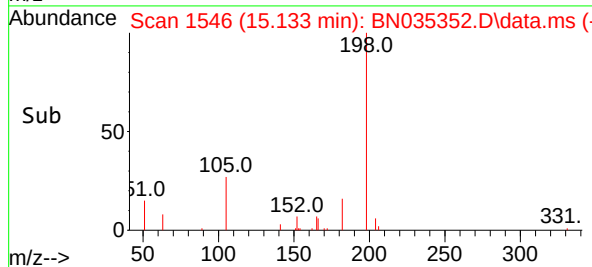
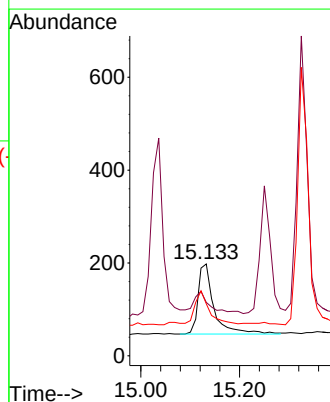
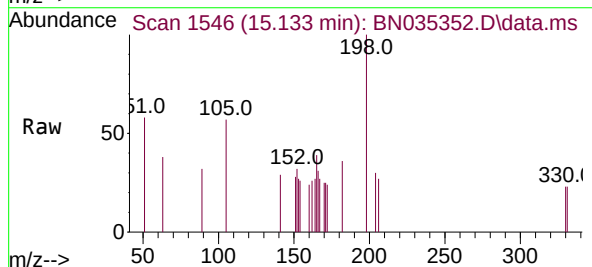
RT: 15.133 min Scan# 1546

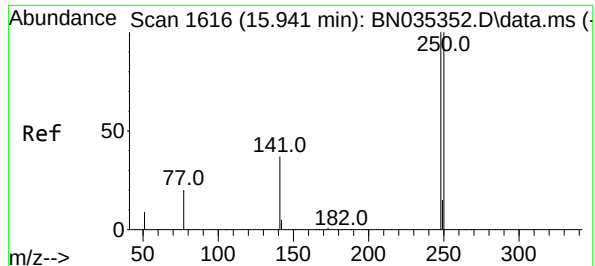
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Tgt Ion	198	Ratio	100	Lower	Upper
198	100				
51	58.1		46.5	69.7	
105	56.6		45.3	67.9	





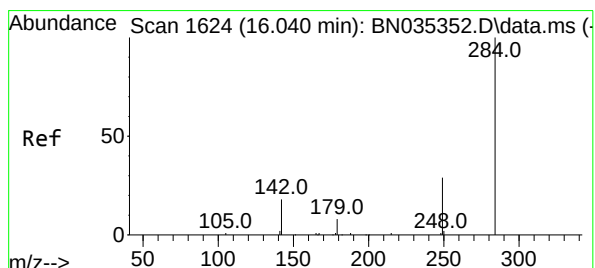
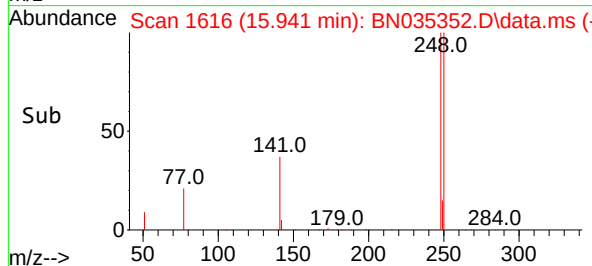
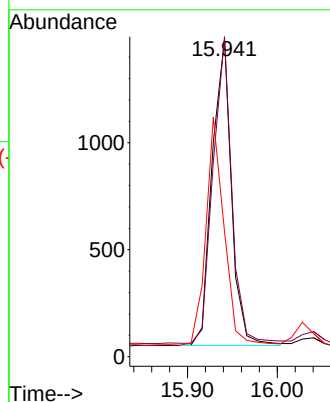
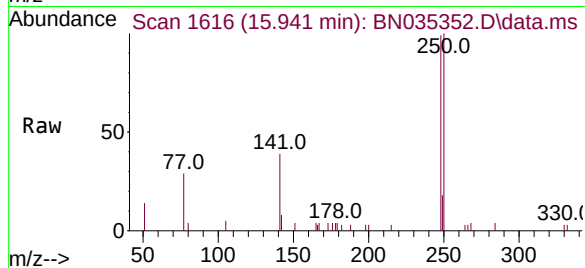
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2140
Ion Ratio Lower Upper
248 100
250 100.7 80.6 120.8
141 39.4 31.5 47.3

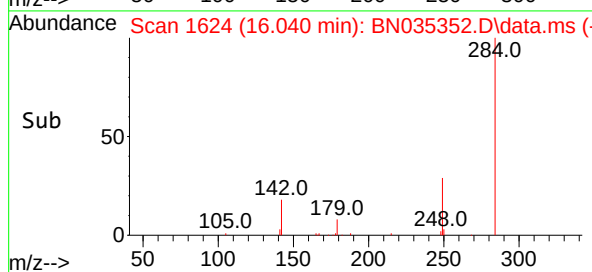
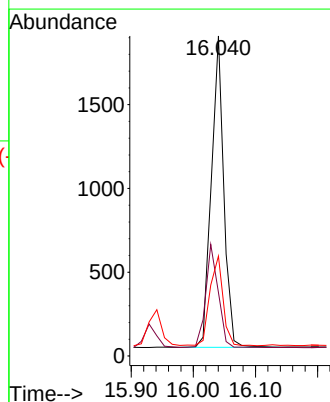
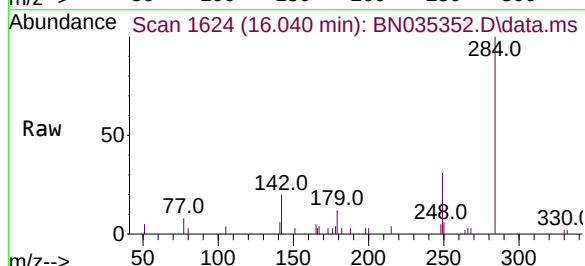
Manual Integrations
APPROVED

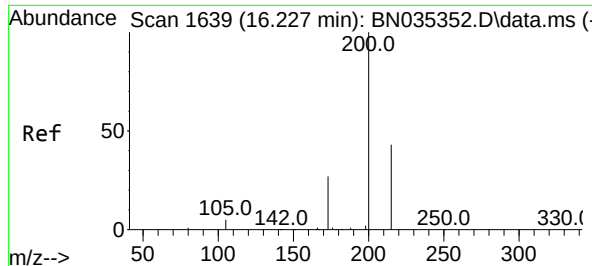
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





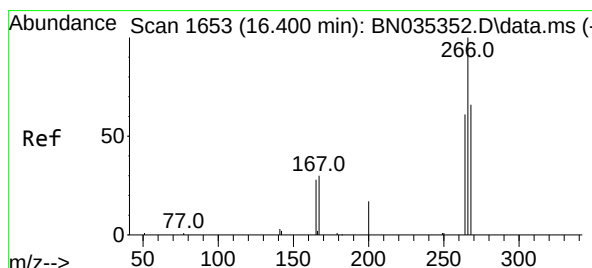
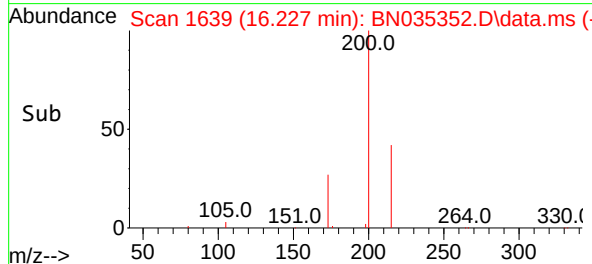
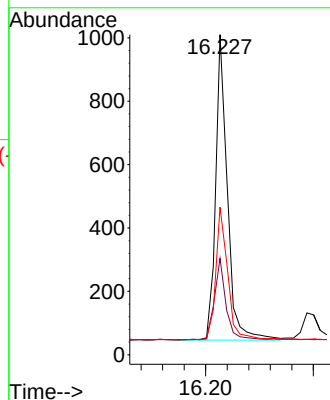
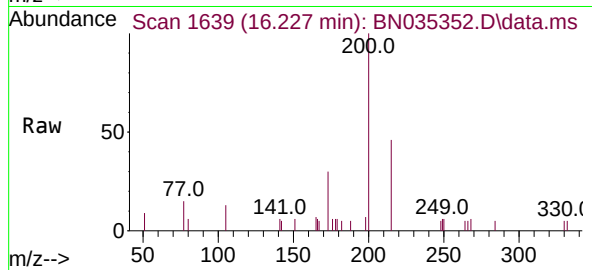
#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 146
Ion Ratio Lower Upper
200 100
173 30.1 24.1 36.1
215 46.1 36.9 55.3

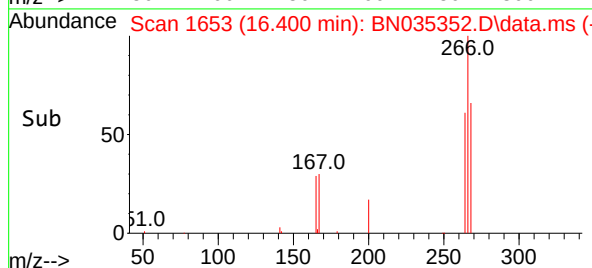
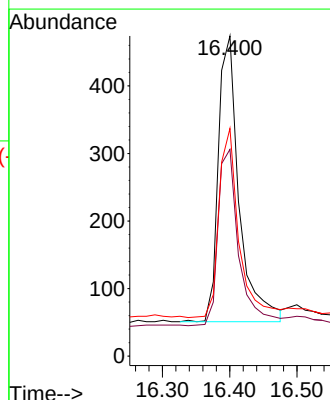
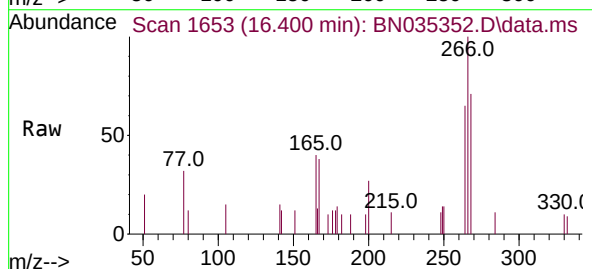
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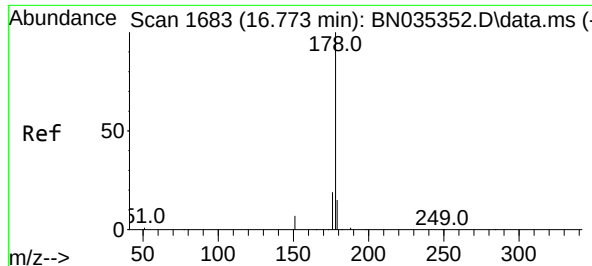
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





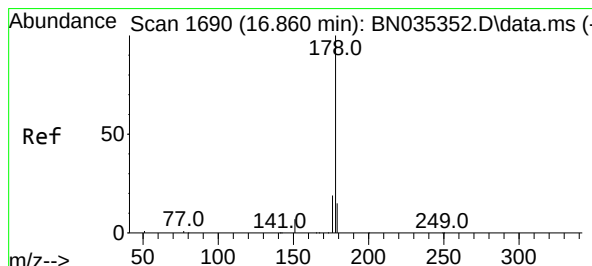
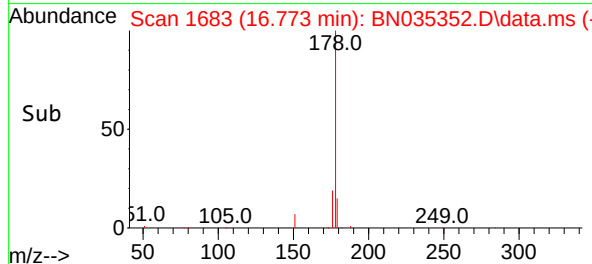
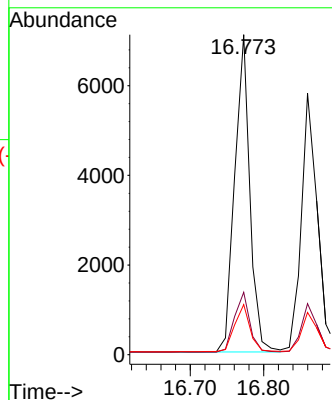
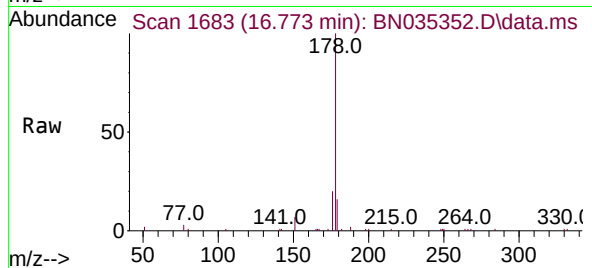
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 1012
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.3 18.5

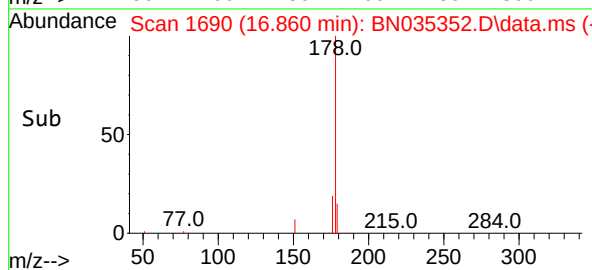
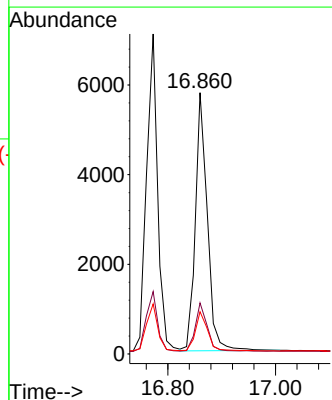
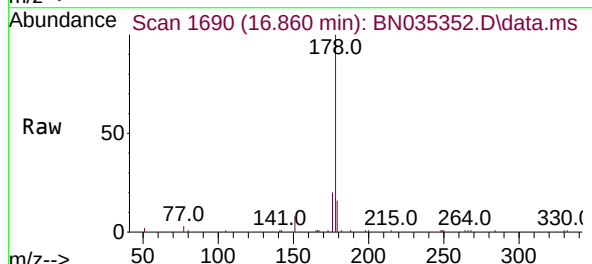
Manual Integrations
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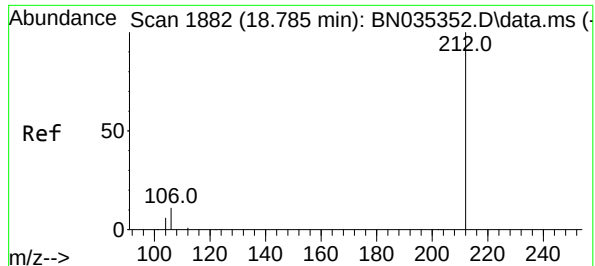
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1882

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

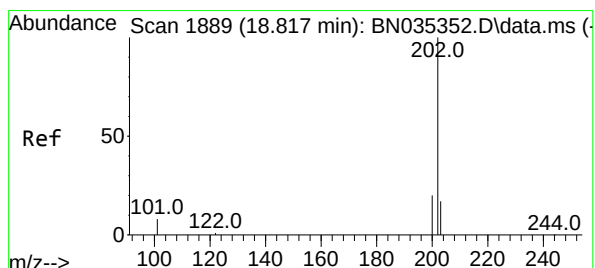
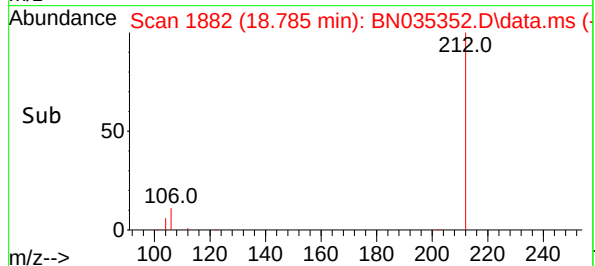
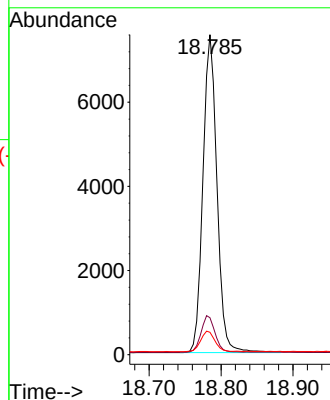
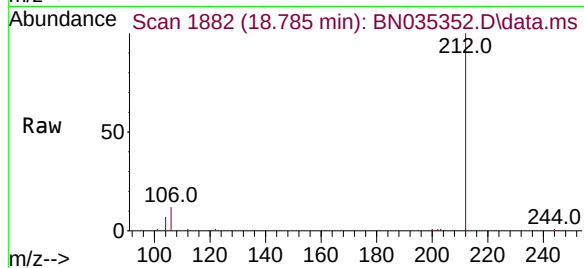
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	212	Resp:	1022
Ion Ratio	Lower	Upper	
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.391 ng

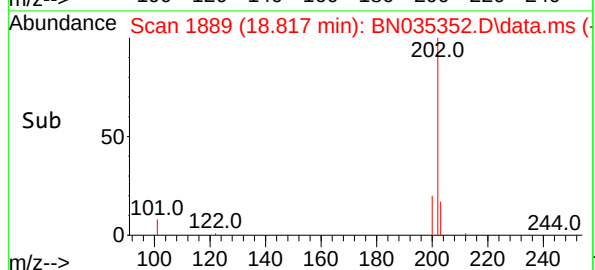
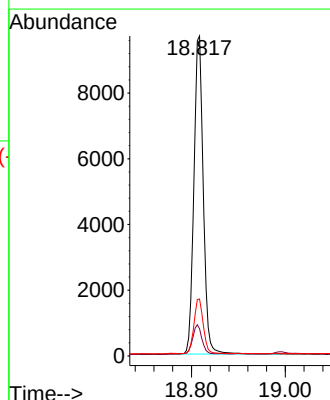
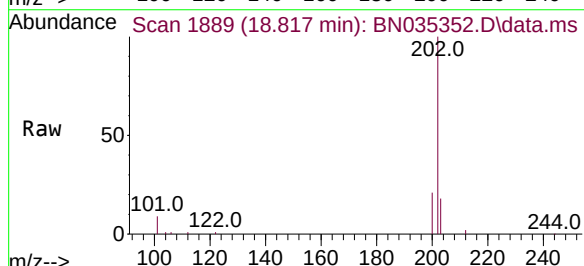
RT: 18.817 min Scan# 1889

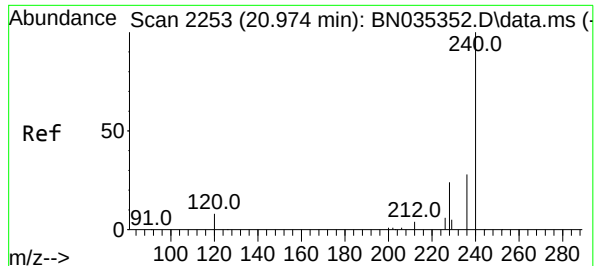
Delta R.T. 0.000 min

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# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

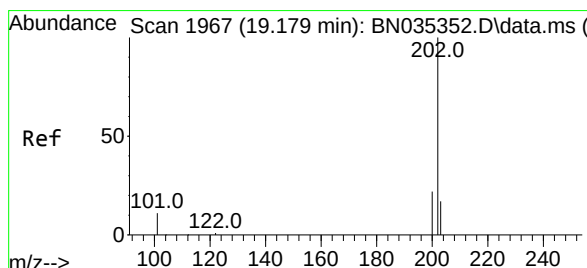
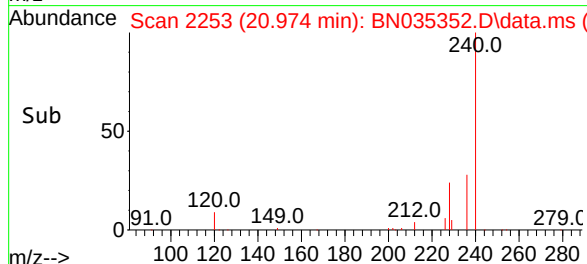
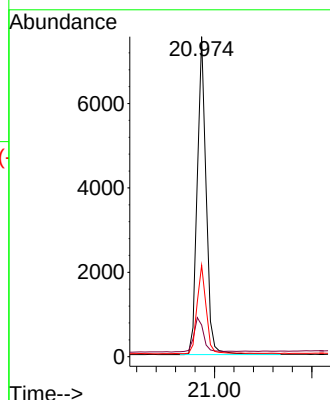
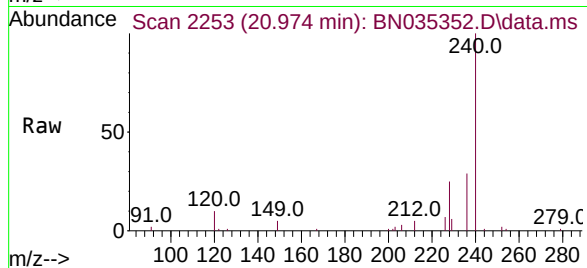
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	240	Resp:	952
Ion Ratio	Lower	Upper	
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.443 ng

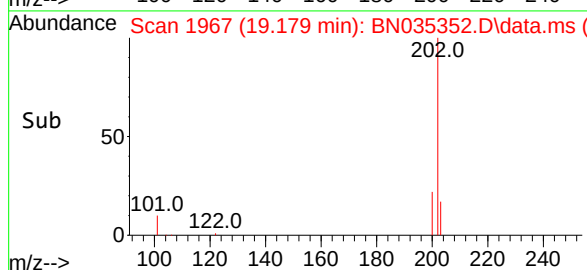
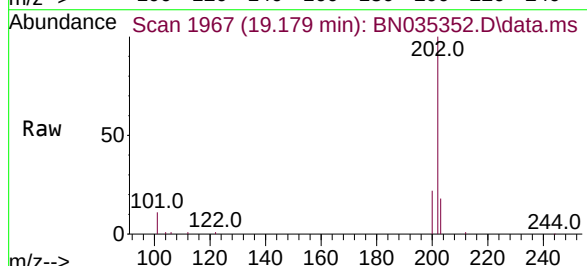
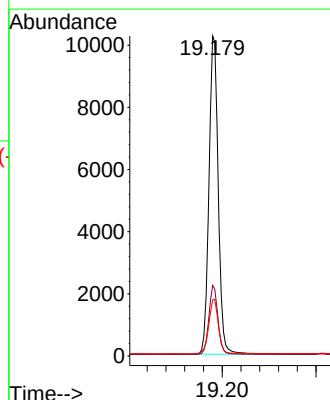
RT: 19.179 min Scan# 1967

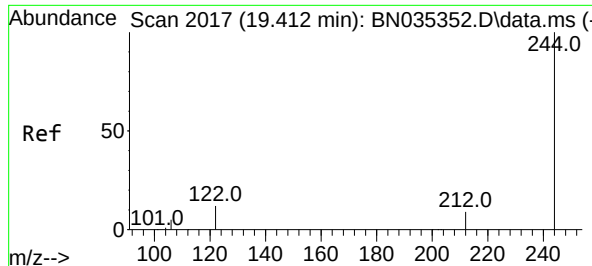
Delta R.T. 0.000 min

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# 2017
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

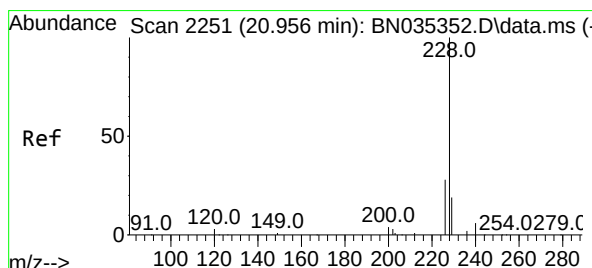
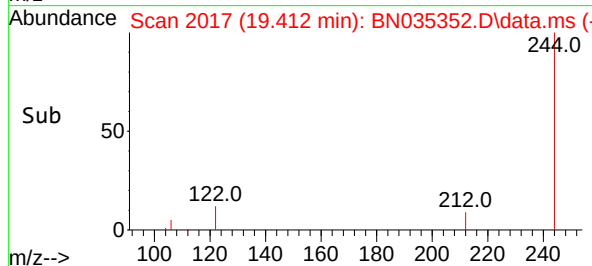
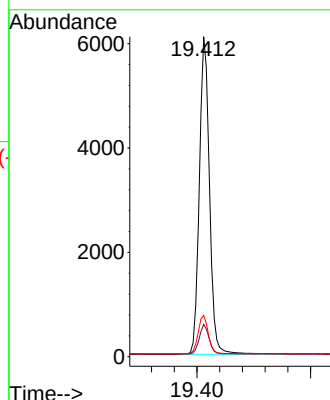
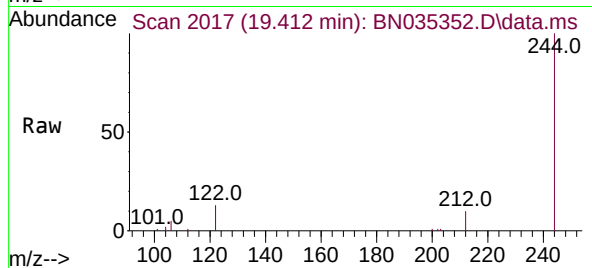
ClientSampleId :

SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5

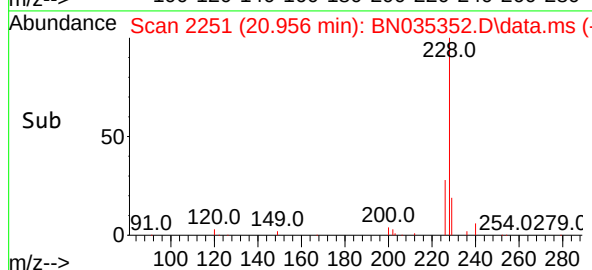
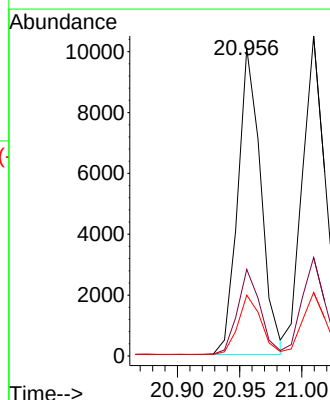
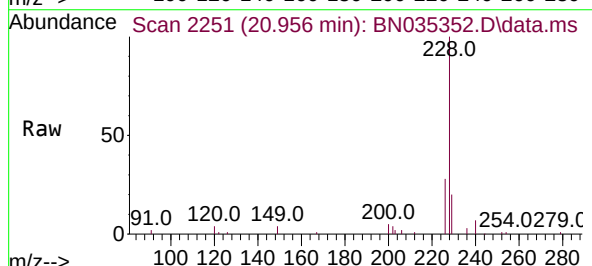
Manual Integrations
APPROVED

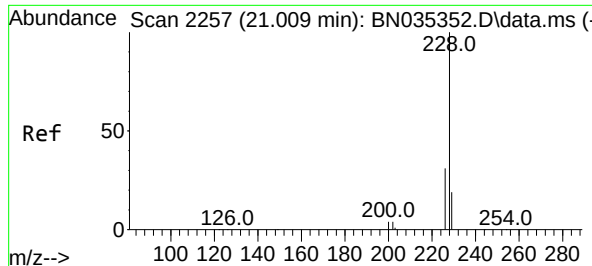
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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	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# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

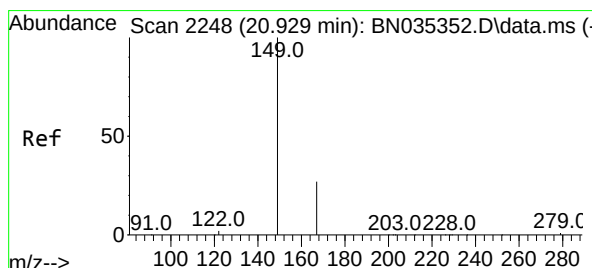
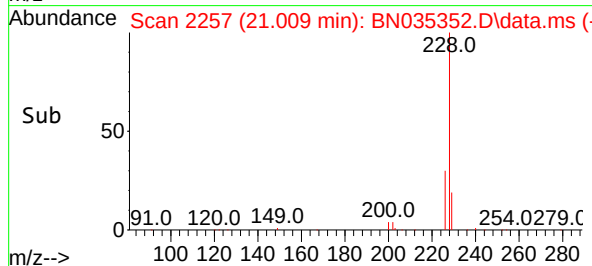
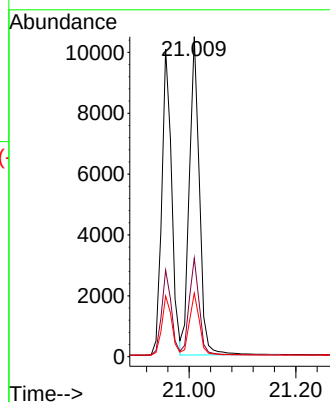
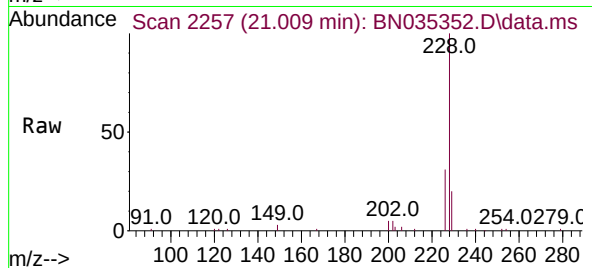
SSTDICCC0.4

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

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

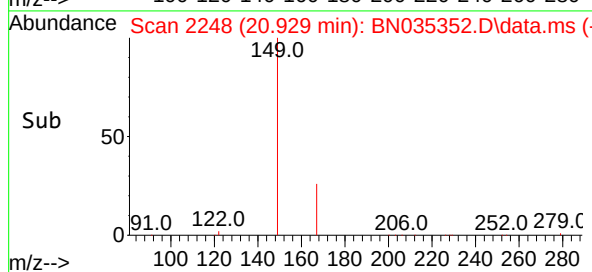
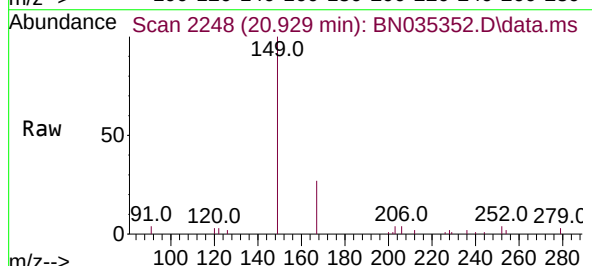
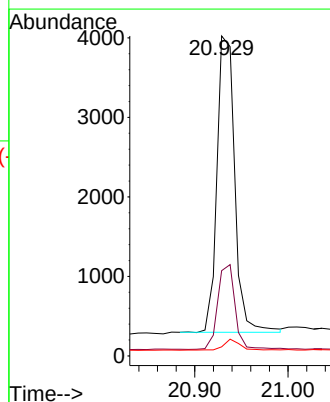
RT: 20.929 min Scan# 2248

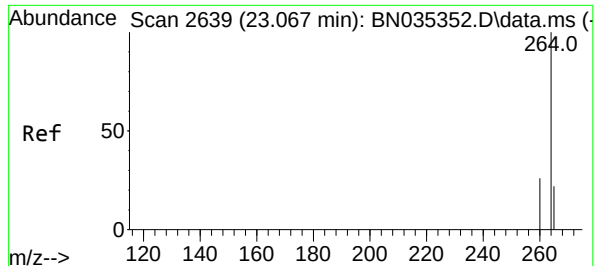
Delta R.T. 0.000 min

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# 2639

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: 1084

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

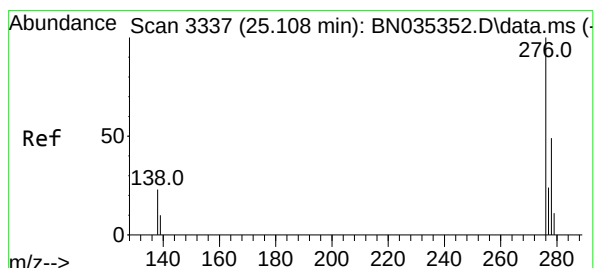
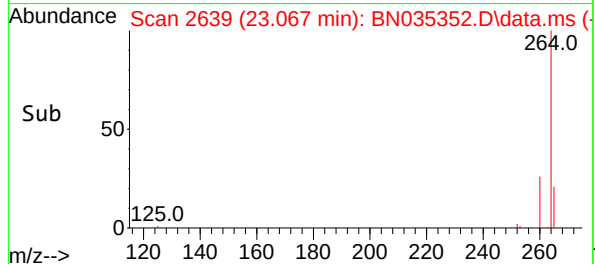
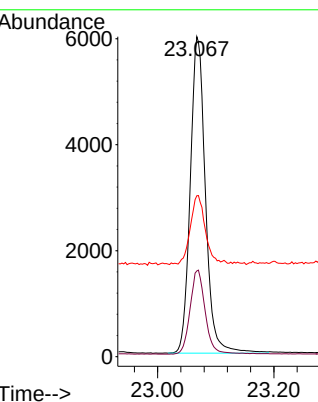
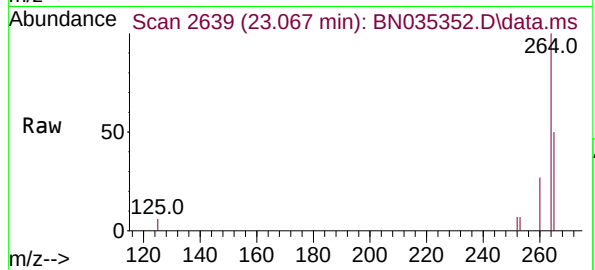
265 50.3 40.2 60.4

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

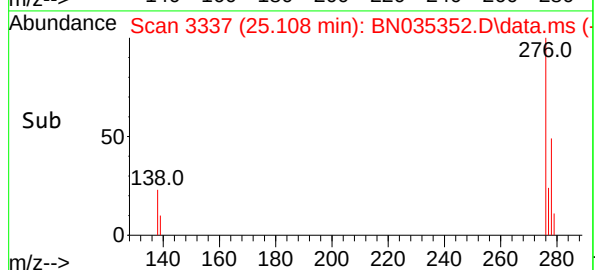
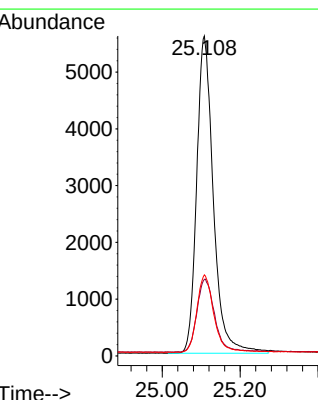
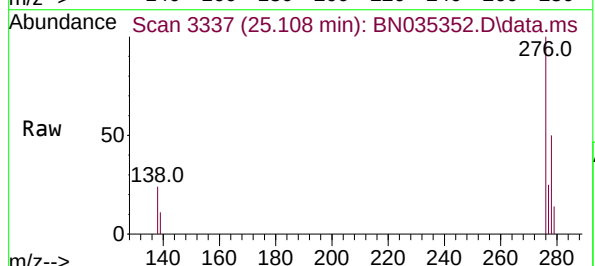
Tgt Ion:276 Resp: 16615

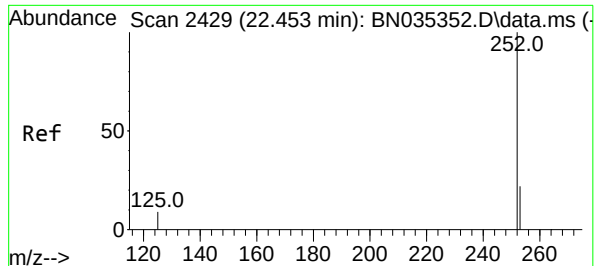
Ion Ratio Lower Upper

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# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

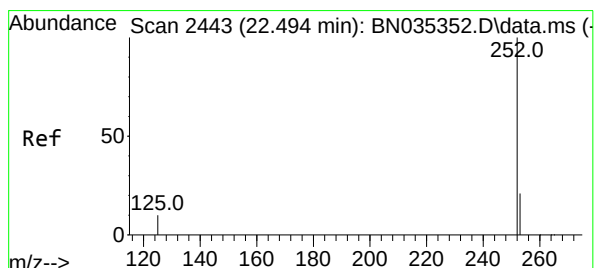
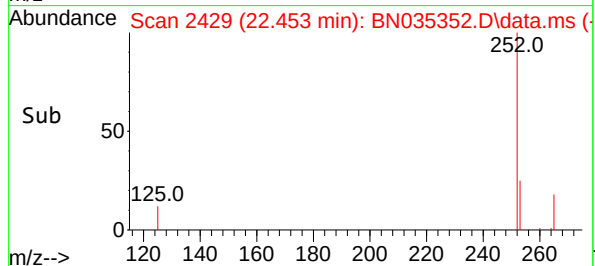
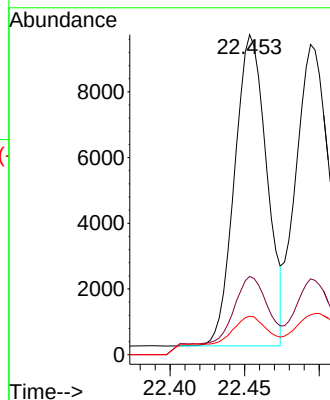
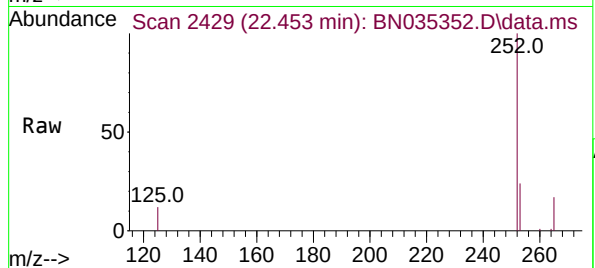
Tgt Ion:	252	Resp:	1423
Ion Ratio	Lower	Upper	
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4

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

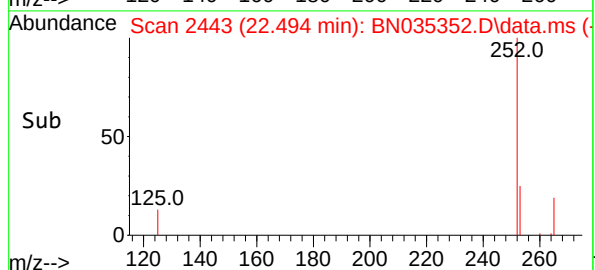
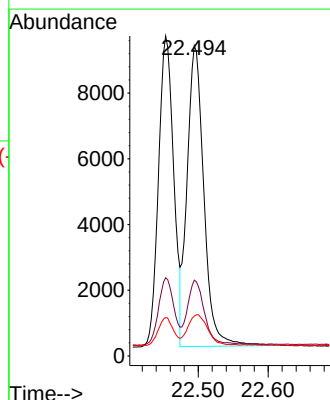
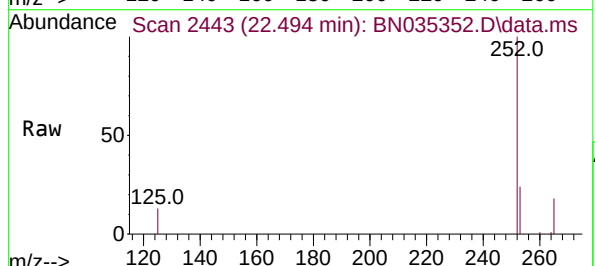
RT: 22.494 min Scan# 2443

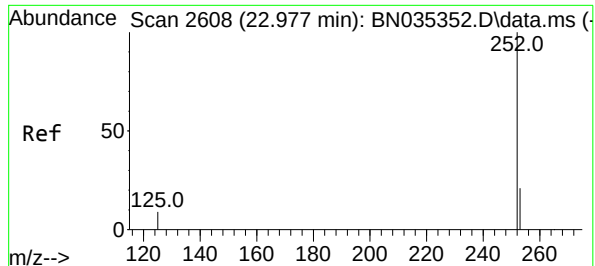
Delta R.T. 0.000 min

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# 2608

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

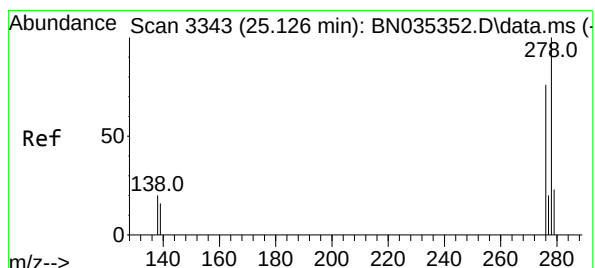
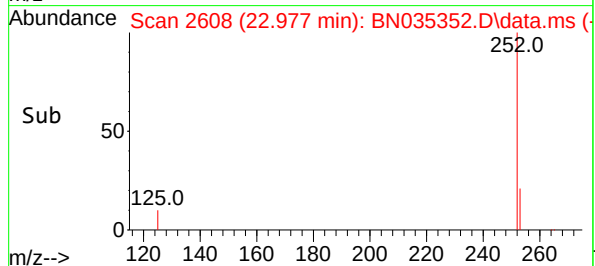
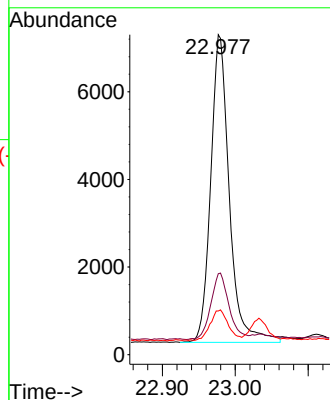
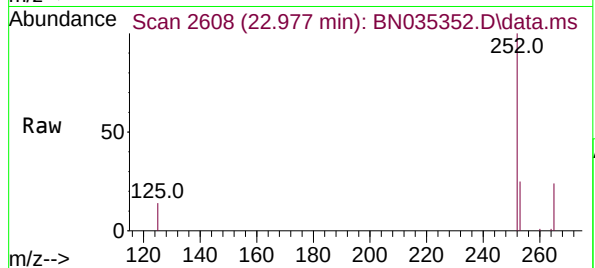
ClientSampleId :

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

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

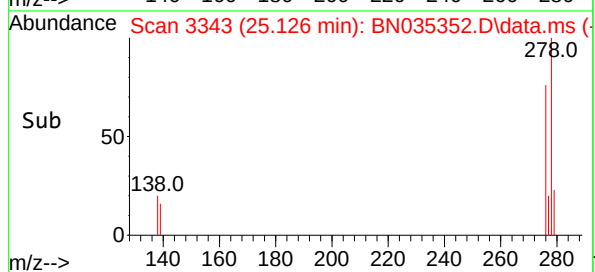
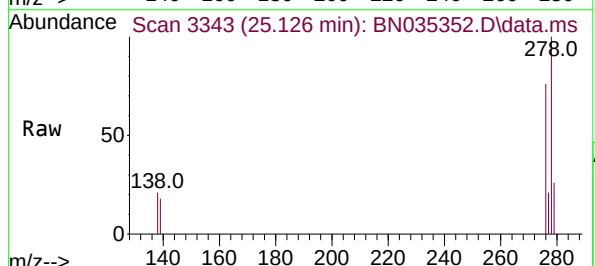
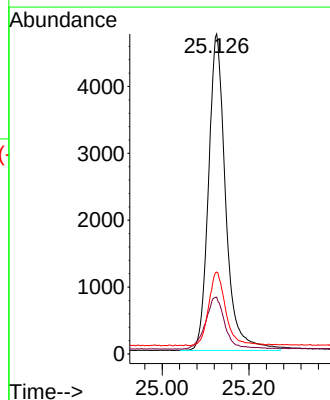
RT: 25.126 min Scan# 3343

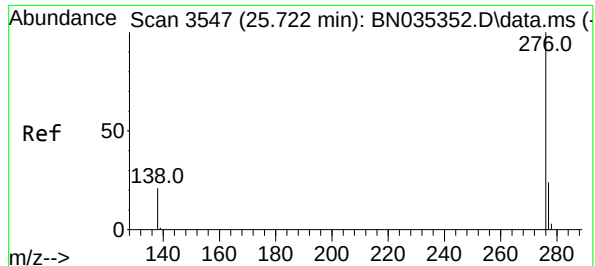
Delta R.T. 0.000 min

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# 30

Delta R.T. 0.000 min

Lab File: BN035352.D

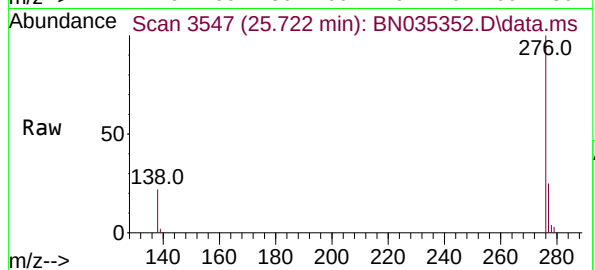
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 13529

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

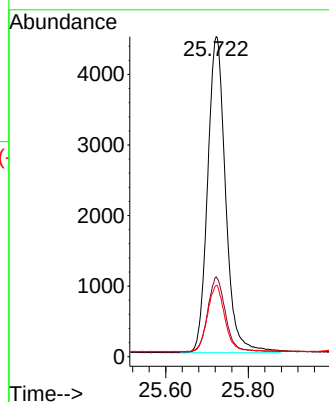
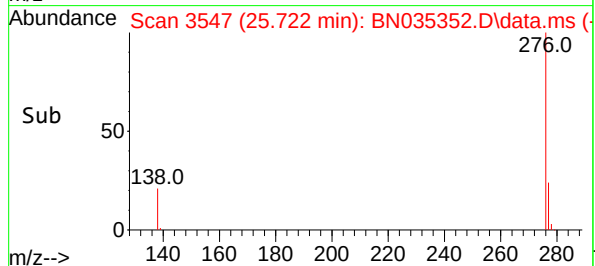
138 22.3 17.8 26.8

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 : 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

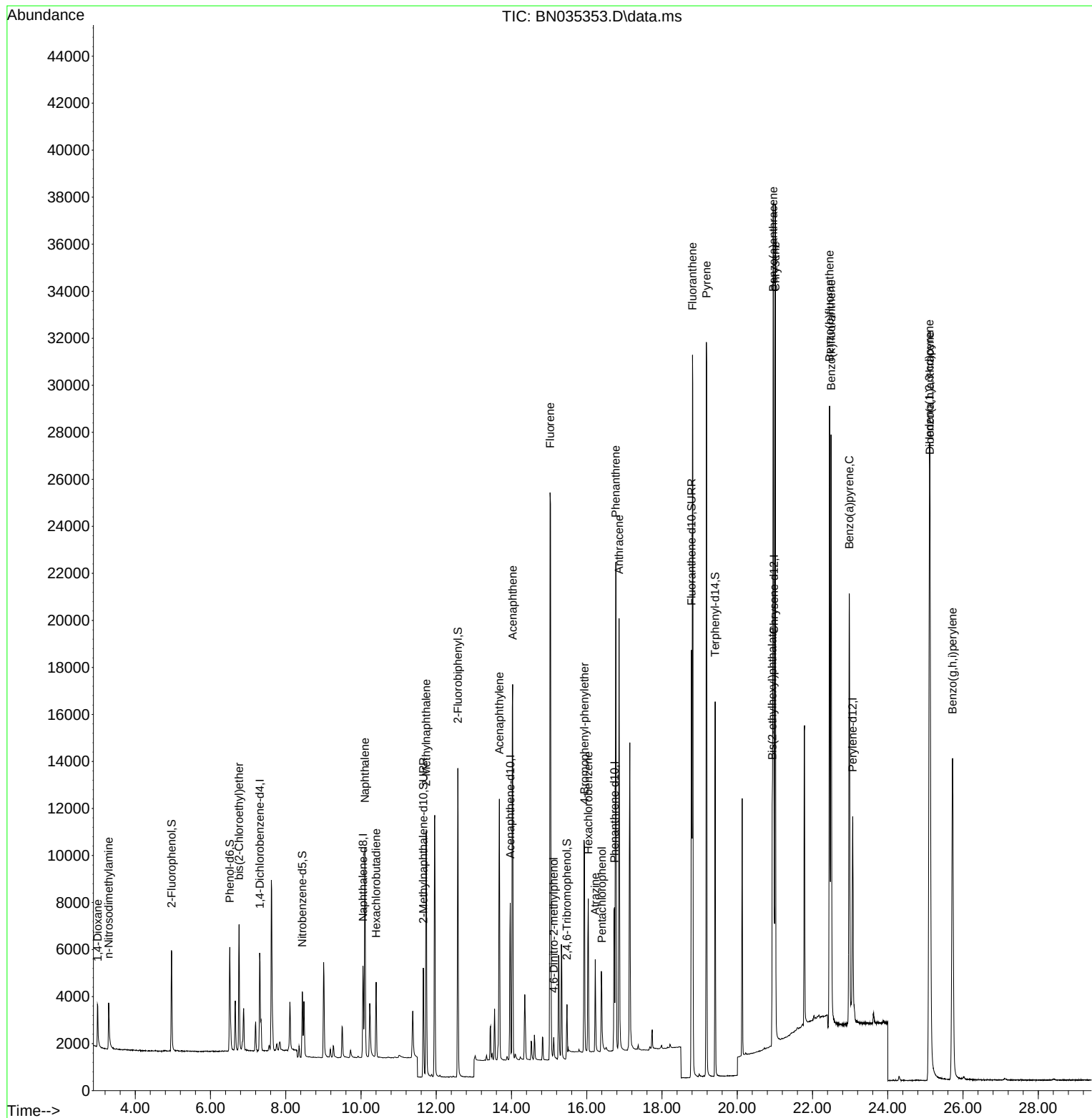
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng	0.00
29) Chrysene-d12	20.974	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						
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

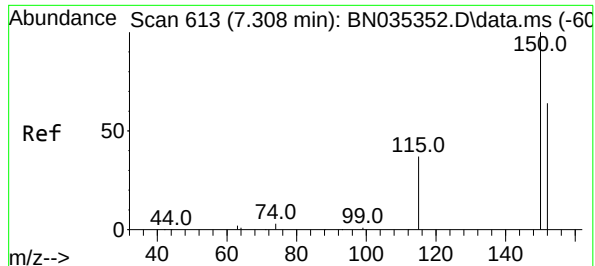
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

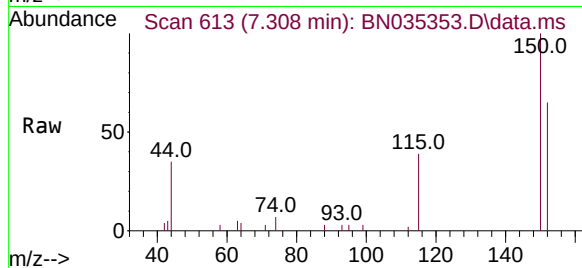
Quant Time: Nov 27 22:53:10 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



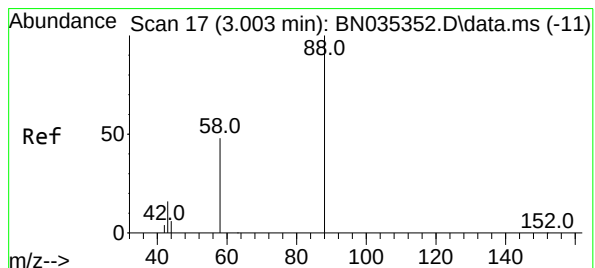
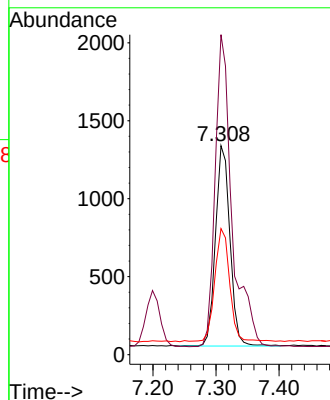
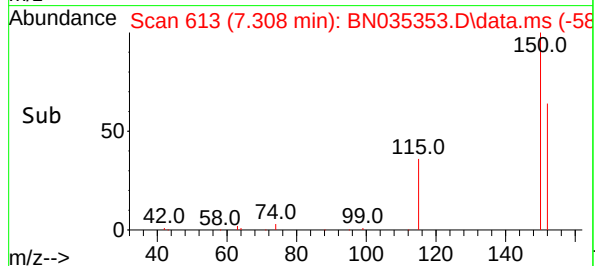


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

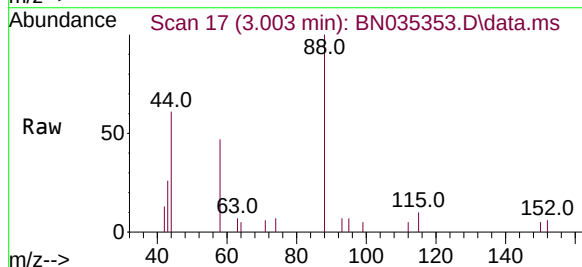
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



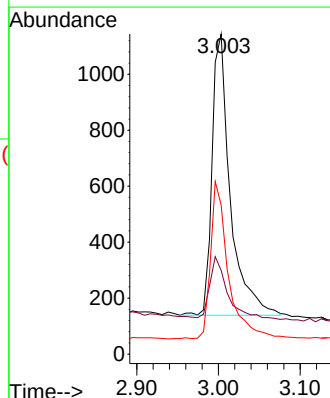
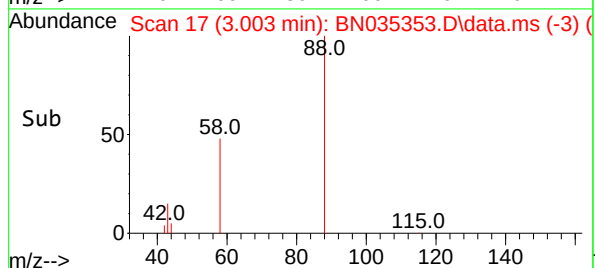
Tgt Ion:152 Resp: 2047
Ion Ratio Lower Upper
152 100
150 153.1 124.0 186.0
115 60.3 49.6 74.4

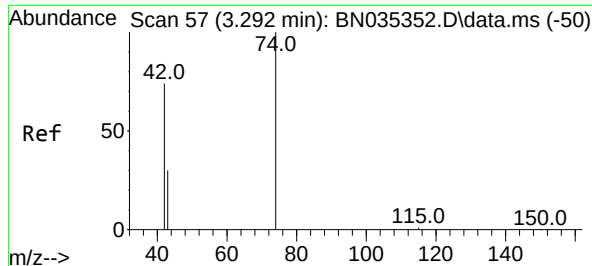


#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21



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

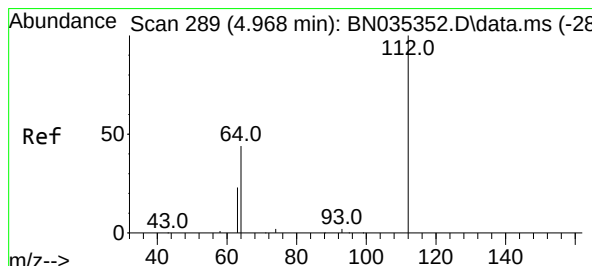
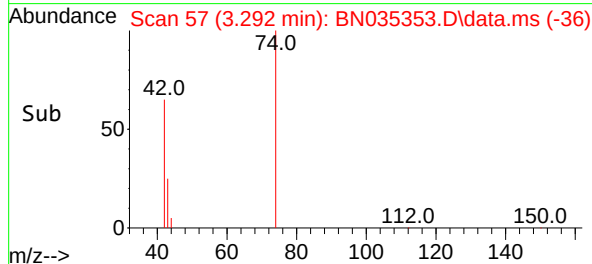
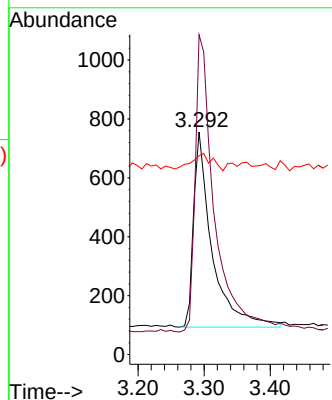
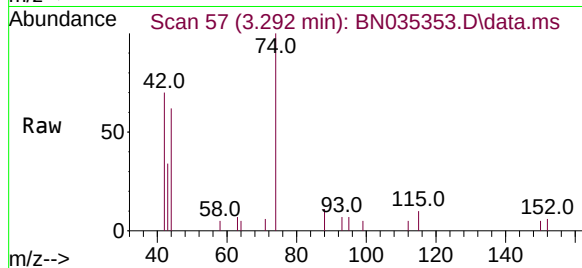




#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

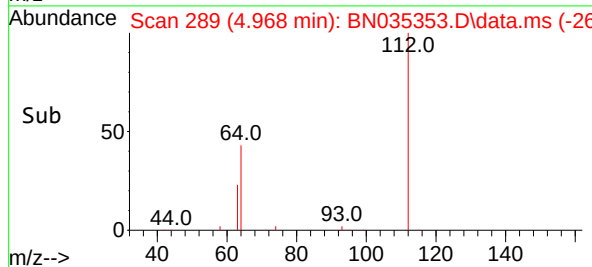
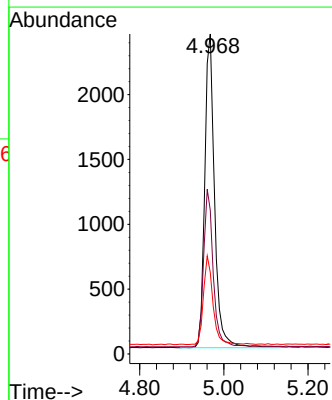
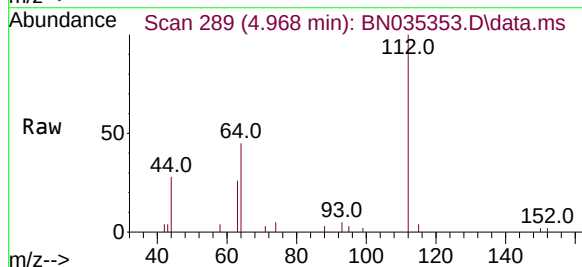
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

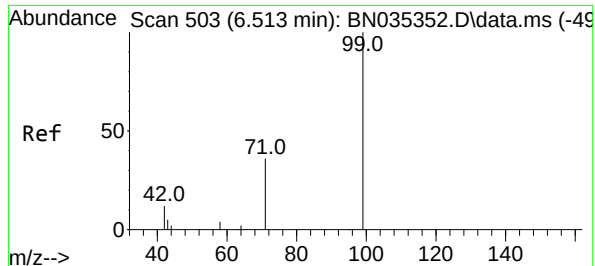
Tgt Ion: 42 Resp: 1291
Ion Ratio Lower Upper
42 100
74 158.7 124.9 187.3
44 9.8 2.2 3.4#



#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

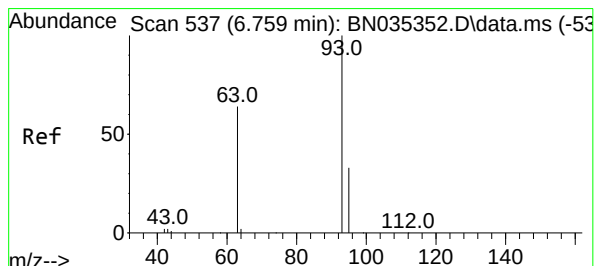
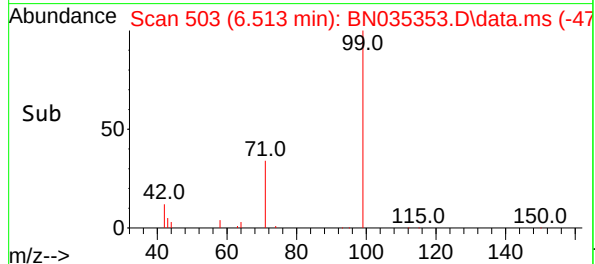
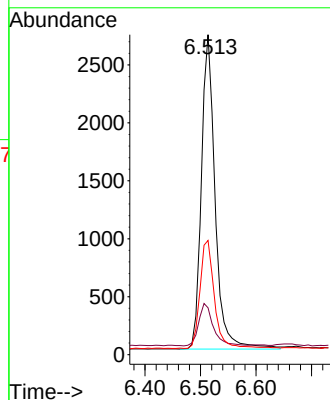
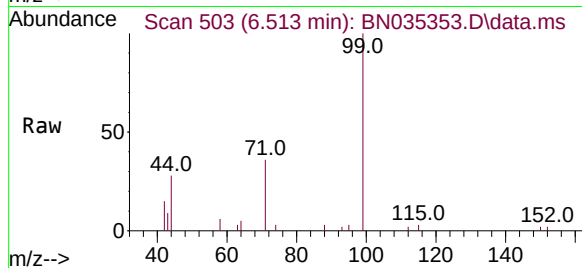




#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

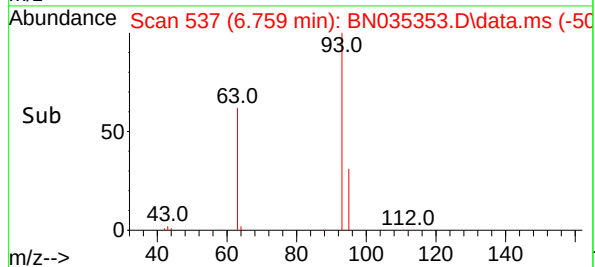
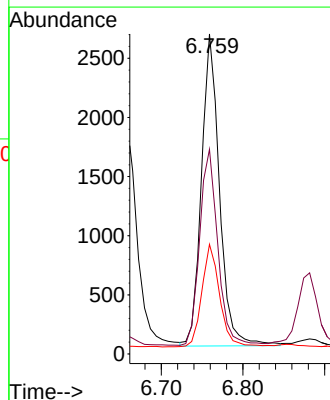
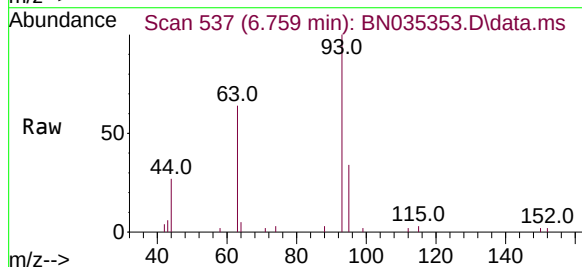
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

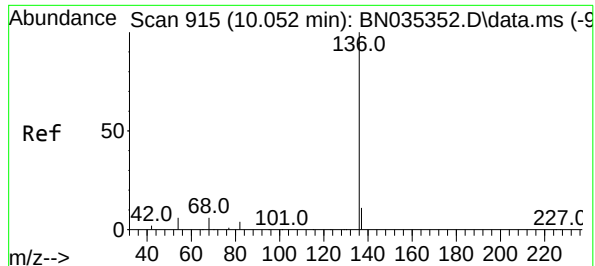
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.1	29.3	43.9



#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	Ratio	Lower	Upper
93	100		
63	62.8	50.4	75.6
95	32.4	25.7	38.5

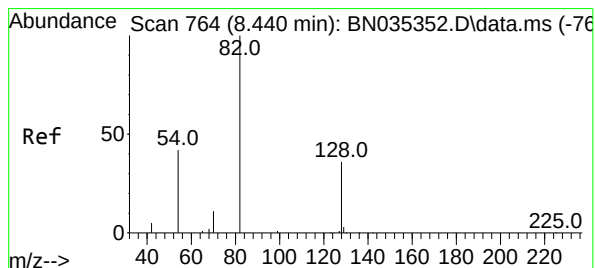
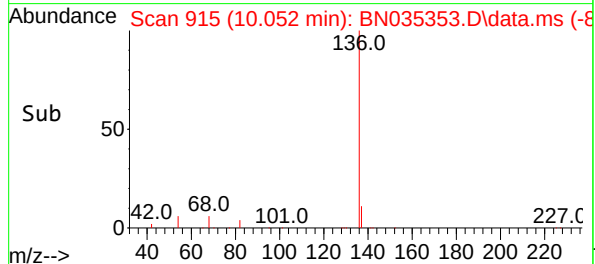
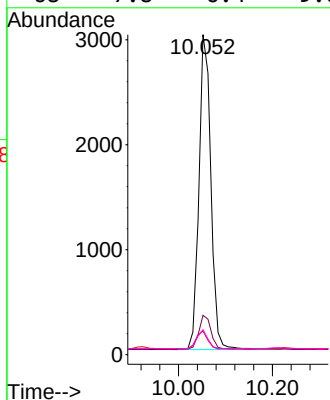
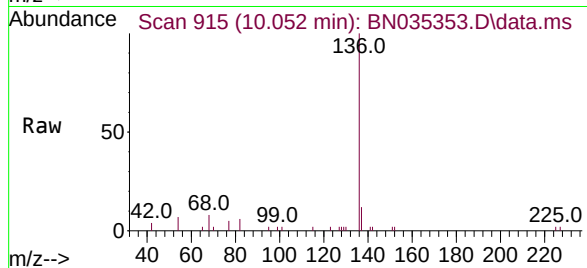




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

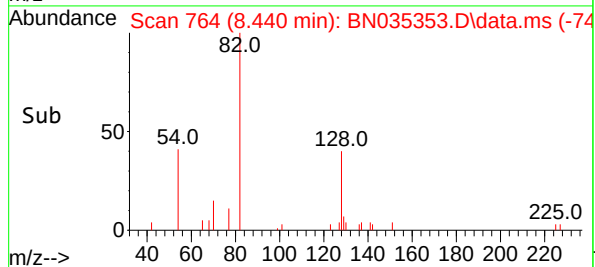
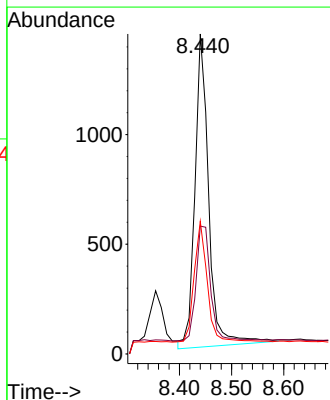
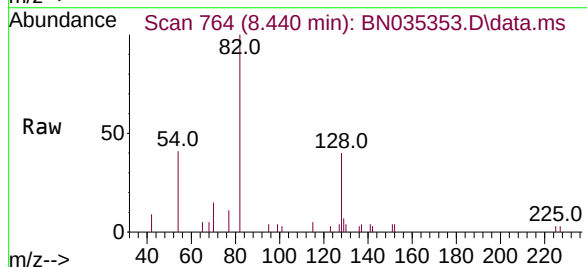
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

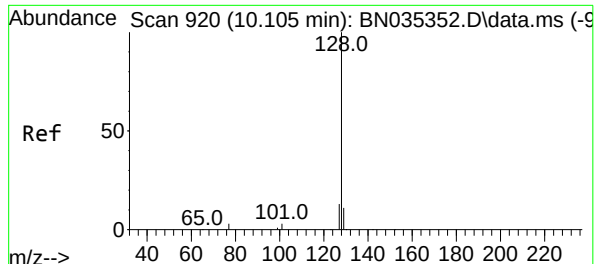
Tgt Ion:	136	Resp:	5308
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.8	6.4	9.6



#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

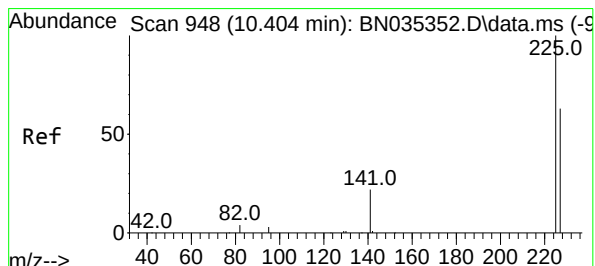
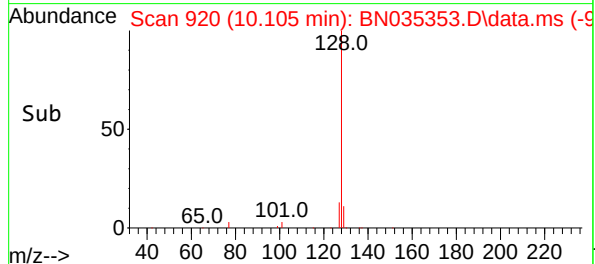
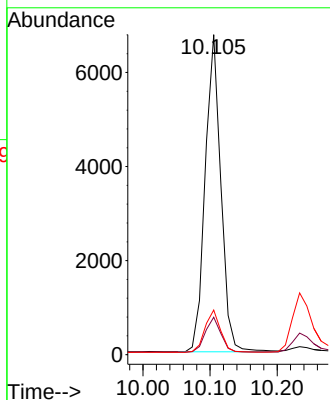
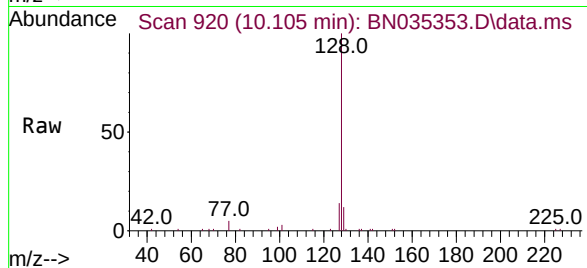


#9
Naphthalene

Concen: 0.790 ng
RT: 10.105 min Scan# 912
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

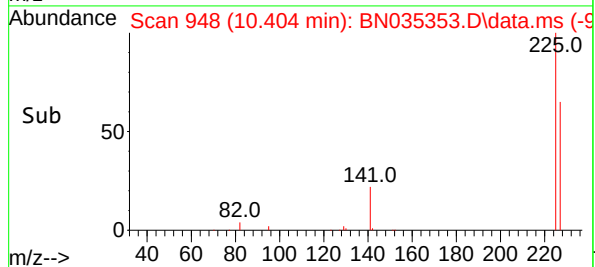
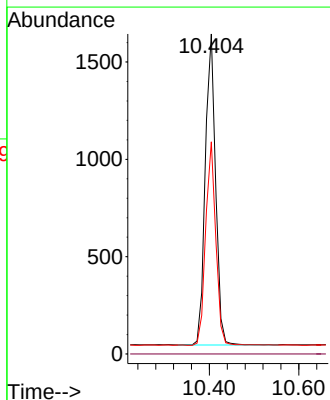
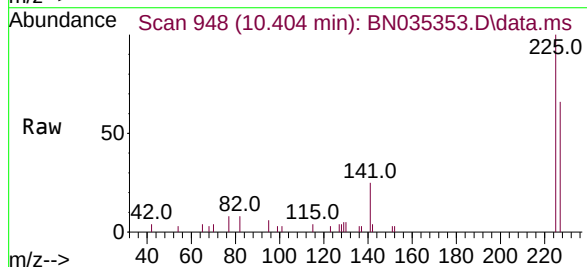


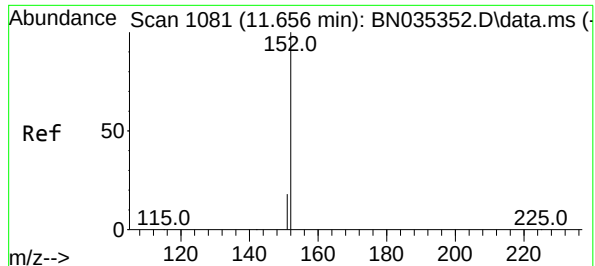
#10

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

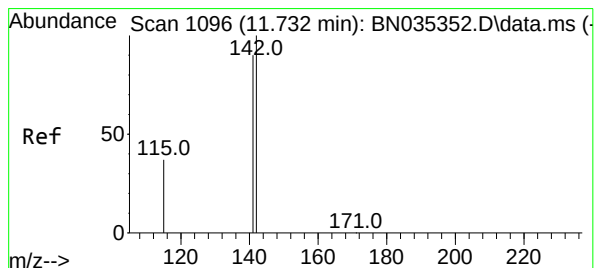
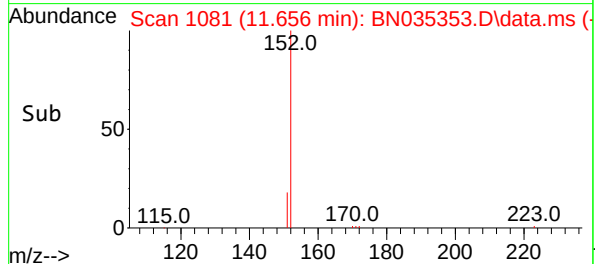
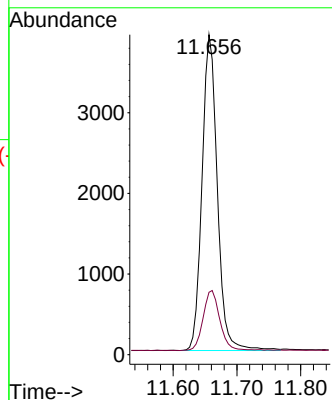
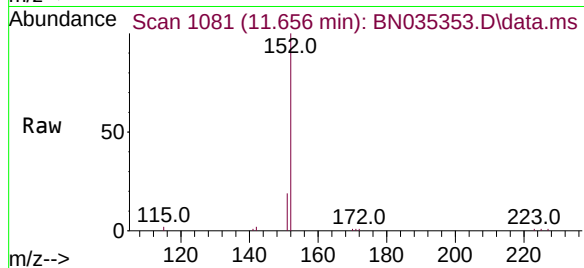




#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

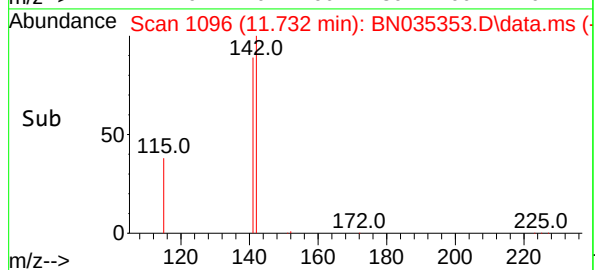
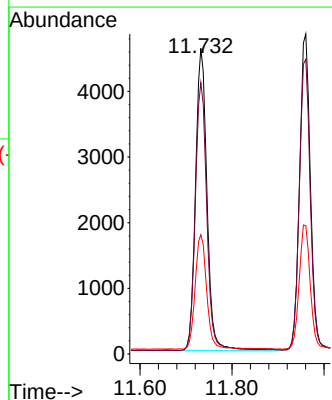
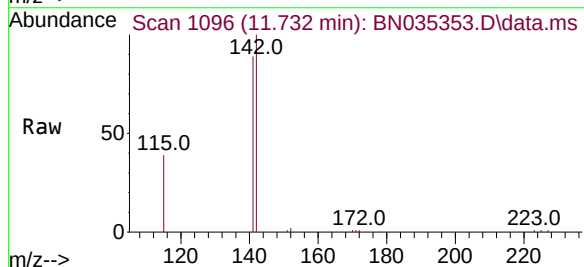
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

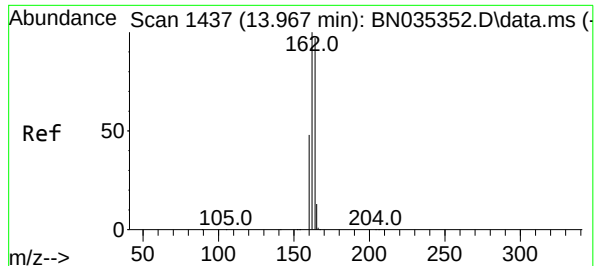
Tgt Ion:152 Resp: 6530
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

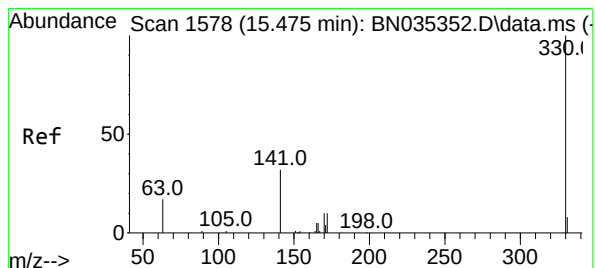
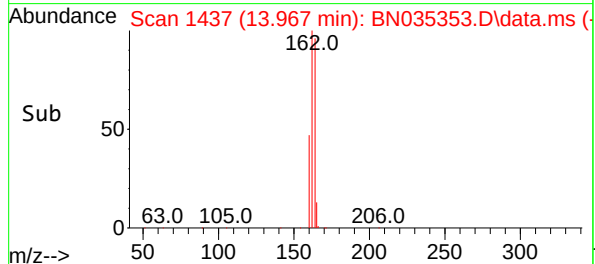
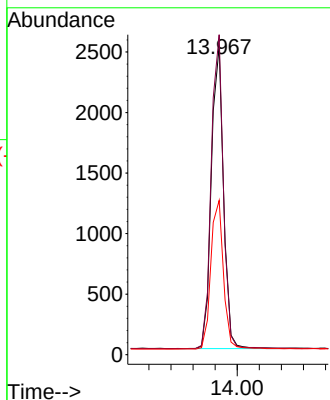
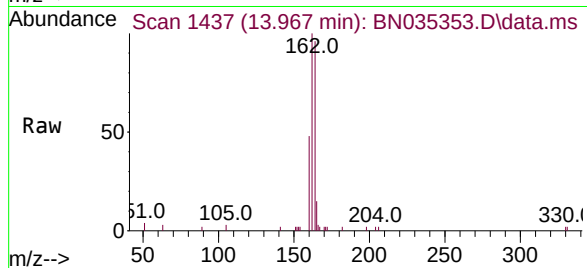




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

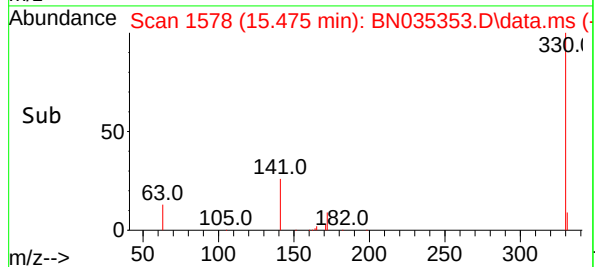
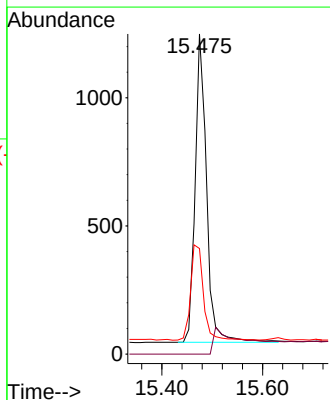
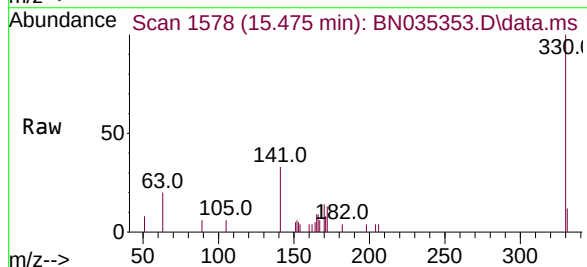
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

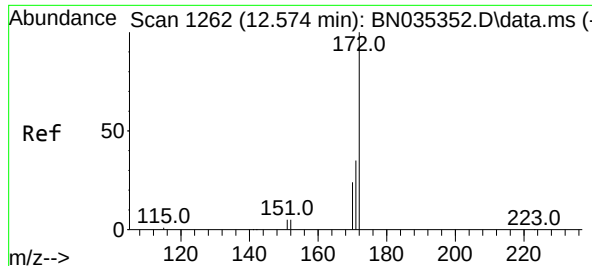
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.1	40.1	60.1



#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	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# 11

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

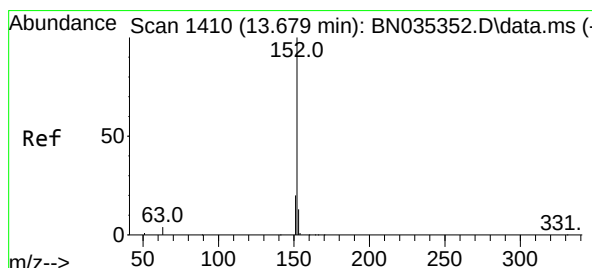
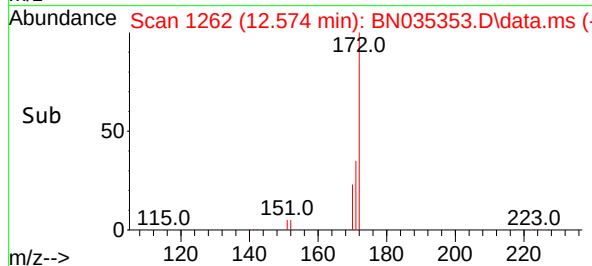
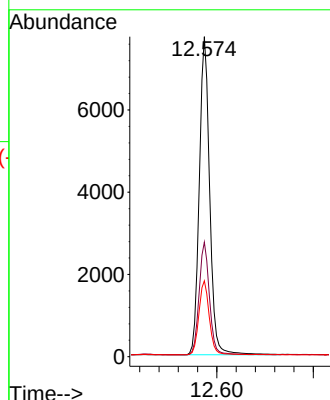
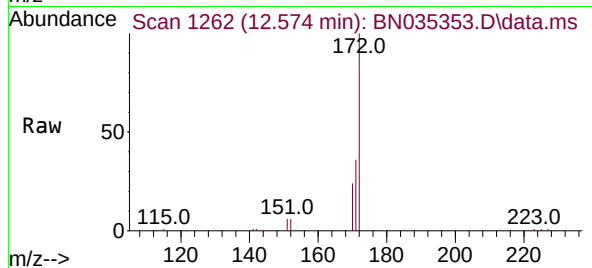
Tgt Ion:172 Resp: 11528

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

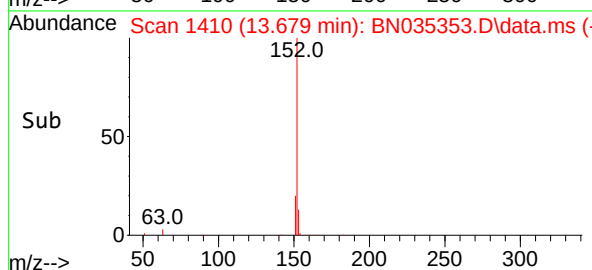
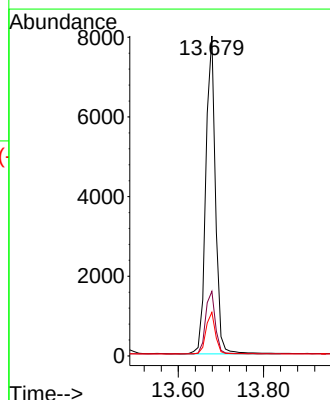
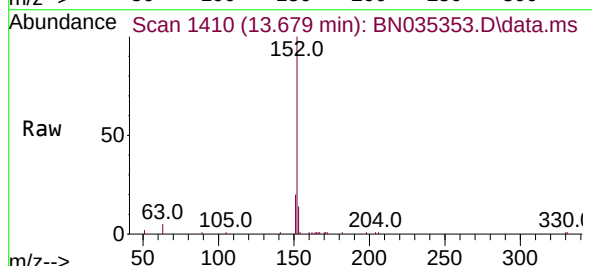
Tgt Ion:152 Resp: 12523

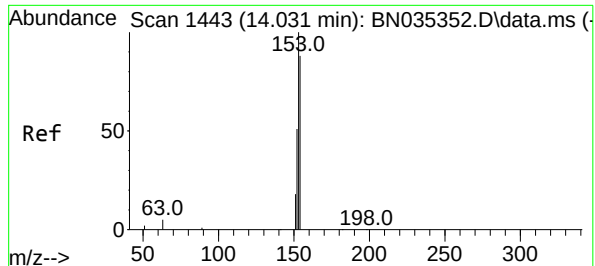
Ion Ratio Lower Upper

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# 1443

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

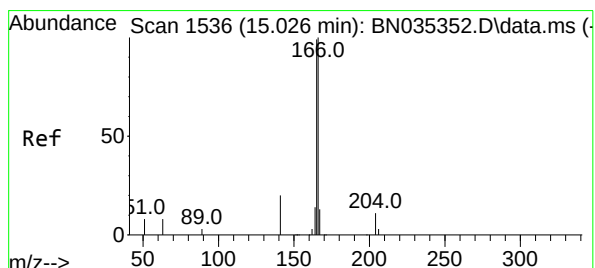
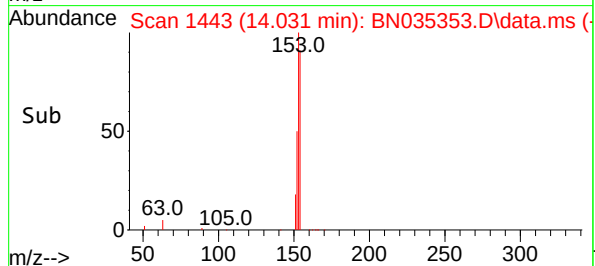
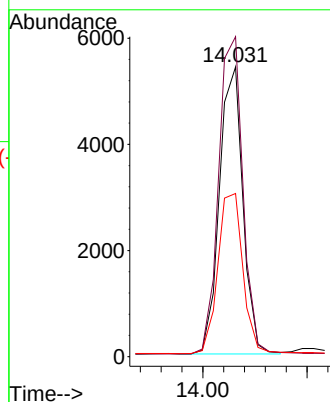
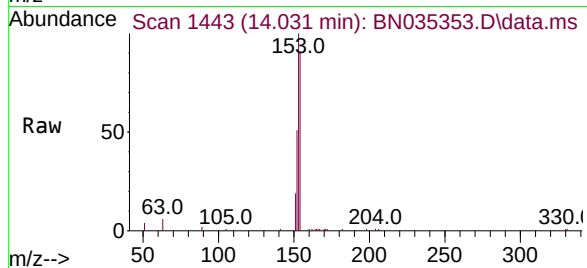
Tgt Ion:154 Resp: 8470

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

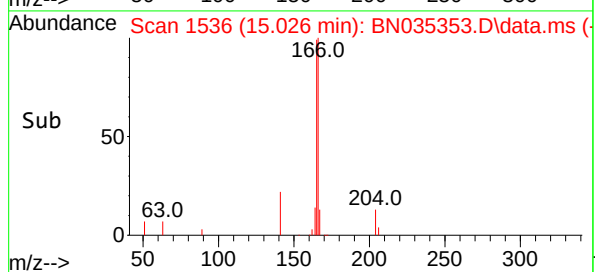
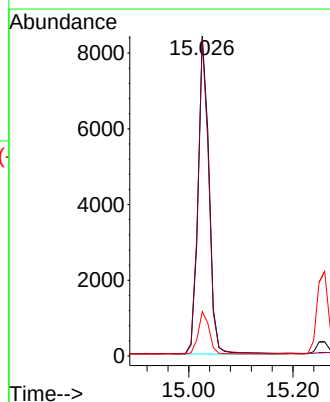
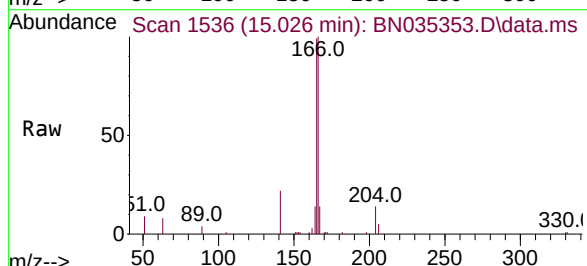
Tgt Ion:166 Resp: 12232

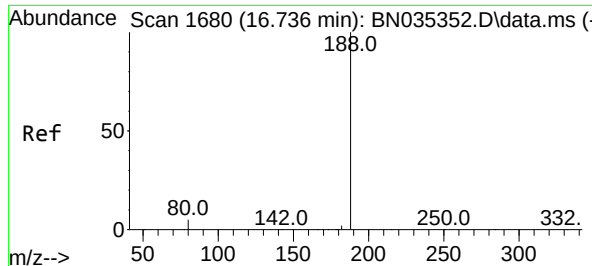
Ion Ratio Lower Upper

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

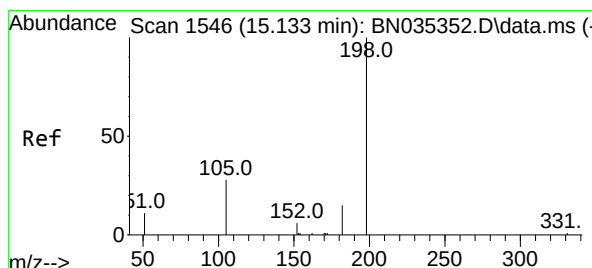
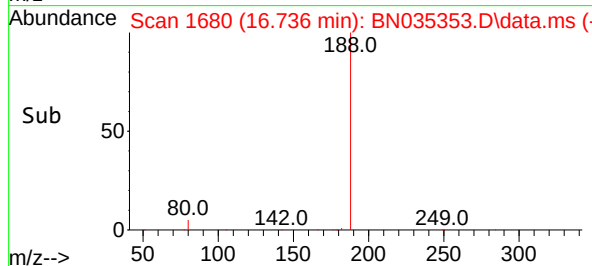
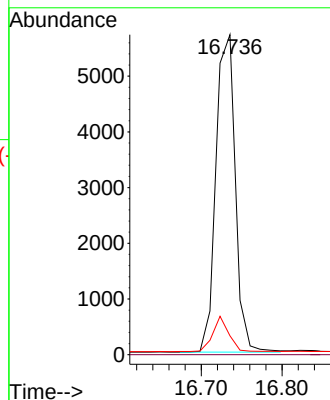
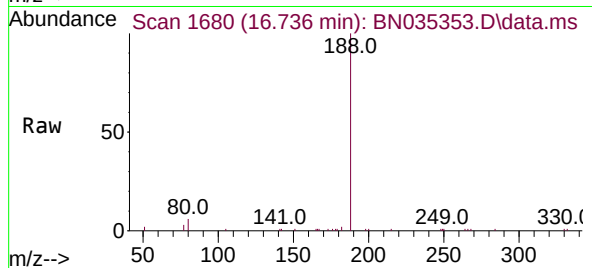
Tgt Ion:188 Resp: 9525

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

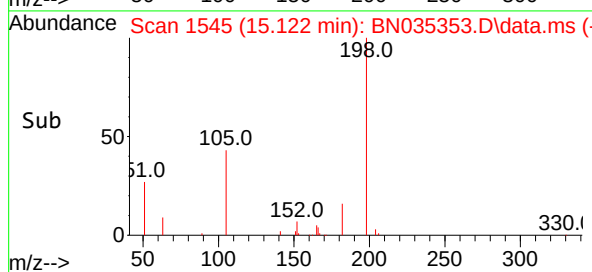
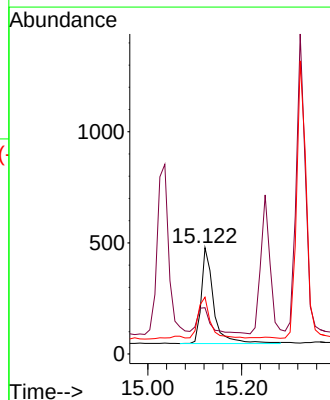
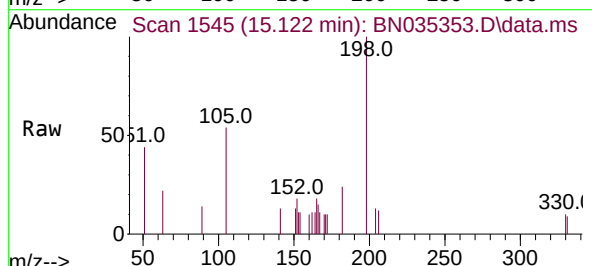
Tgt Ion:198 Resp: 784

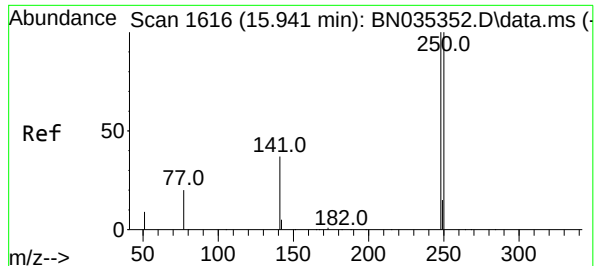
Ion Ratio Lower Upper

198 100

51 43.5 46.5 69.7#

105 53.6 45.3 67.9

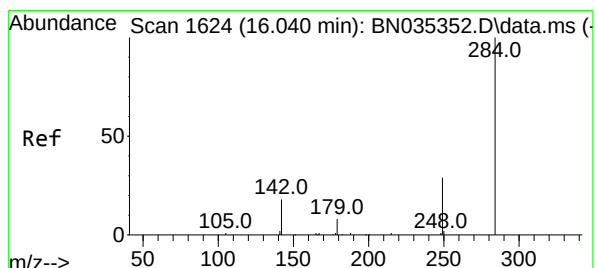
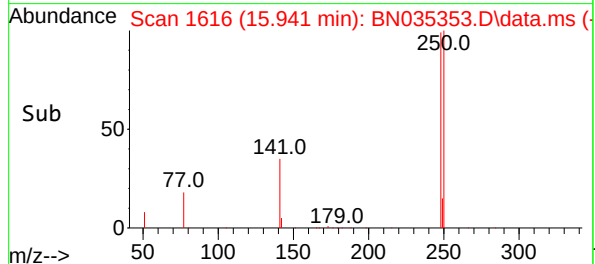
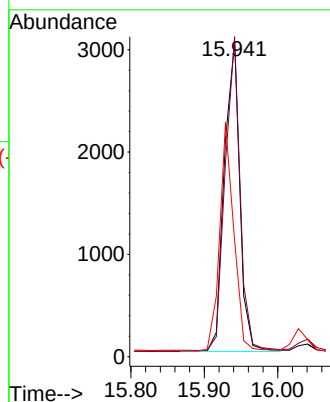
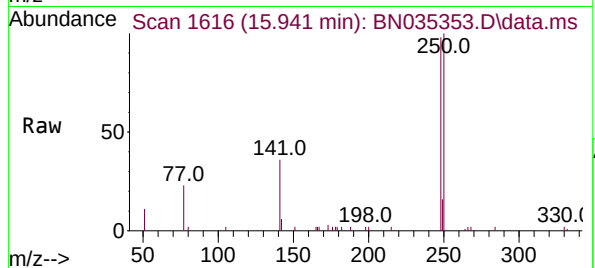




#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

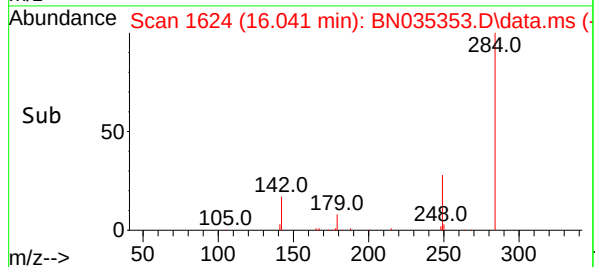
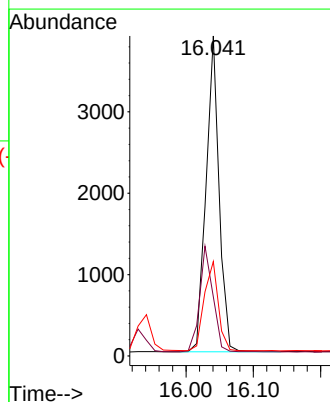
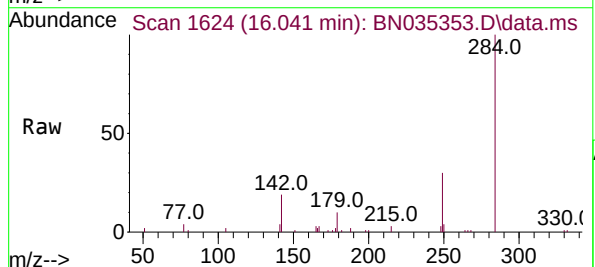
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

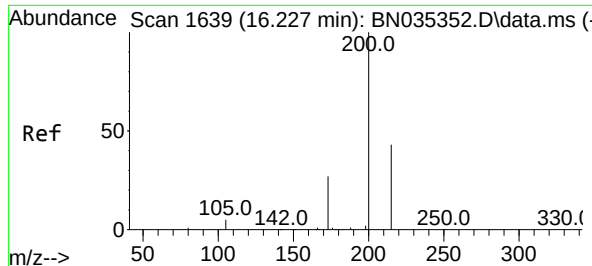
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	36.9	31.5	47.3



#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	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.3	24.6	36.8

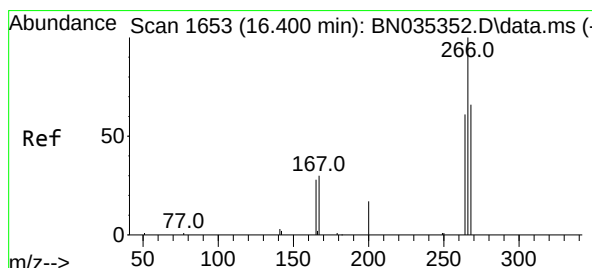
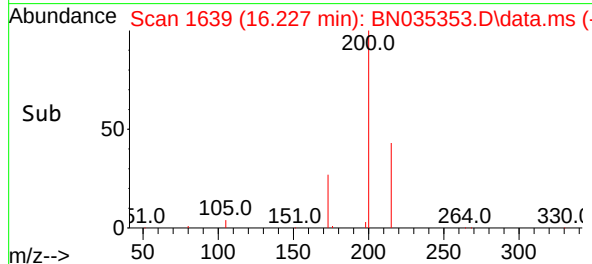
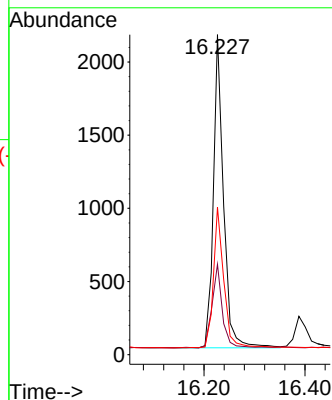
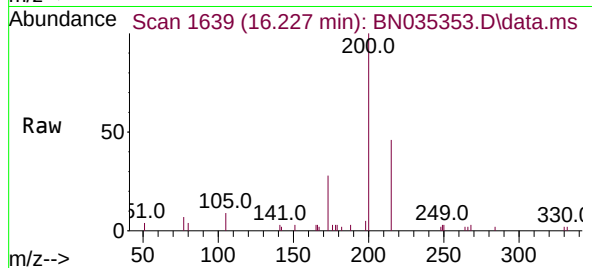




#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

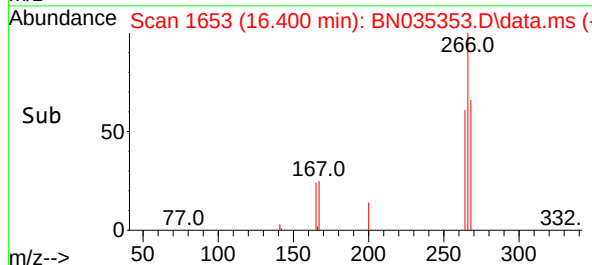
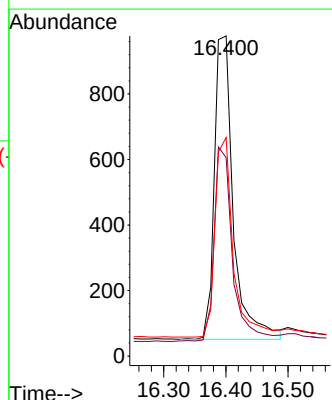
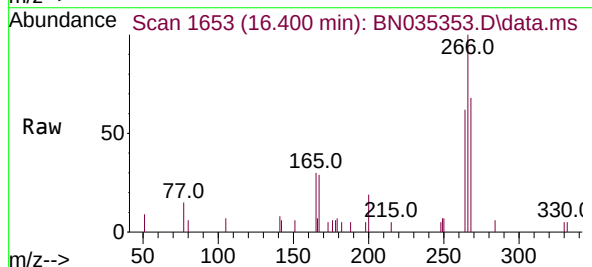
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

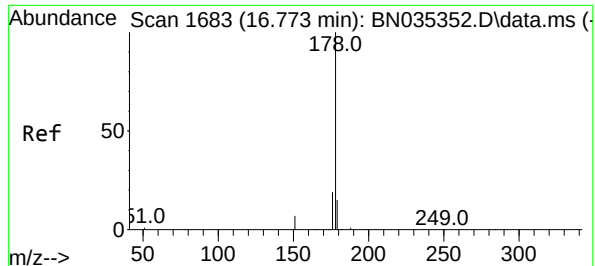
Tgt Ion:200 Resp: 2978
Ion Ratio Lower Upper
200 100
173 28.3 24.1 36.1
215 46.1 36.9 55.3



#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# 1683

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

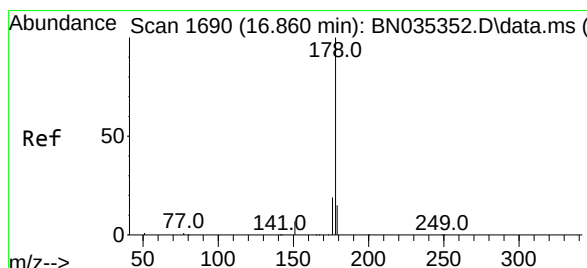
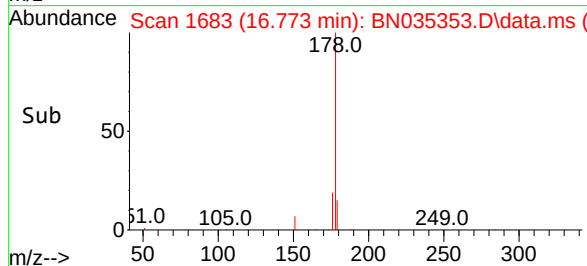
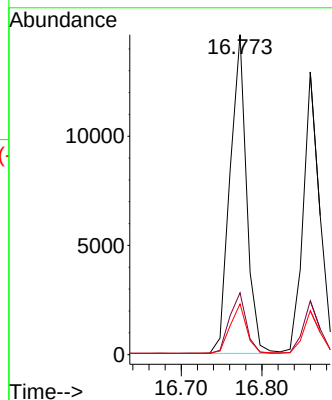
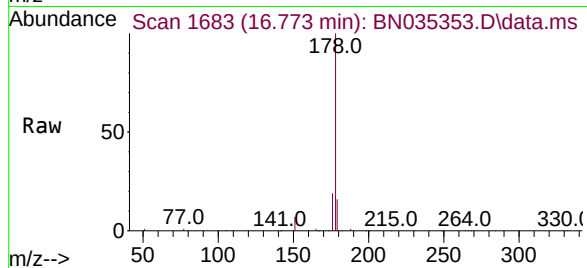
Tgt Ion:178 Resp: 20803

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

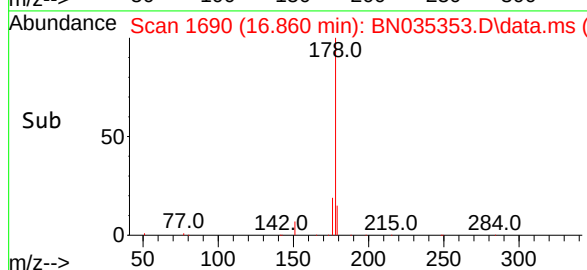
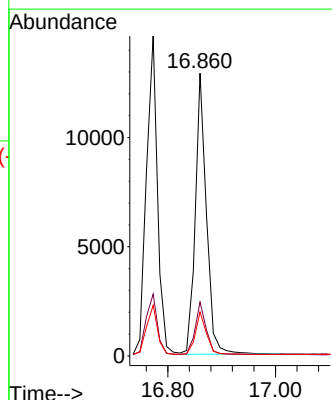
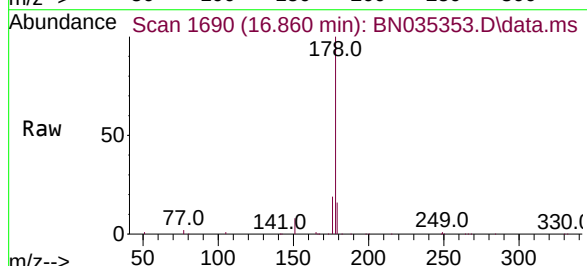
Tgt Ion:178 Resp: 18528

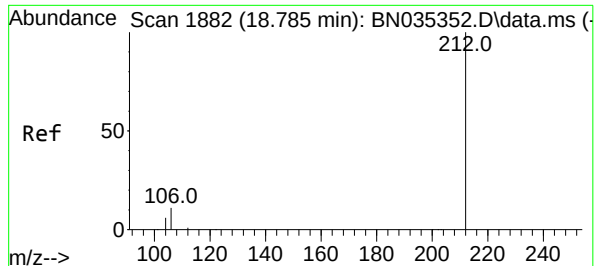
Ion Ratio Lower Upper

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# 1882

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

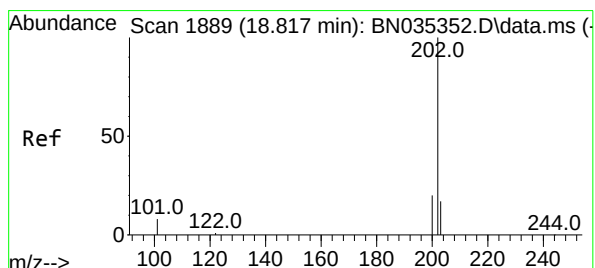
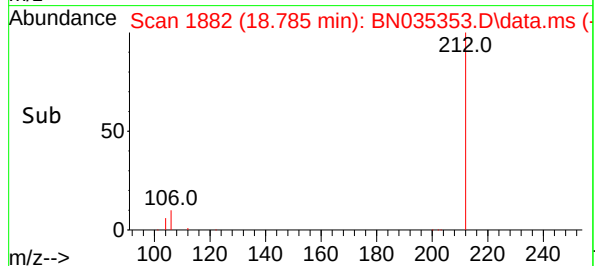
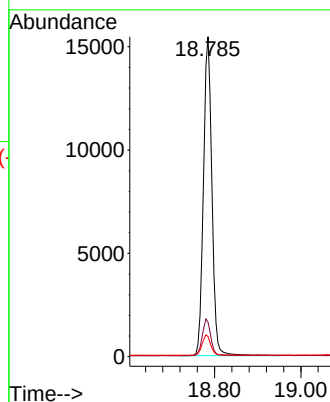
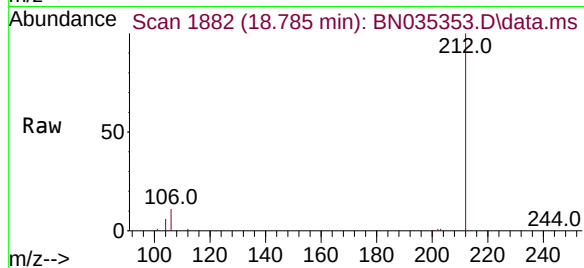
Tgt Ion:212 Resp: 21050

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

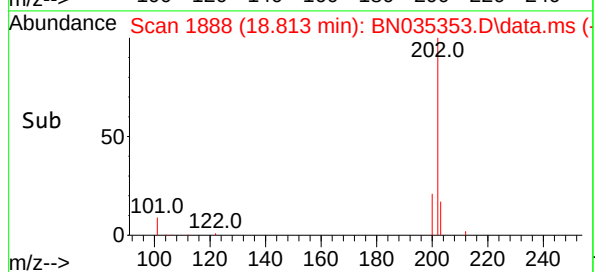
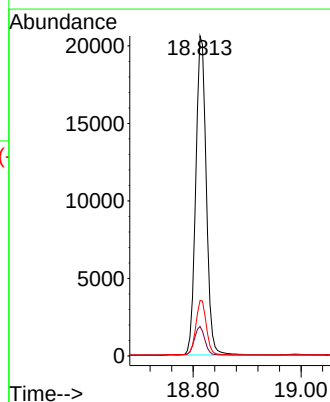
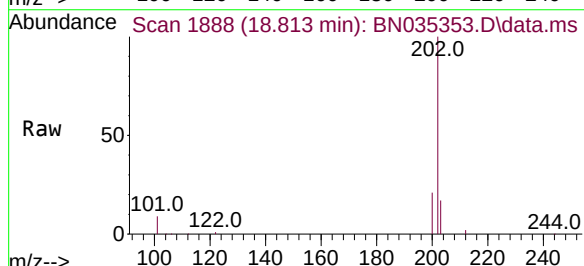
Tgt Ion:202 Resp: 27743

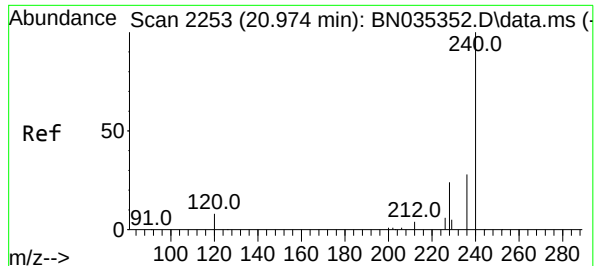
Ion Ratio Lower Upper

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# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

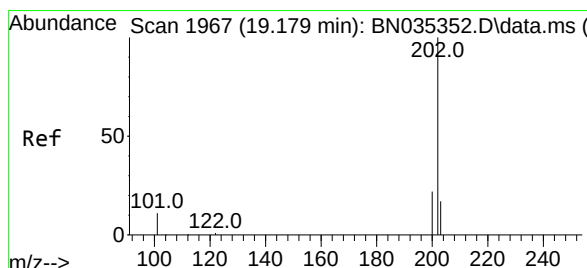
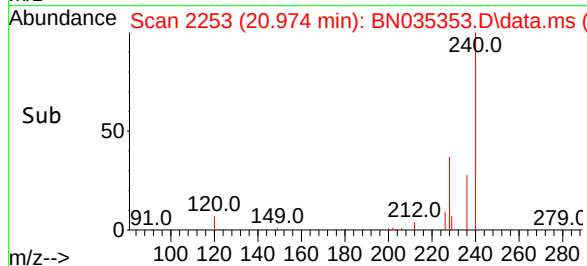
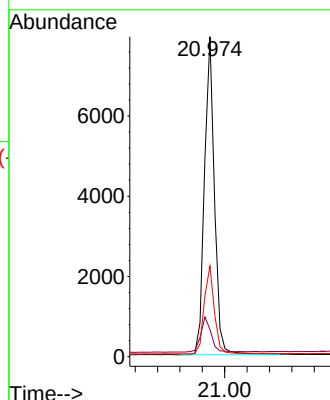
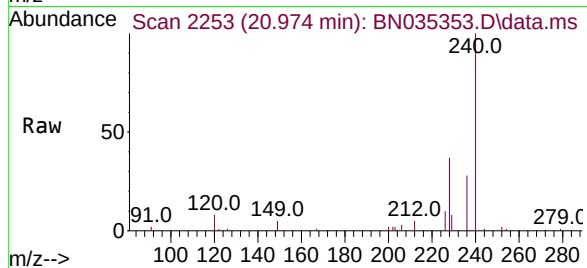
Tgt Ion:240 Resp: 9837

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

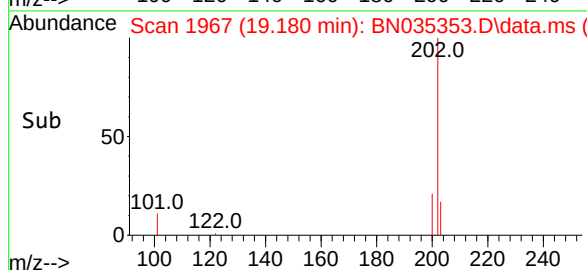
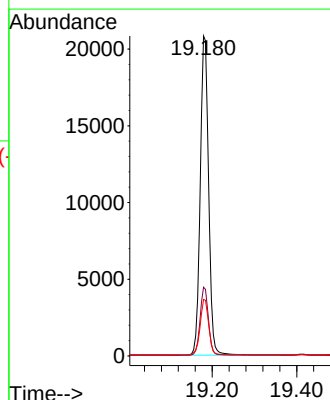
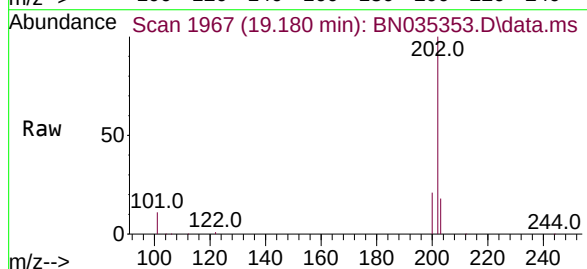
Tgt Ion:202 Resp: 28384

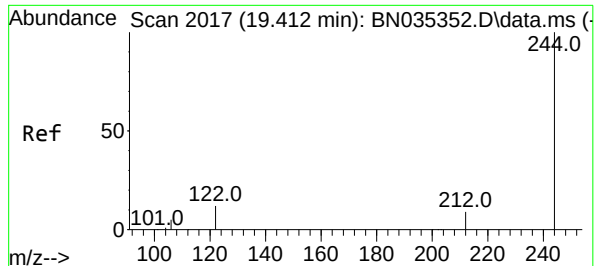
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.8 14.3 21.5

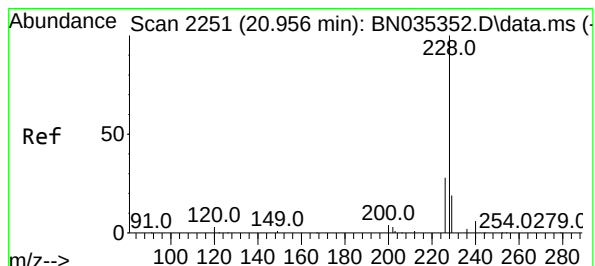
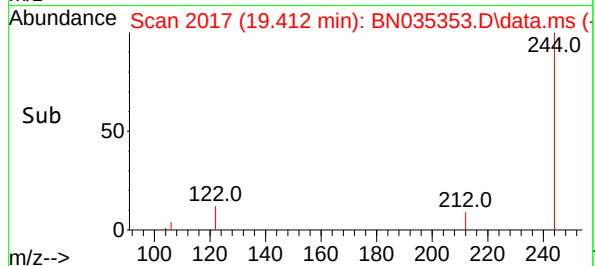
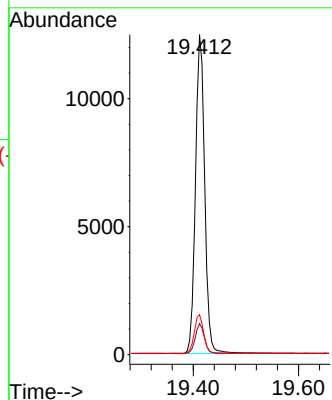
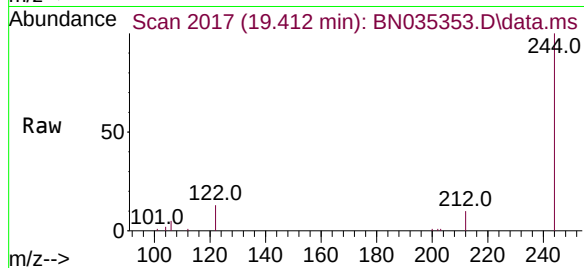




#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

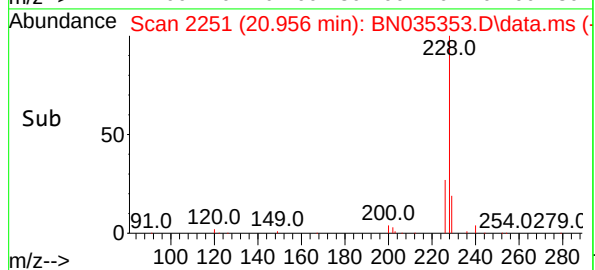
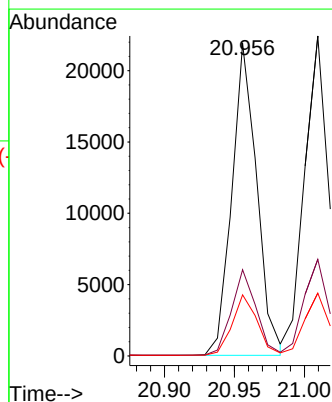
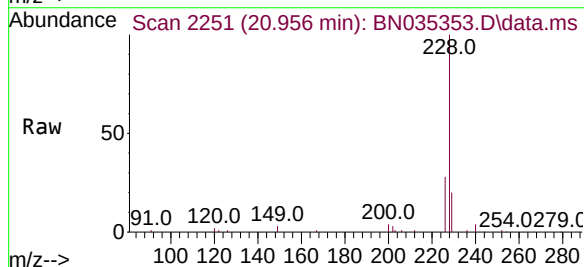
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

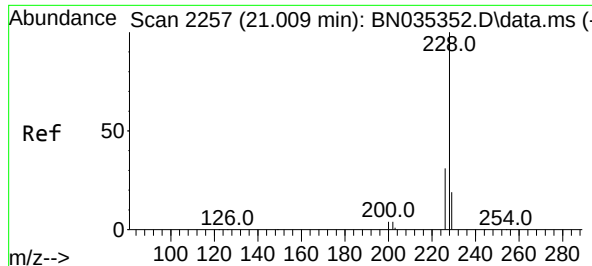
Tgt Ion:244 Resp: 15171
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 12.5 10.3 15.5



#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# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

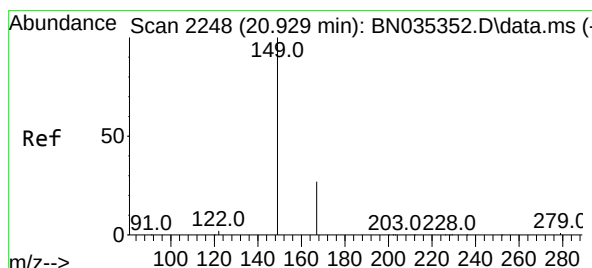
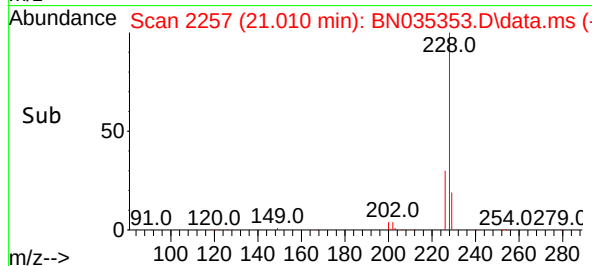
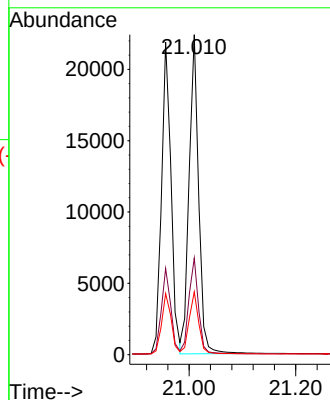
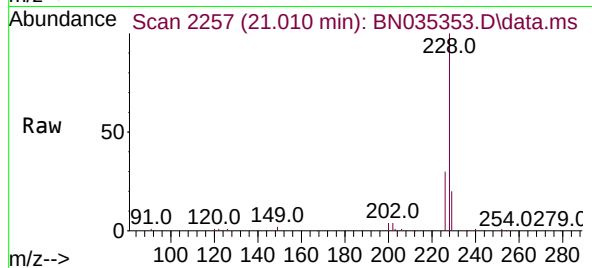
Tgt Ion:228 Resp: 27838

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

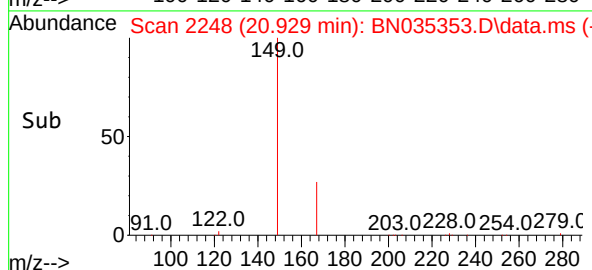
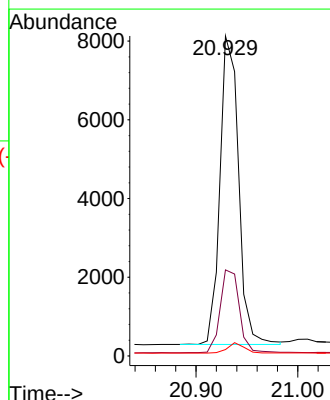
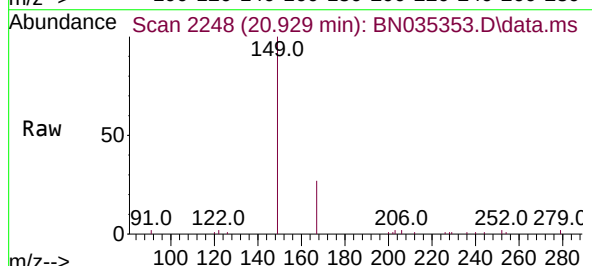
Tgt Ion:149 Resp: 9941

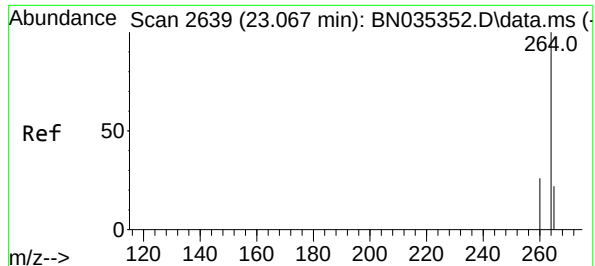
Ion Ratio Lower Upper

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 :

SSTDIC0.8

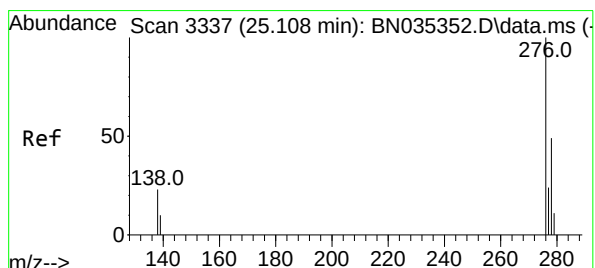
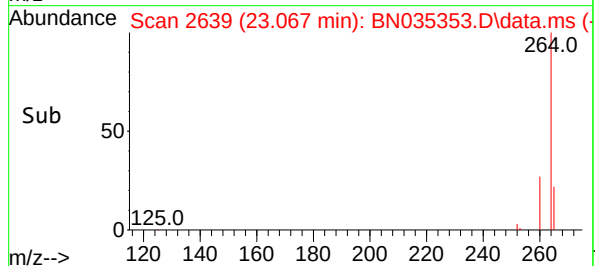
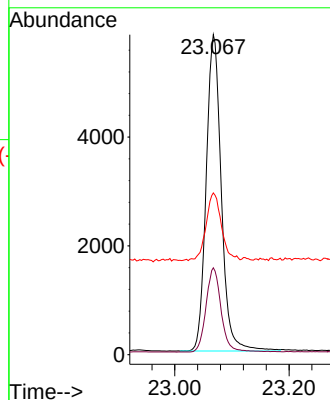
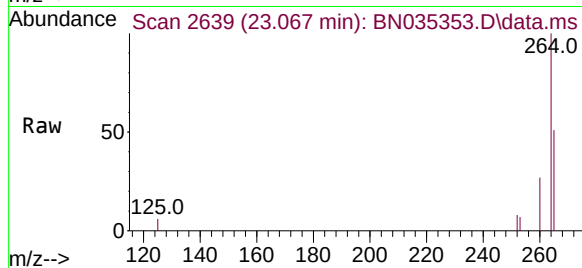
Tgt Ion:264 Resp: 10698

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

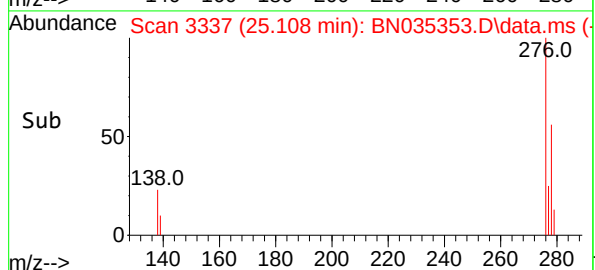
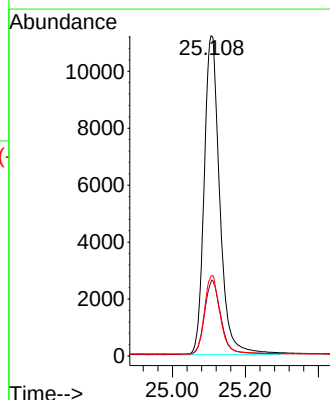
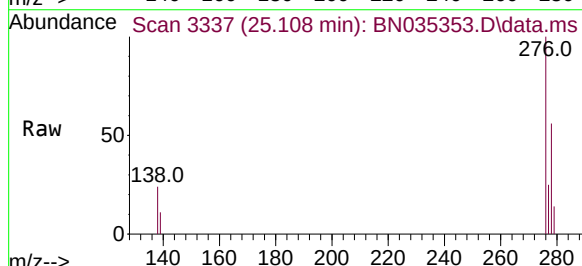
Tgt Ion:276 Resp: 33248

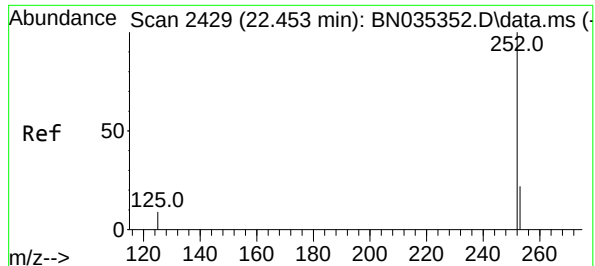
Ion Ratio Lower Upper

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# 2429

Delta R.T. 0.000 min

Lab File: BN035353.D

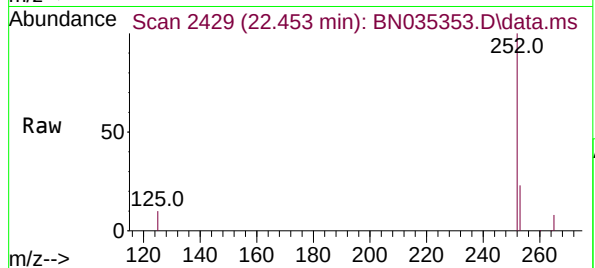
Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



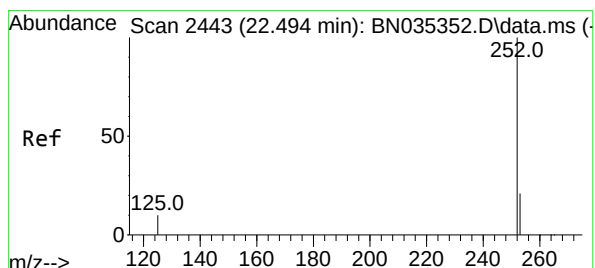
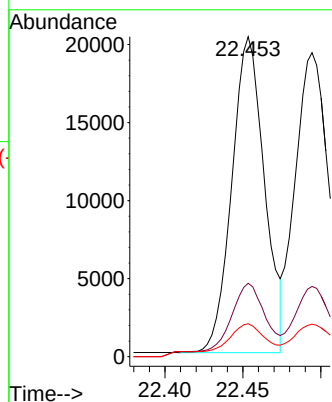
Tgt Ion:252 Resp: 29491

Ion Ratio Lower Upper

252 100

253 22.9 19.6 29.4

125 10.3 9.6 14.4



#38

Benzo(k)fluoranthene

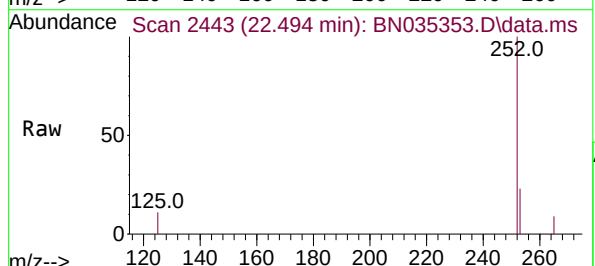
Concen: 0.843 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21



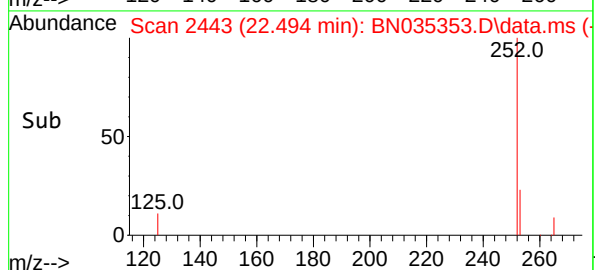
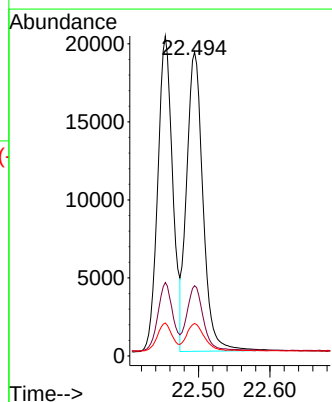
Tgt Ion:252 Resp: 30369

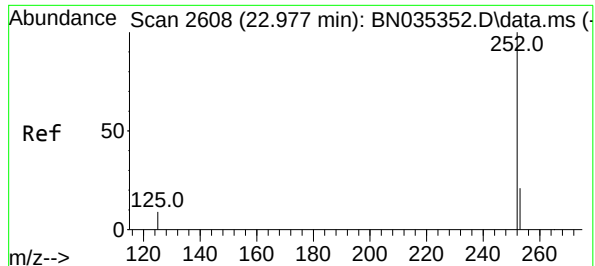
Ion Ratio Lower Upper

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 :

SSTDIC0.8

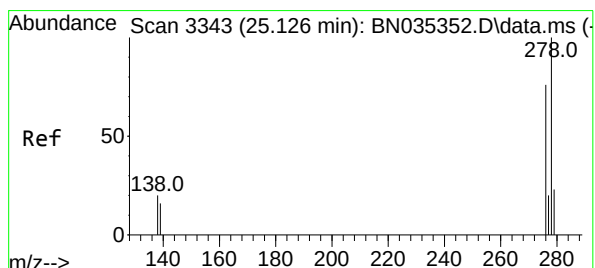
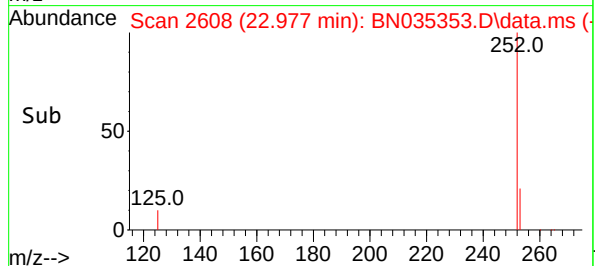
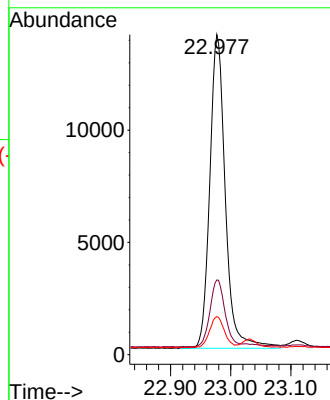
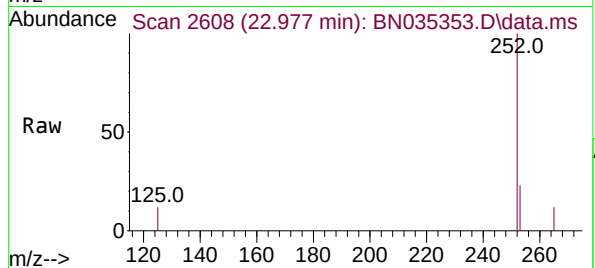
Tgt Ion:252 Resp: 25053

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

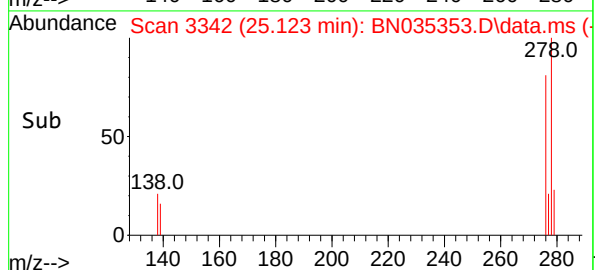
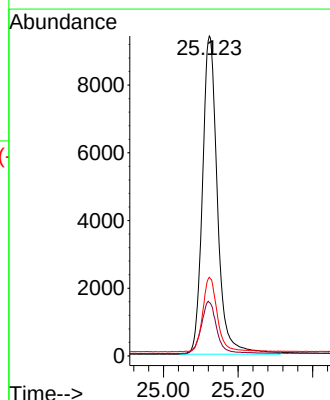
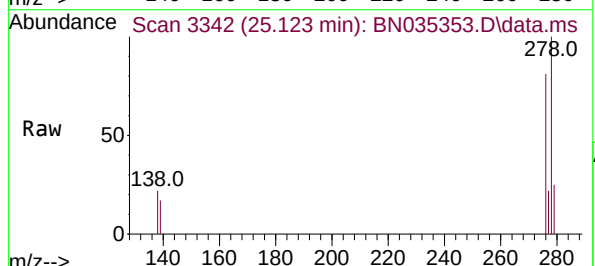
Tgt Ion:278 Resp: 26222

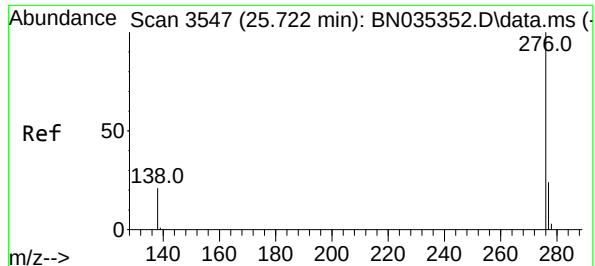
Ion Ratio Lower Upper

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

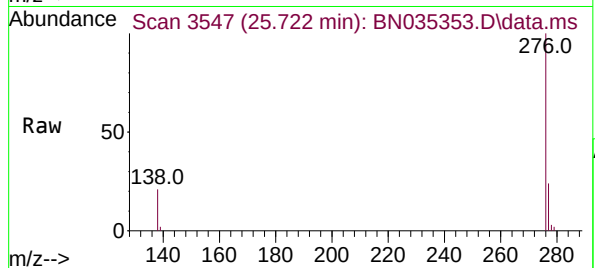
Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



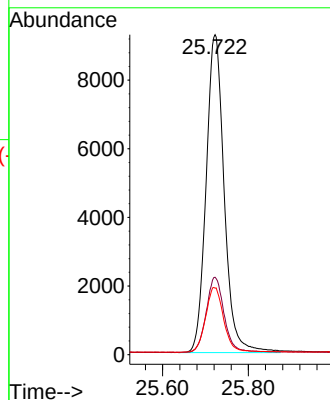
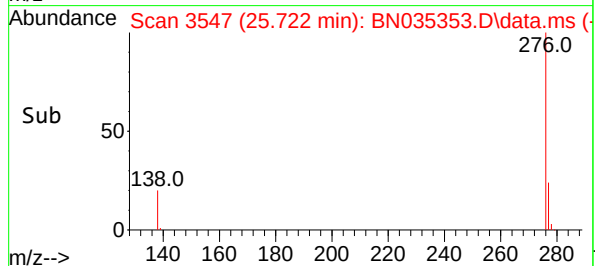
Tgt Ion:276 Resp: 27143

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

138 20.8 17.8 26.8



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

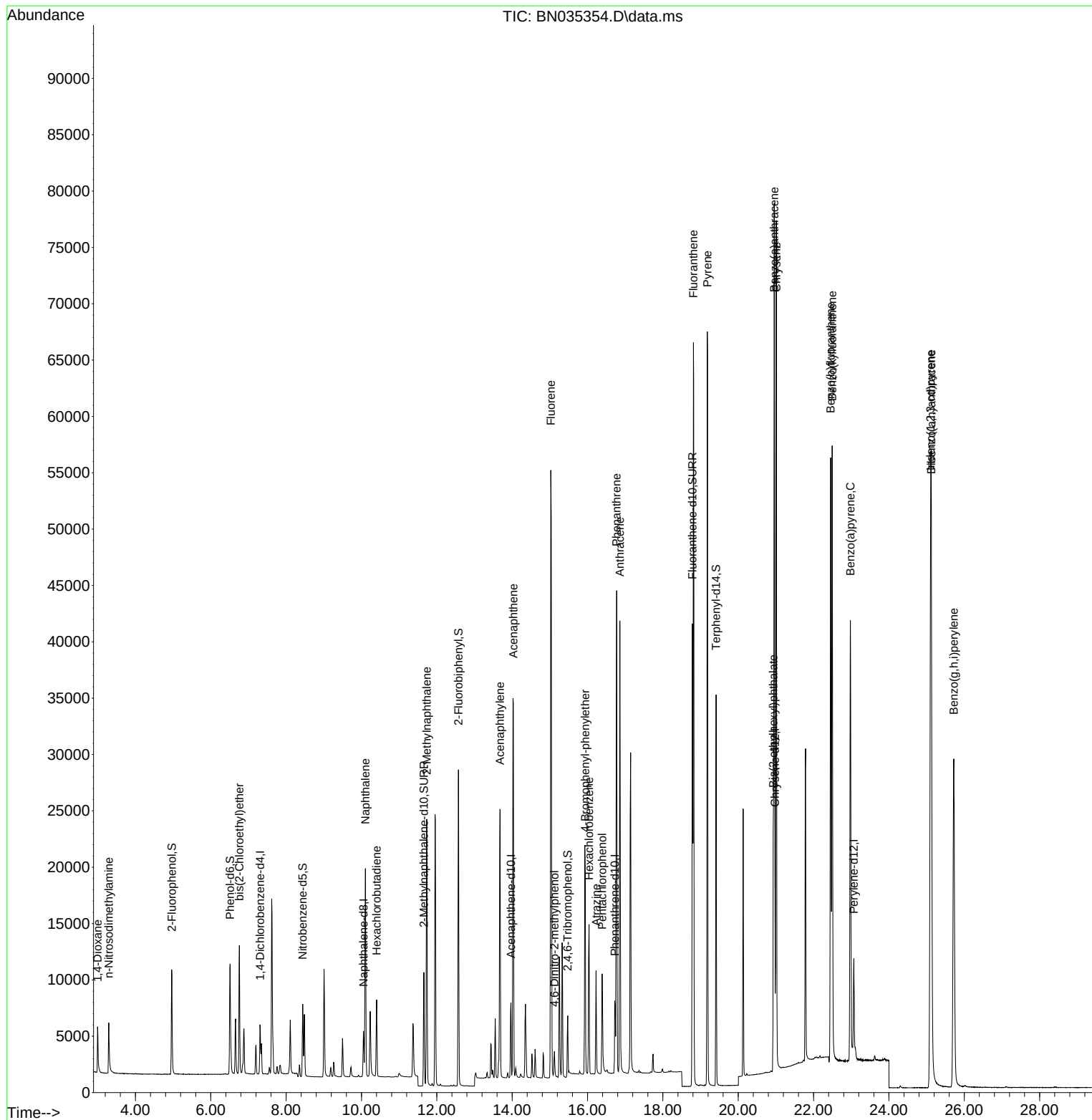
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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						
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

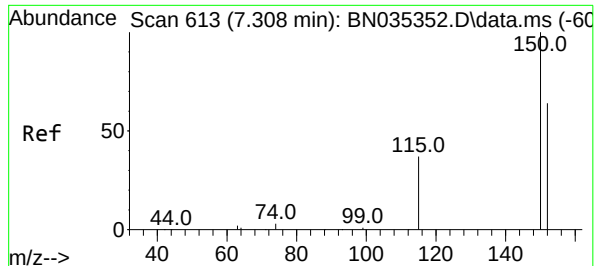
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

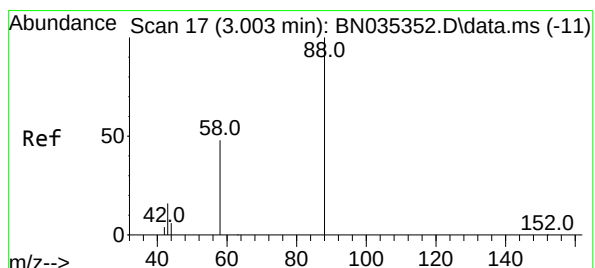
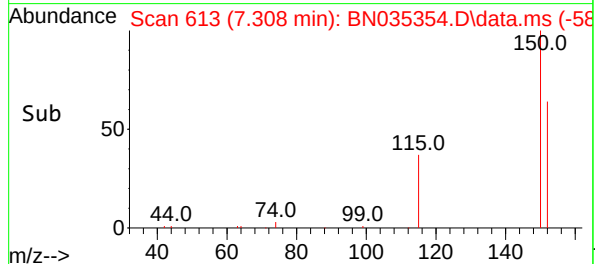
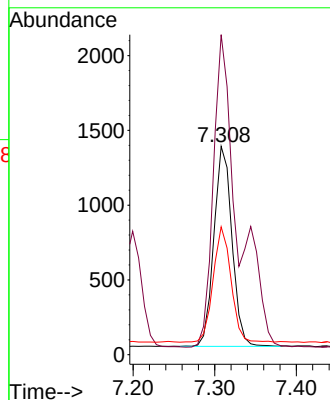
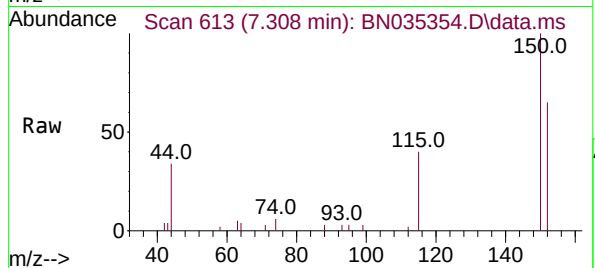




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

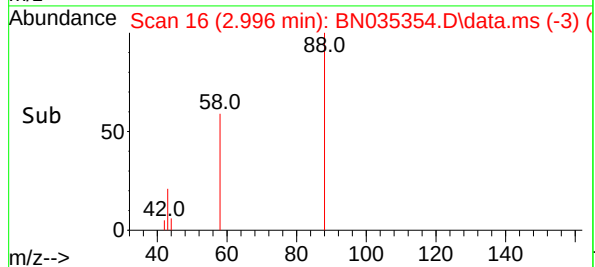
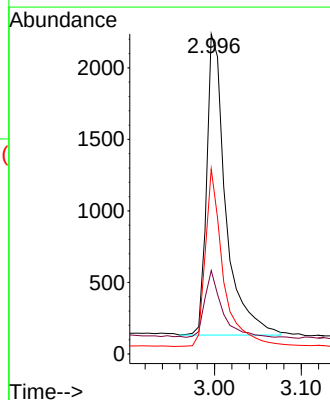
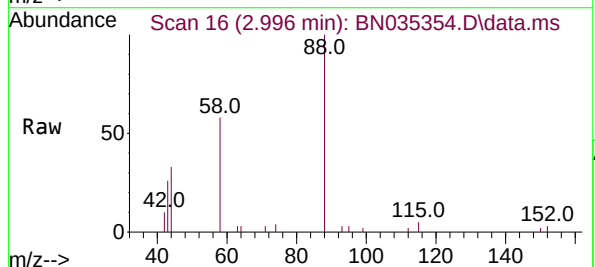
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

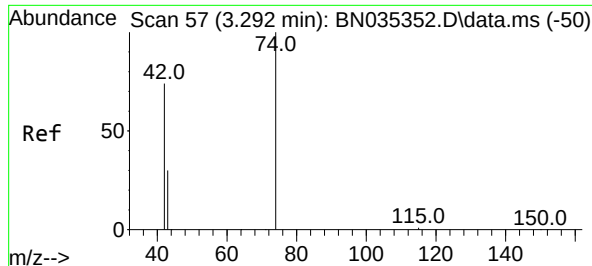
Tgt Ion:152 Resp: 2053
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 61.4 49.6 74.4



#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

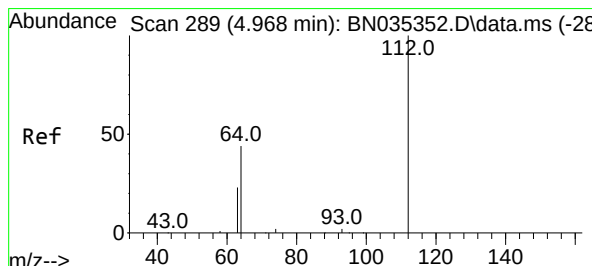
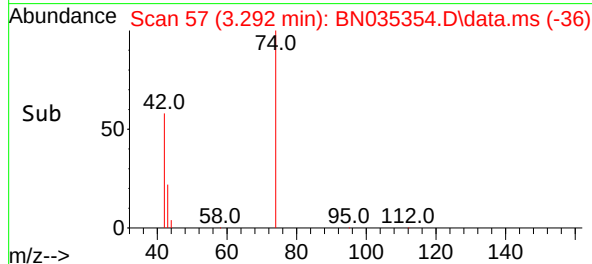
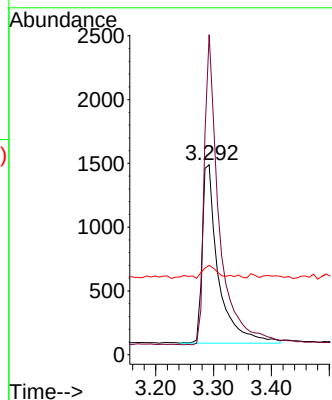
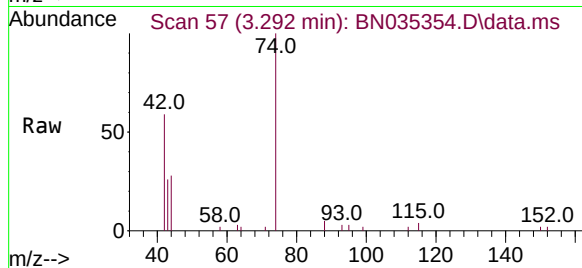




#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

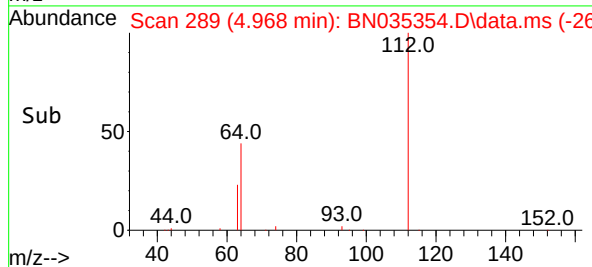
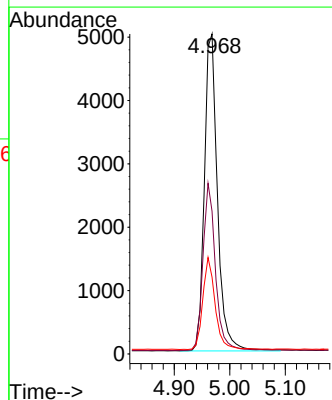
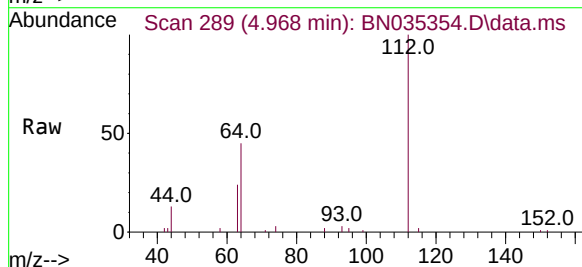
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

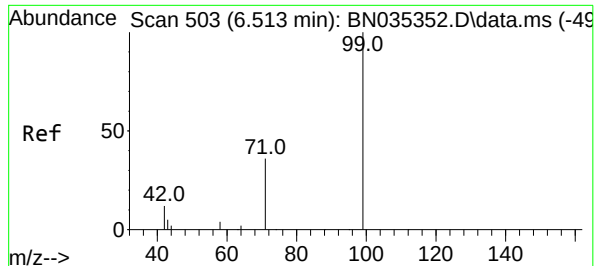
Tgt Ion: 42 Resp: 2729
Ion Ratio Lower Upper
42 100
74 160.4 124.9 187.3
44 6.2 2.2 3.4#



#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

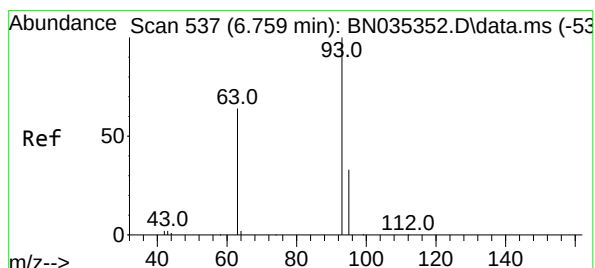
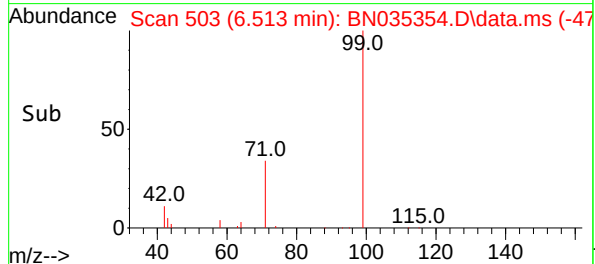
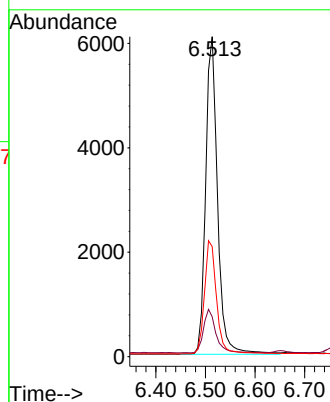
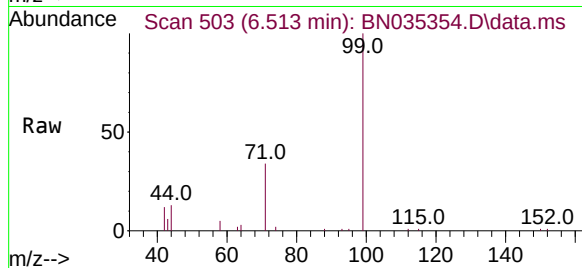




#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

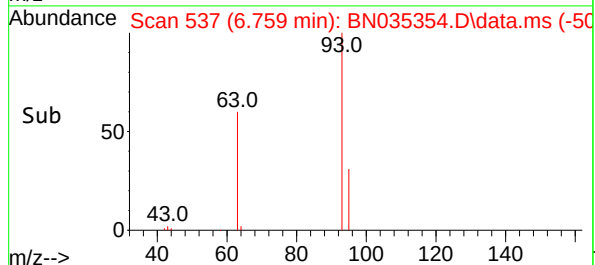
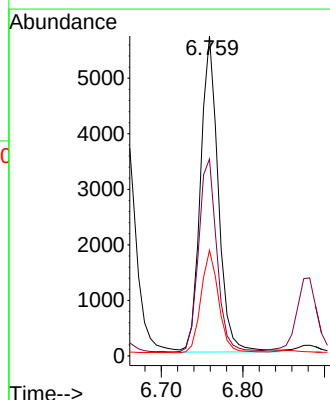
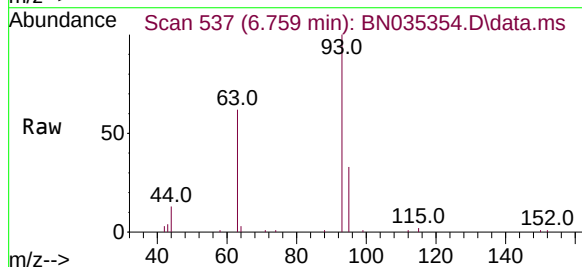
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

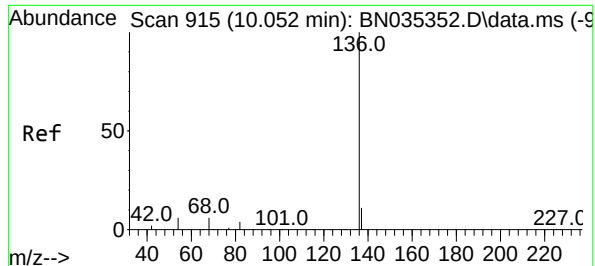
Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	36.3	29.3	43.9



#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	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	32.2	25.7	38.5

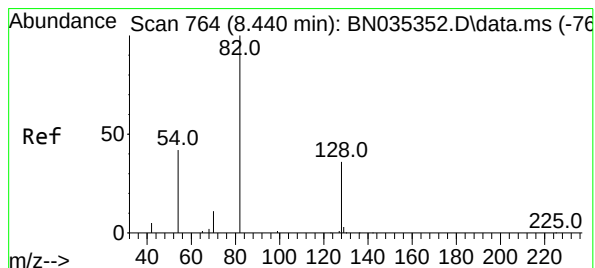
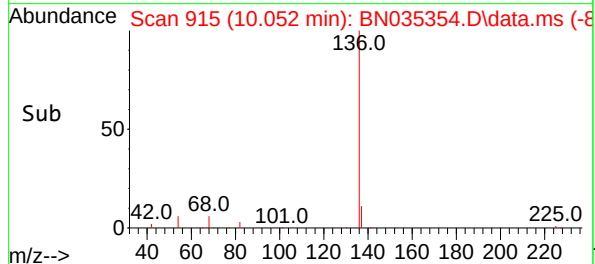
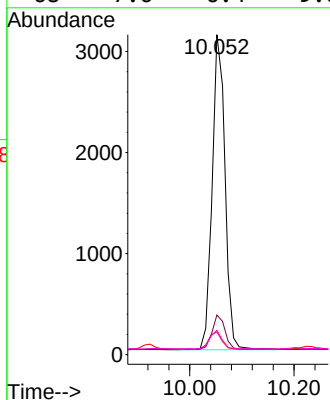
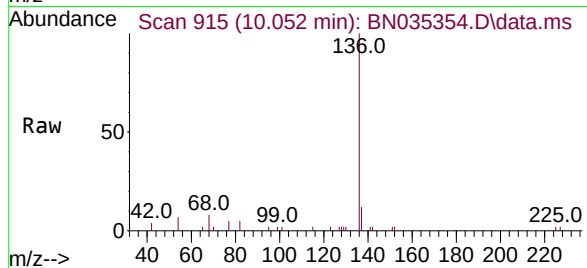




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

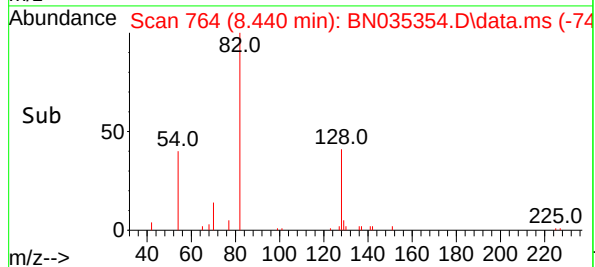
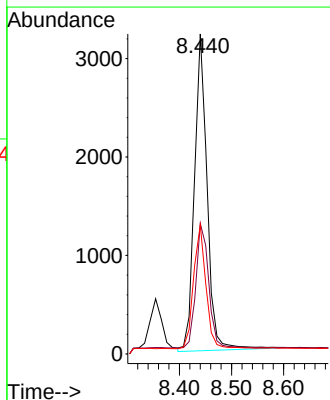
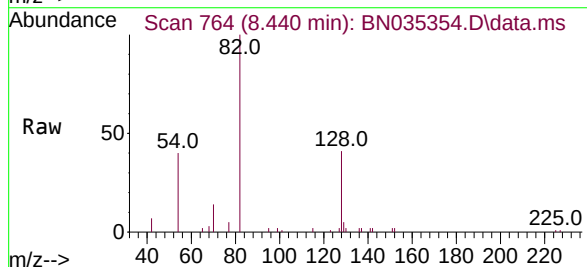
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

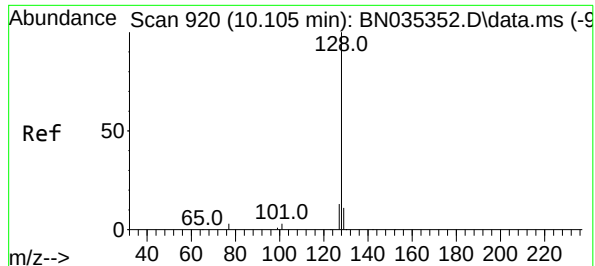
Tgt Ion:	136	Resp:	5309
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.2	6.1	9.1
68	7.6	6.4	9.6



#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

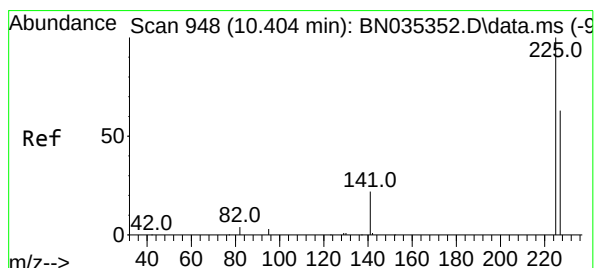
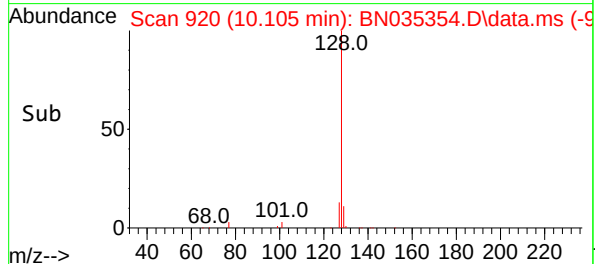
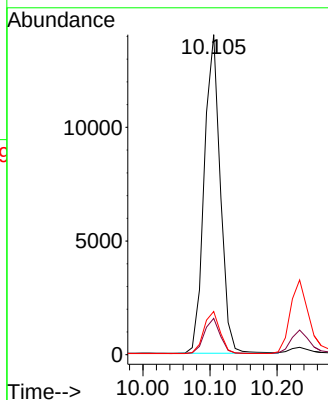
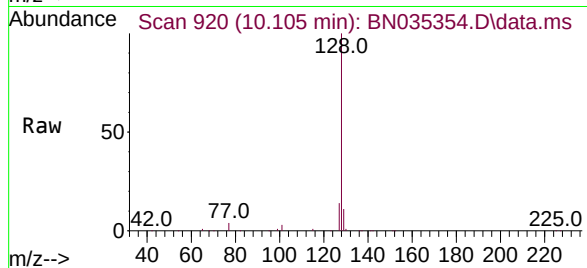




#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

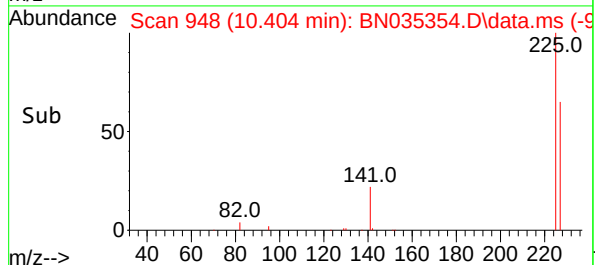
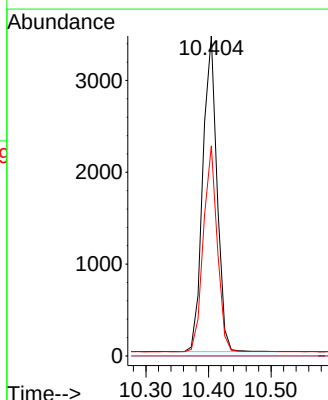
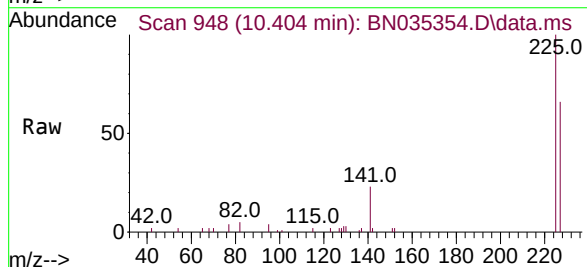
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

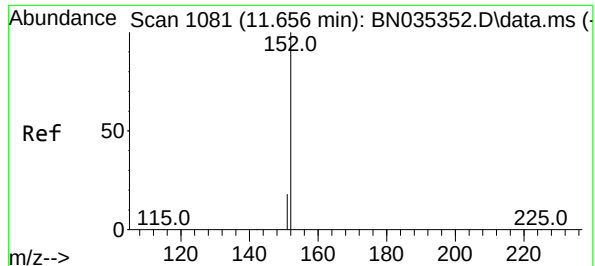
Tgt Ion:128 Resp: 23280
Ion Ratio Lower Upper
128 100
129 11.4 9.8 14.6
127 13.5 11.4 17.2



#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

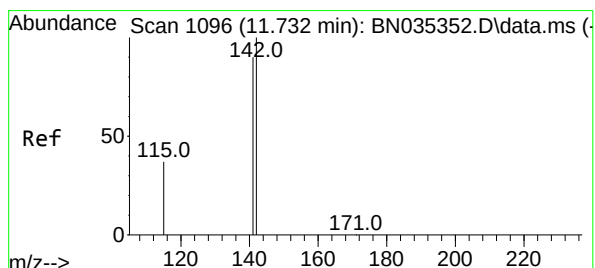
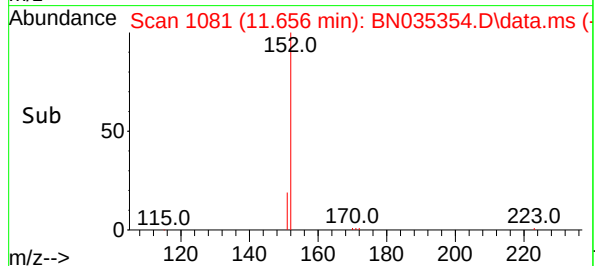
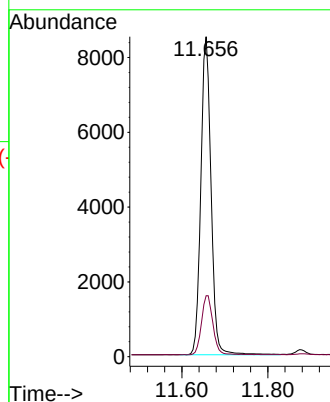
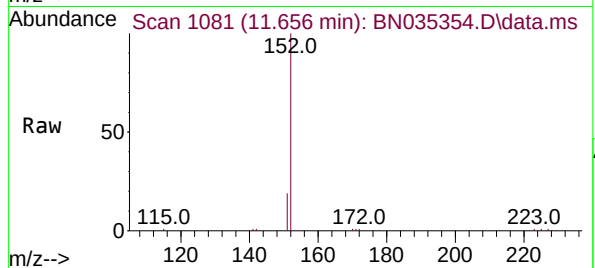




#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

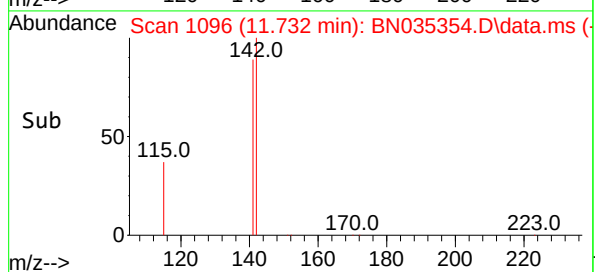
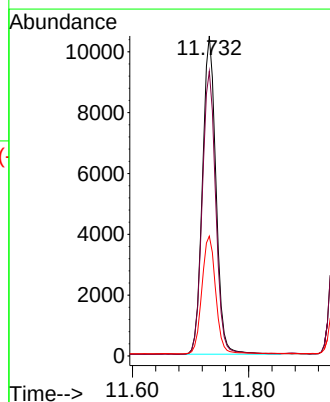
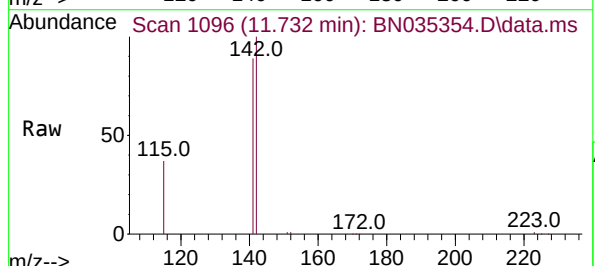
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

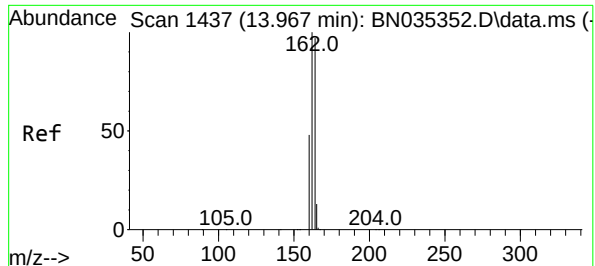
Tgt Ion:152 Resp: 13988
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#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

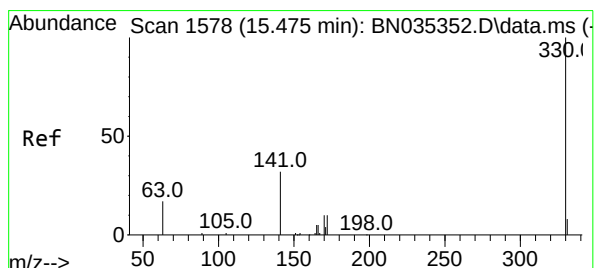
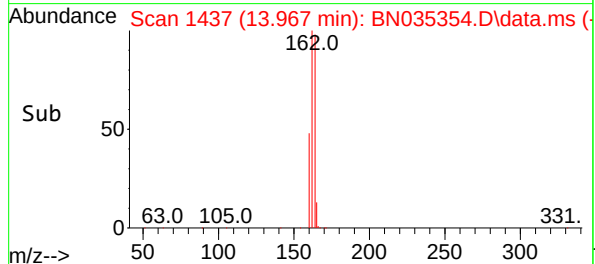
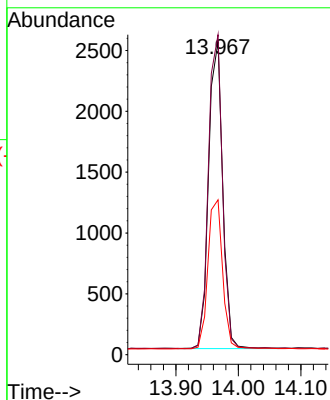
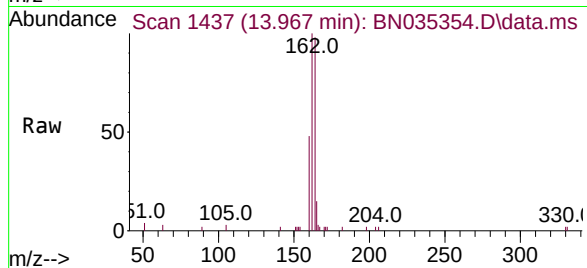




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

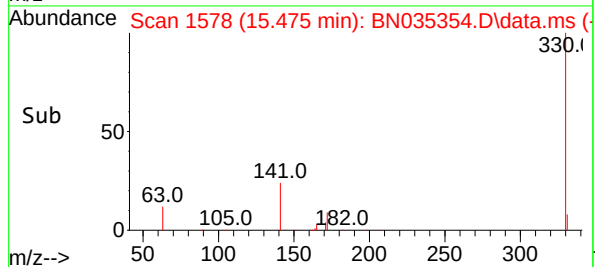
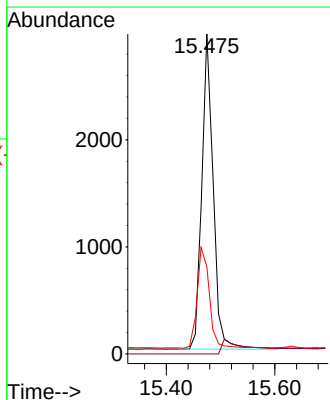
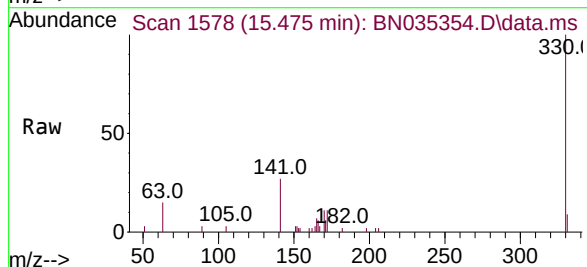
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

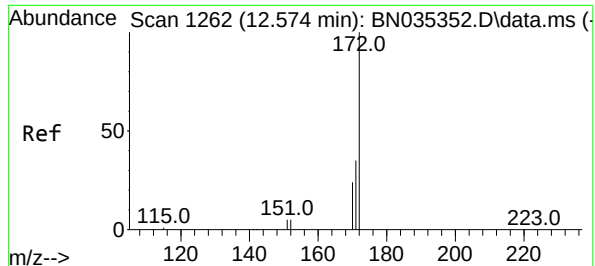
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.5	40.1	60.1



#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	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# 11

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

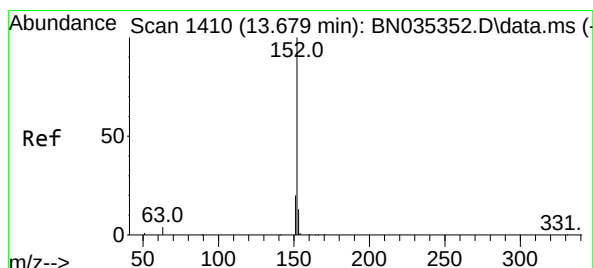
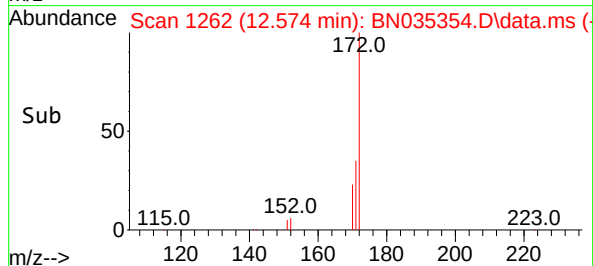
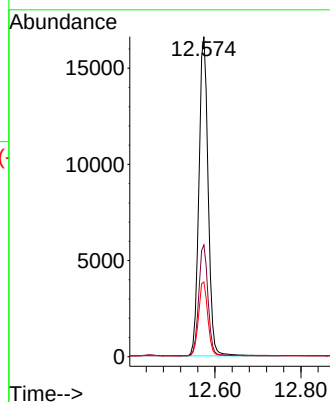
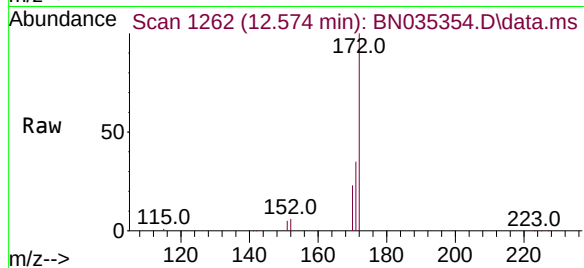
Tgt Ion:172 Resp: 24687

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

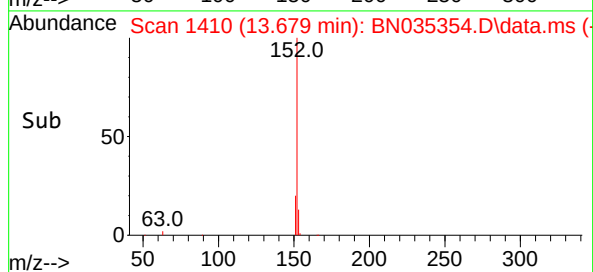
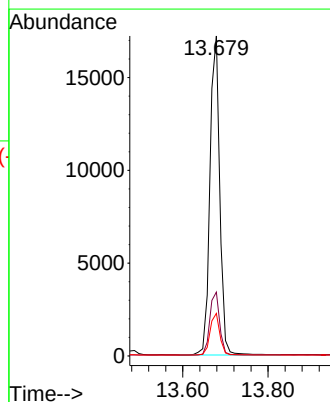
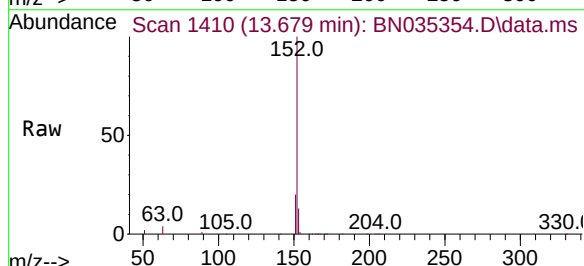
Tgt Ion:152 Resp: 27389

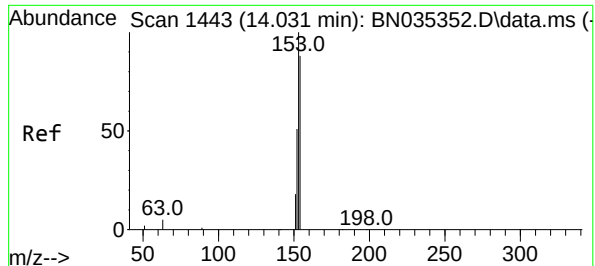
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

153 13.0 10.4 15.6

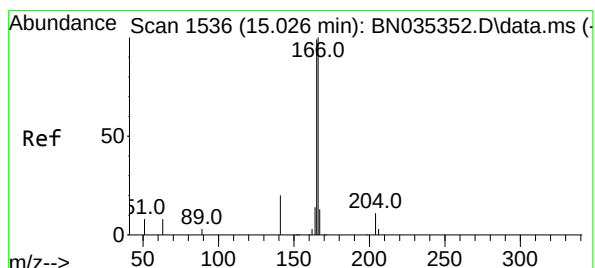
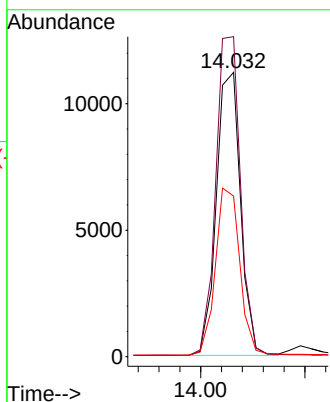
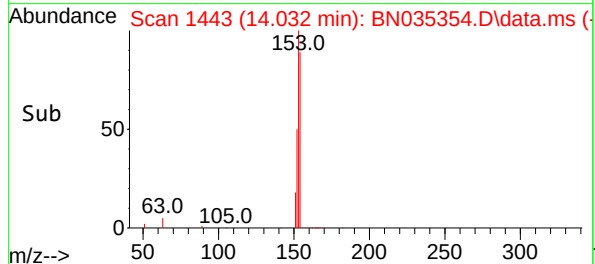
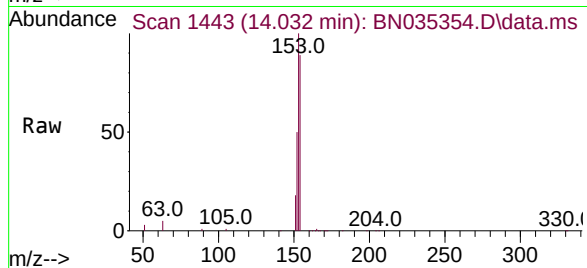




#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

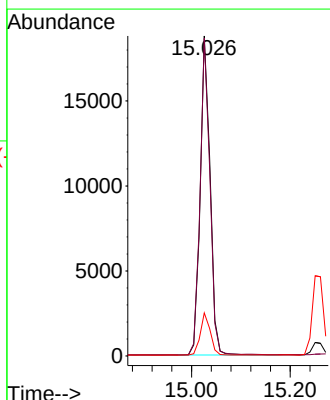
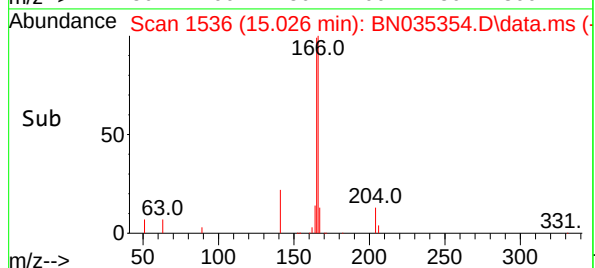
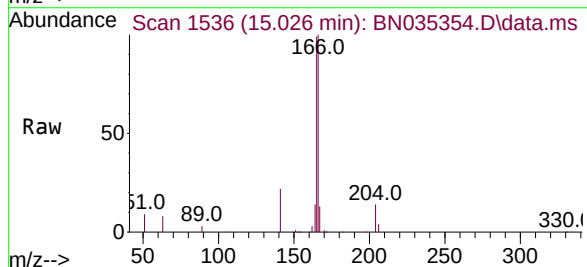
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

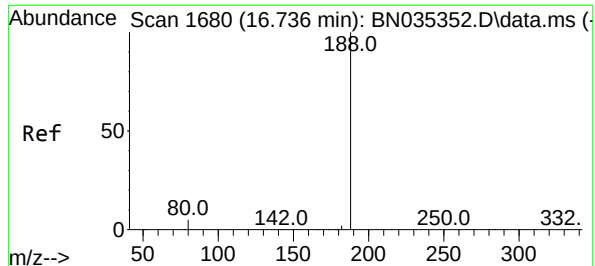
Tgt Ion:154 Resp: 18061
Ion Ratio Lower Upper
154 100
153 115.1 92.6 139.0
152 59.9 49.0 73.6



#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

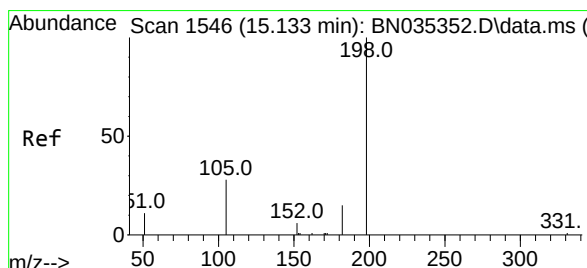
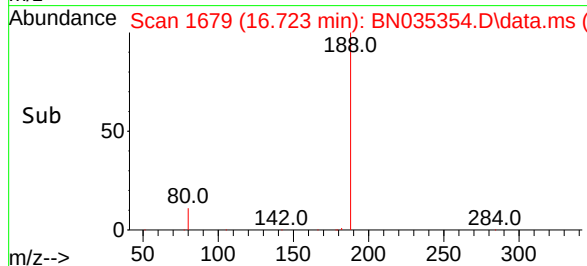
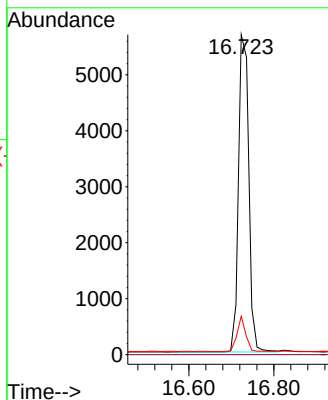
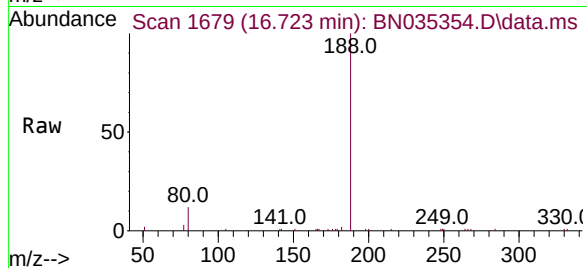
Tgt Ion:188 Resp: 9517

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

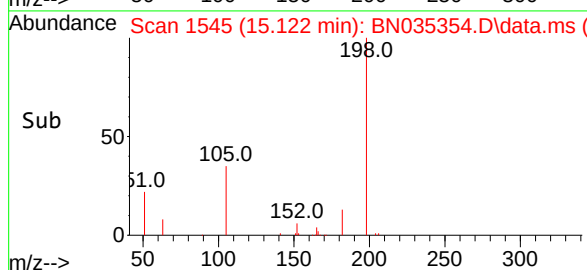
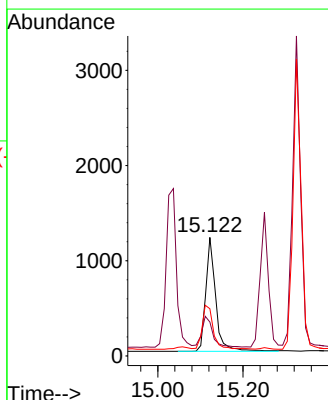
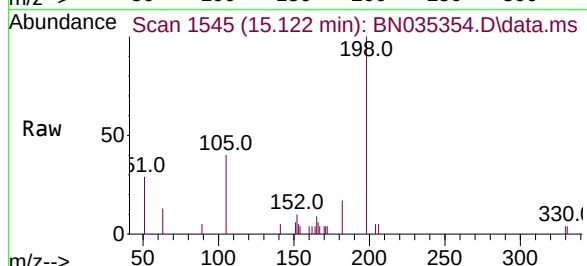
Tgt Ion:198 Resp: 1947

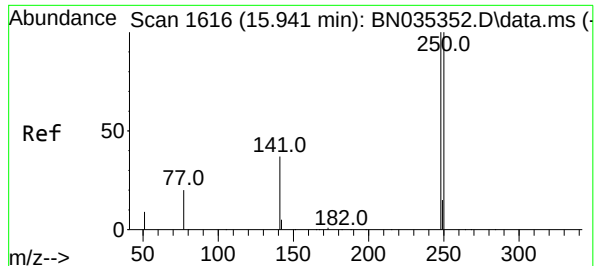
Ion Ratio Lower Upper

198 100

51 28.6 46.5 69.7#

105 39.8 45.3 67.9#

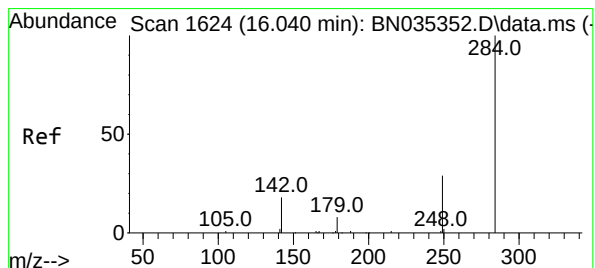
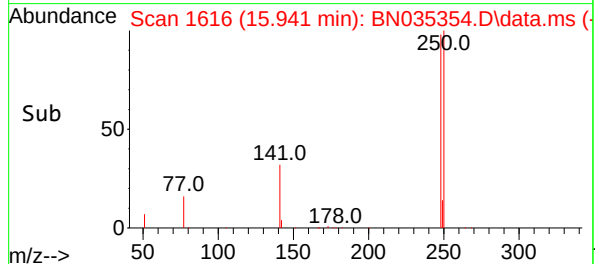
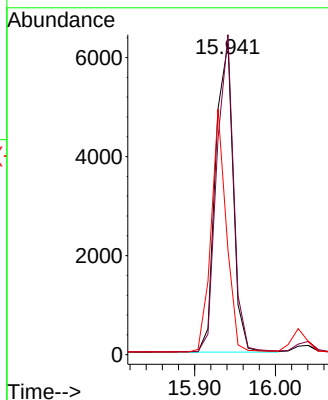
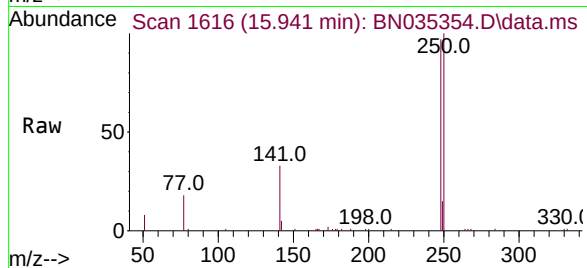




#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

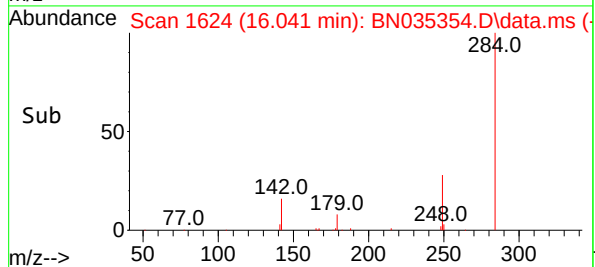
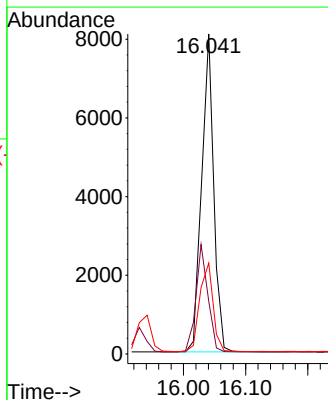
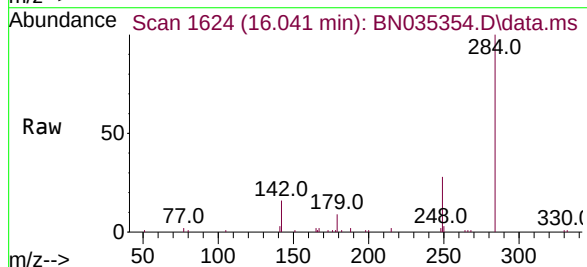
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

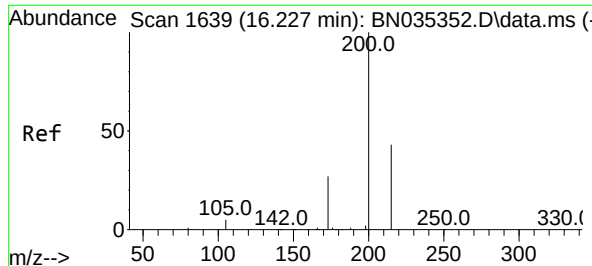
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.7	80.6	120.8
141	33.7	31.5	47.3



#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	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.6	24.6	36.8

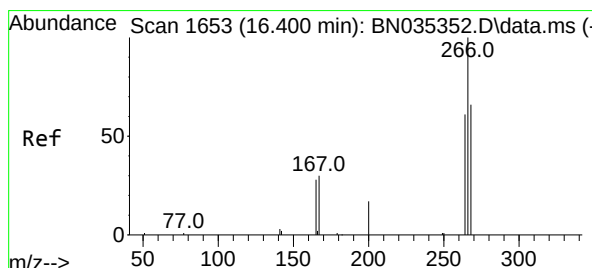
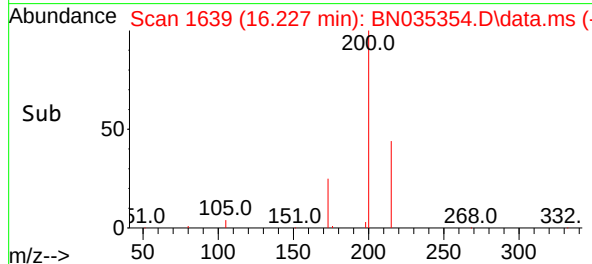
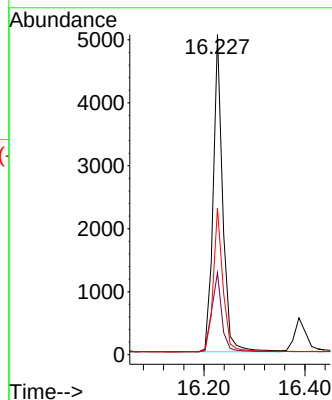
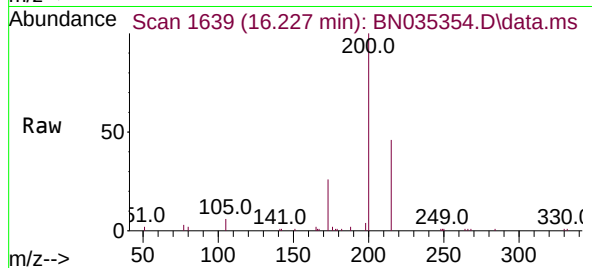




#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

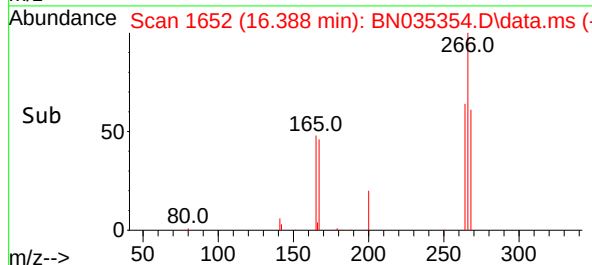
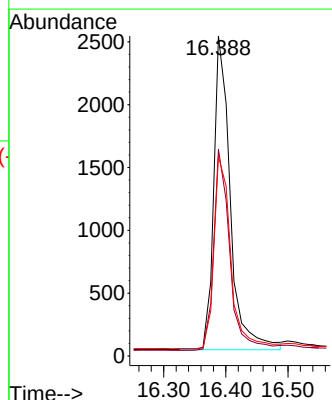
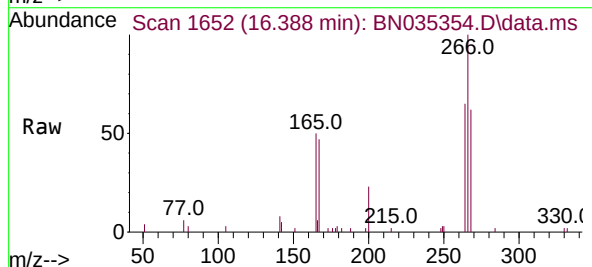
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

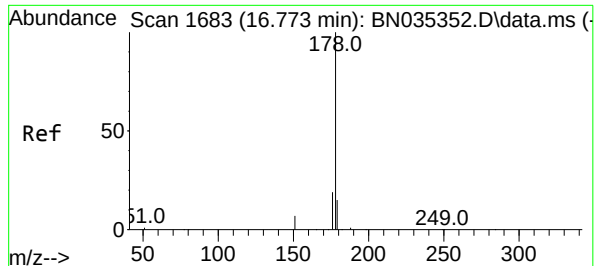
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.6	24.1	36.1
215	45.8	36.9	55.3



#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	Ratio	Lower	Upper
266	100		
264	64.8	42.3	63.5#
268	62.9	43.3	64.9

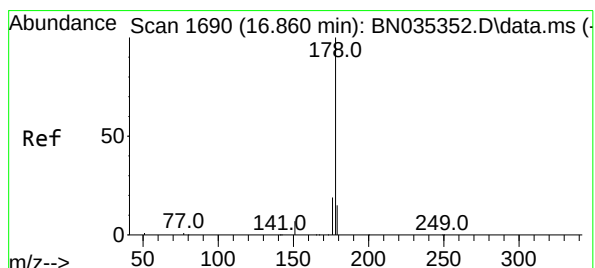
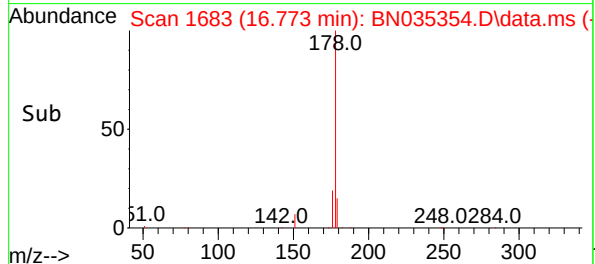
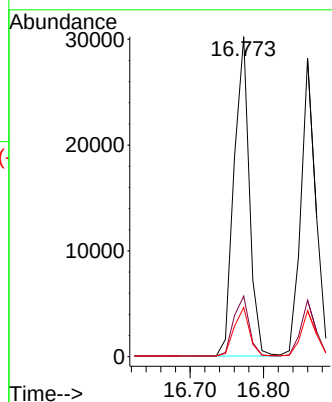
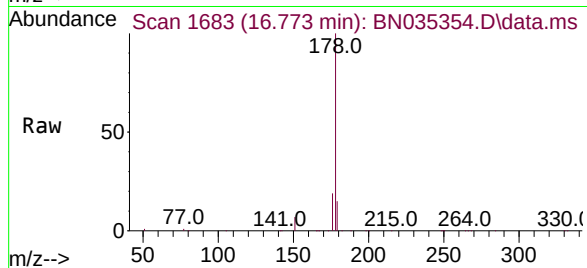




#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

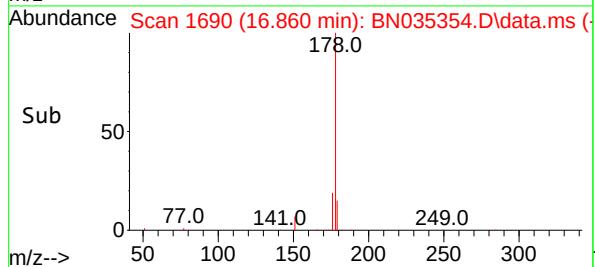
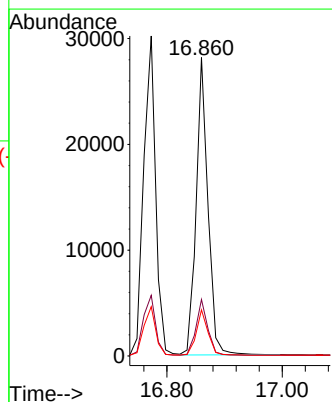
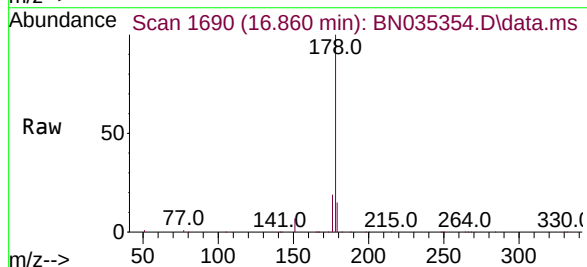
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

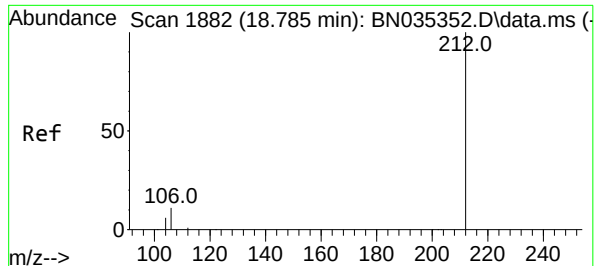
Tgt Ion:178 Resp: 43698
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.3 18.5



#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# 1882

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

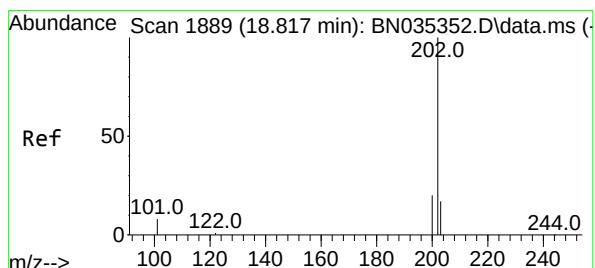
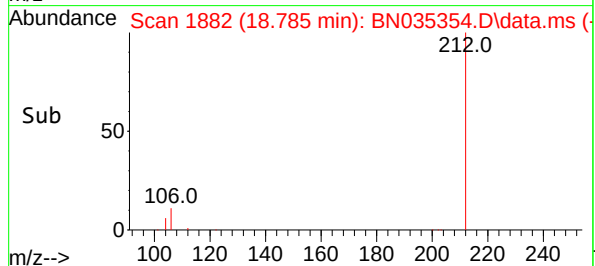
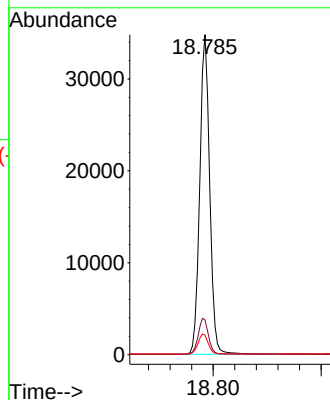
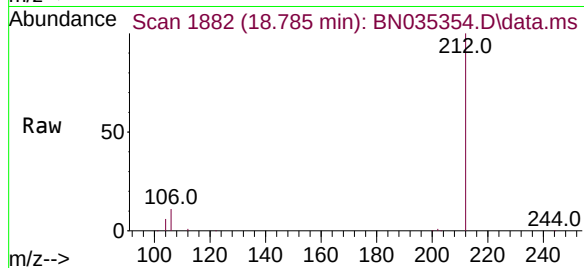
Tgt Ion:212 Resp: 44338

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

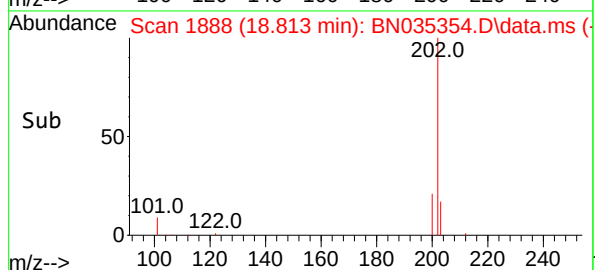
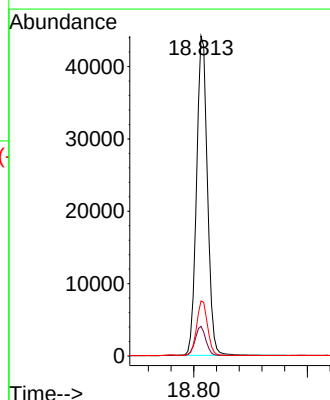
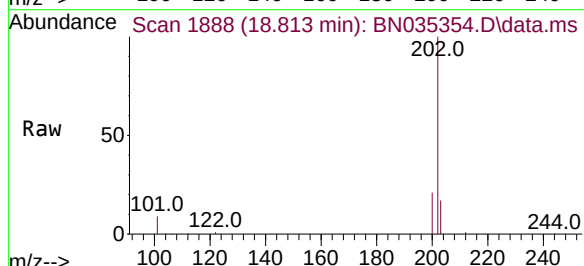
Tgt Ion:202 Resp: 58605

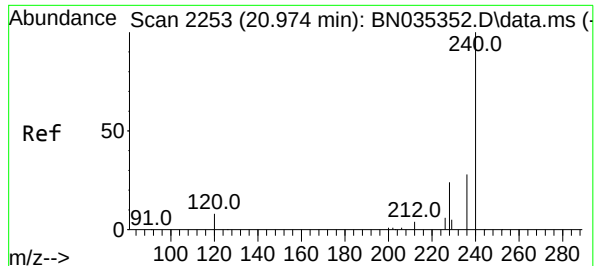
Ion Ratio Lower Upper

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# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

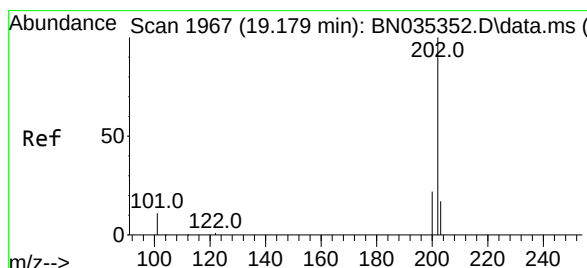
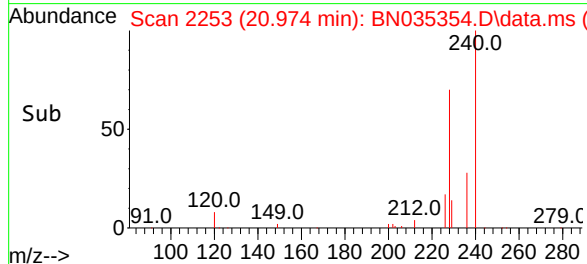
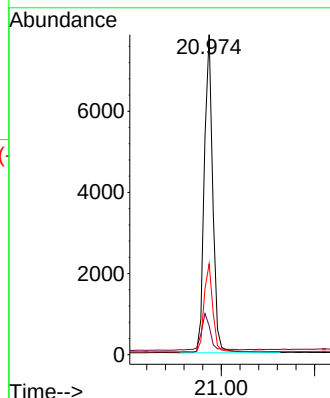
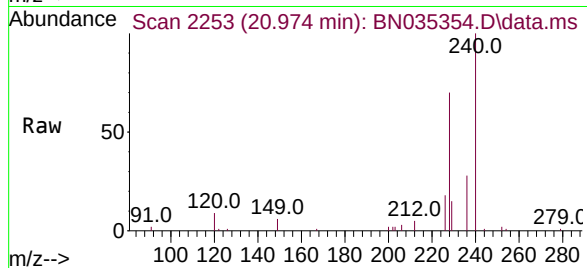
Tgt Ion:240 Resp: 9905

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

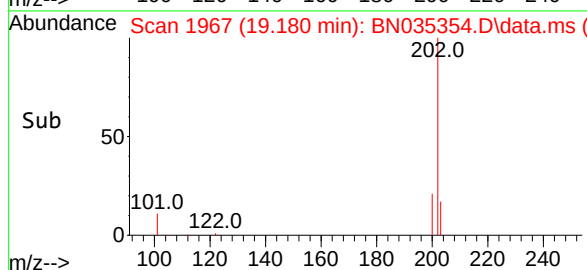
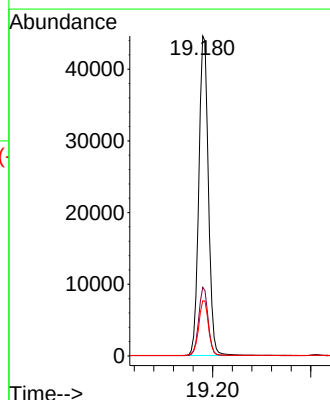
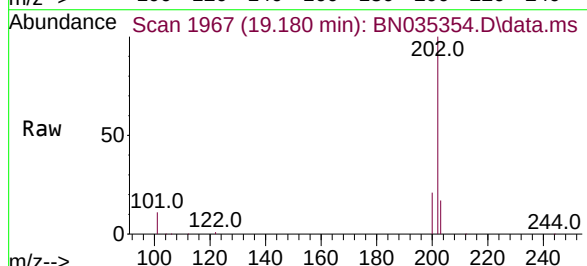
Tgt Ion:202 Resp: 60164

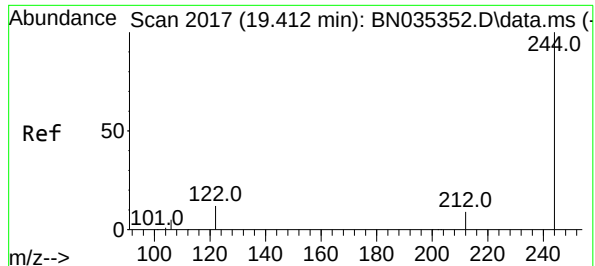
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5

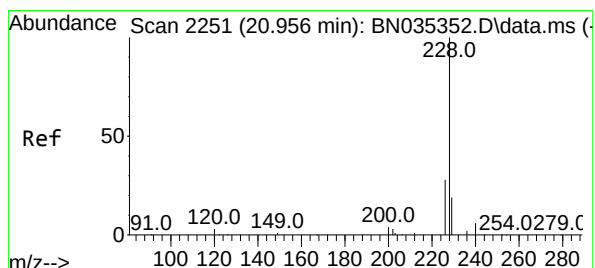
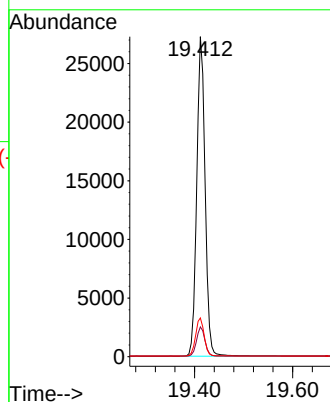
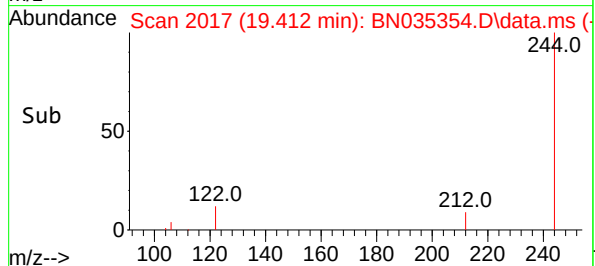
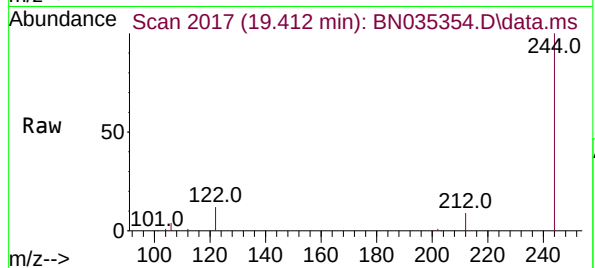




#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

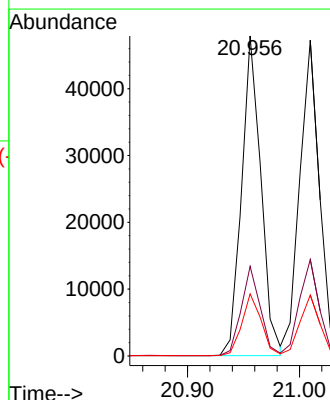
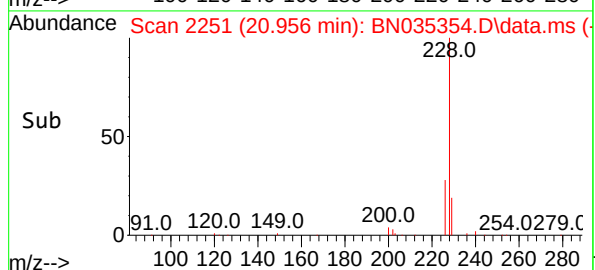
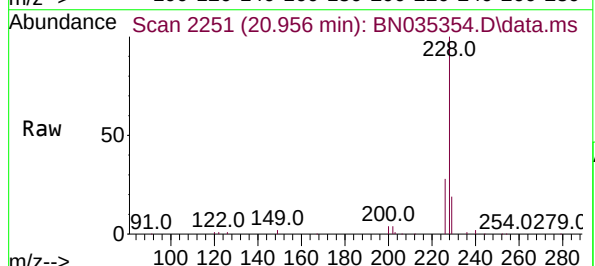
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

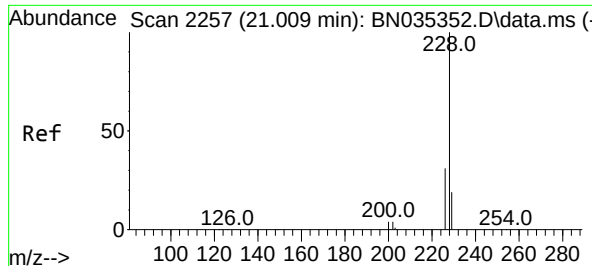
Tgt Ion:244 Resp: 32174
Ion Ratio Lower Upper
244 100
212 9.3 8.1 12.1
122 12.1 10.3 15.5



#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# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

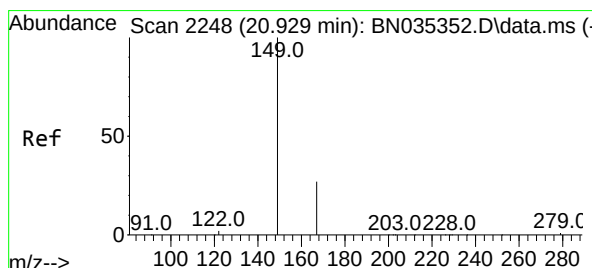
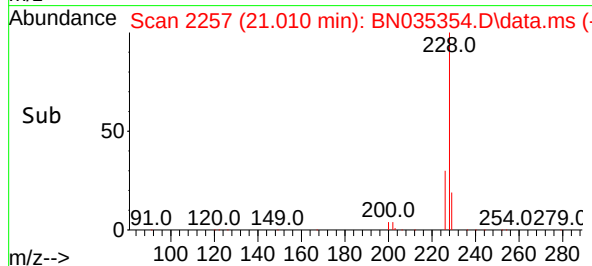
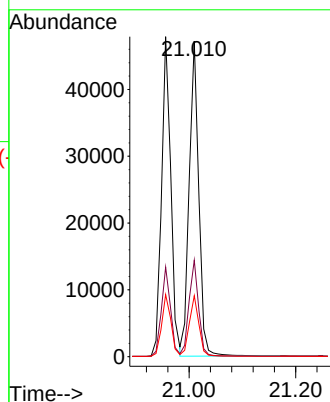
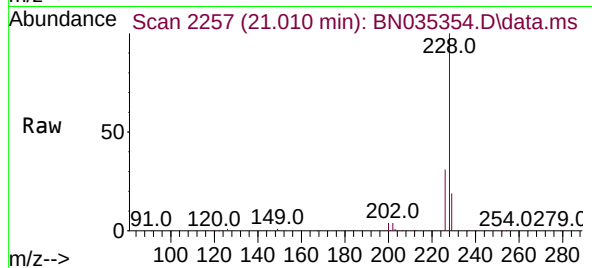
Tgt Ion:228 Resp: 58919

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

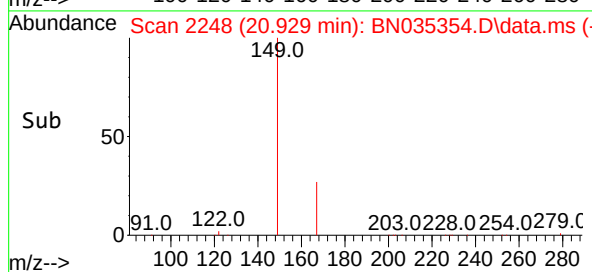
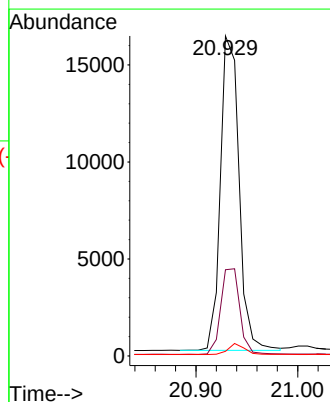
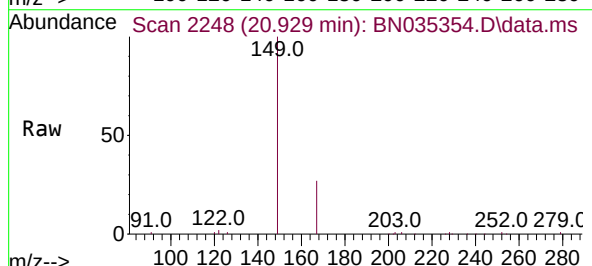
Tgt Ion:149 Resp: 20598

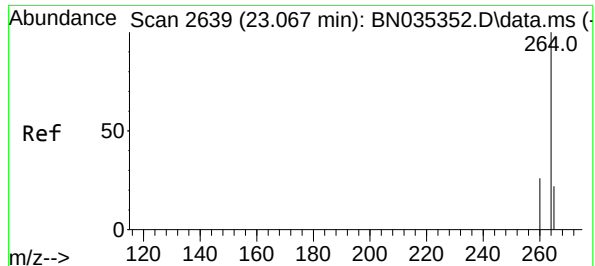
Ion Ratio Lower Upper

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

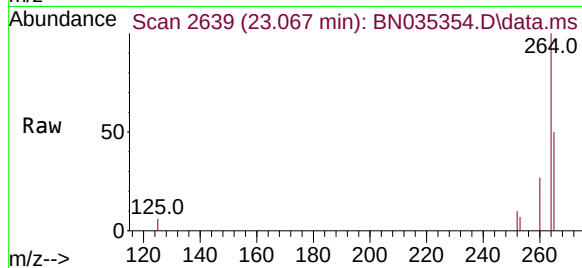
Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



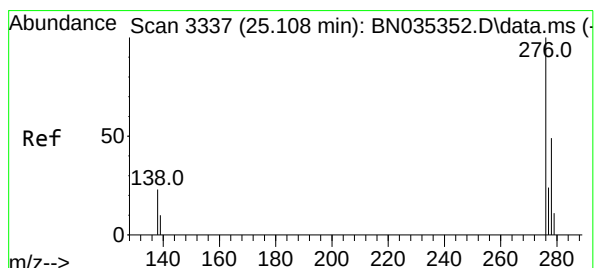
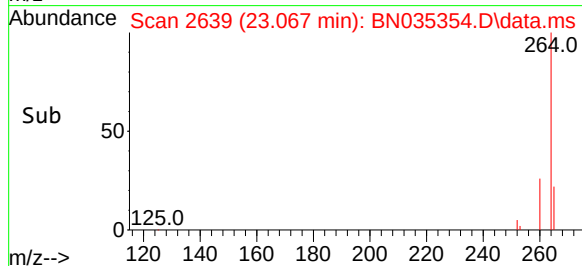
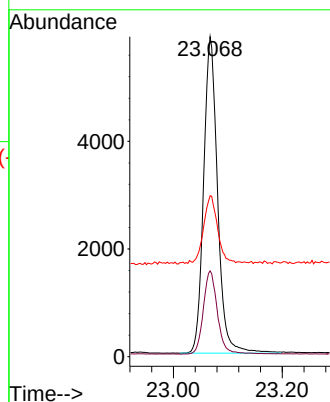
Tgt Ion:264 Resp: 10469

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

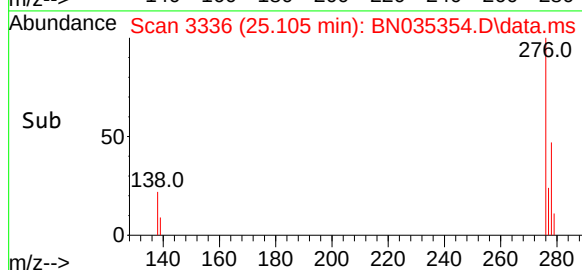
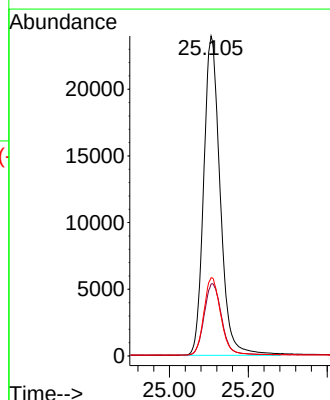
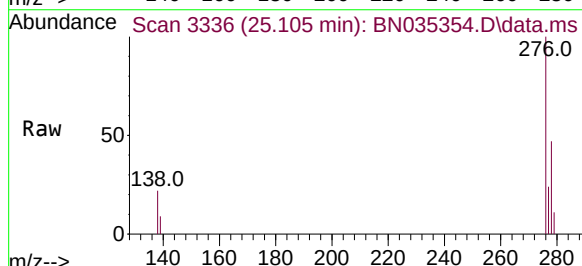
Tgt Ion:276 Resp: 69517

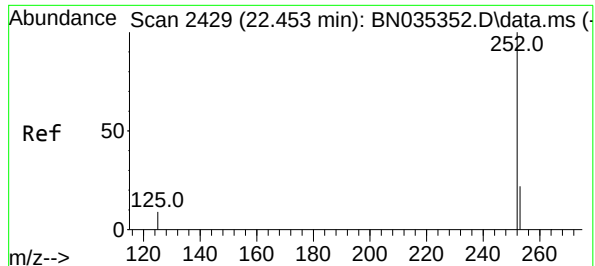
Ion Ratio Lower Upper

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# 2429

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

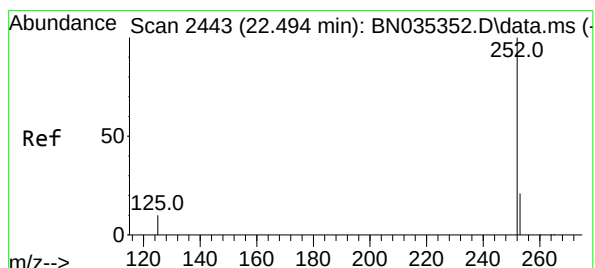
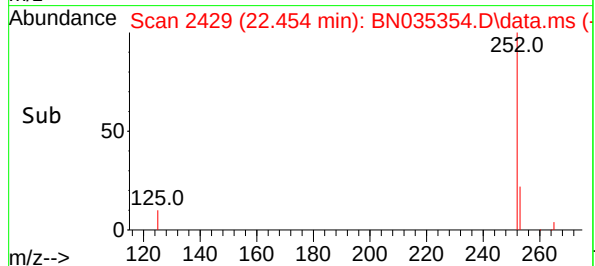
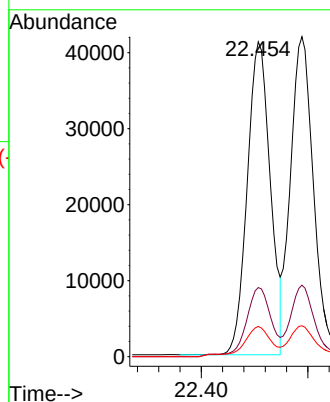
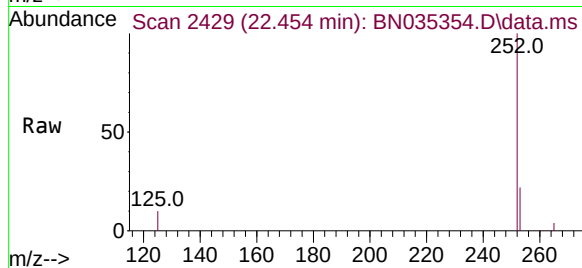
Tgt Ion:252 Resp: 76506

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

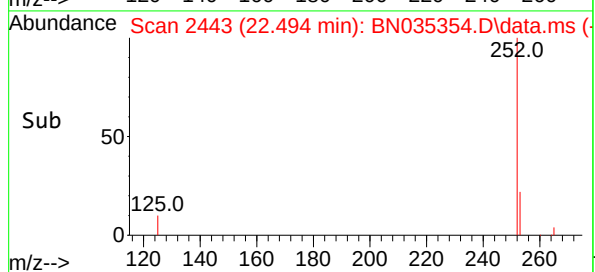
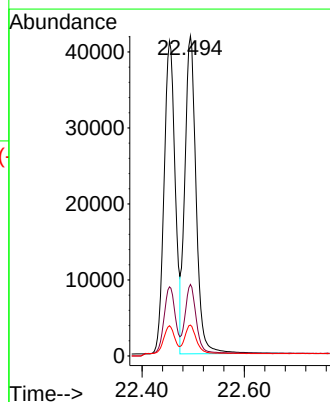
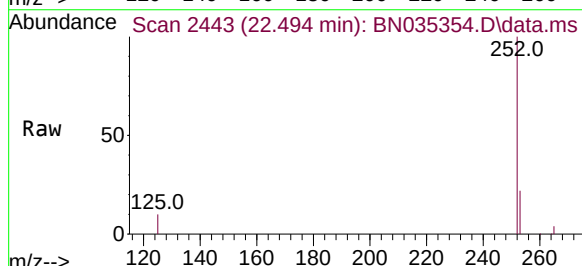
Tgt Ion:252 Resp: 63925

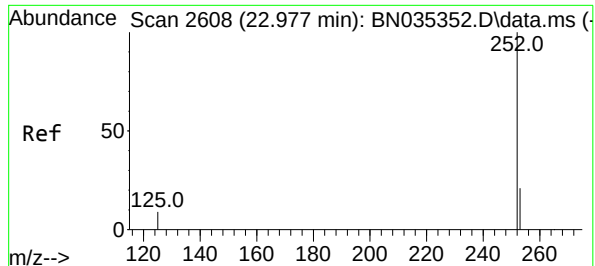
Ion Ratio Lower Upper

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# 2608

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

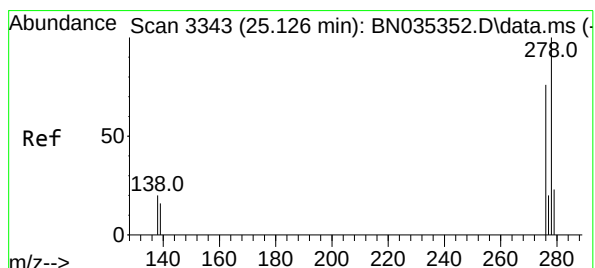
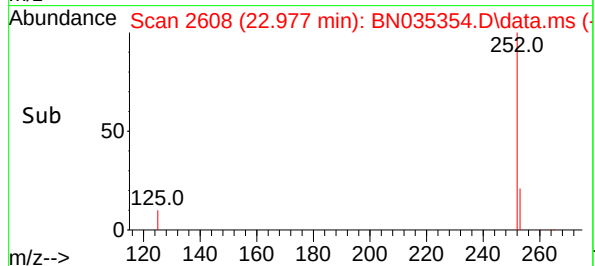
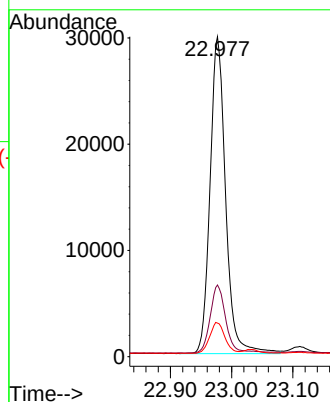
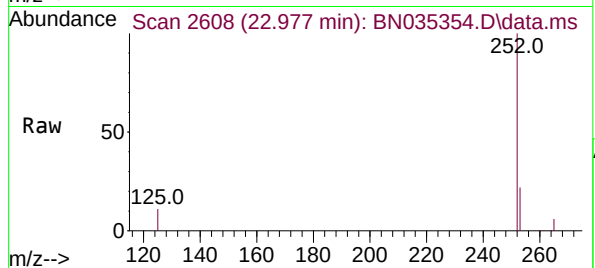
Tgt Ion:252 Resp: 52595

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

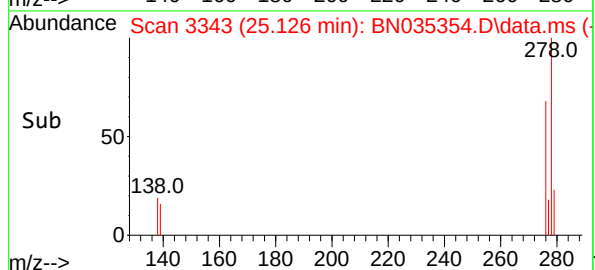
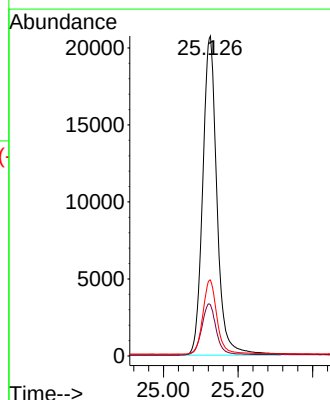
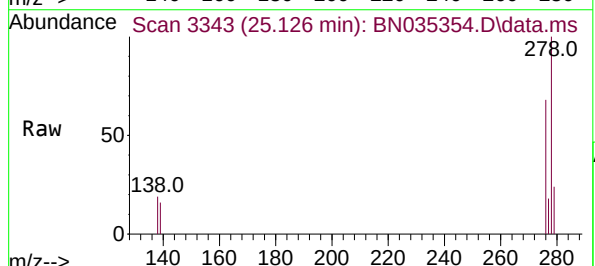
Tgt Ion:278 Resp: 55068

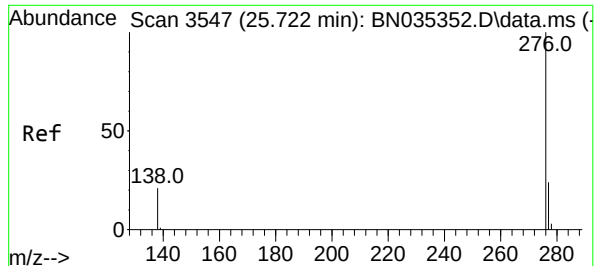
Ion Ratio Lower Upper

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

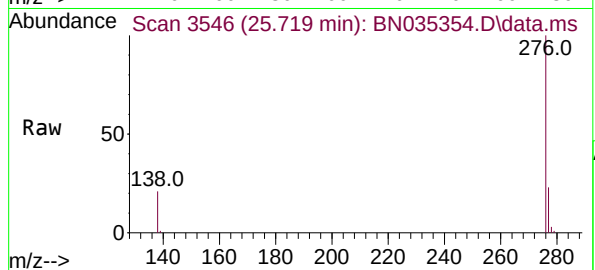
Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



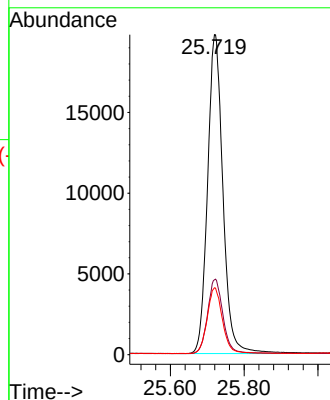
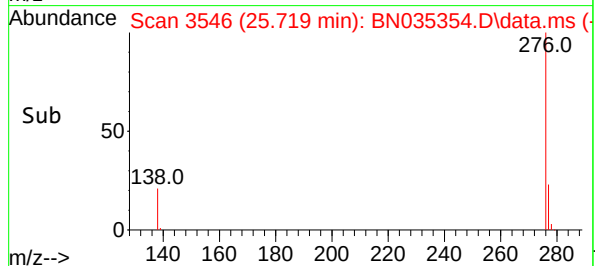
Tgt Ion:276 Resp: 56947

Ion Ratio Lower Upper

276 100

277 23.4 19.9 29.9

138 20.9 17.8 26.8



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

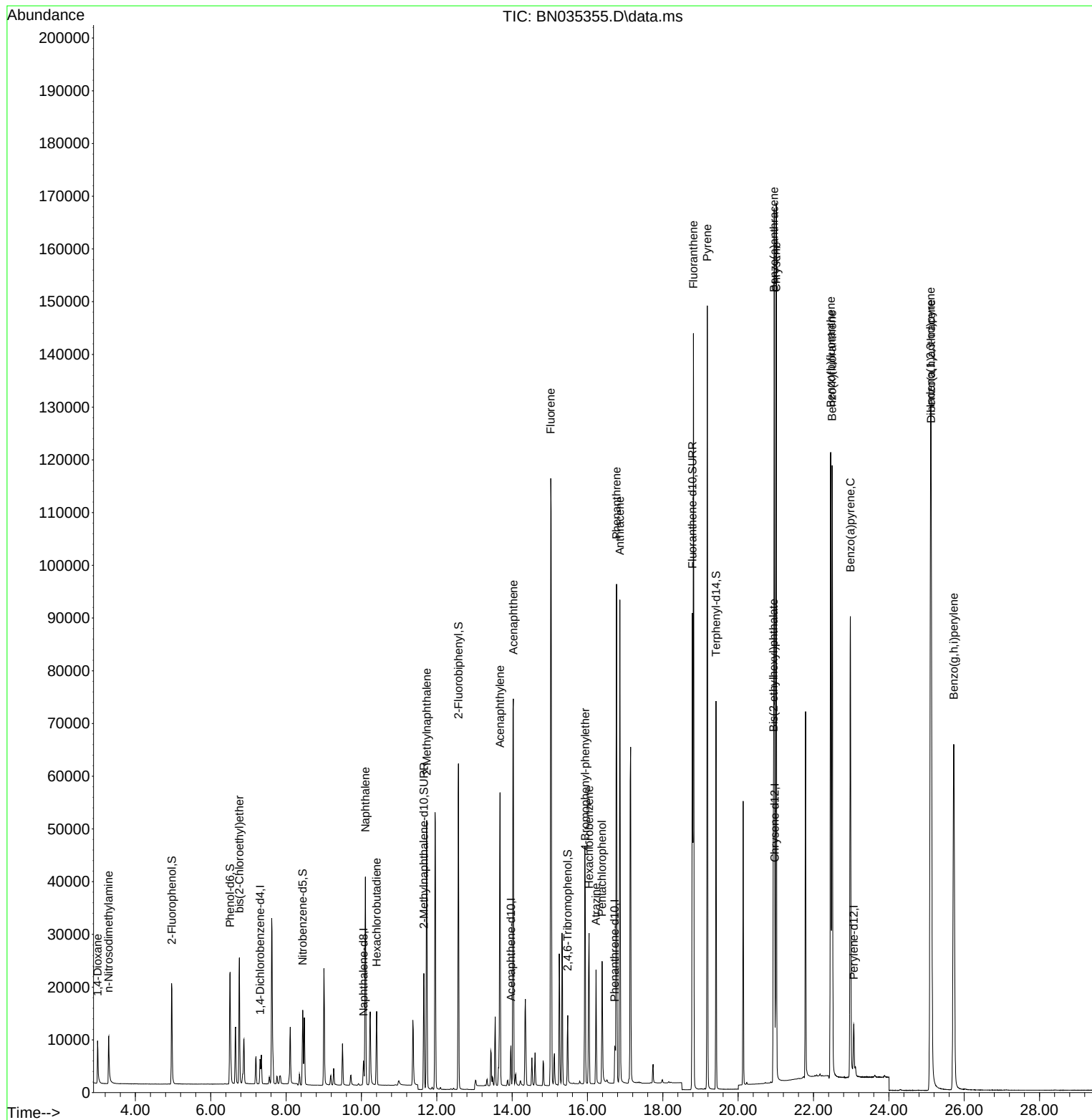
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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						
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

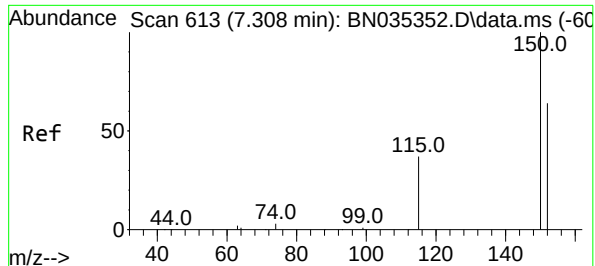
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

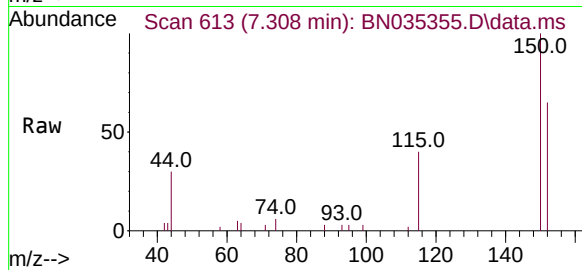
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



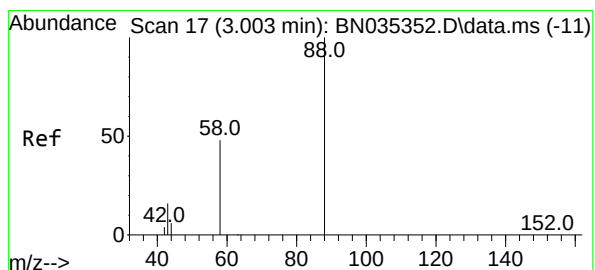
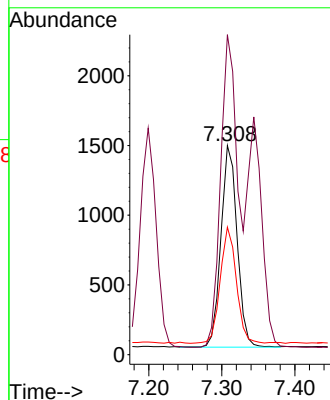
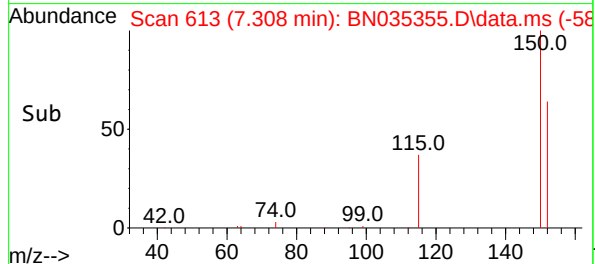


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

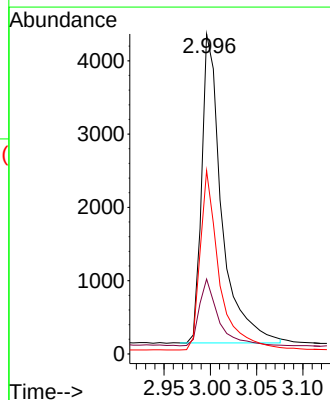
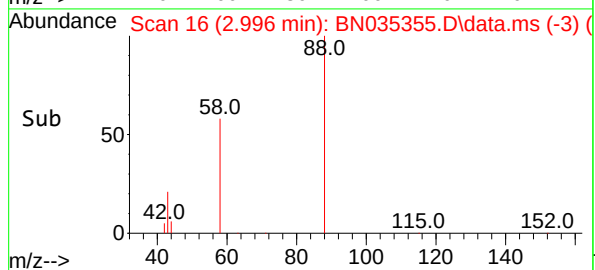
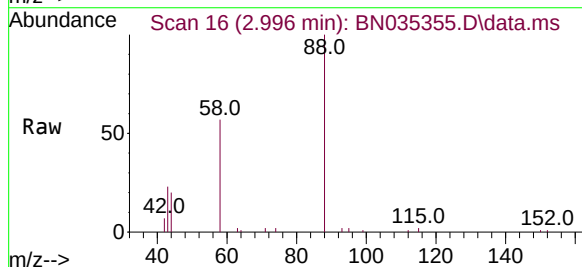


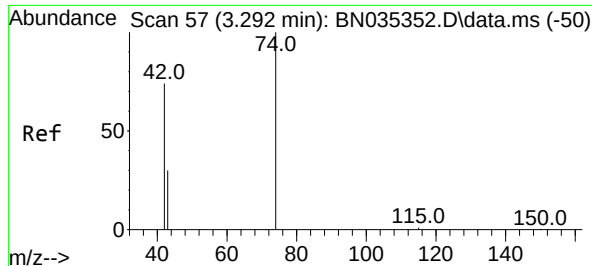
Tgt Ion:152 Resp: 2226
Ion Ratio Lower Upper
152 100
150 153.0 124.0 186.0
115 61.0 49.6 74.4



#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

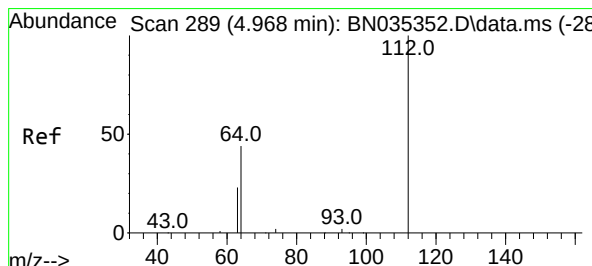
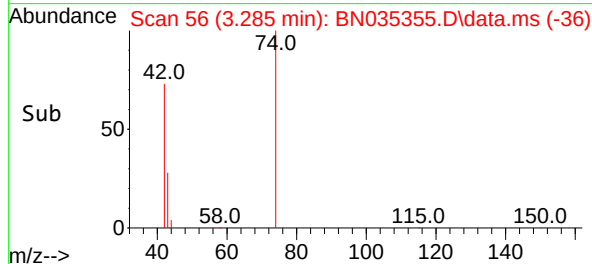
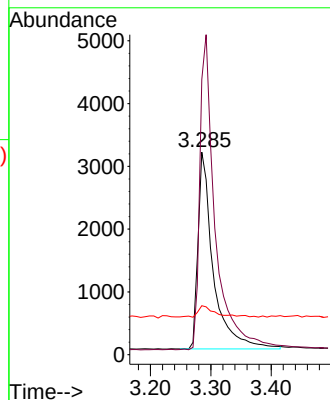
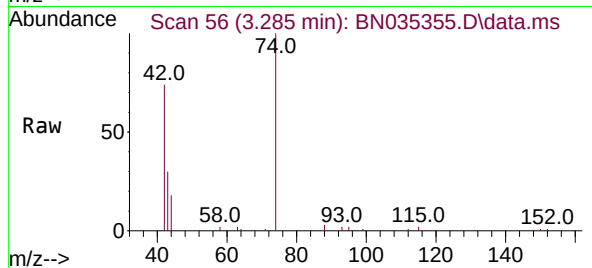




#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

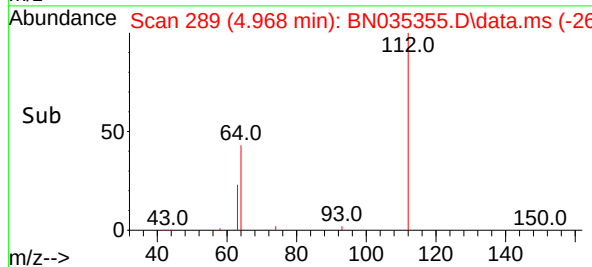
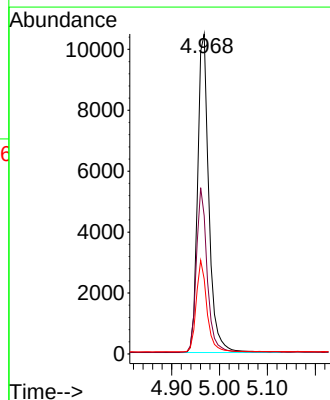
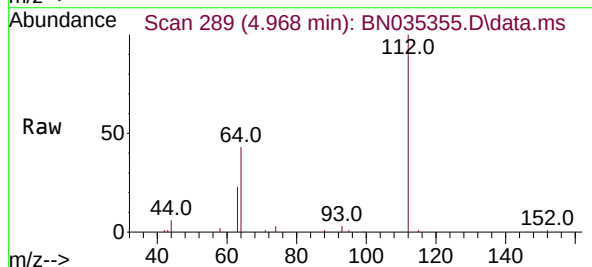
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

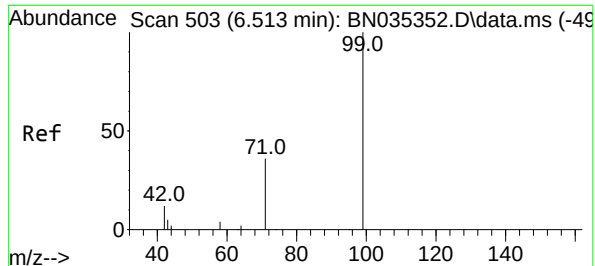
Tgt Ion: 42 Resp: 5524
Ion Ratio Lower Upper
42 100
74 162.0 124.9 187.3
44 6.4 2.2 3.4#



#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

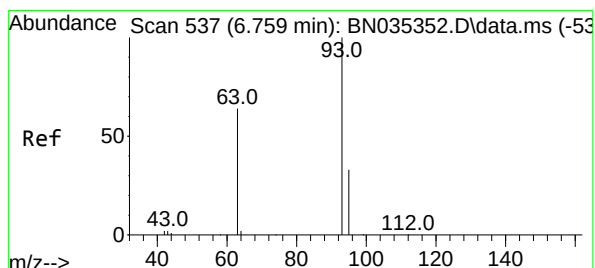
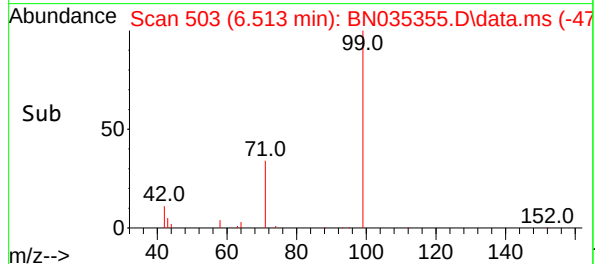
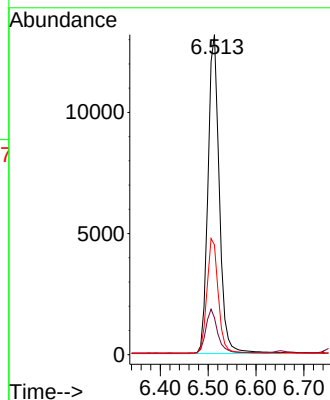
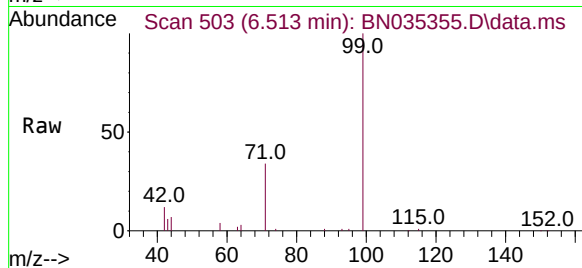




#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

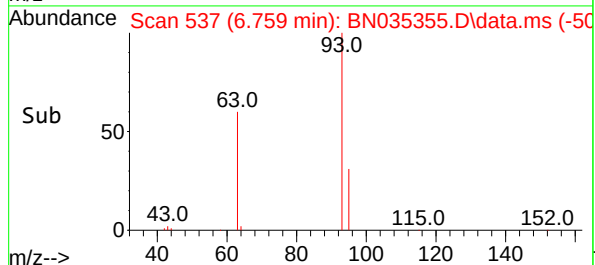
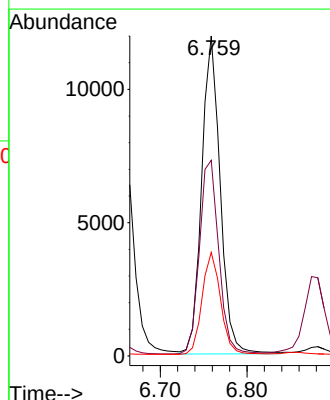
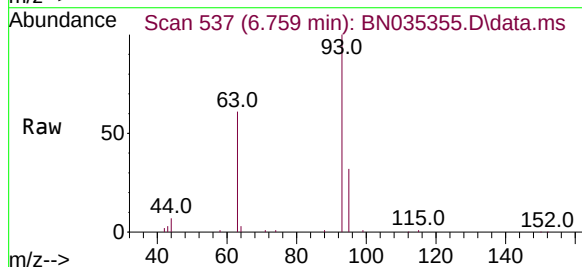
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

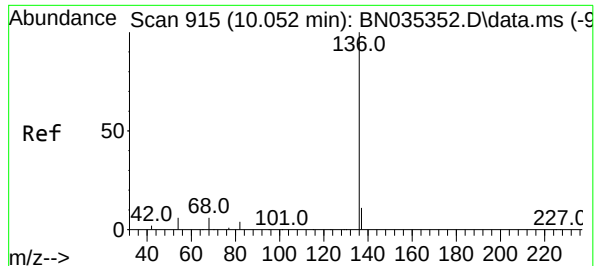
Tgt Ion: 99 Resp: 21633
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 36.5 29.3 43.9



#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

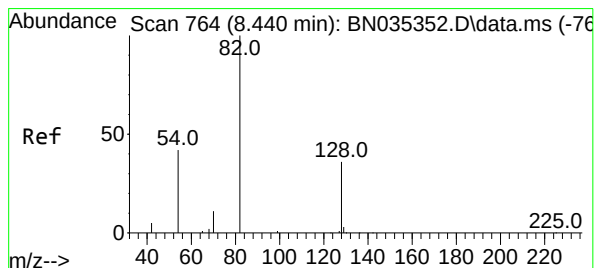
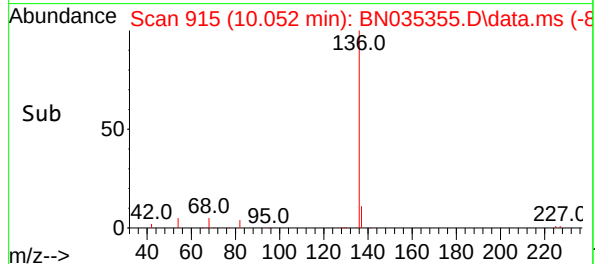
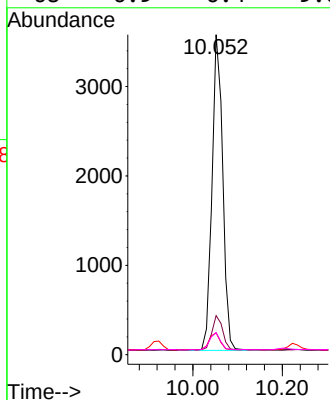
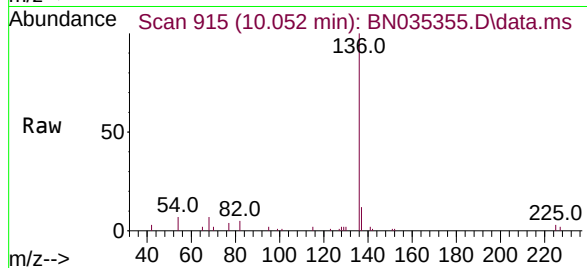




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

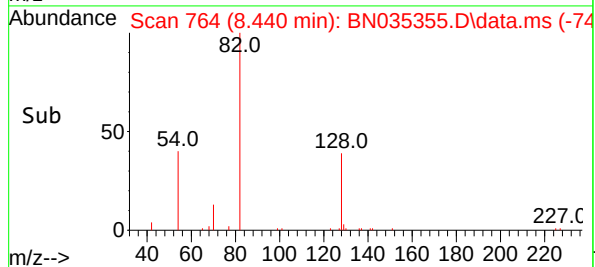
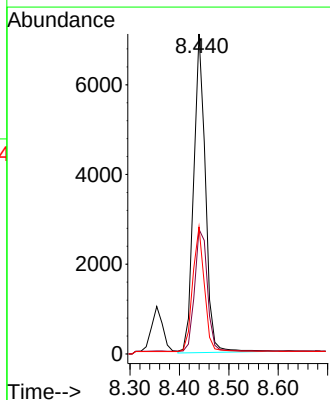
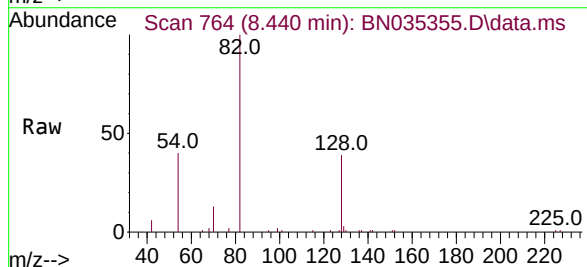
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BNA_N
ClientSampleId :
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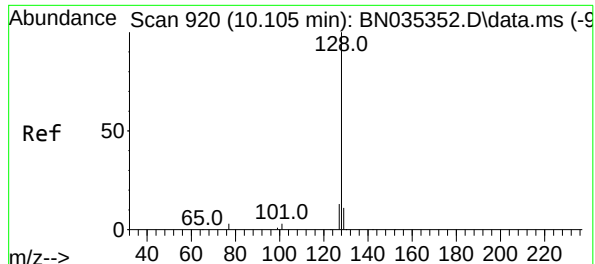
Tgt Ion:	136	Resp:	5857
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	6.9	6.4	9.6



#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

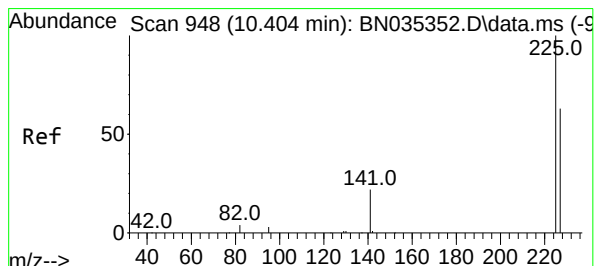
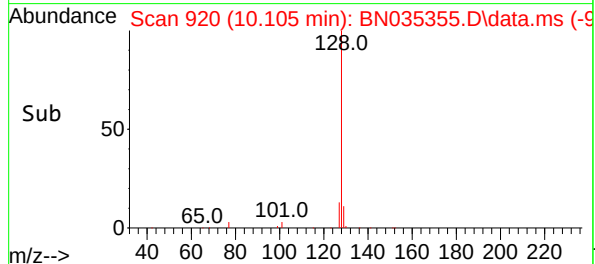
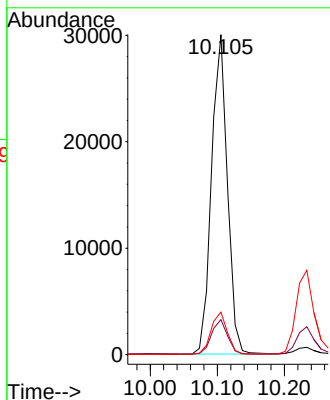
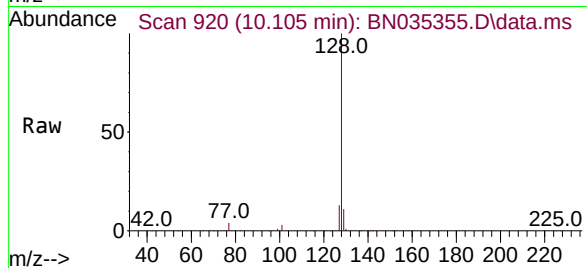




#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

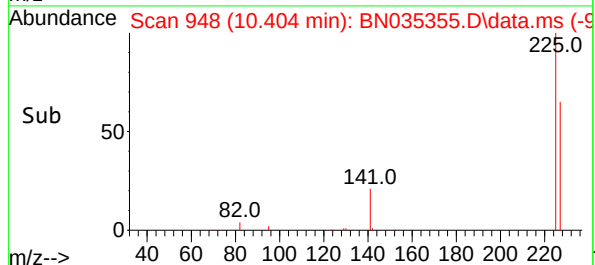
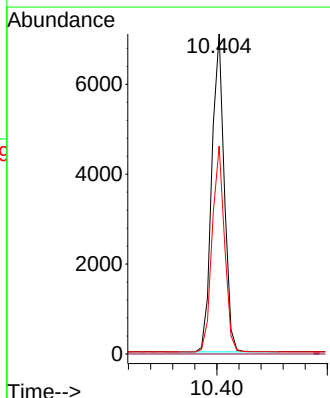
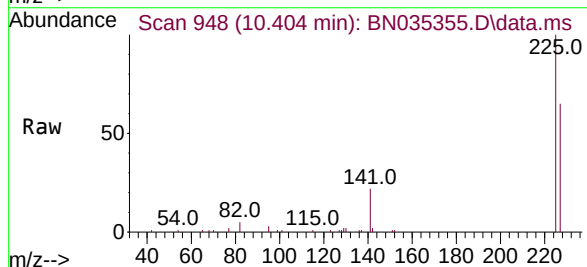
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ClientSampleId :
SSTDICC3.2

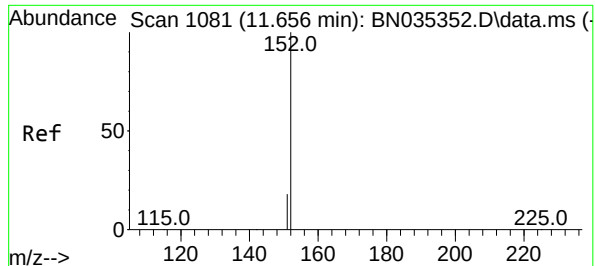
Tgt Ion:128 Resp: 49151
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.6
127 13.3 11.4 17.2



#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

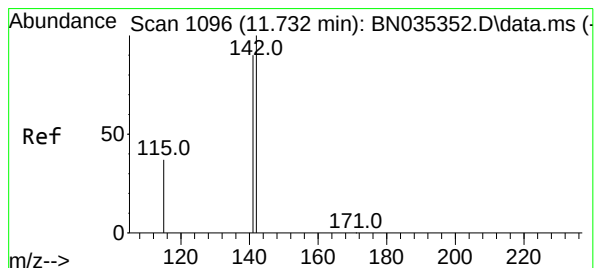
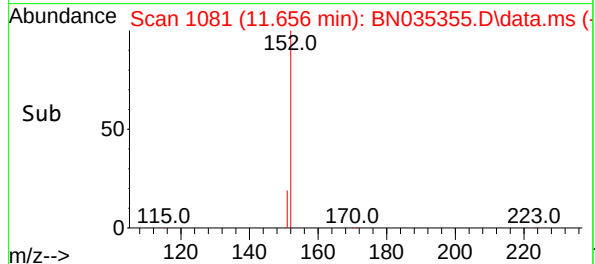
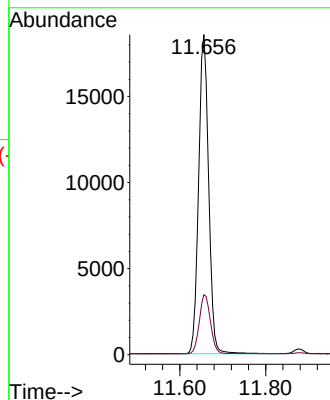
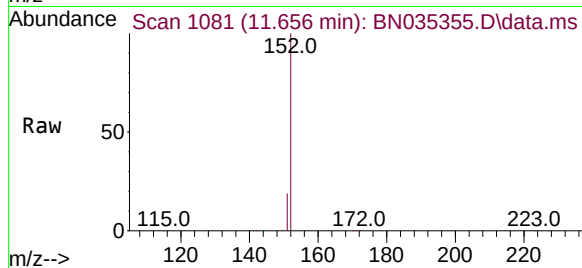




#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

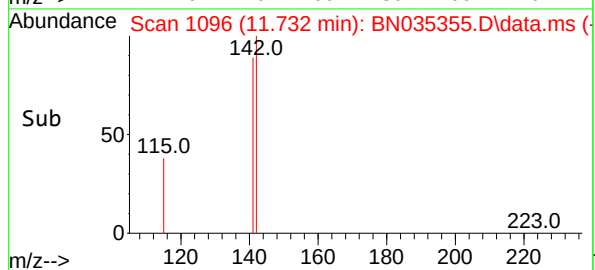
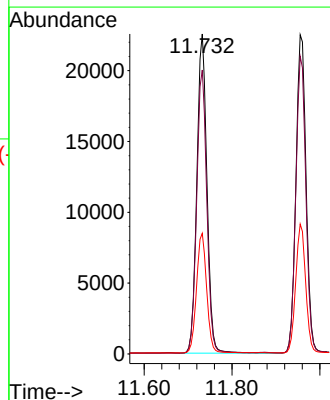
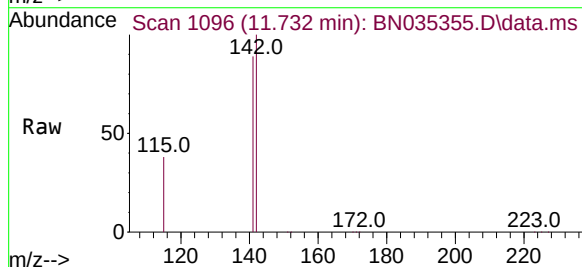
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

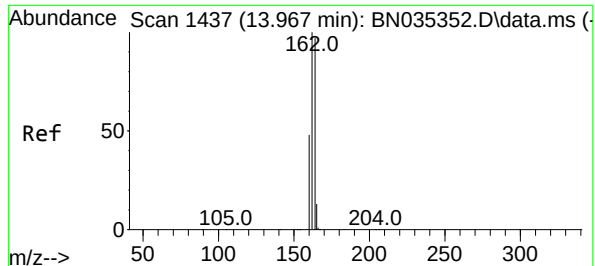
Tgt Ion:152 Resp: 29957
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#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

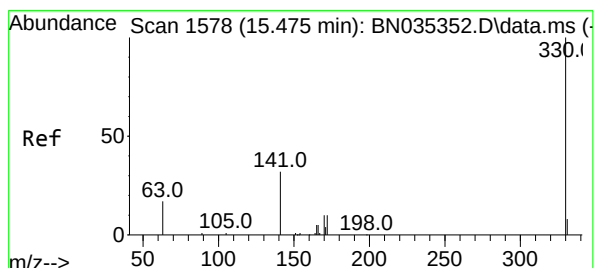
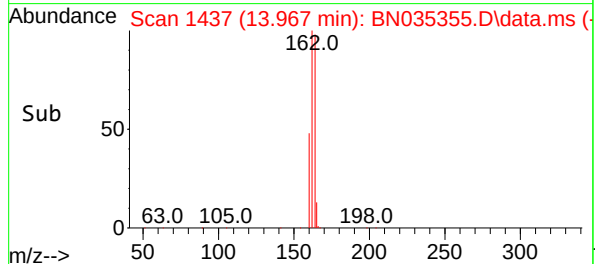
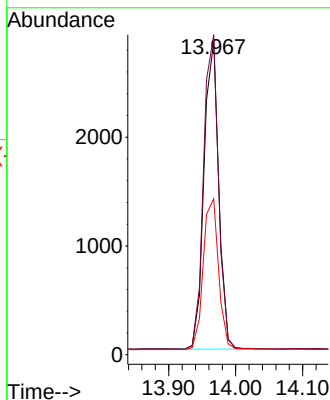
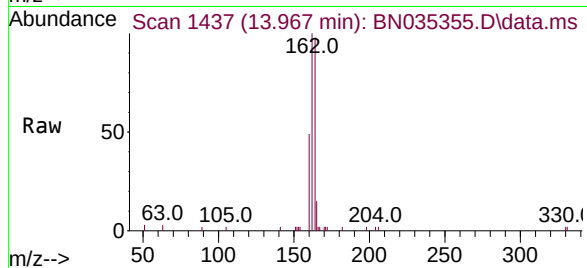




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

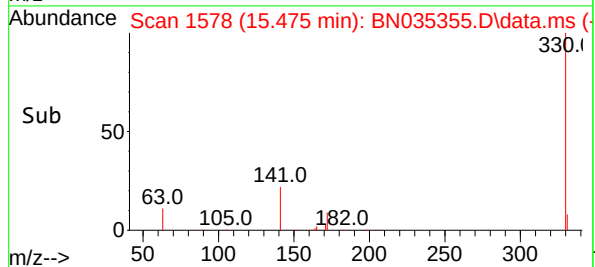
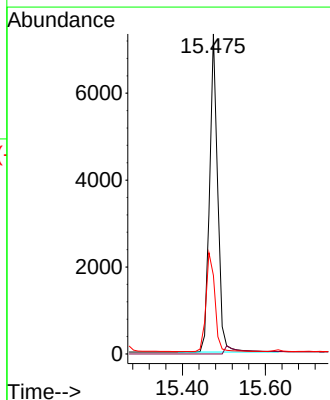
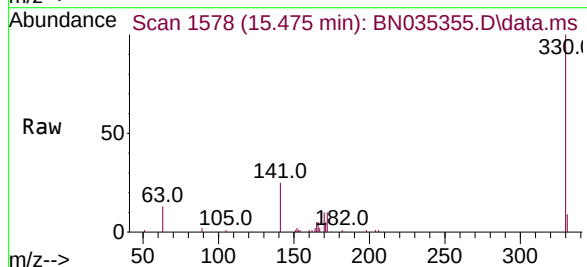
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

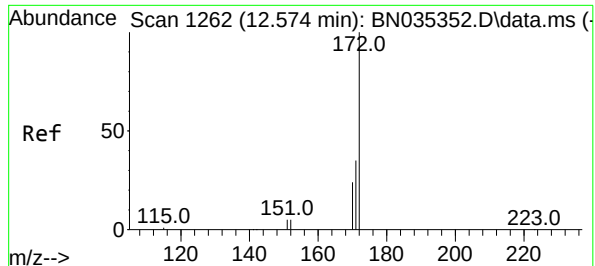
Tgt Ion:164 Resp: 4307
Ion Ratio Lower Upper
164 100
162 102.0 82.2 123.2
160 49.7 40.1 60.1



#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# 11

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

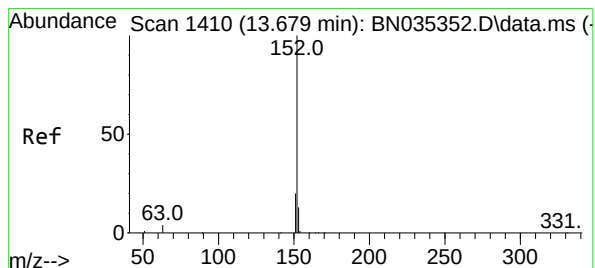
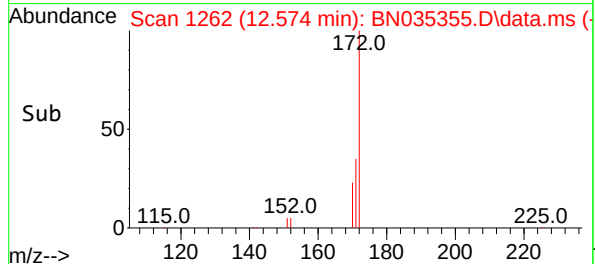
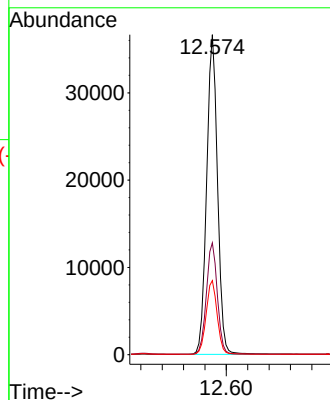
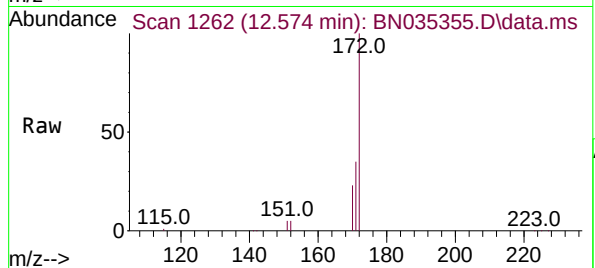
Tgt Ion:172 Resp: 52048

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

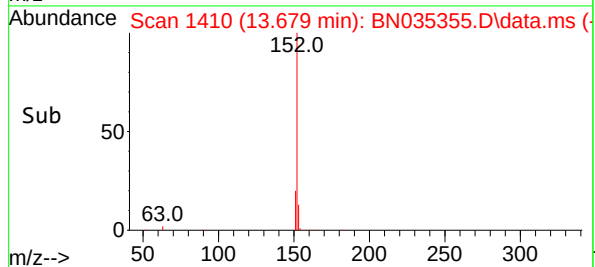
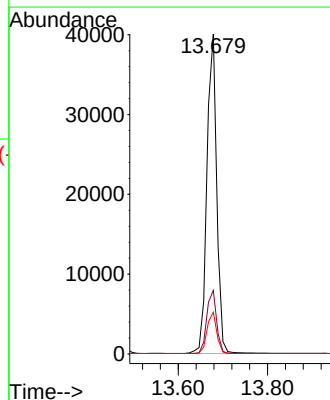
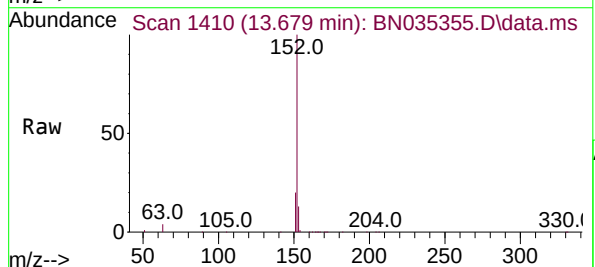
Tgt Ion:152 Resp: 60734

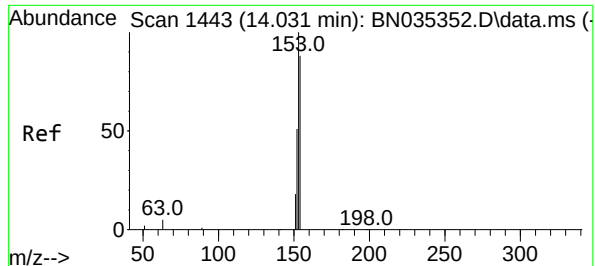
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

153 12.9 10.4 15.6

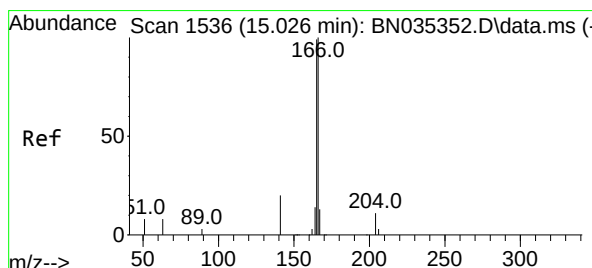
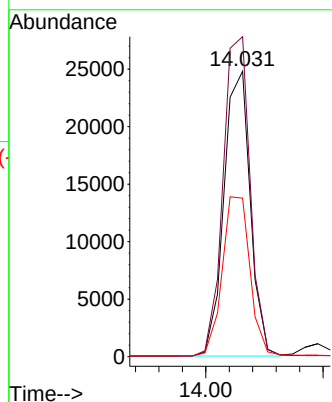
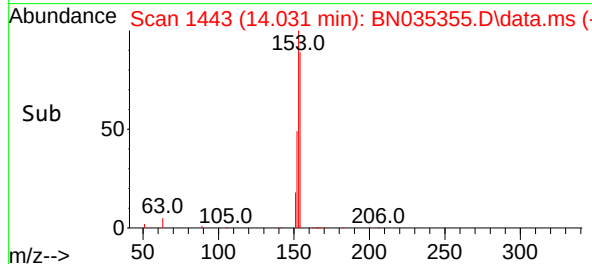
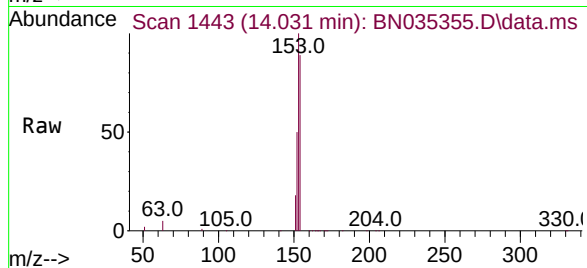




#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

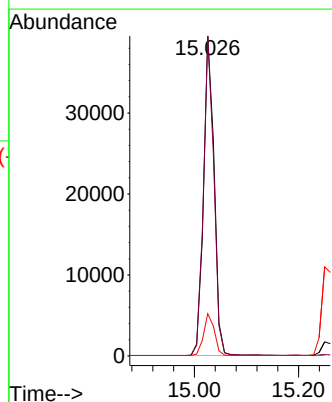
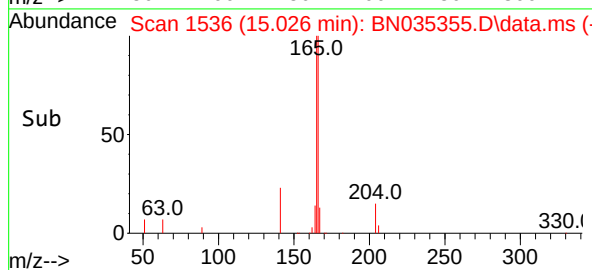
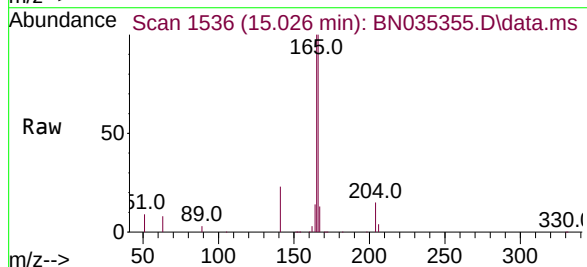
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

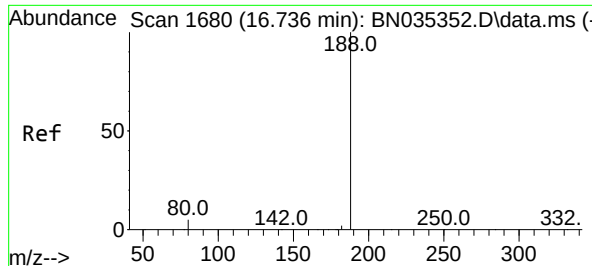
Tgt Ion:154 Resp: 38676
Ion Ratio Lower Upper
154 100
153 115.5 92.6 139.0
152 59.2 49.0 73.6



#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

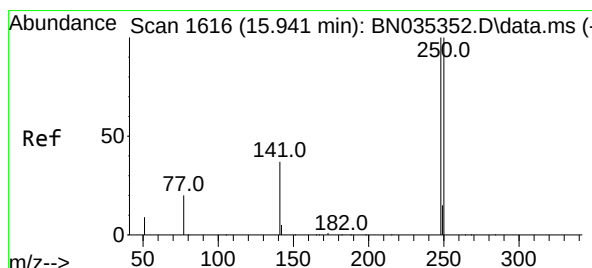
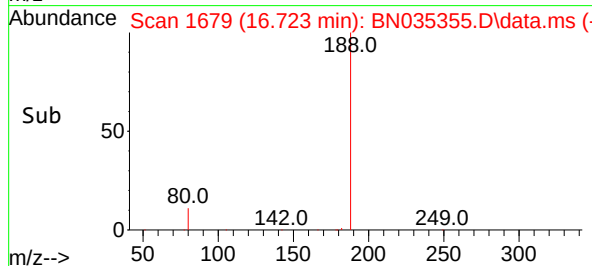
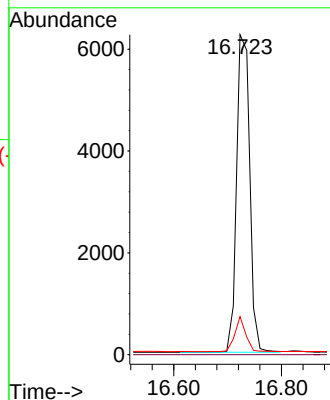
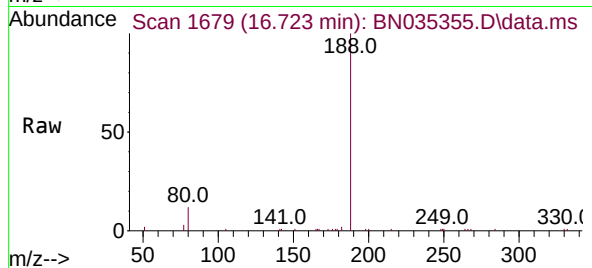
Tgt Ion:188 Resp: 10513

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

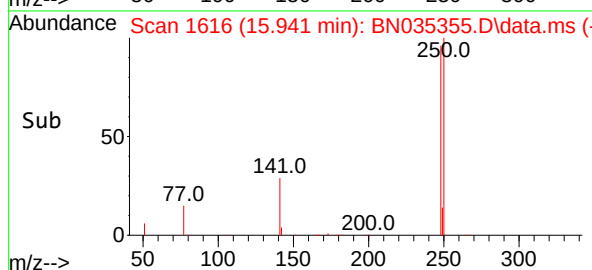
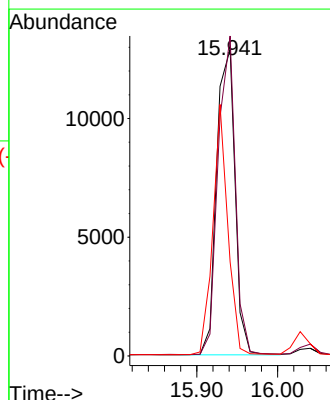
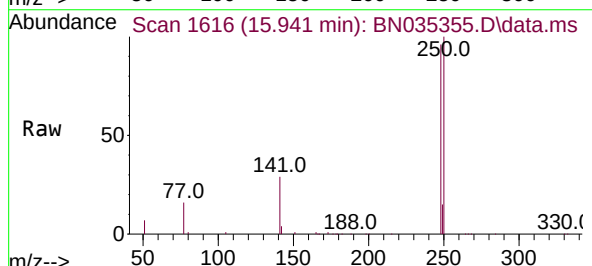
Tgt Ion:248 Resp: 20321

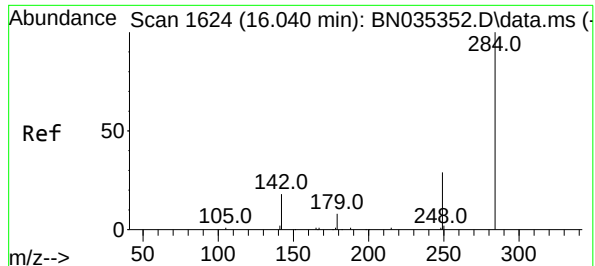
Ion Ratio Lower Upper

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# 1624

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

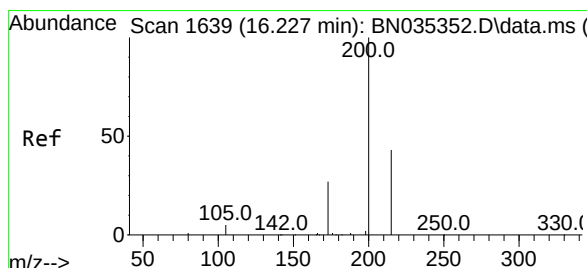
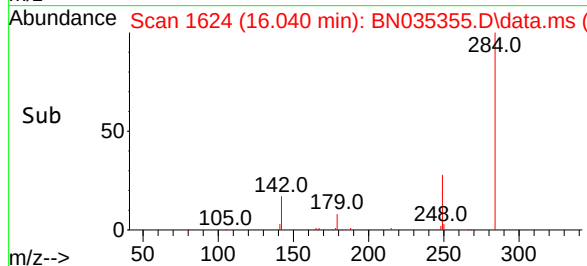
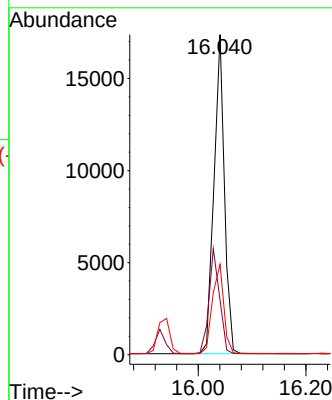
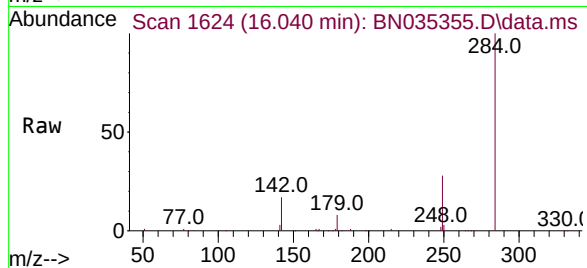
Tgt Ion:284 Resp: 23349

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

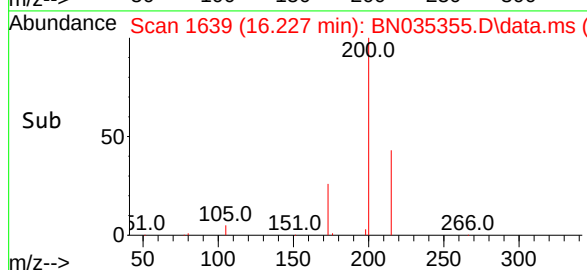
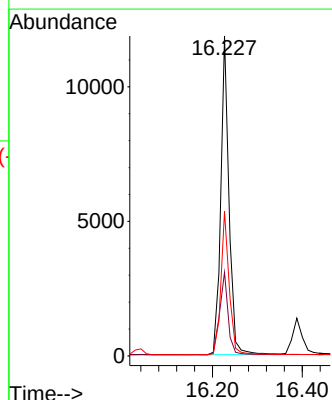
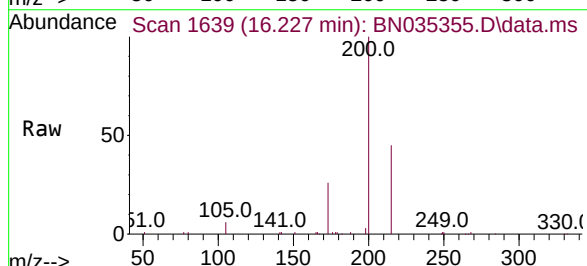
Tgt Ion:200 Resp: 15072

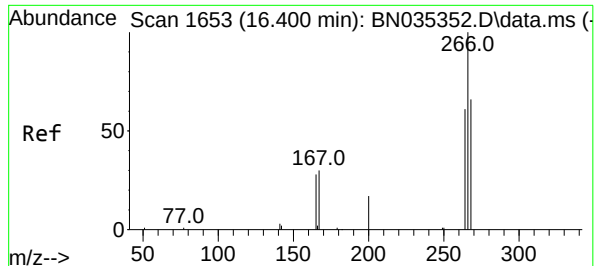
Ion Ratio Lower Upper

200 100

173 26.2 24.1 36.1

215 45.1 36.9 55.3

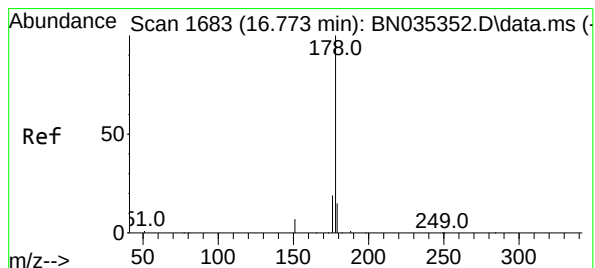
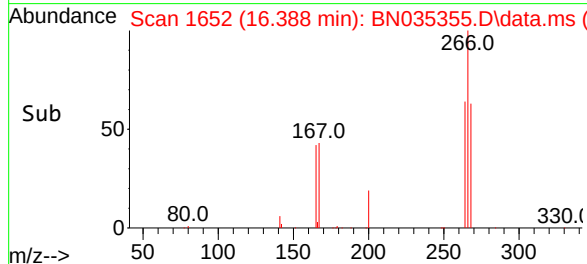
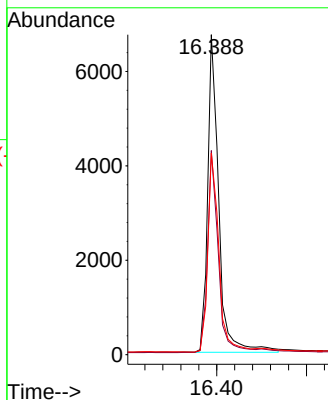
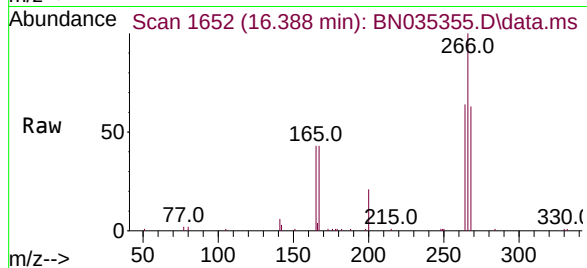




#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

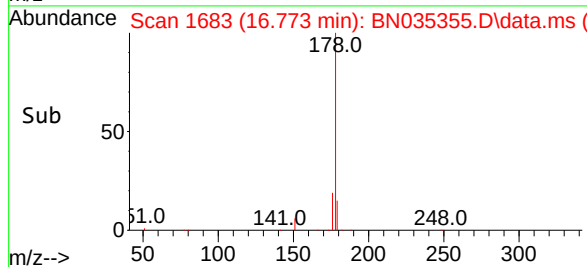
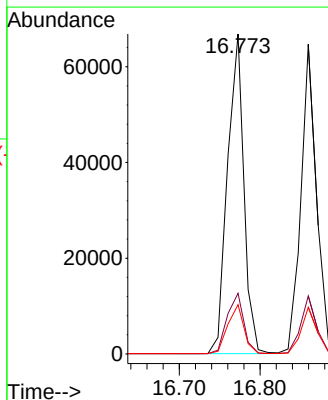
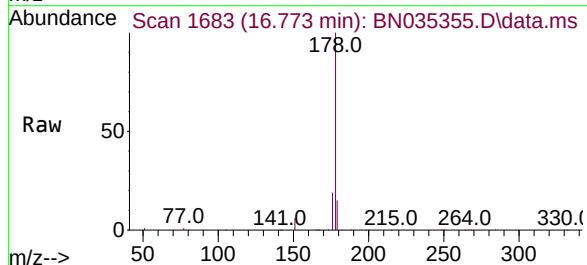
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

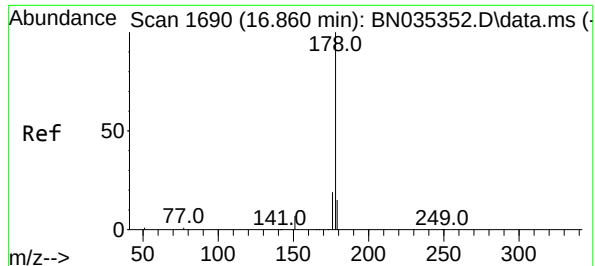
Tgt Ion:266 Resp: 11439
Ion Ratio Lower Upper
266 100
264 62.6 42.3 63.5
268 64.4 43.3 64.9



#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

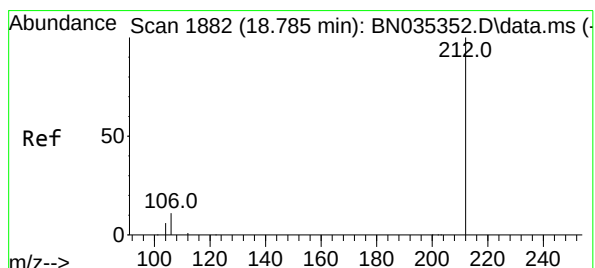
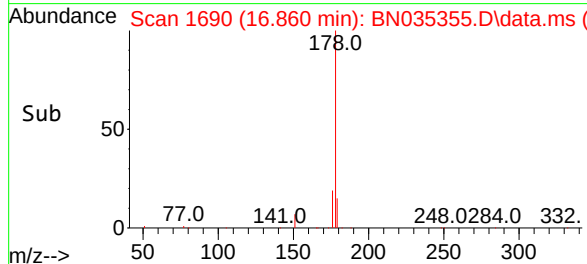
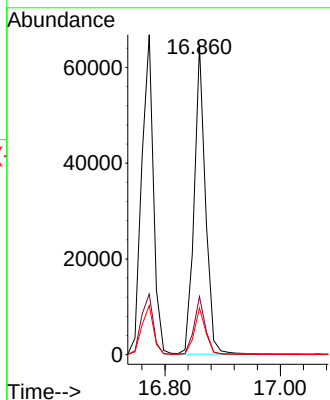
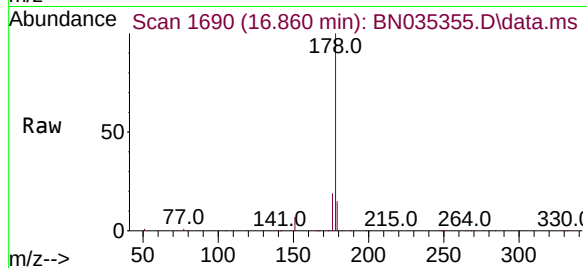




#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

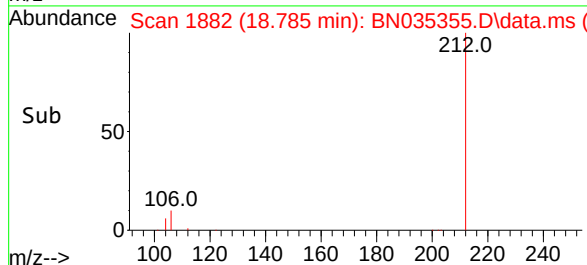
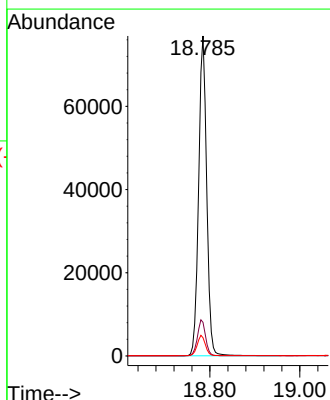
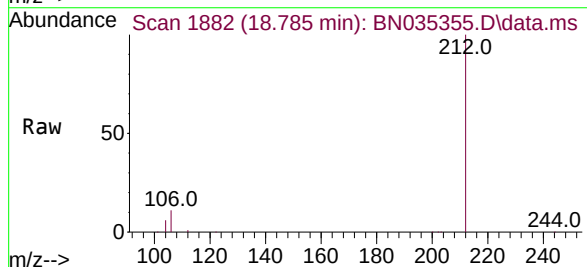
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

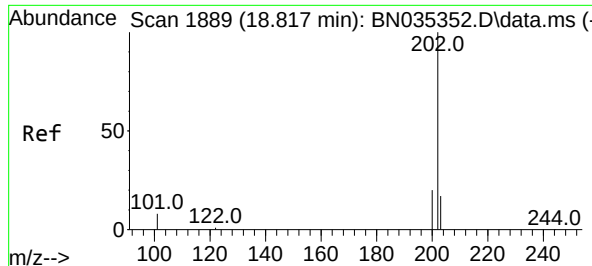
Tgt Ion:178 Resp: 87657
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.6 18.8



#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

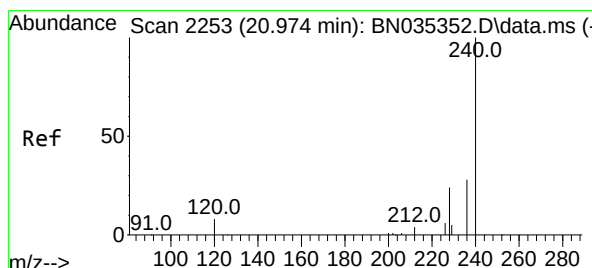
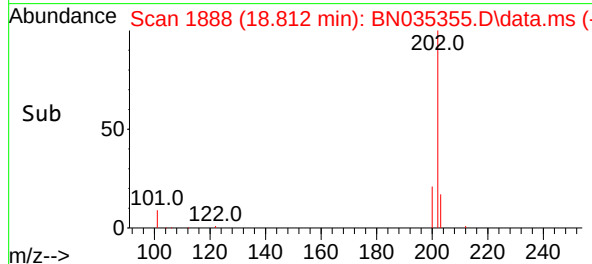
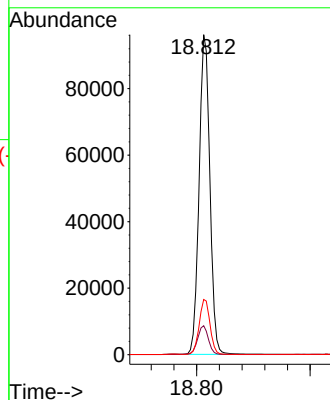
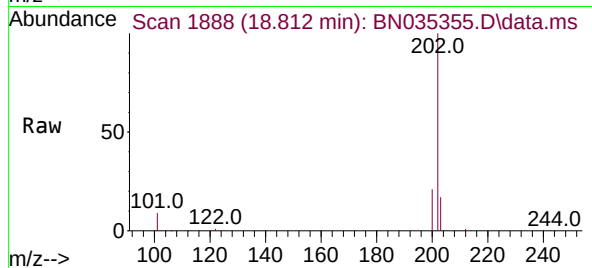




#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

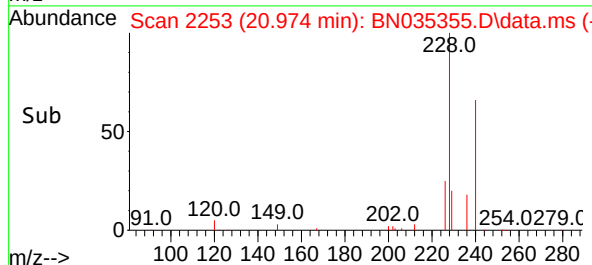
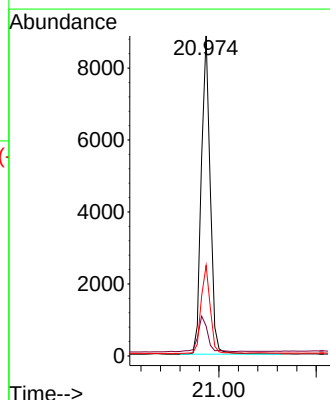
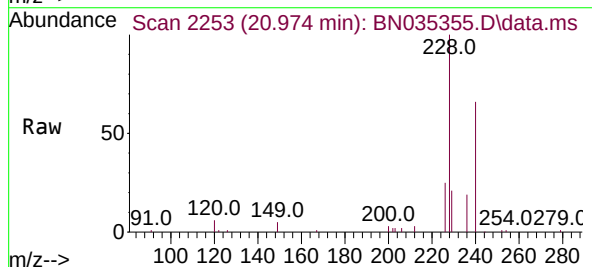
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

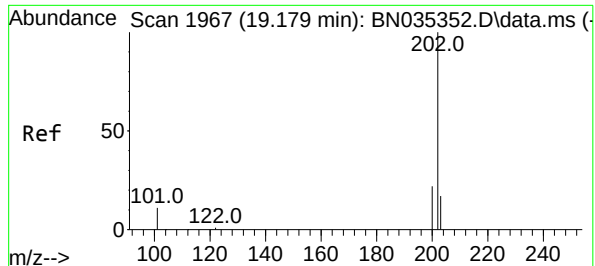
Tgt Ion:202 Resp: 125901
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.3 13.7 20.5



#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# 1967

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

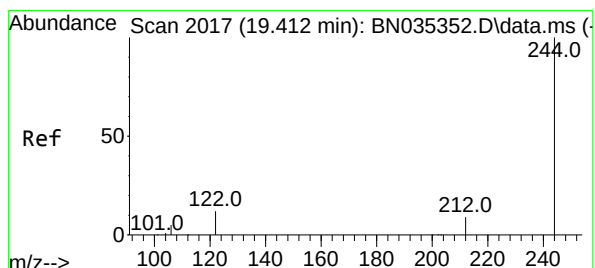
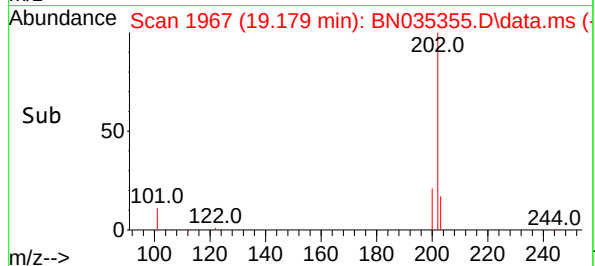
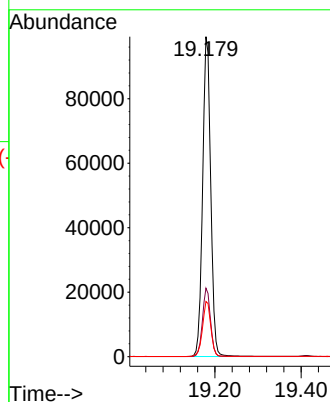
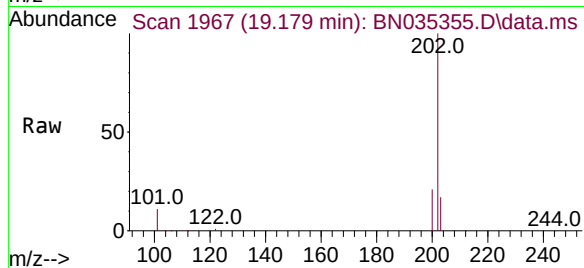
Tgt Ion:202 Resp: 129105

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

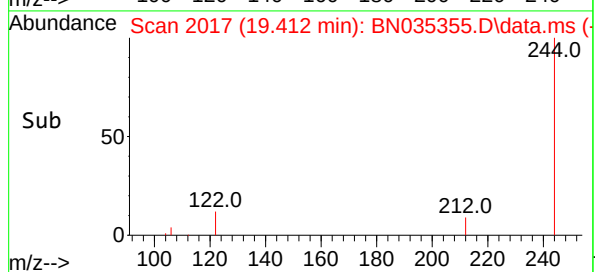
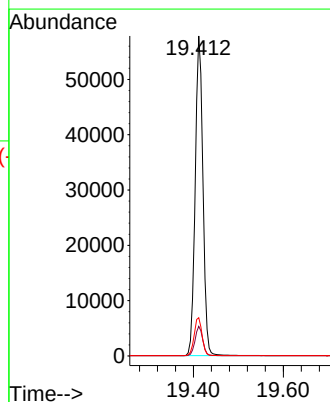
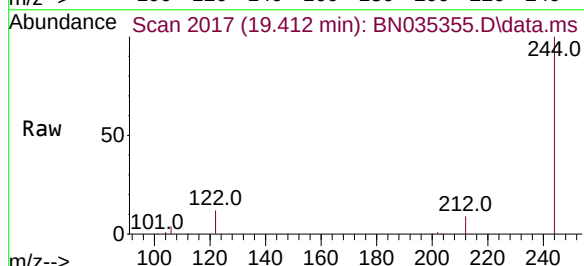
Tgt Ion:244 Resp: 69164

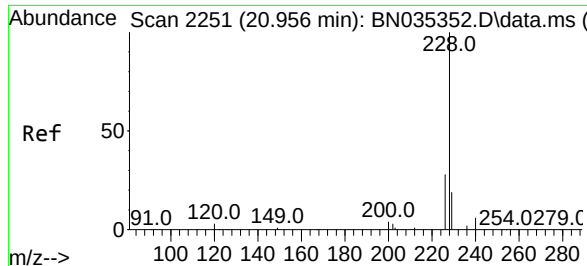
Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.0 10.3 15.5

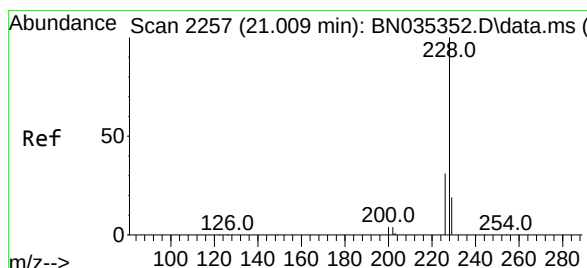
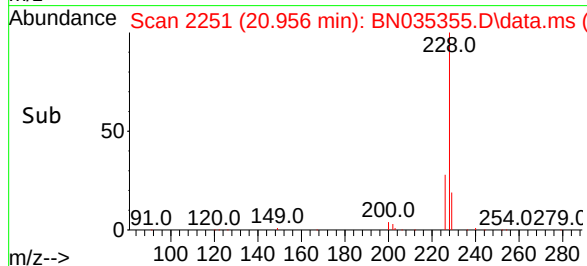
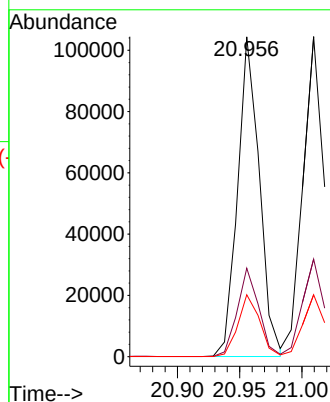
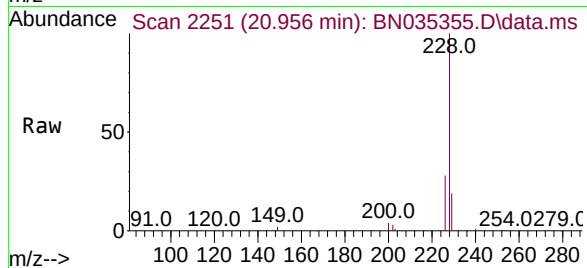




#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

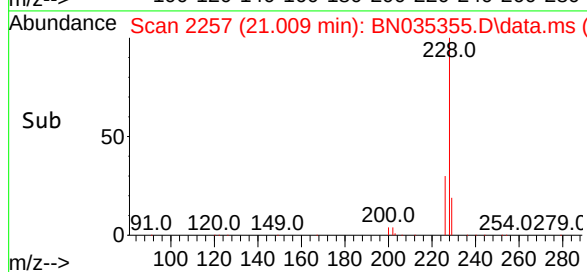
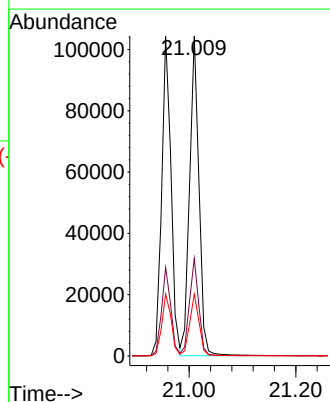
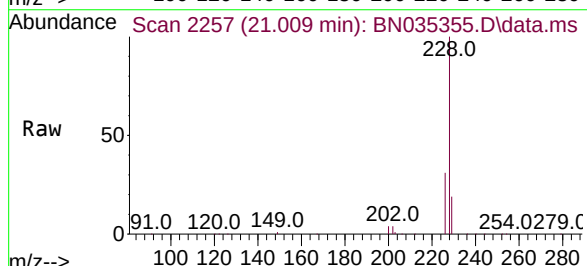
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

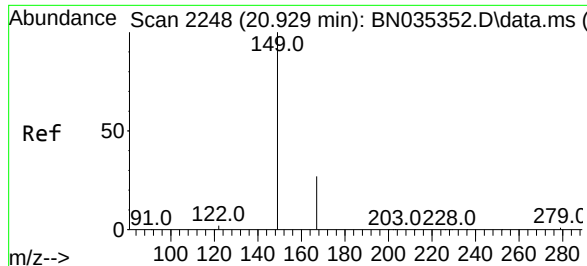
Tgt Ion:228 Resp: 126517
Ion Ratio Lower Upper
228 100
226 27.6 22.5 33.7
229 19.4 15.8 23.8



#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

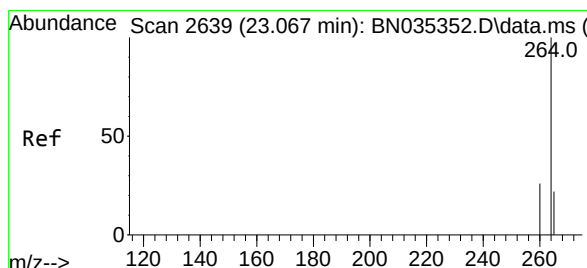
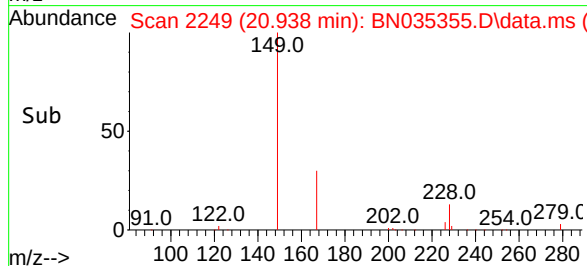
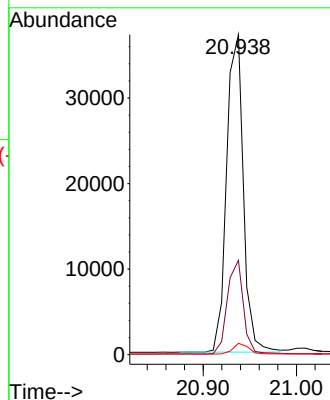
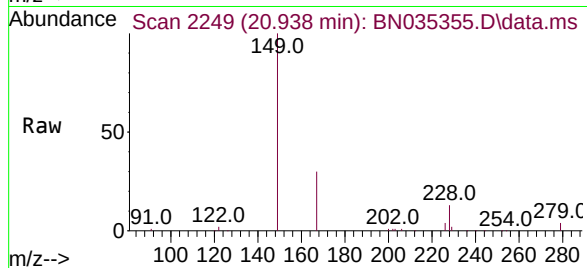




#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

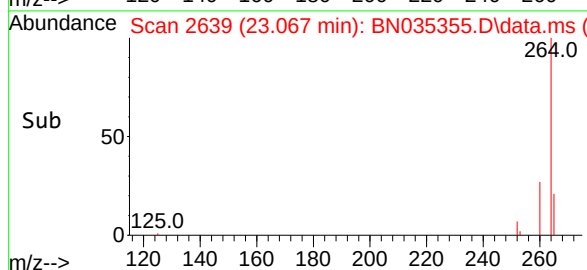
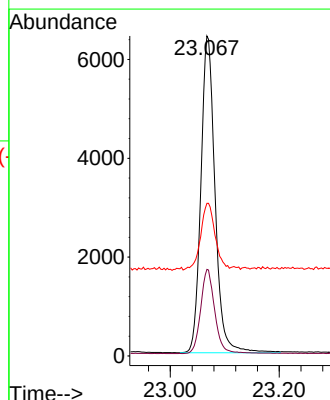
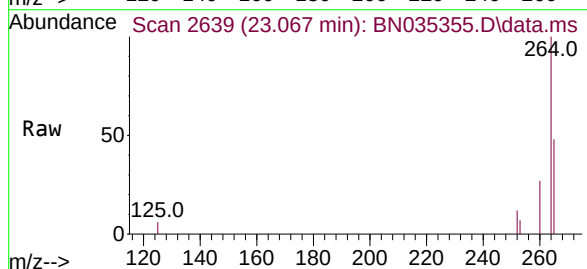
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

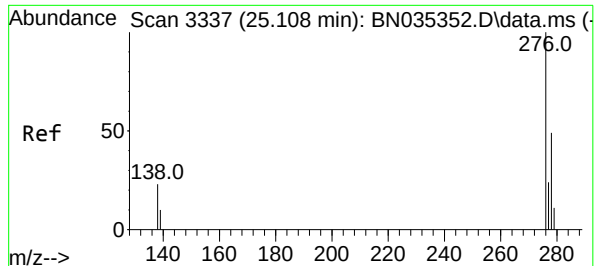
Tgt Ion:149 Resp: 46251
Ion Ratio Lower Upper
149 100
167 28.3 22.2 33.4
279 3.2 2.7 4.1



#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# 31

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

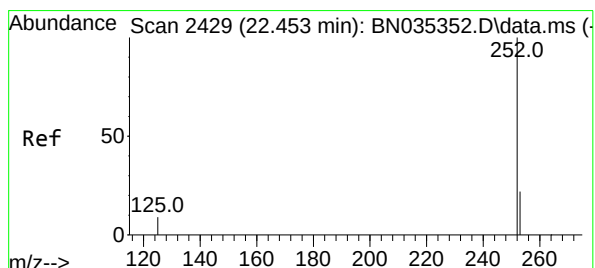
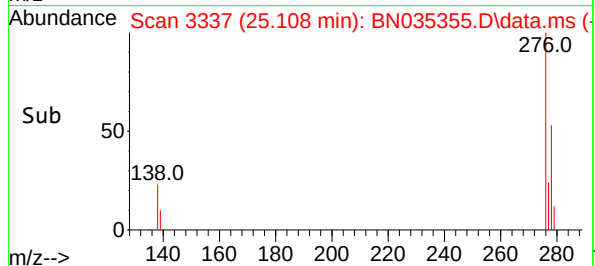
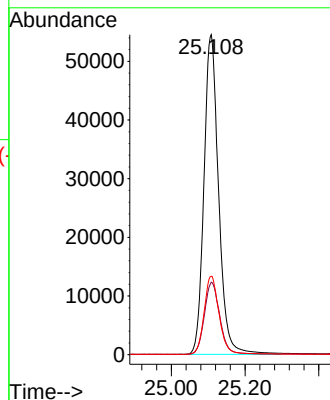
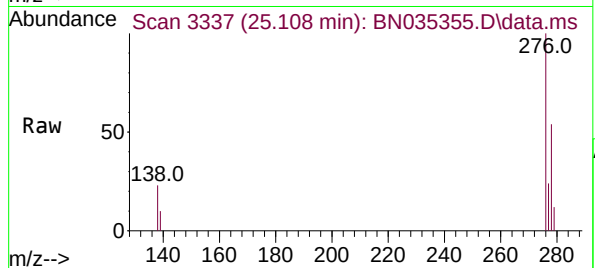
Tgt Ion:276 Resp: 150433

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

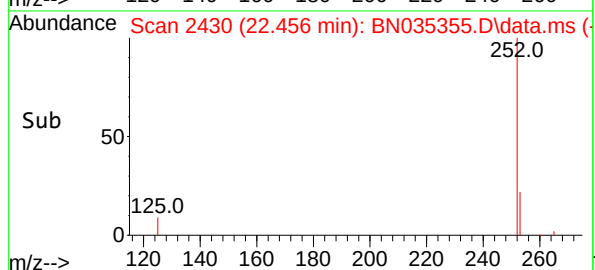
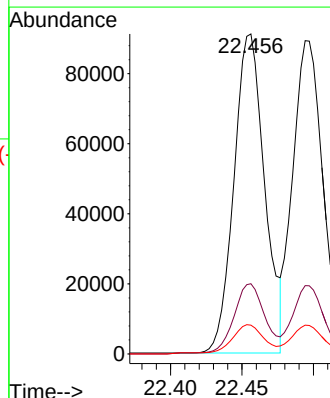
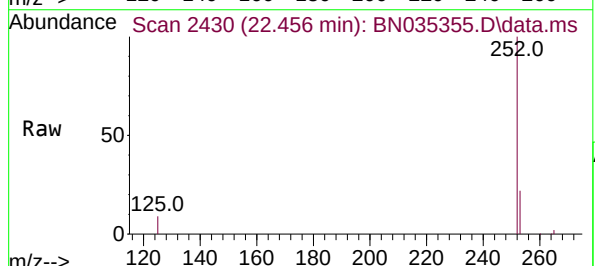
Tgt Ion:252 Resp: 136261

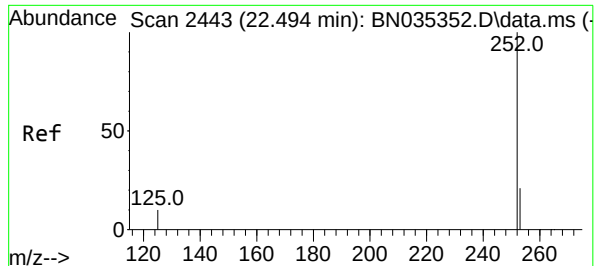
Ion Ratio Lower Upper

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# 2443

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

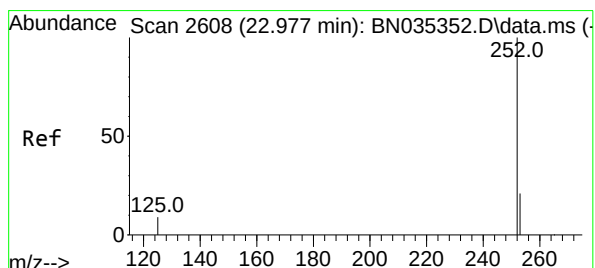
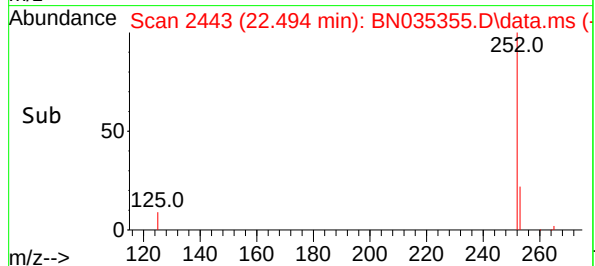
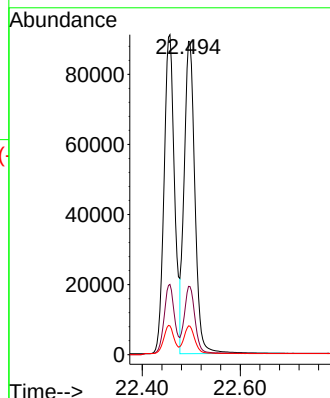
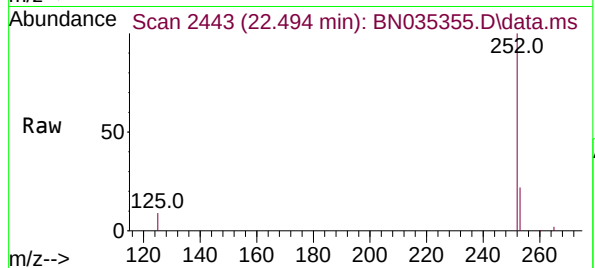
Tgt Ion:252 Resp: 134789

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

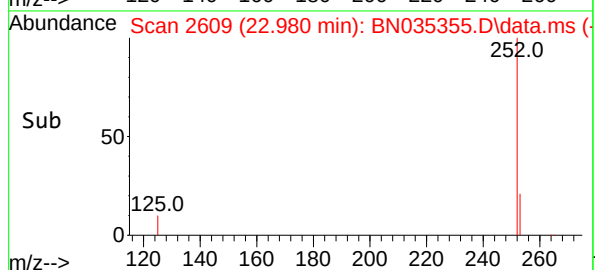
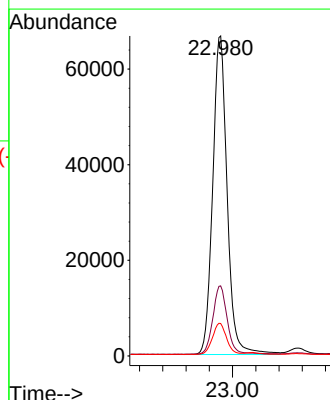
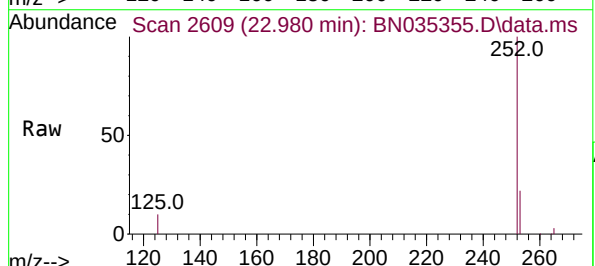
Tgt Ion:252 Resp: 114719

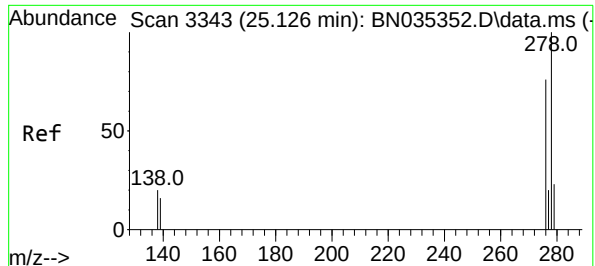
Ion Ratio Lower Upper

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# 31

Delta R.T. -0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

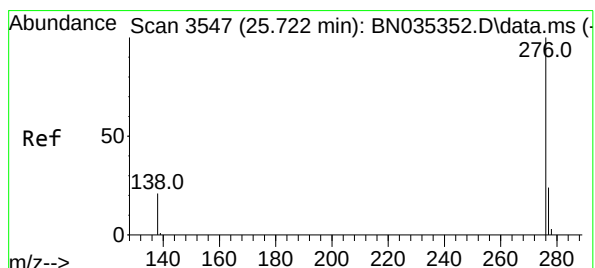
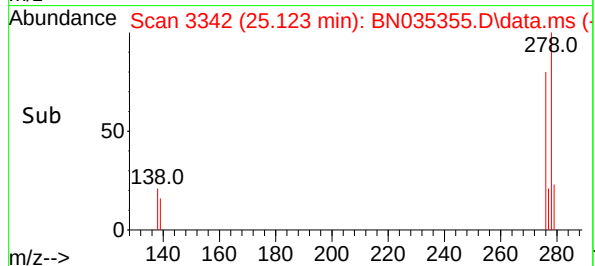
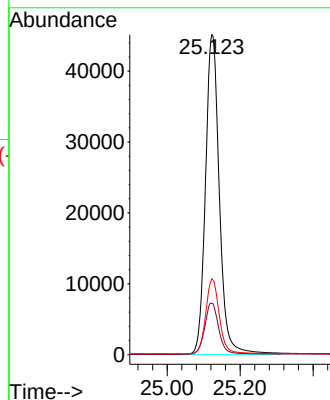
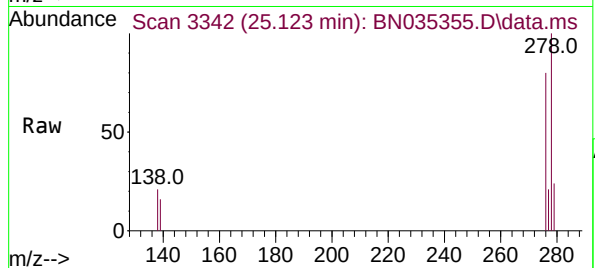
Tgt Ion:278 Resp: 119216

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

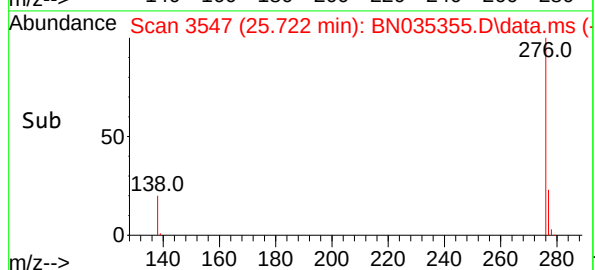
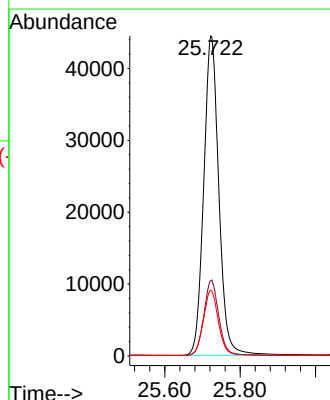
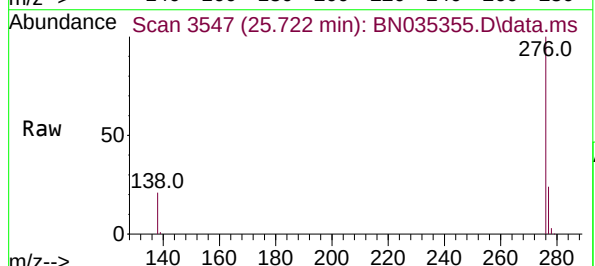
Tgt Ion:276 Resp: 123841

Ion Ratio Lower Upper

276 100

277 23.6 19.9 29.9

138 20.6 17.8 26.8



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

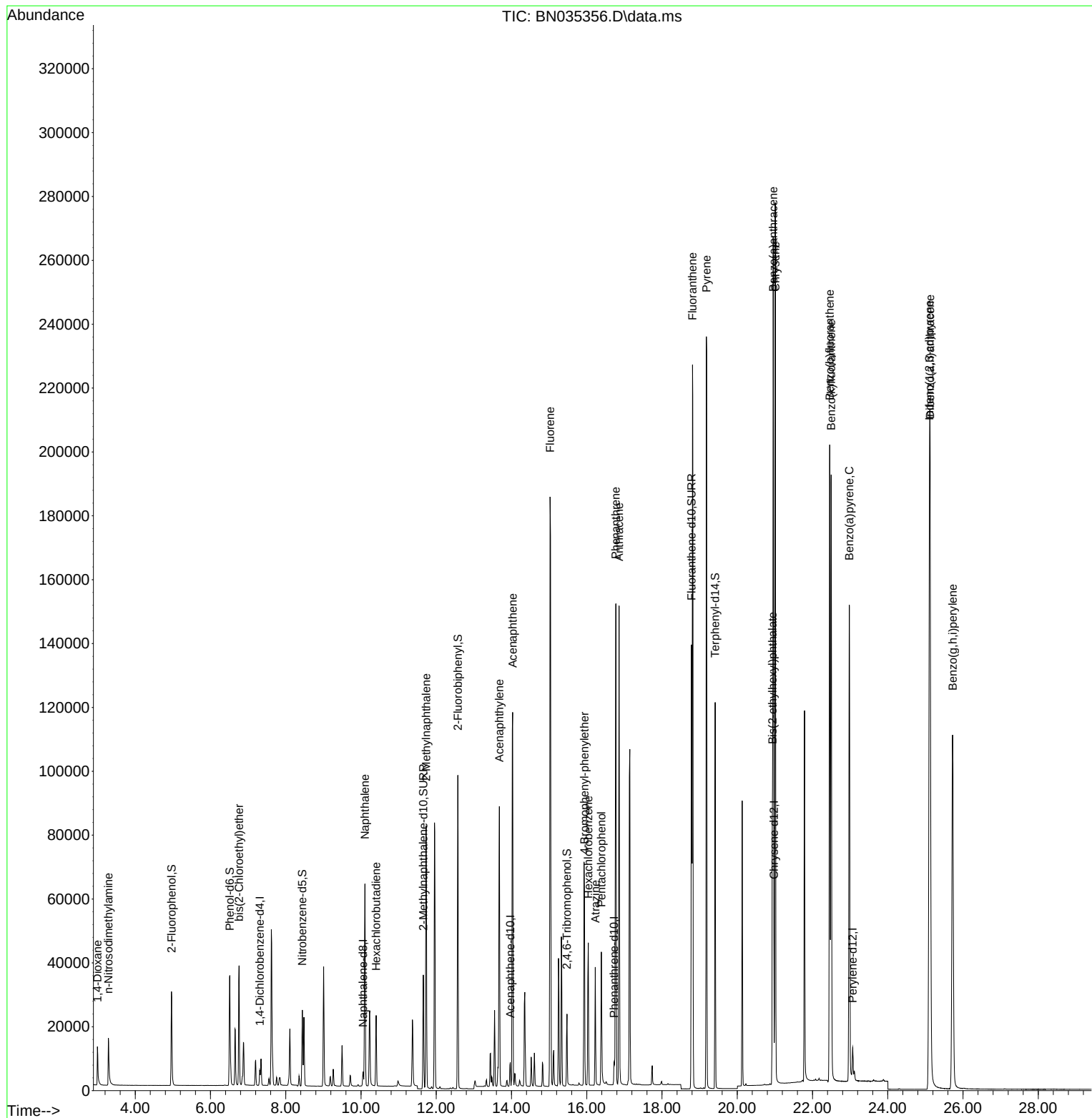
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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						
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

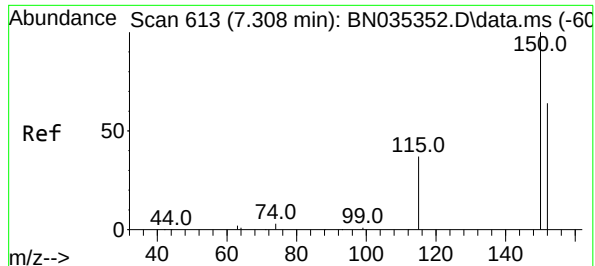
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

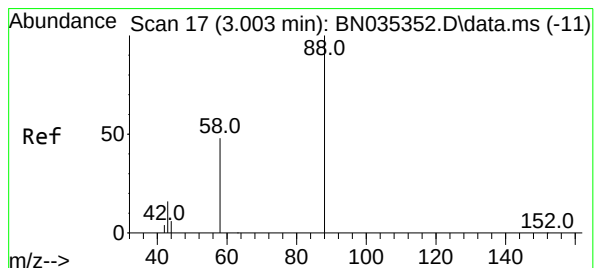
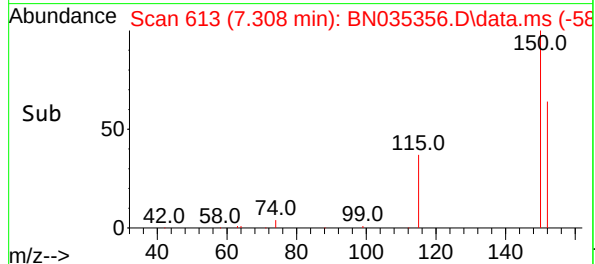
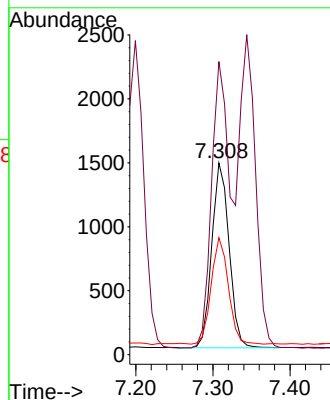
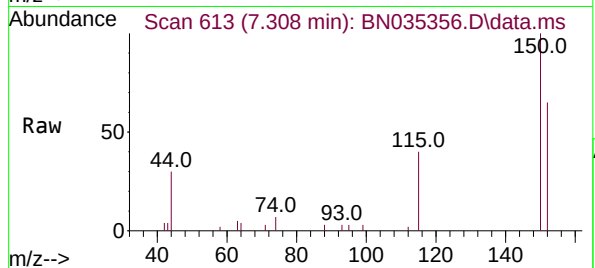




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

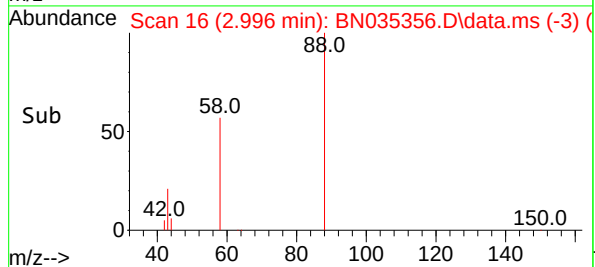
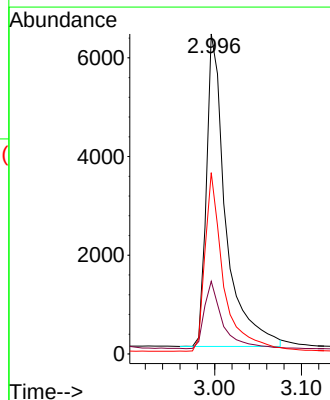
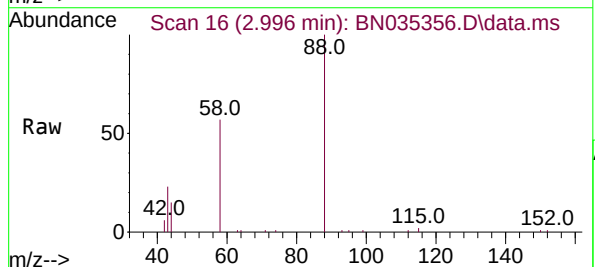
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

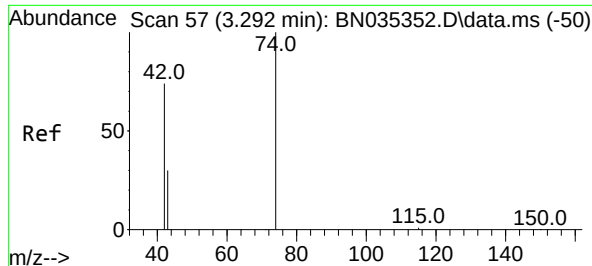
Tgt Ion:152 Resp: 2249
Ion Ratio Lower Upper
152 100
150 152.9 124.0 186.0
115 61.0 49.6 74.4



#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

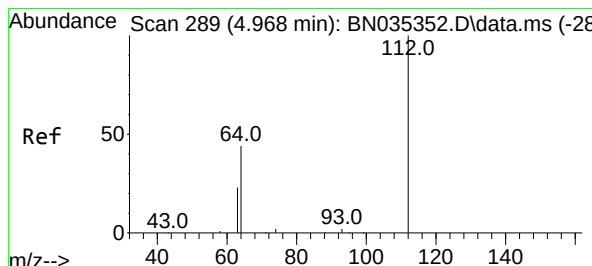
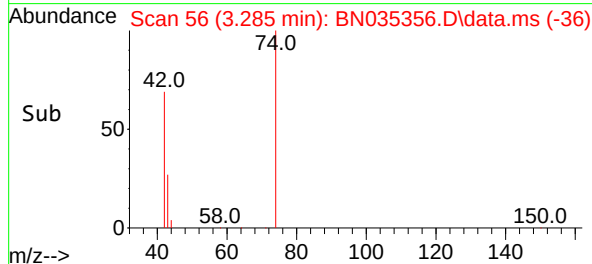
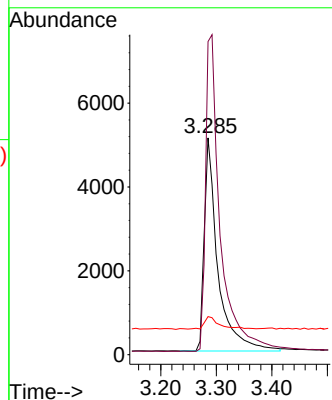
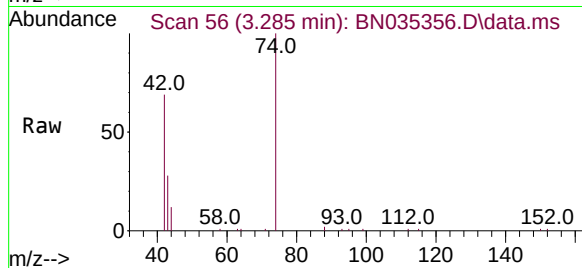




#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

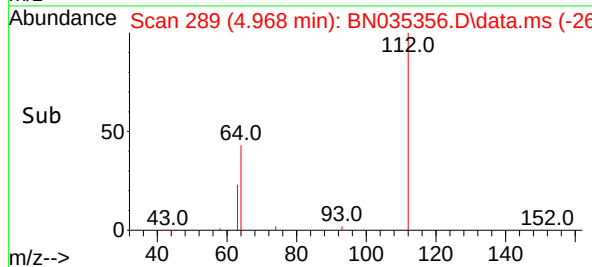
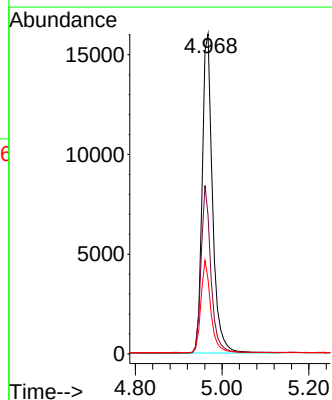
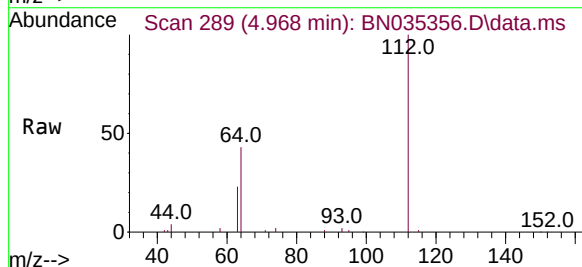
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

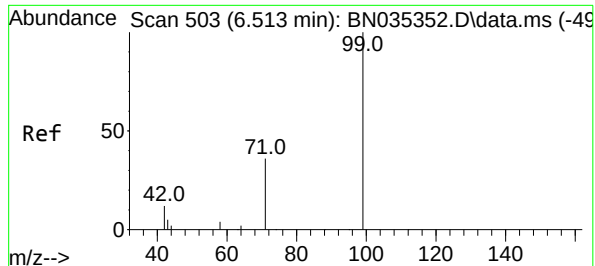
Tgt Ion: 42 Resp: 8681
Ion Ratio Lower Upper
42 100
74 161.2 124.9 187.3
44 6.7 2.2 3.4#



#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

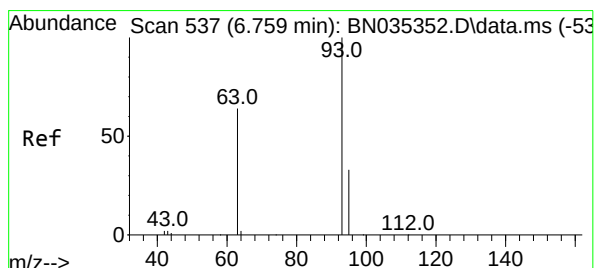
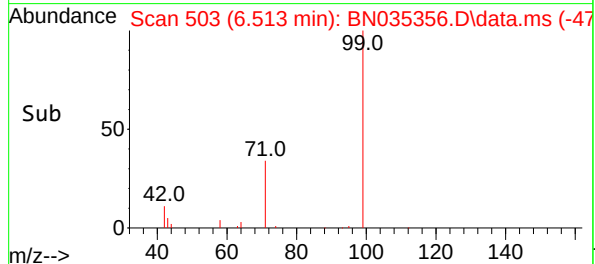
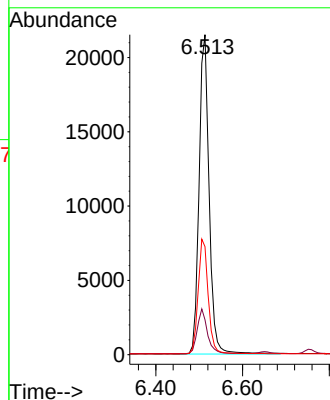
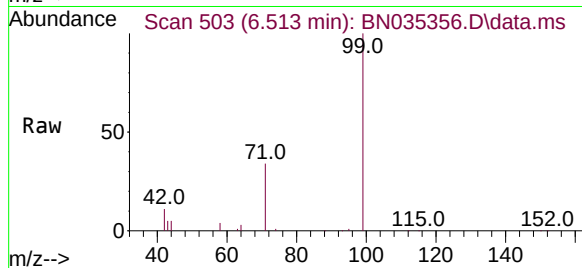




#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

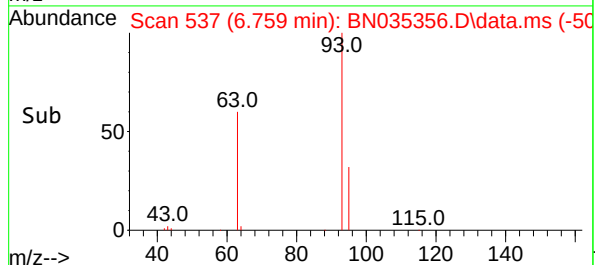
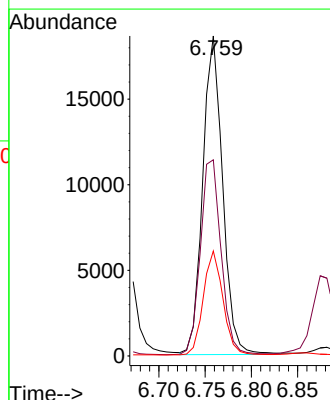
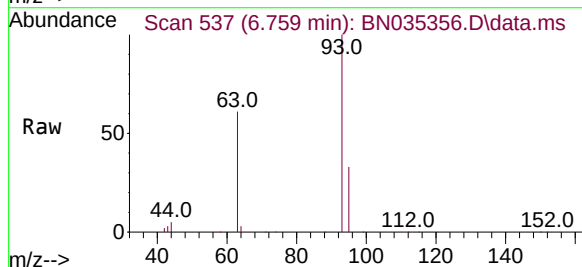
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

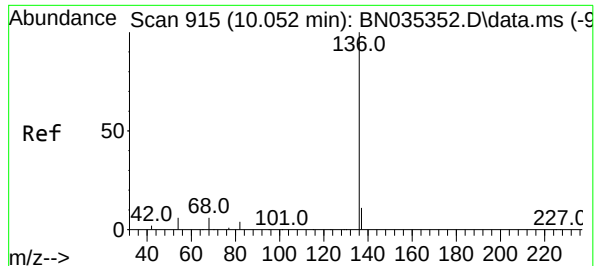
Tgt Ion: 99 Resp: 34560
Ion Ratio Lower Upper
99 100
42 14.1 11.4 17.2
71 36.4 29.3 43.9



#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# 915

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

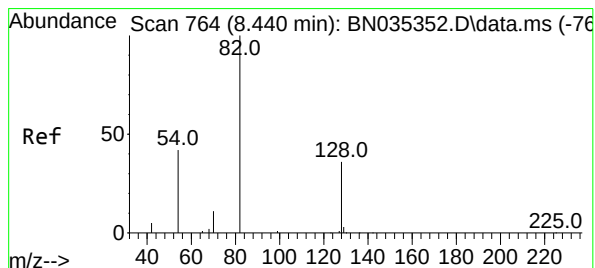
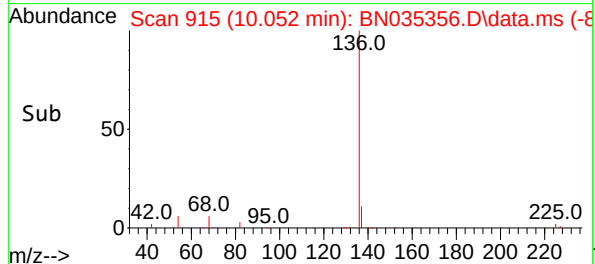
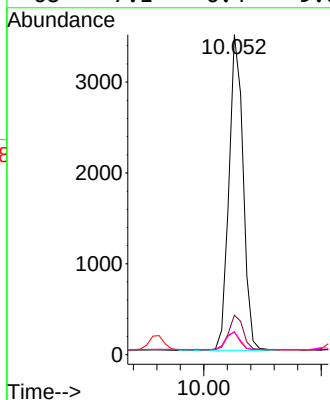
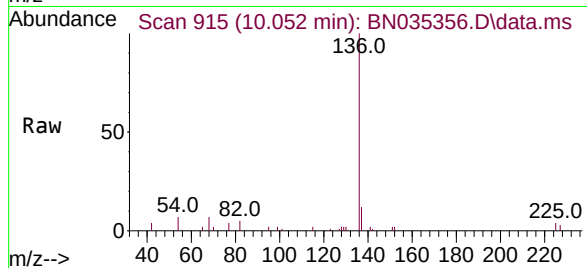
Ion Ratio Lower Upper

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

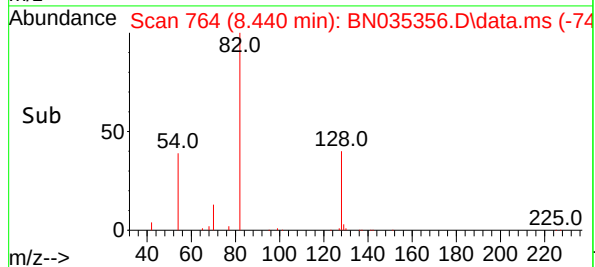
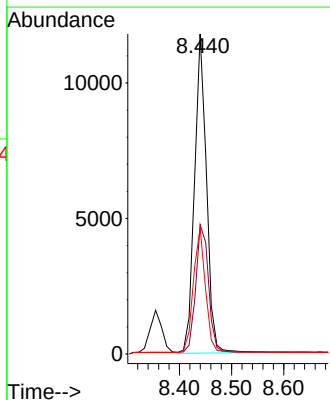
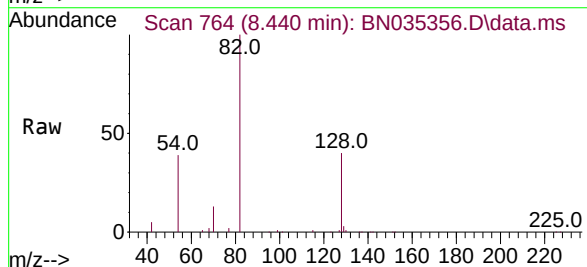
Tgt Ion: 82 Resp: 18911

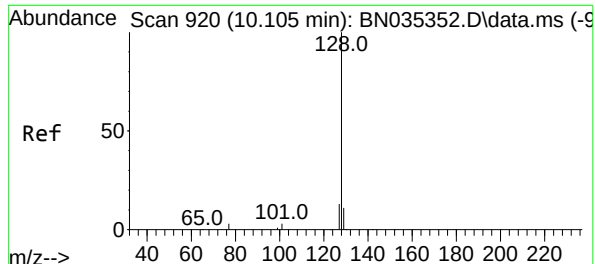
Ion Ratio Lower Upper

82 100

128 40.4 33.4 50.0

54 39.4 36.7 55.1

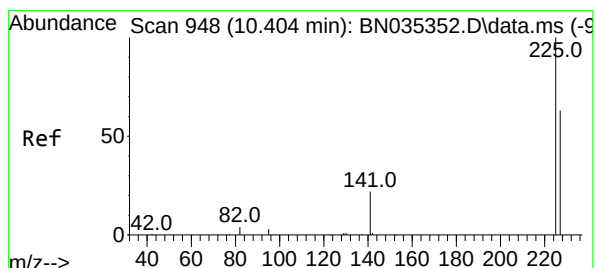
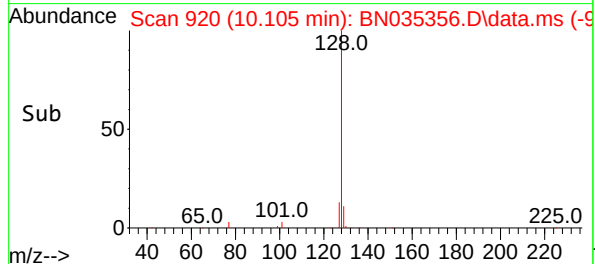
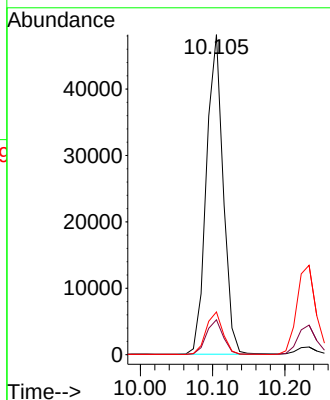
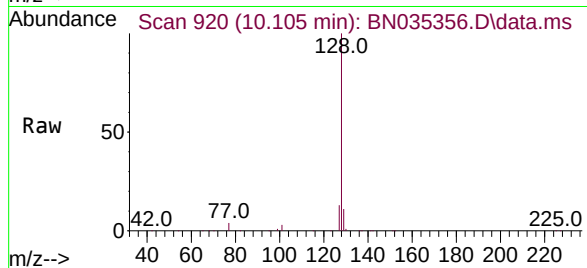




#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

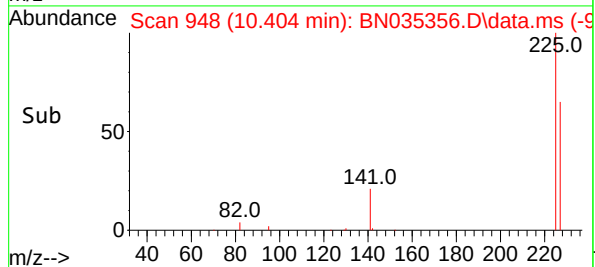
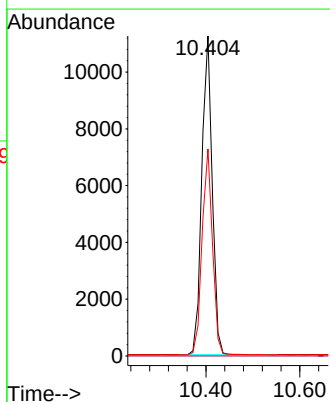
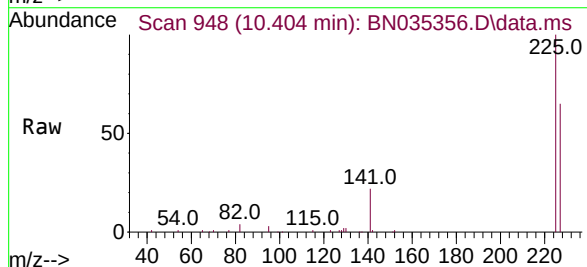
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

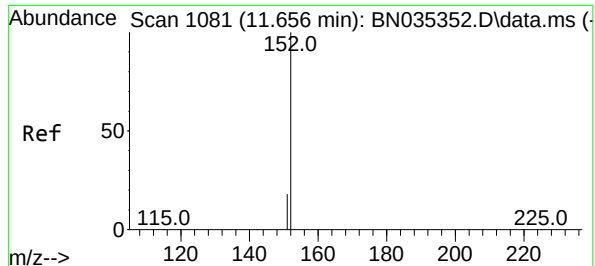
Tgt Ion:128 Resp: 77668
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.4 11.4 17.2



#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

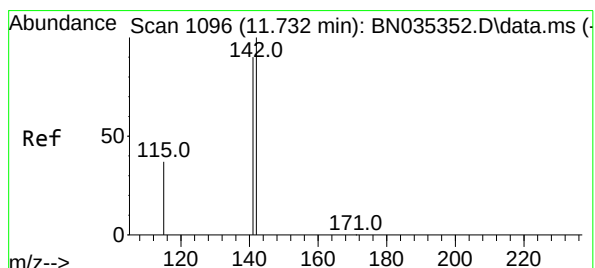
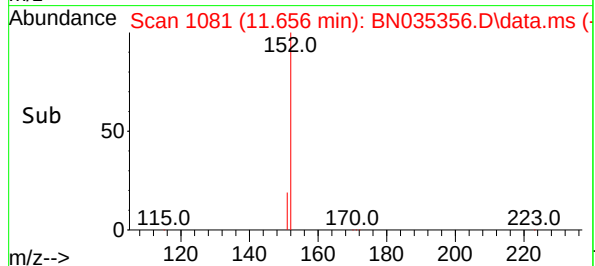
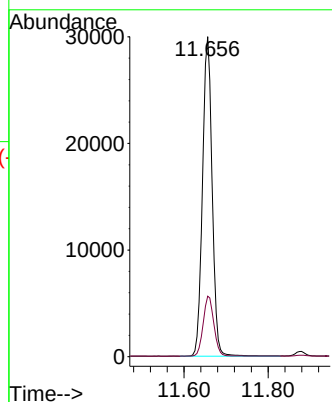
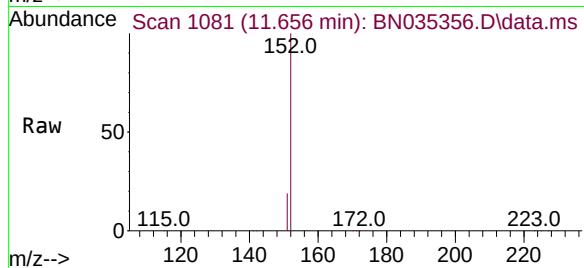




#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

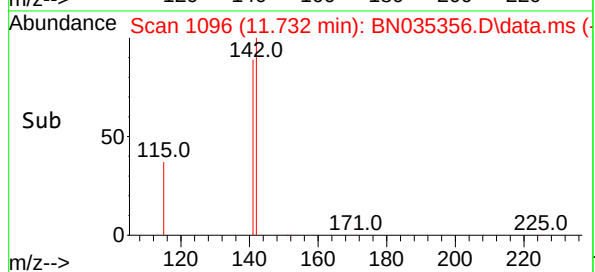
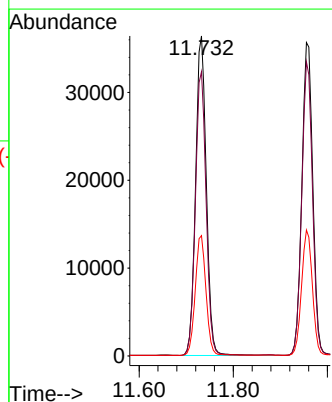
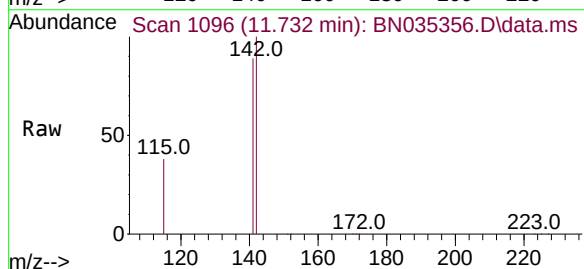
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

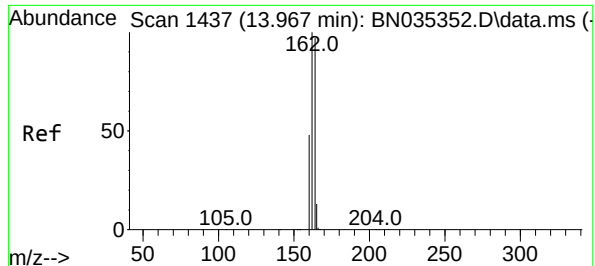
Tgt Ion:152 Resp: 47612
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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

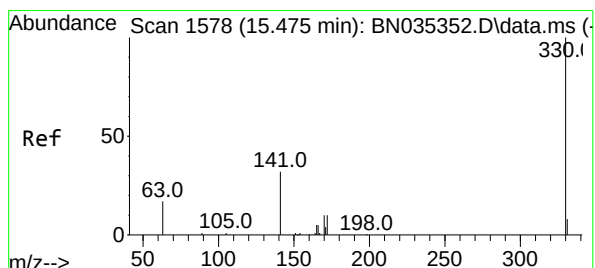
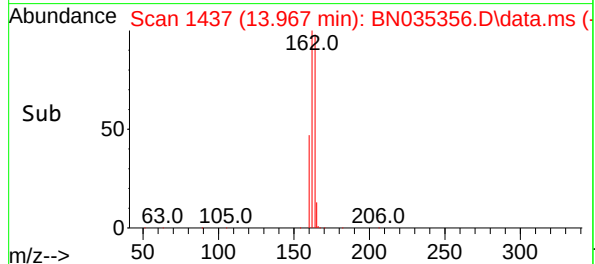
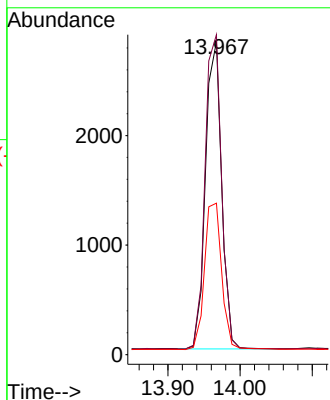
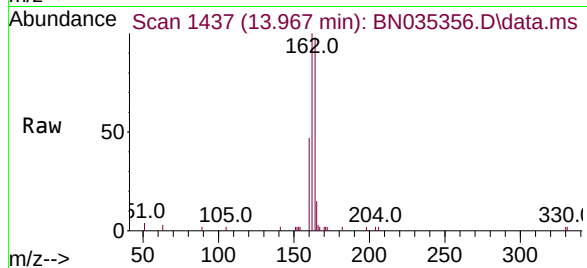




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

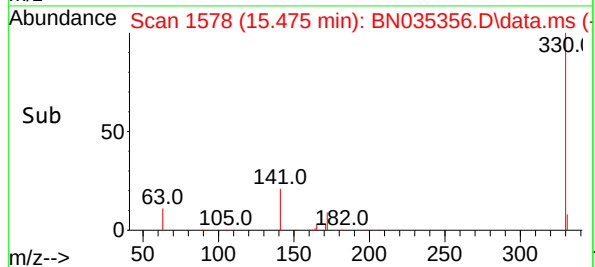
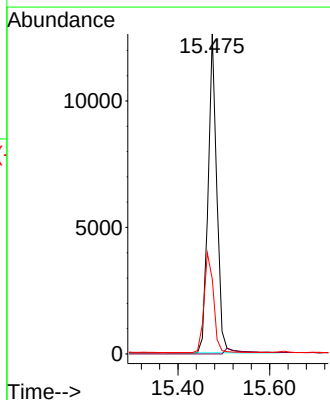
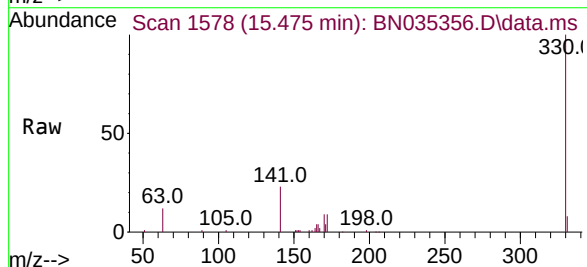
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

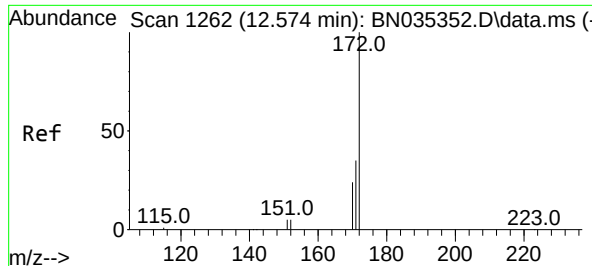
Tgt Ion	164	Resp	4363
Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	48.4	40.1	60.1



#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# 11

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

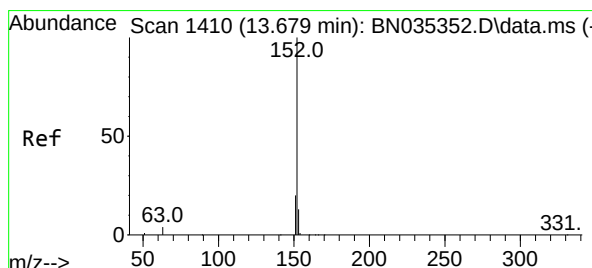
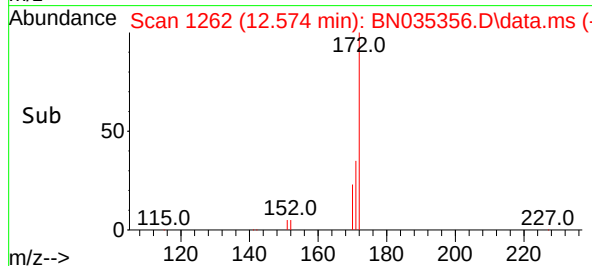
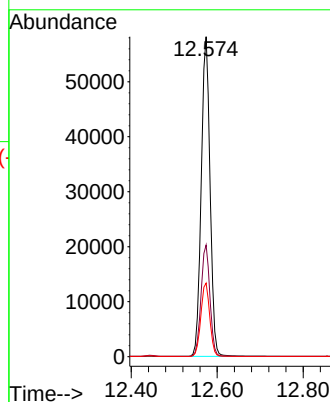
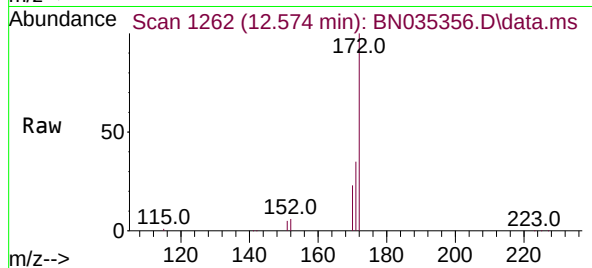
Tgt Ion:172 Resp: 82401

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

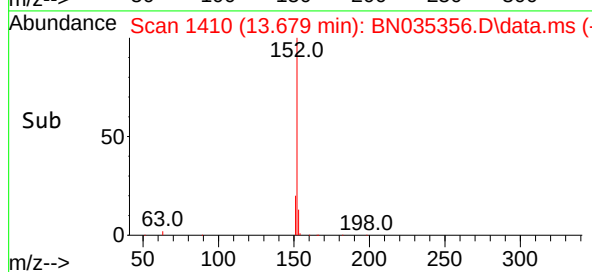
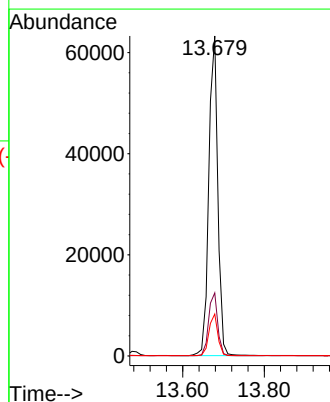
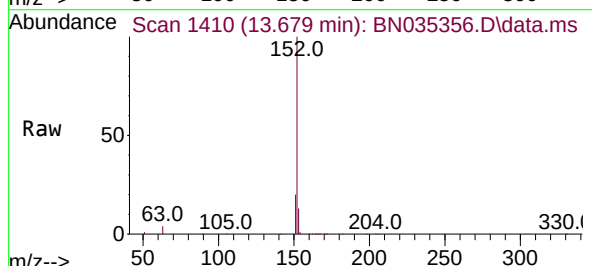
Tgt Ion:152 Resp: 97129

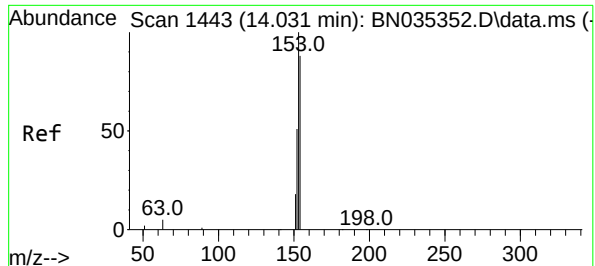
Ion Ratio Lower Upper

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# 1443

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

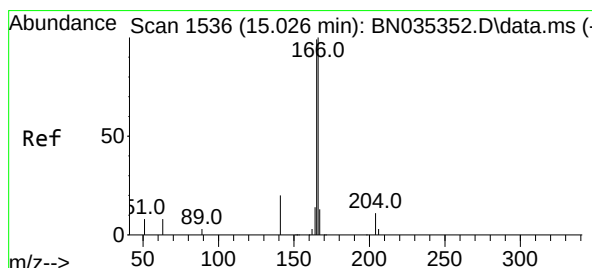
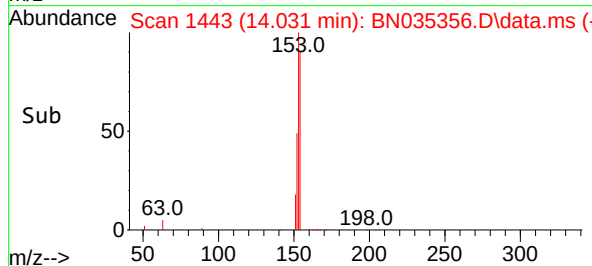
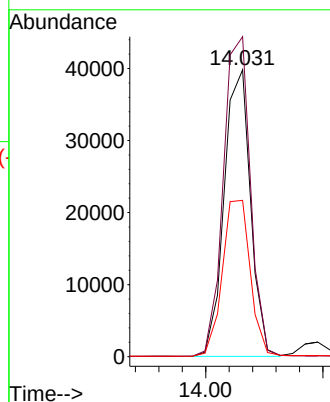
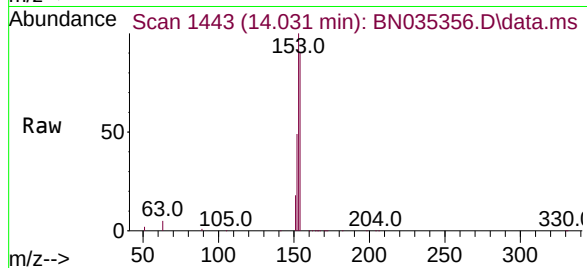
Tgt Ion:154 Resp: 62170

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

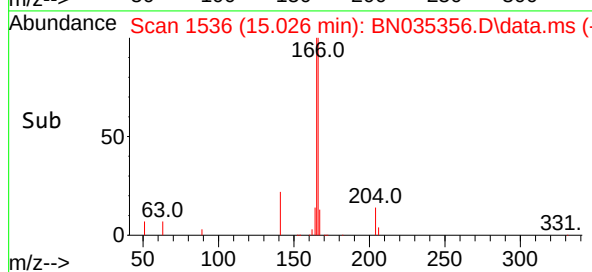
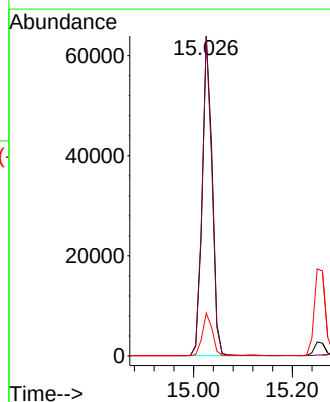
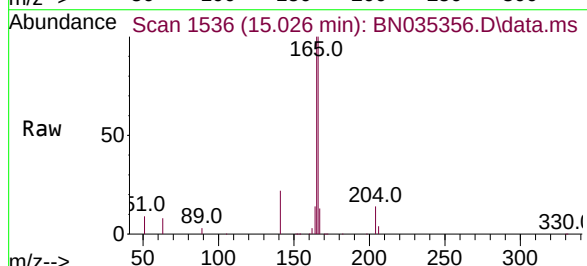
Tgt Ion:166 Resp: 88648

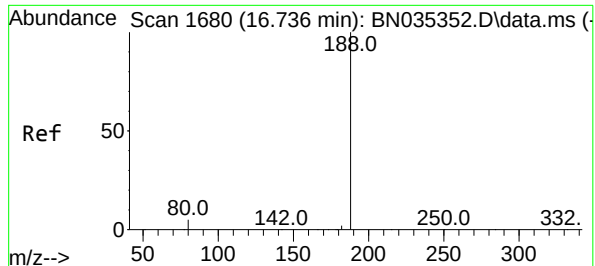
Ion Ratio Lower Upper

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

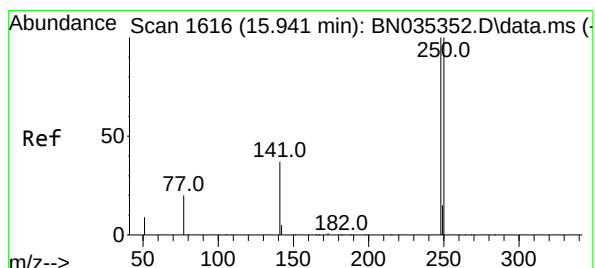
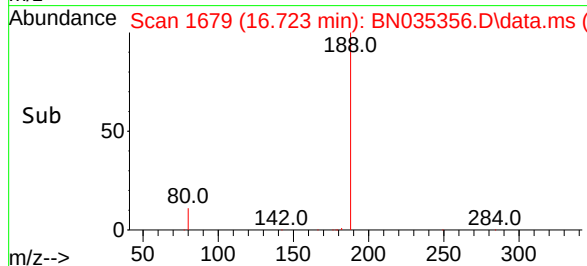
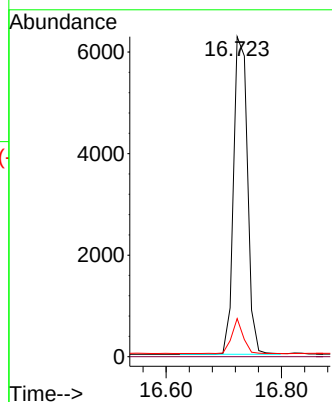
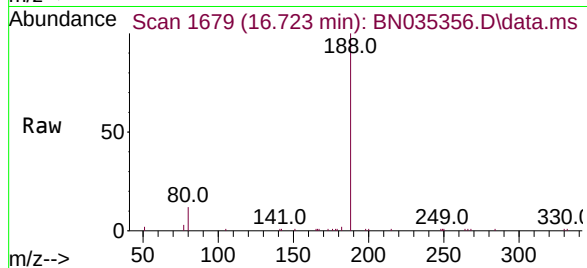
Tgt Ion:188 Resp: 10479

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

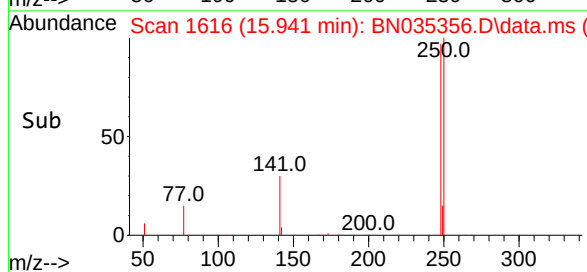
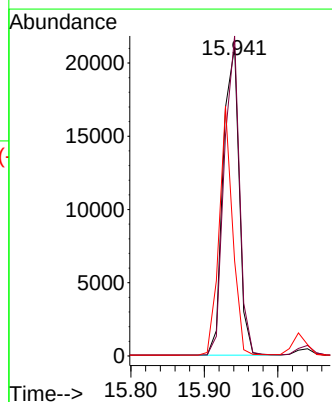
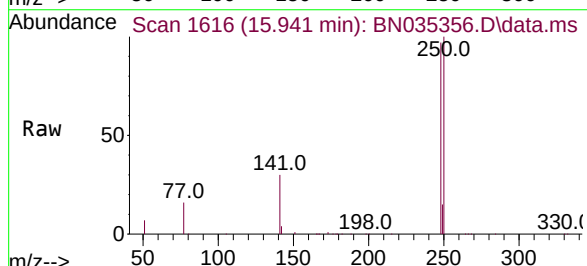
Tgt Ion:248 Resp: 31947

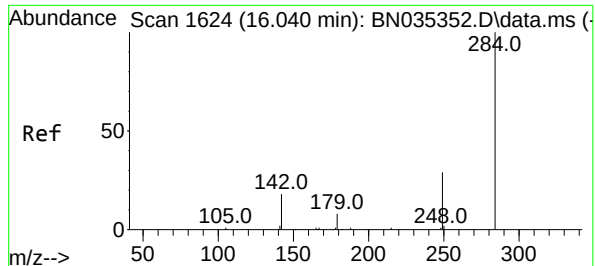
Ion Ratio Lower Upper

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# 1624

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

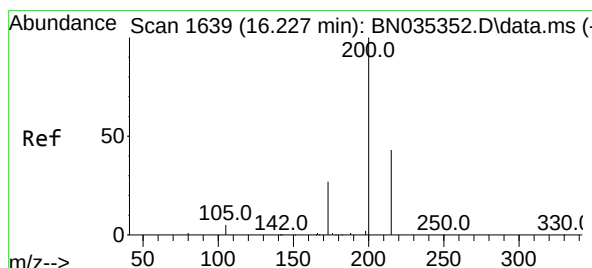
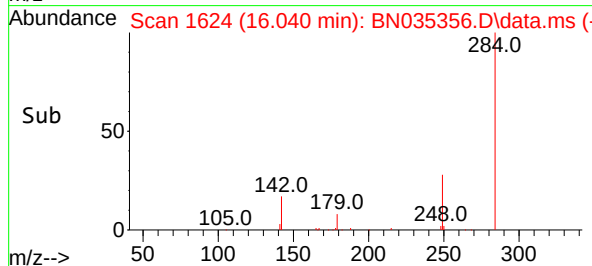
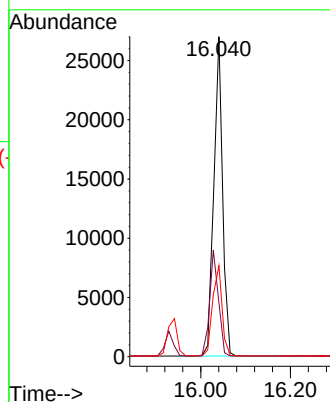
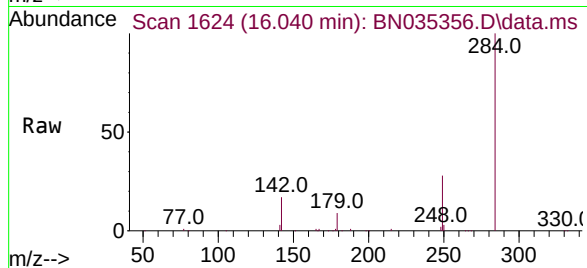
Tgt Ion:284 Resp: 36315

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

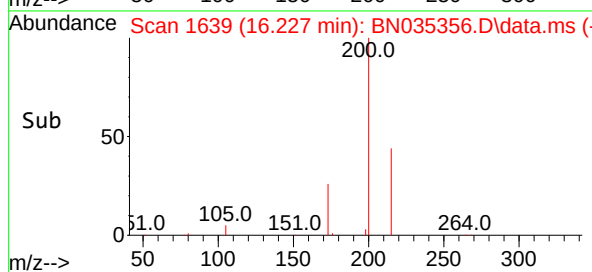
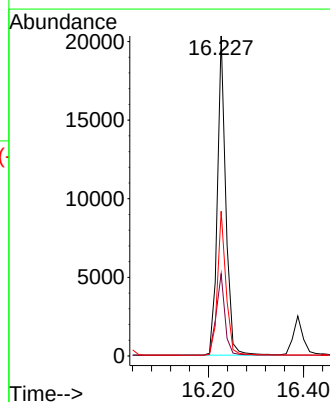
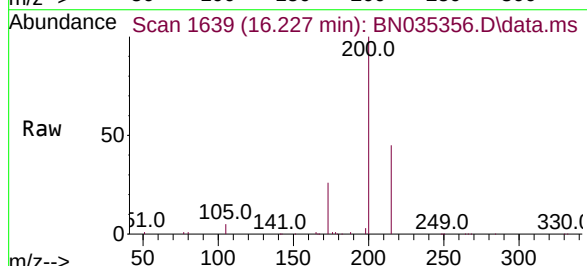
Tgt Ion:200 Resp: 25034

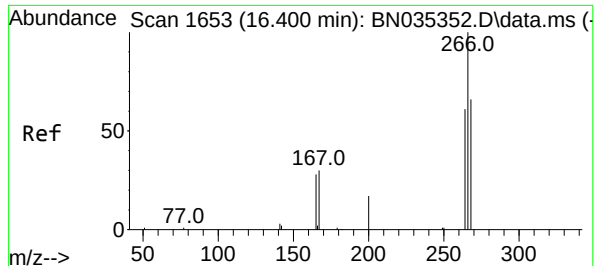
Ion Ratio Lower Upper

200 100

173 25.7 24.1 36.1

215 45.2 36.9 55.3

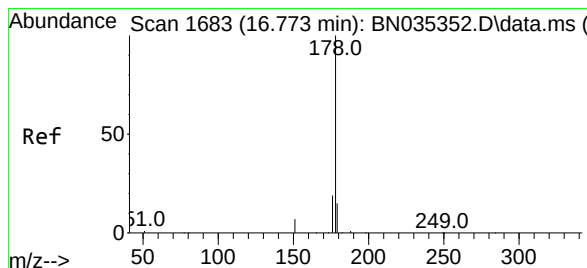
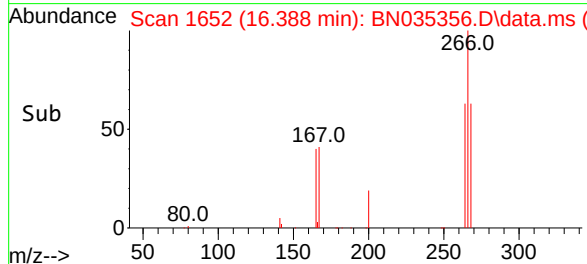
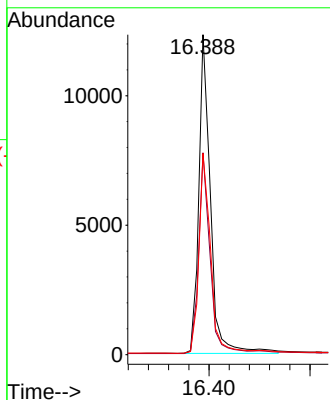
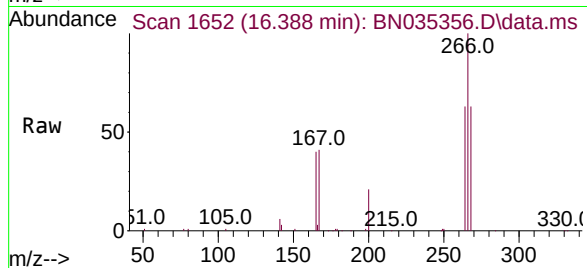




#24
Pentachlorophenol
Concen: 6.083 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

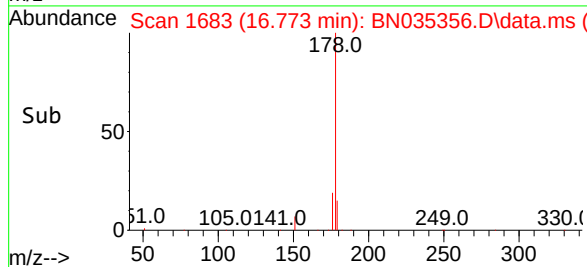
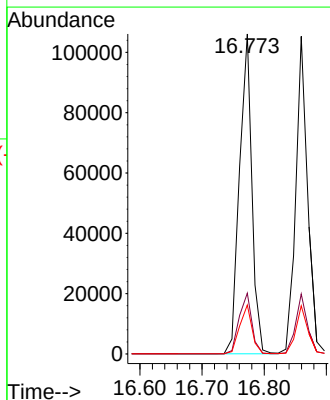
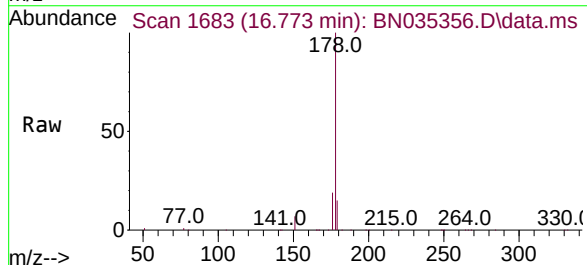
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

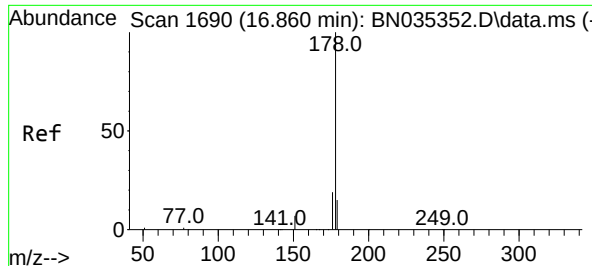
Tgt Ion:266 Resp: 19691
Ion Ratio Lower Upper
266 100
264 62.6 42.3 63.5
268 64.1 43.3 64.9



#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

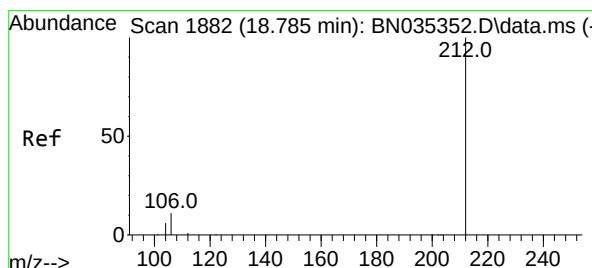
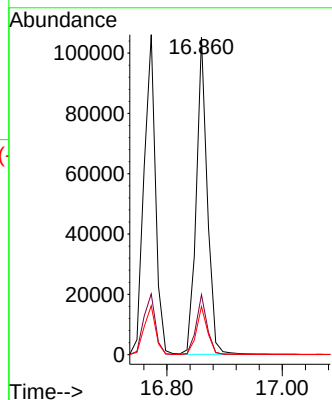
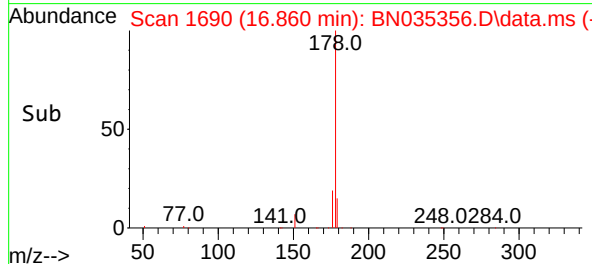
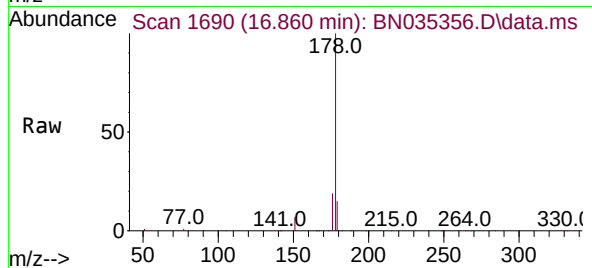




#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

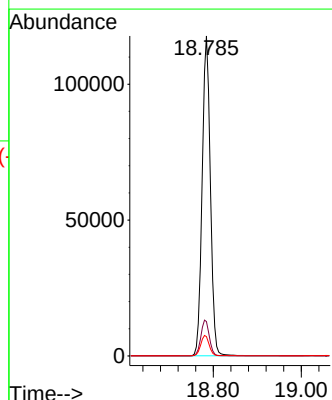
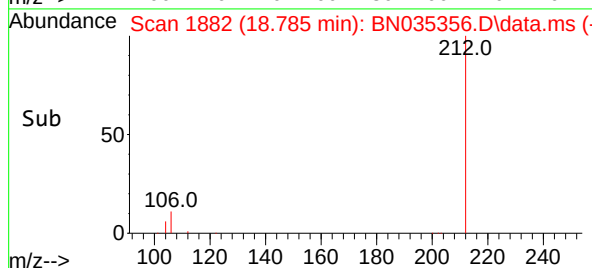
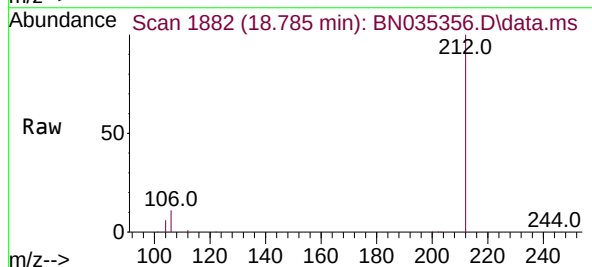
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

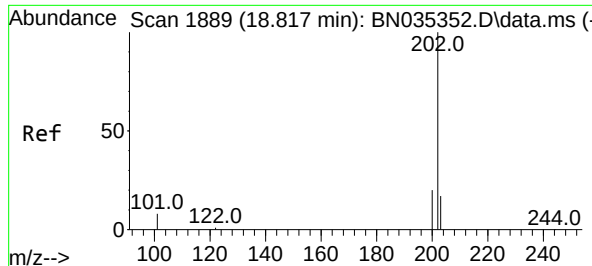
Tgt Ion:178 Resp: 139399
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.6 18.8



#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

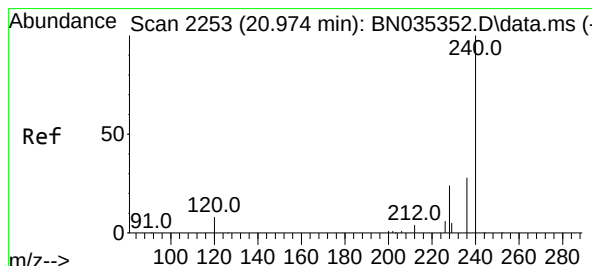
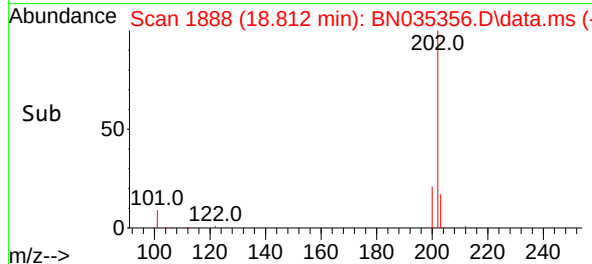
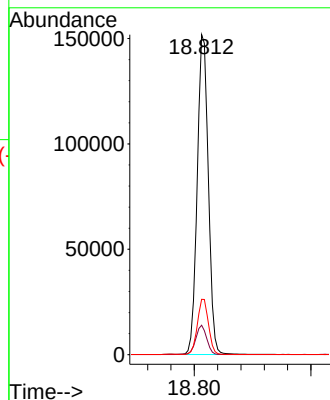
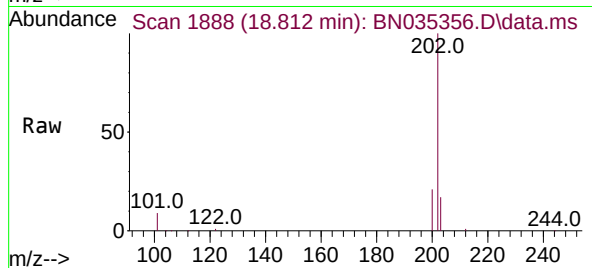




#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

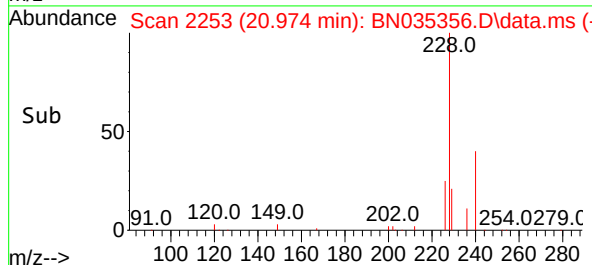
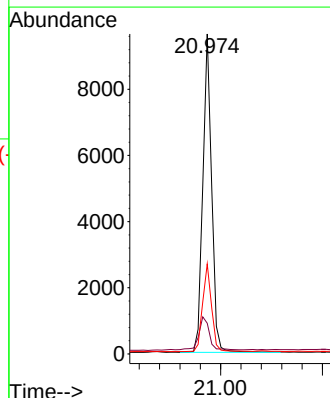
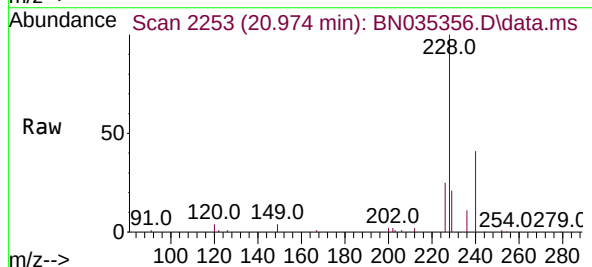
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

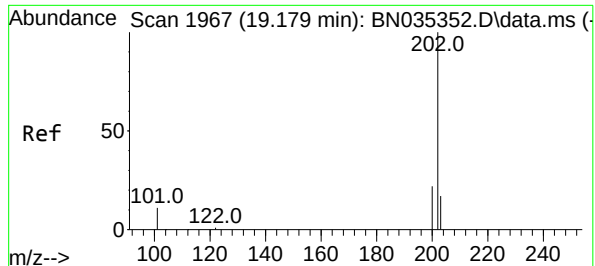
Tgt Ion:202 Resp: 199850
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.4 13.7 20.5



#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# 1967

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

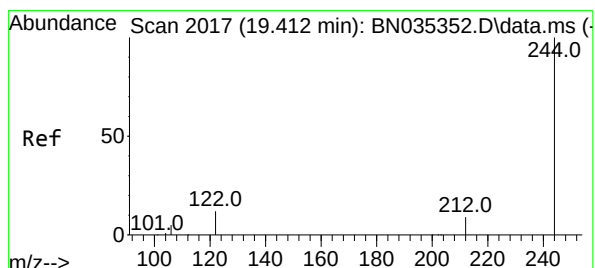
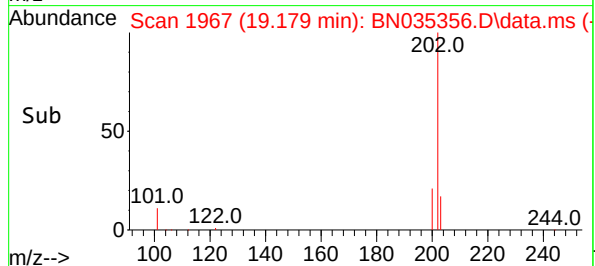
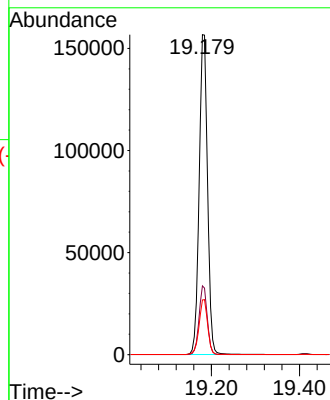
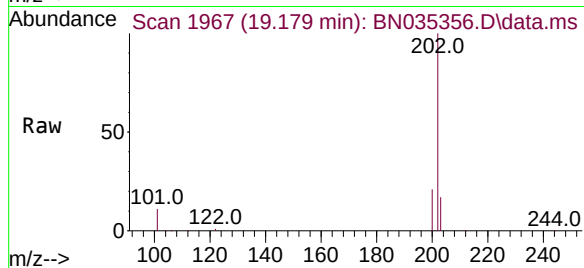
Tgt Ion:202 Resp: 206018

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

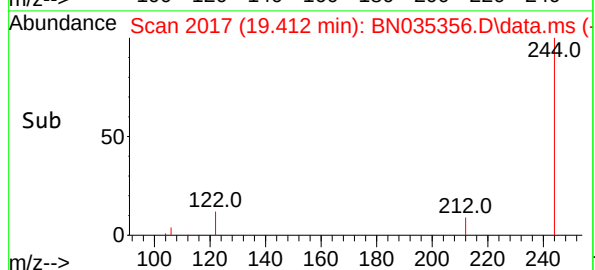
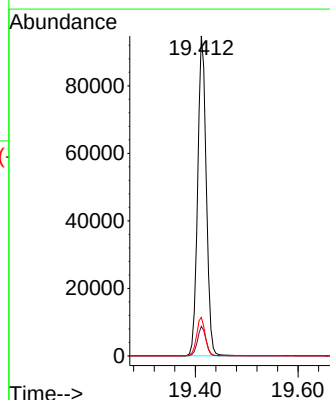
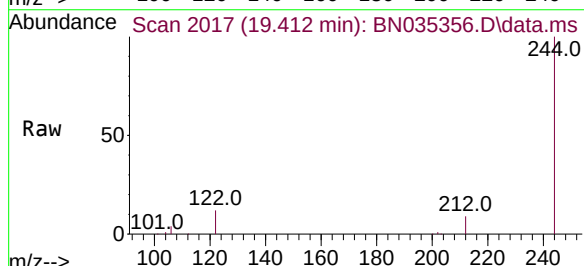
Tgt Ion:244 Resp: 110737

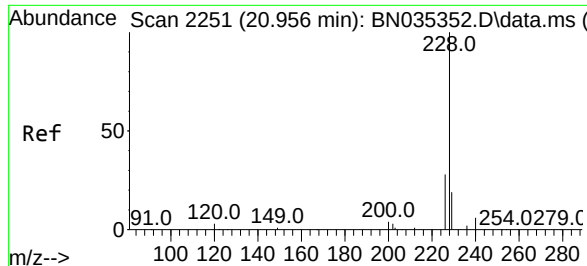
Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.1 10.3 15.5

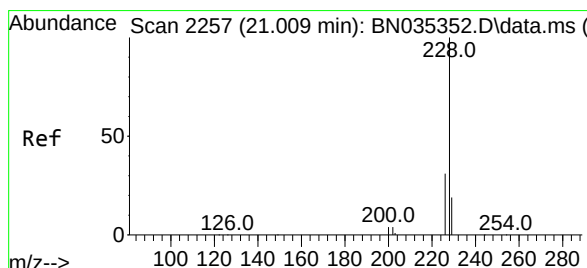
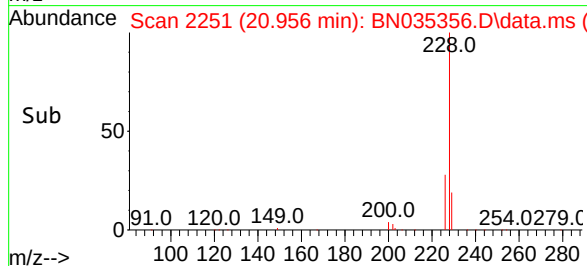
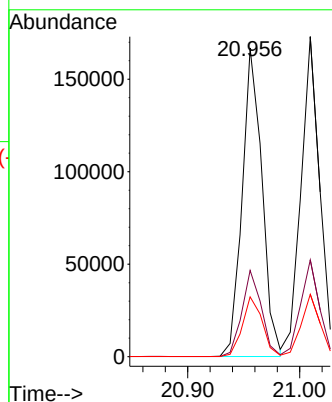
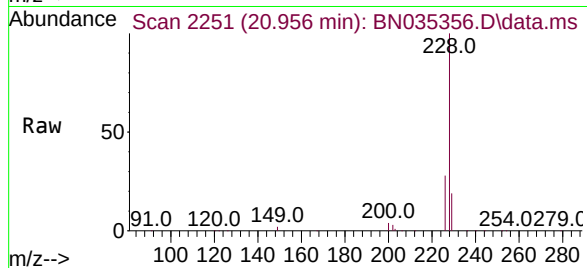




#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

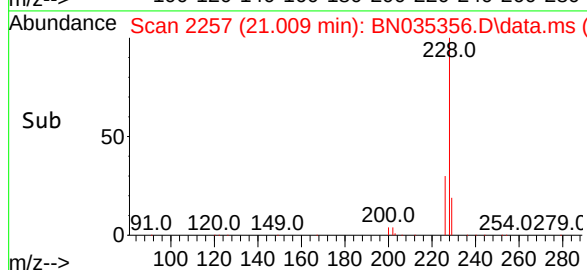
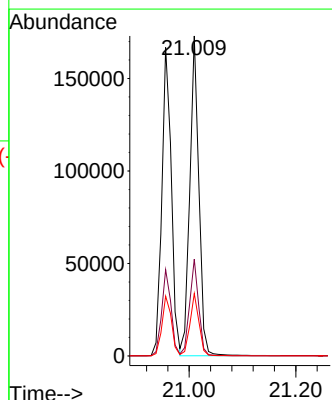
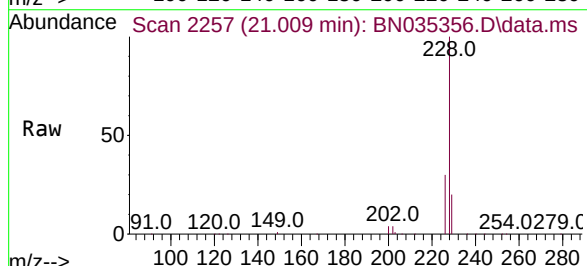
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

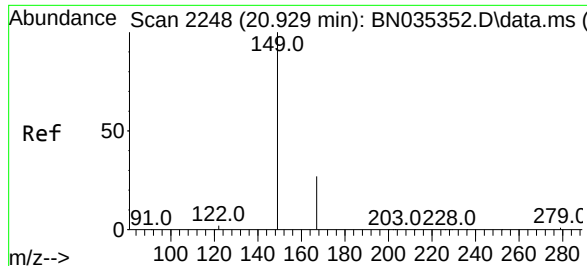
Tgt Ion:228 Resp: 205712
Ion Ratio Lower Upper
228 100
226 27.9 22.5 33.7
229 19.4 15.8 23.8



#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

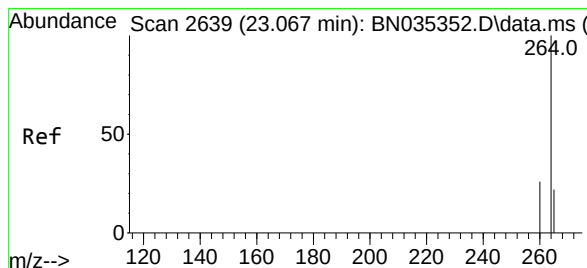
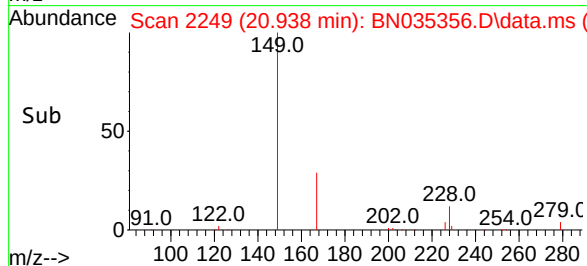
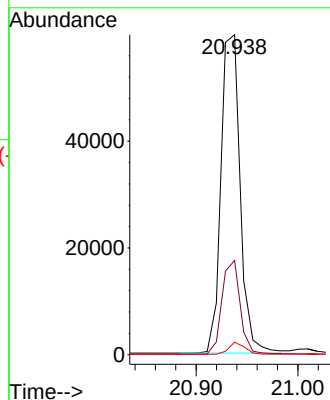
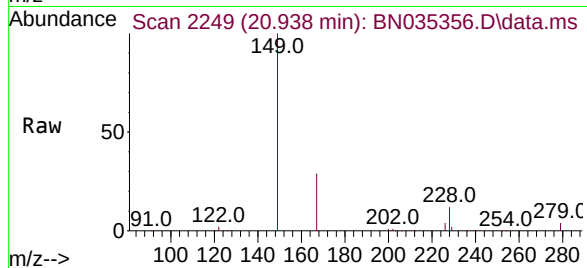




#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

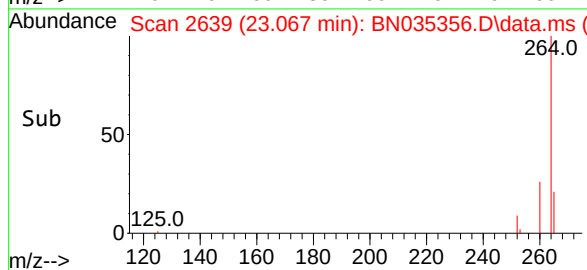
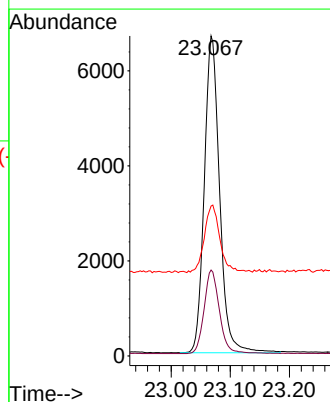
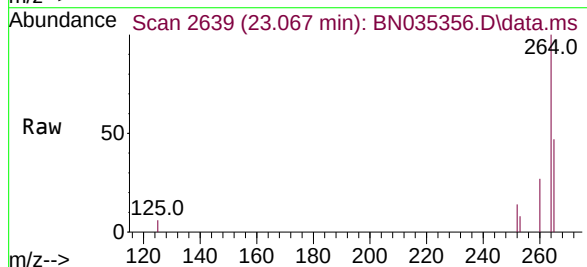
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

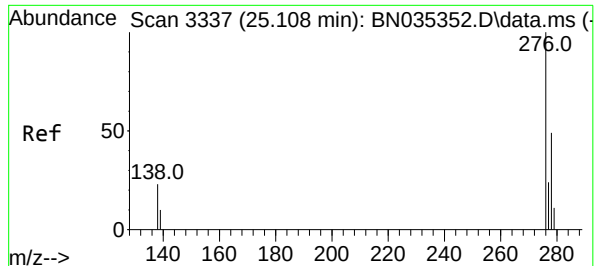
Tgt Ion:149 Resp: 78322
Ion Ratio Lower Upper
149 100
167 28.1 22.2 33.4
279 3.2 2.7 4.1



#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# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

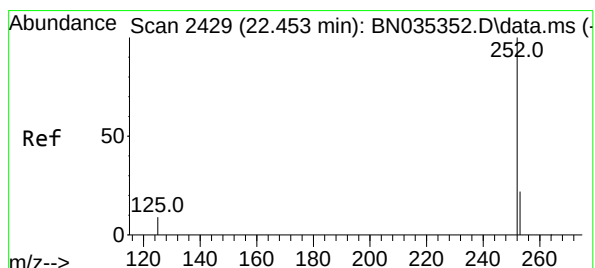
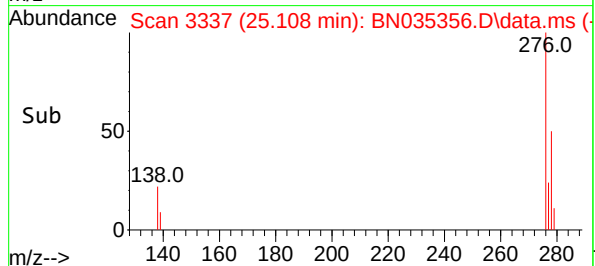
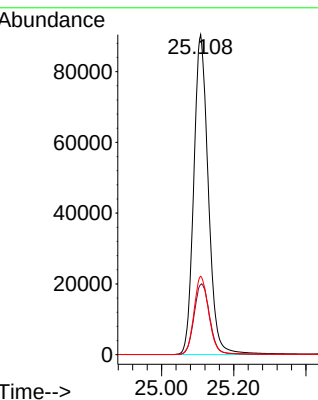
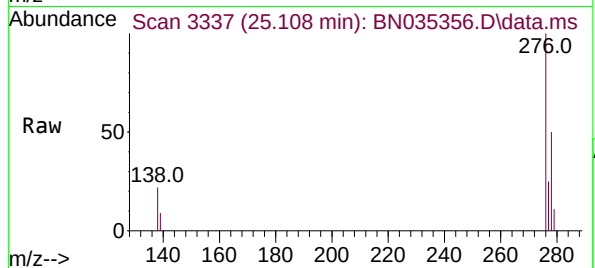
Tgt Ion:276 Resp: 252709

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

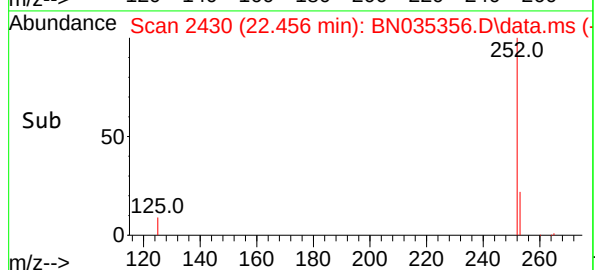
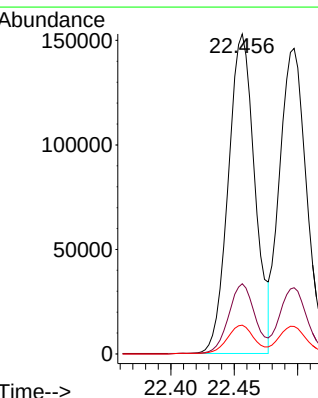
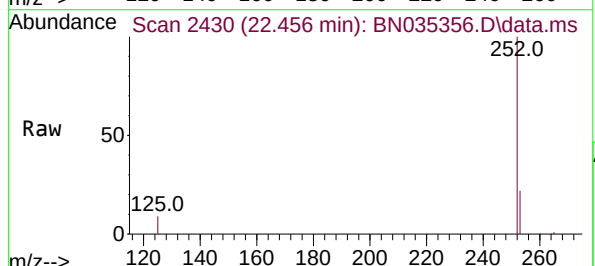
Tgt Ion:252 Resp: 241201

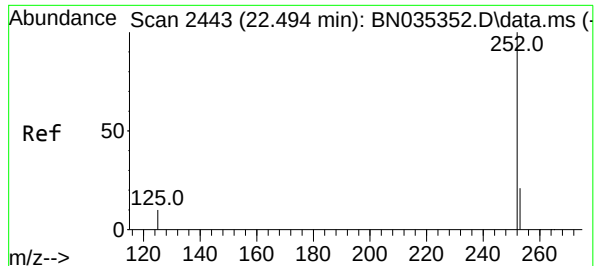
Ion Ratio Lower Upper

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# 2444

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

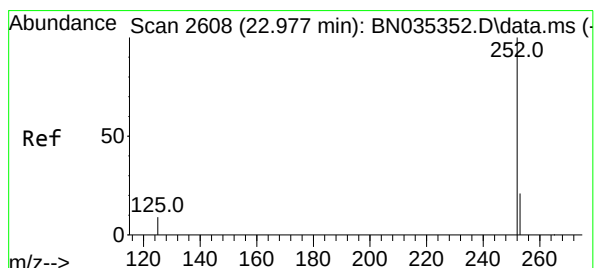
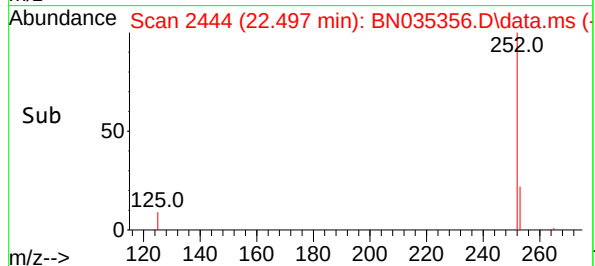
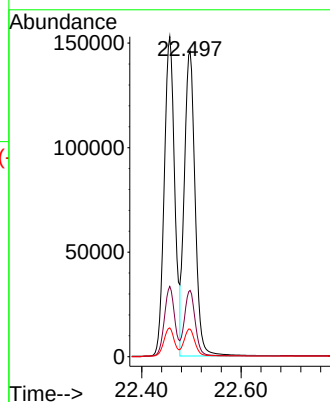
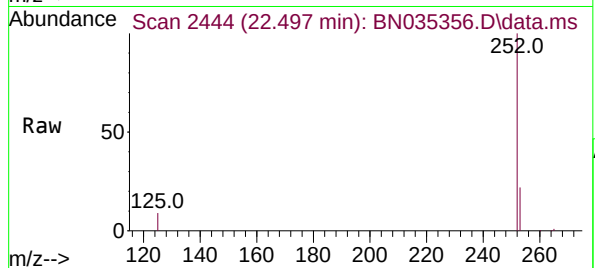
Tgt Ion:252 Resp: 220146

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

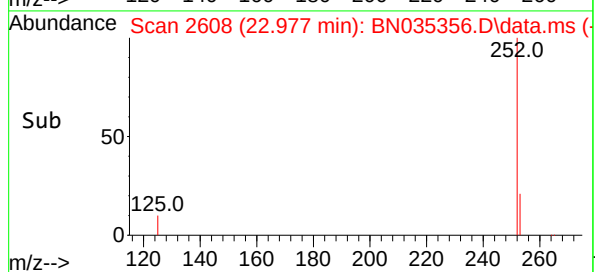
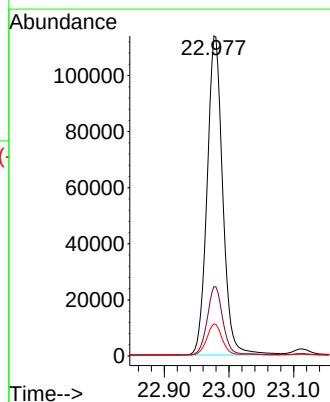
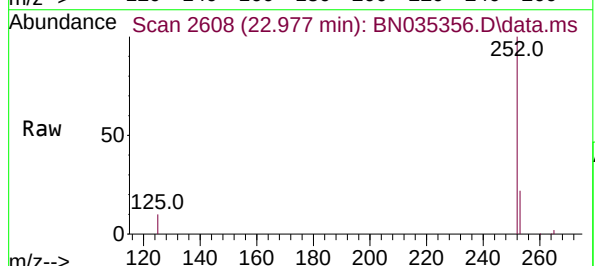
Tgt Ion:252 Resp: 190665

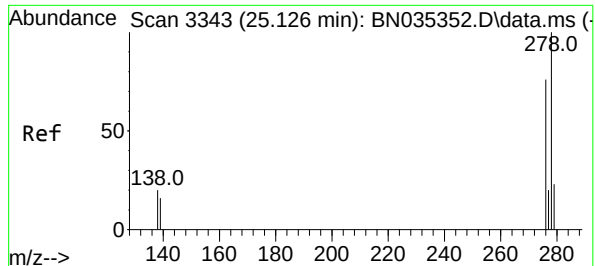
Ion Ratio Lower Upper

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# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

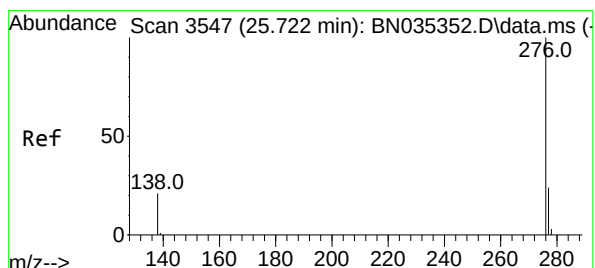
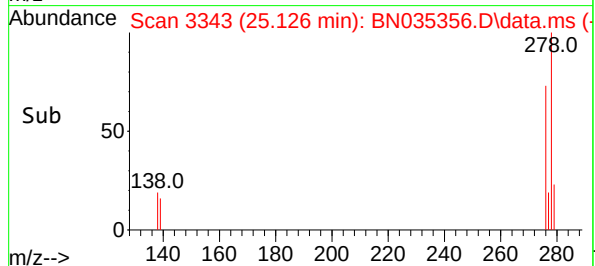
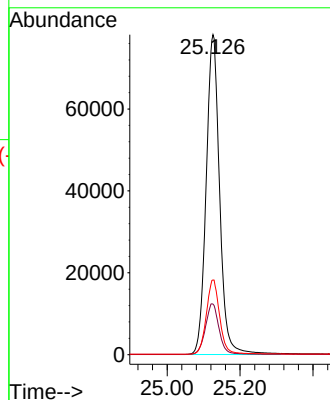
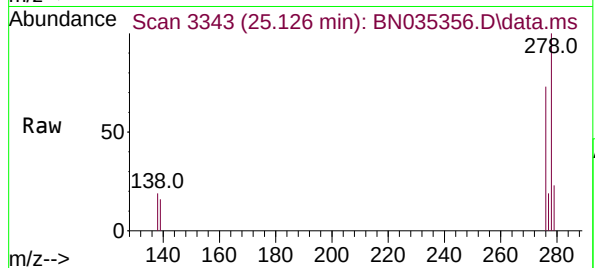
Tgt Ion:278 Resp: 199852

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

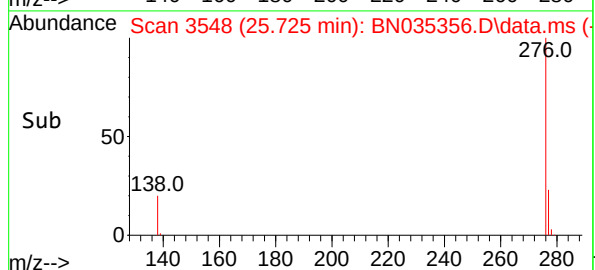
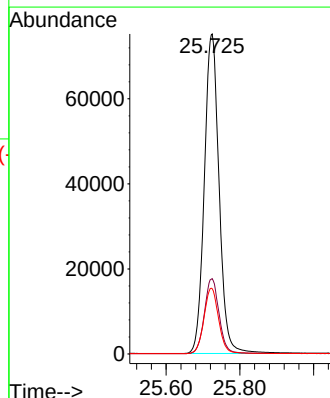
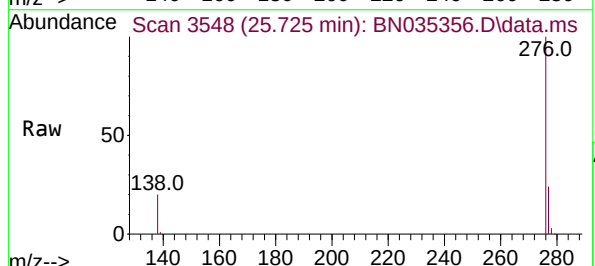
Tgt Ion:276 Resp: 209119

Ion Ratio Lower Upper

276 100

277 23.5 19.9 29.9

138 20.4 17.8 26.8



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						
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

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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

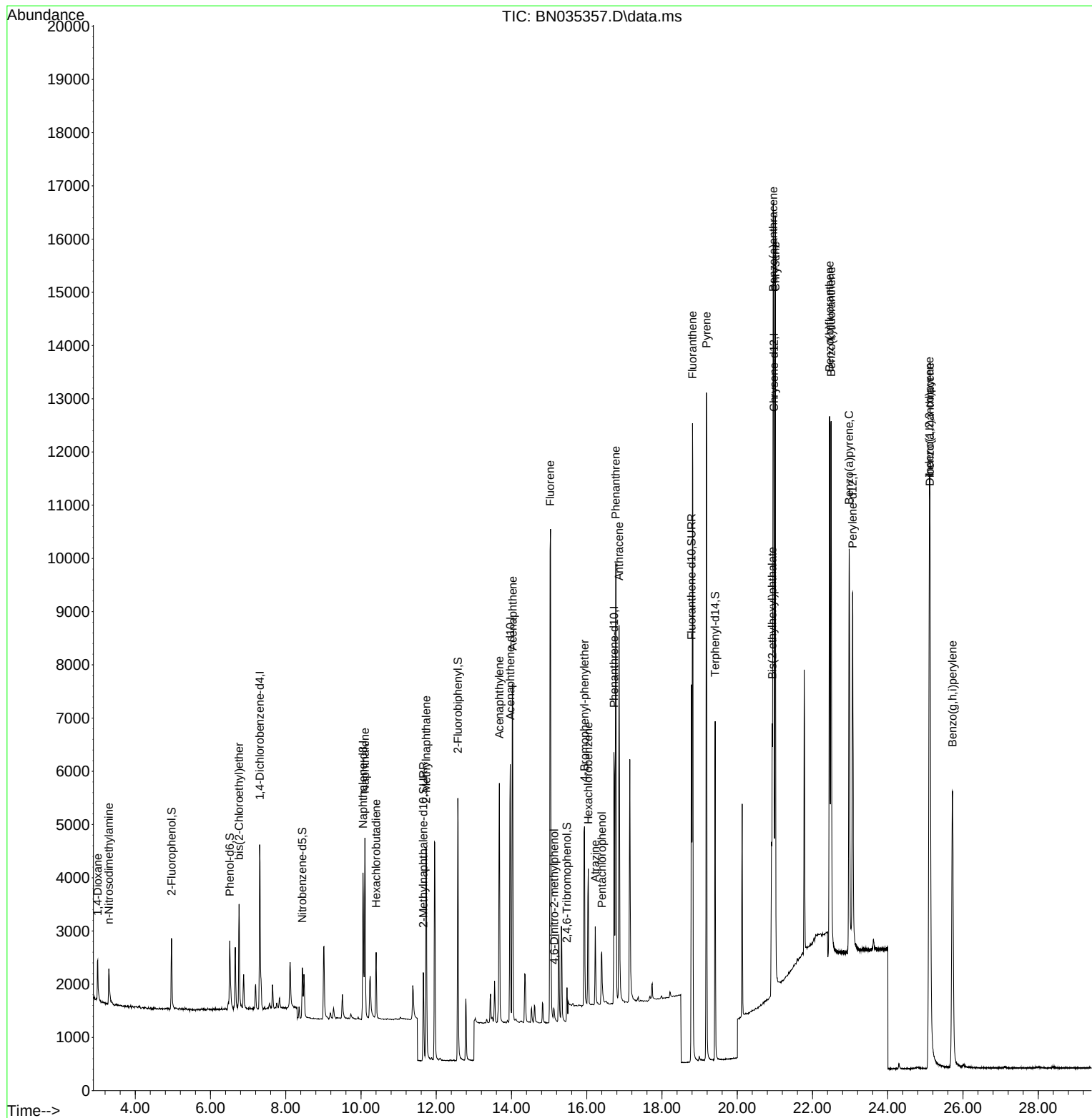
Manual Integrations

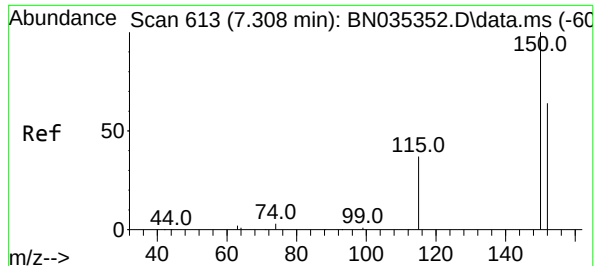
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

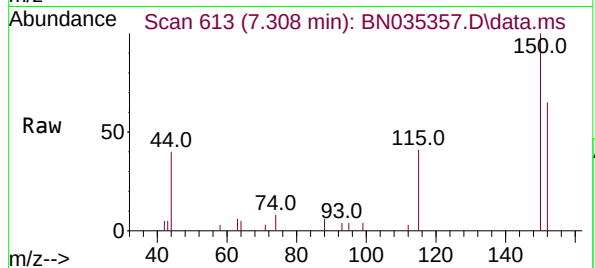
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration





#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

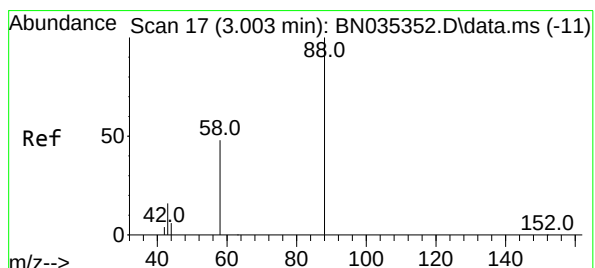
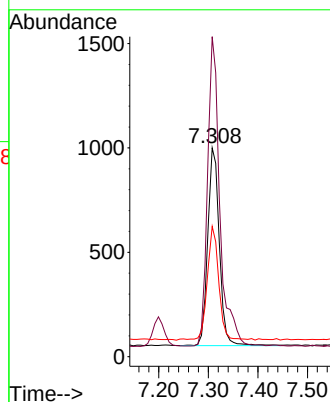
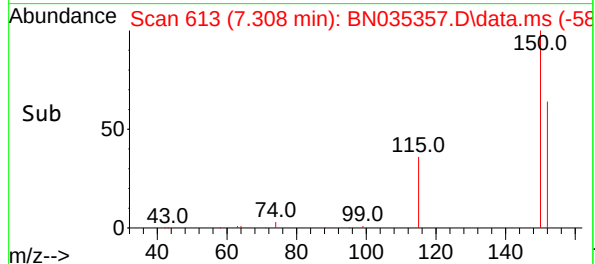
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

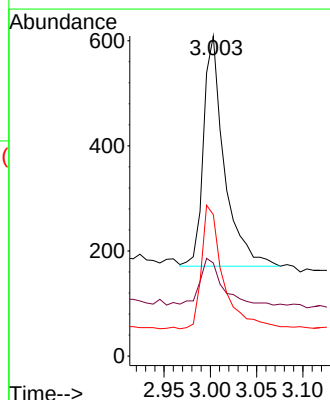
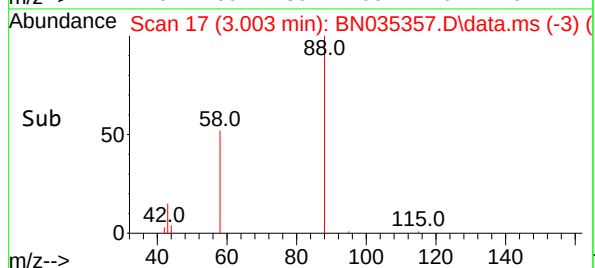
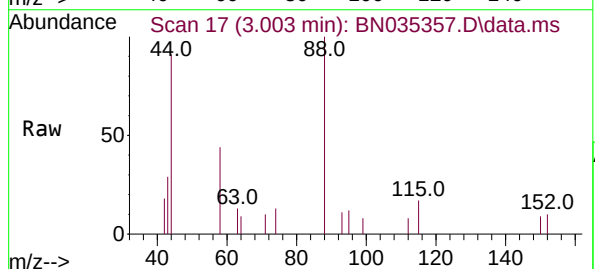
Manual Integrations
APPROVED

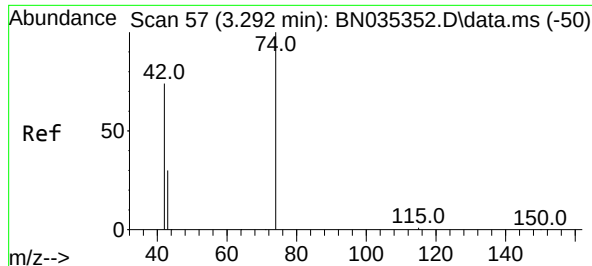
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 50
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

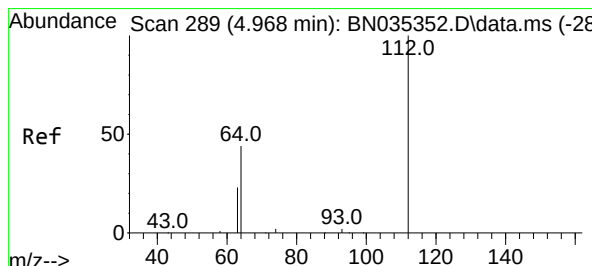
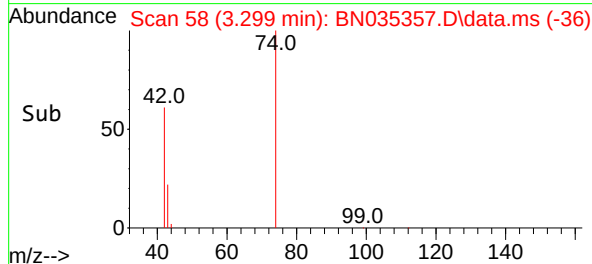
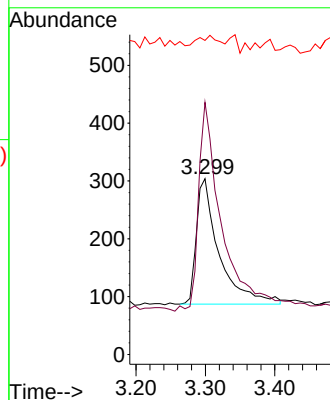
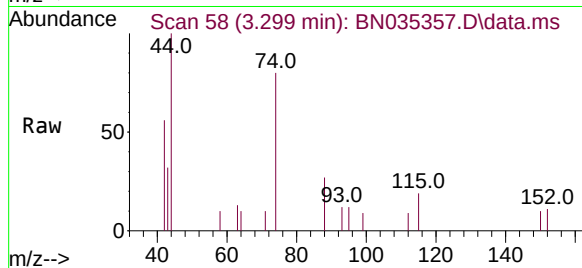
ClientSampleId :

ICVBN112724

Tgt Ion:	42	Resp:	49
Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4

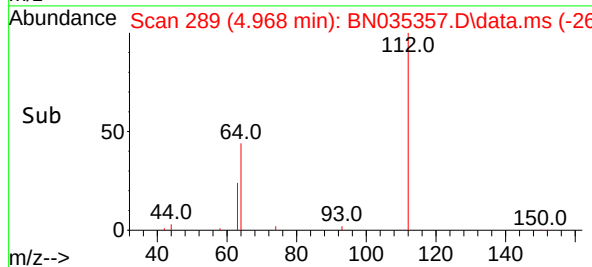
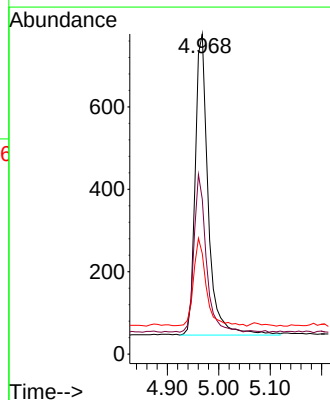
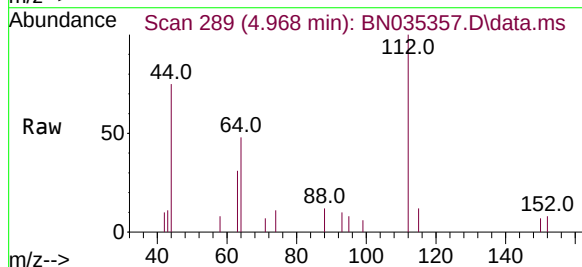
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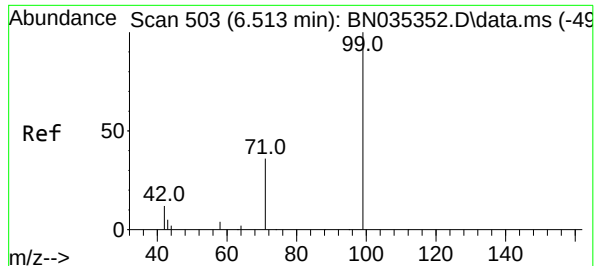
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





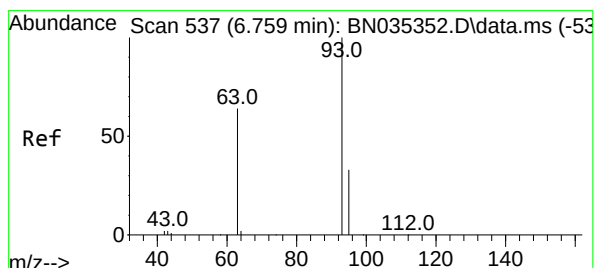
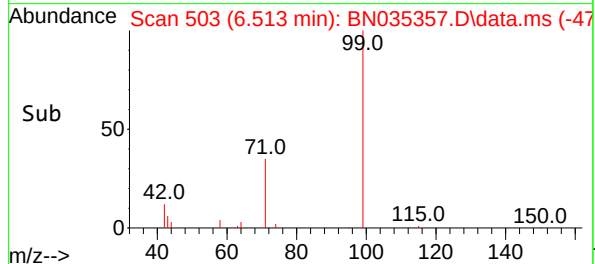
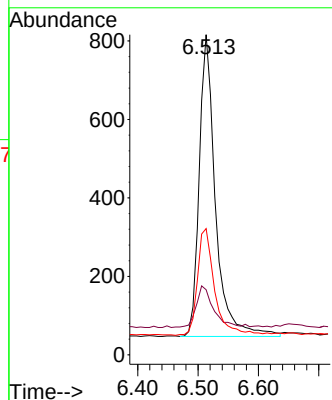
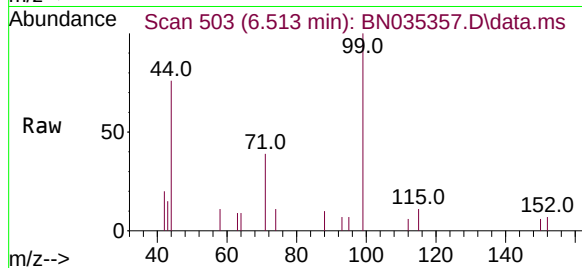
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 99 Resp: 143
Ion Ratio Lower Upper
99 100
42 13.9 11.4 17.2
71 37.2 29.3 43.9

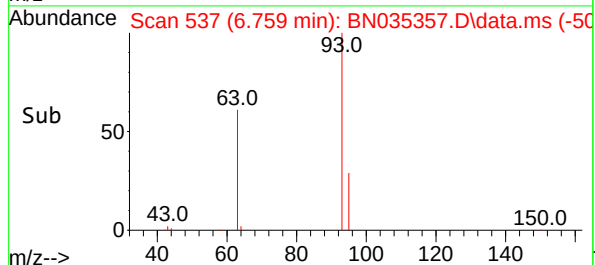
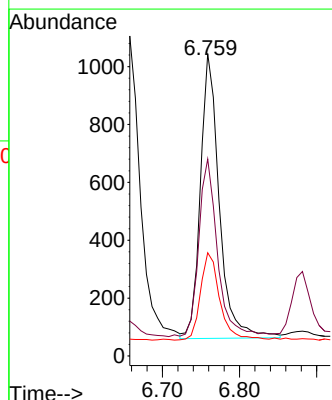
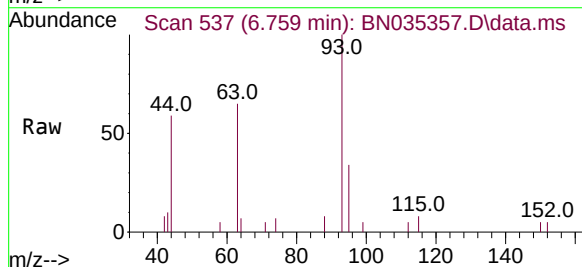
Manual Integrations
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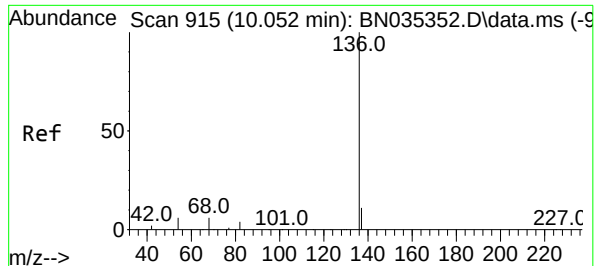
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





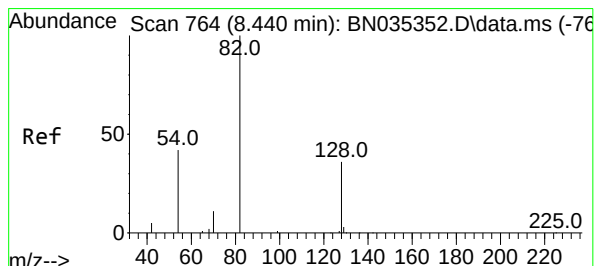
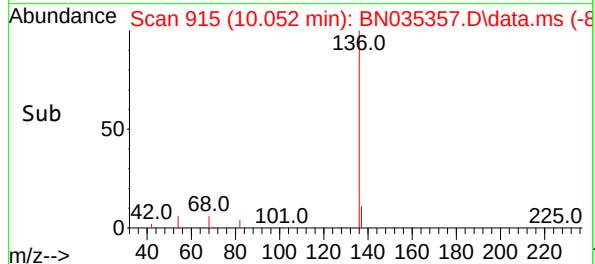
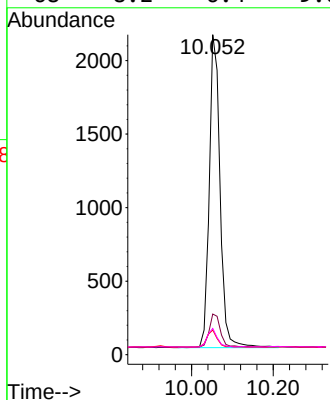
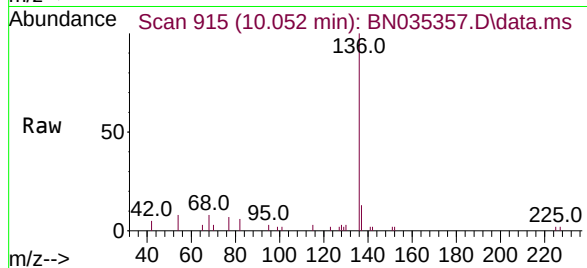
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

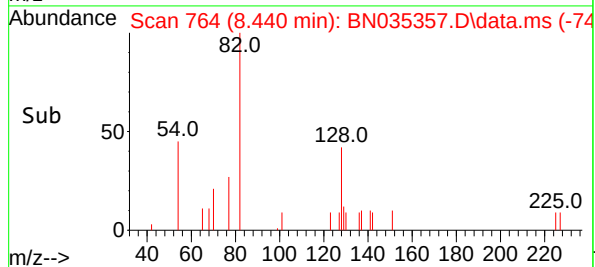
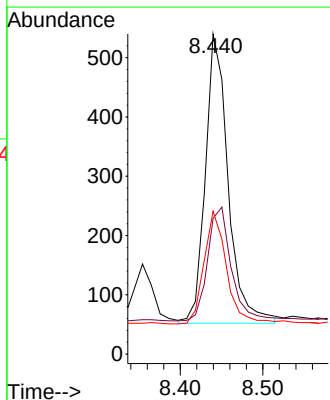
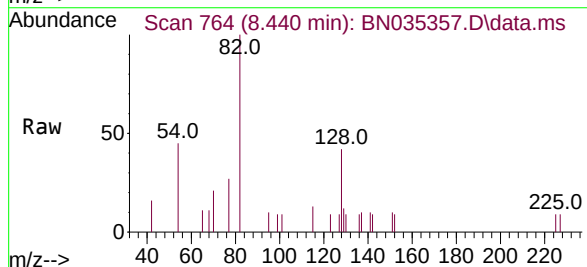
Manual Integrations
APPROVED

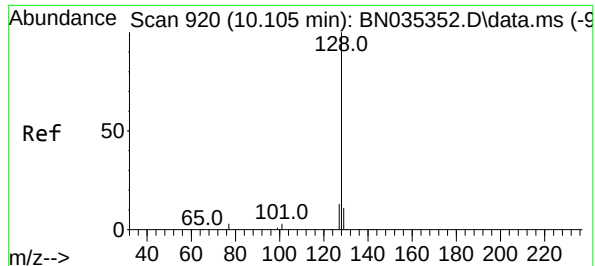
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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





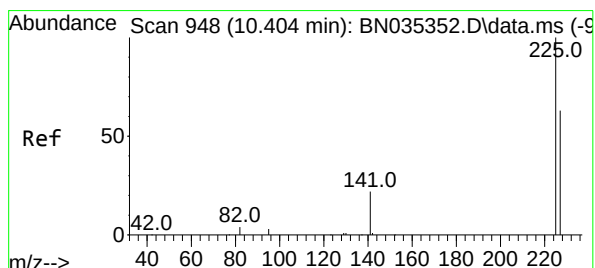
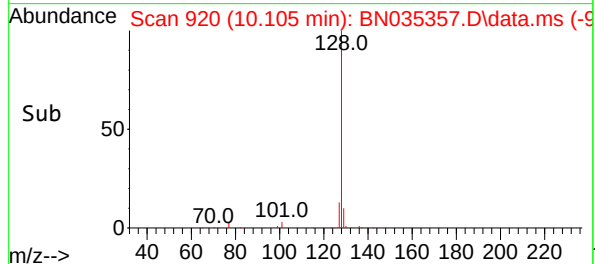
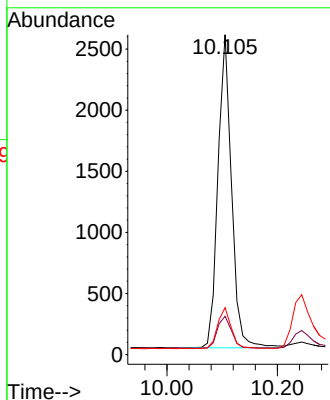
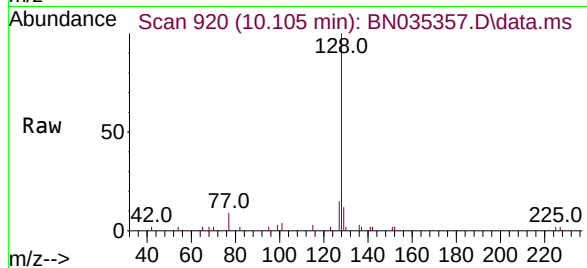
#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

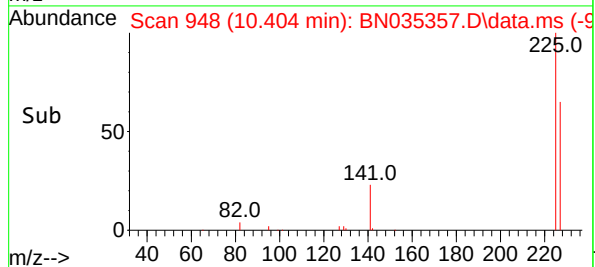
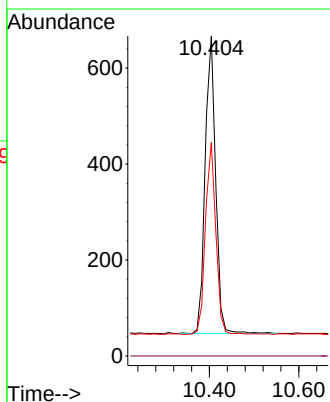
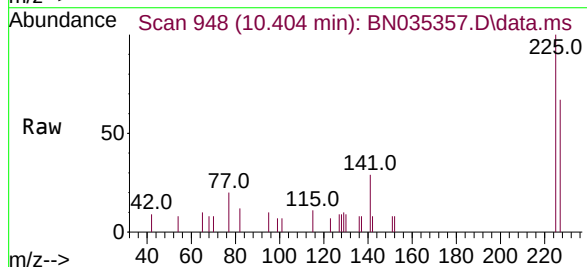
Manual Integrations
APPROVED

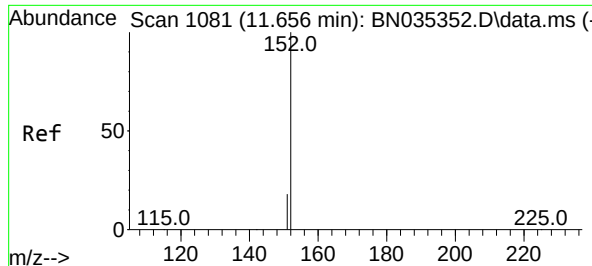
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

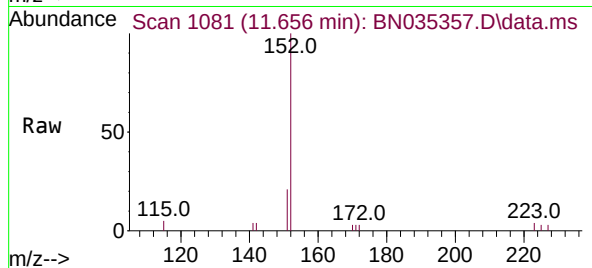
Tgt Ion:225 Resp: 1005
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

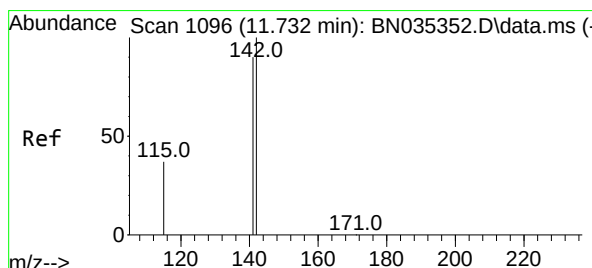
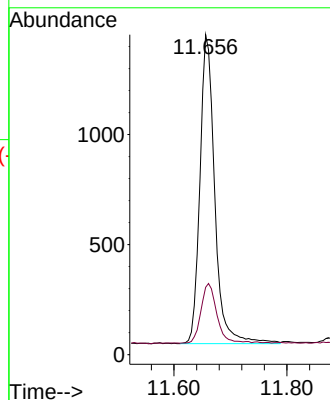
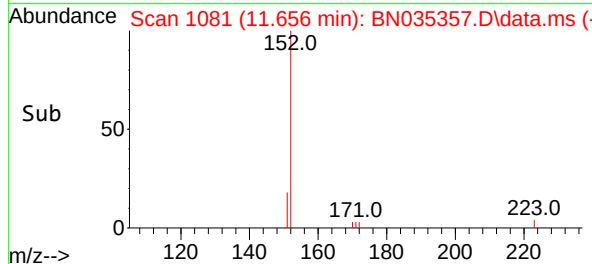
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:152 Resp: 256
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0

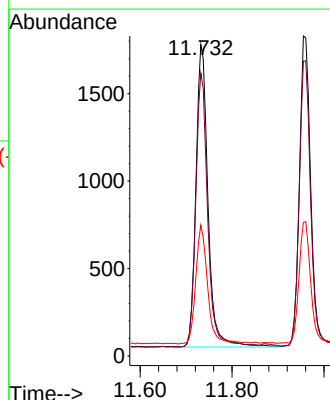
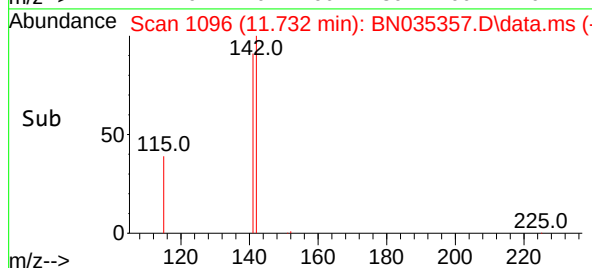
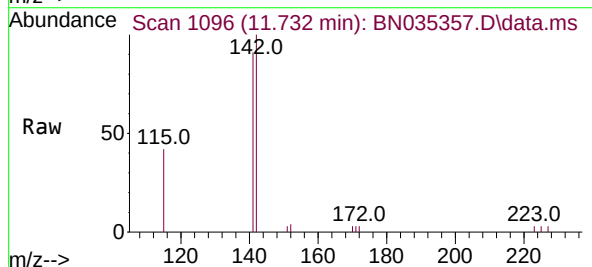
Manual Integrations
APPROVED

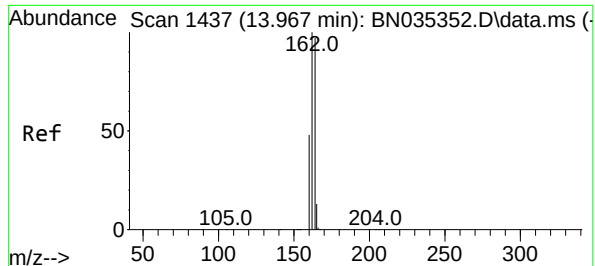
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1437

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

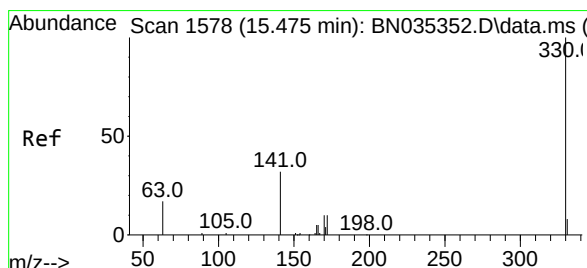
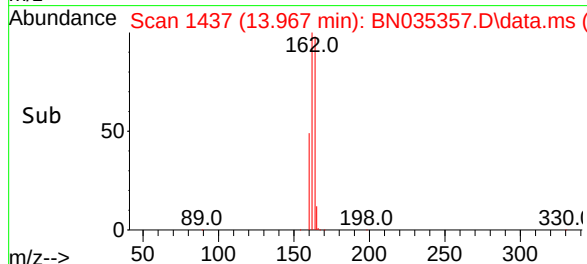
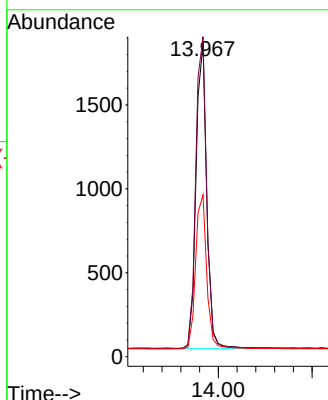
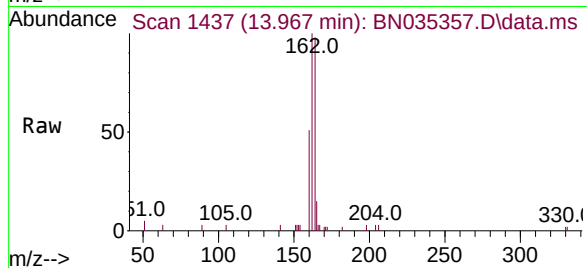
ICVBN112724

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

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

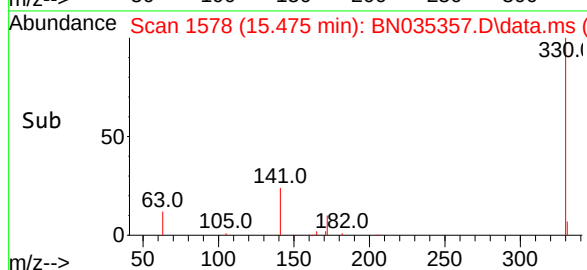
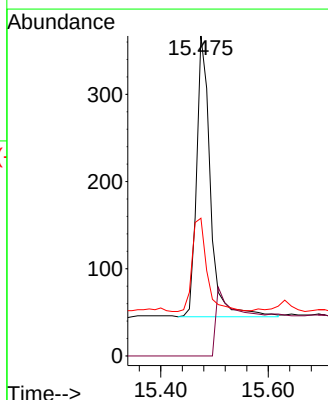
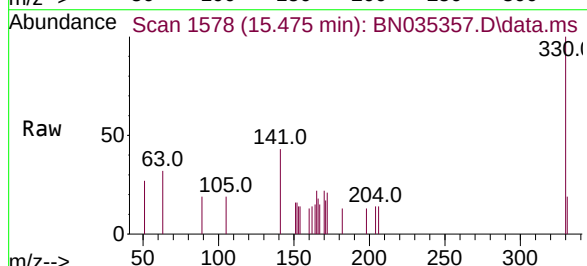
RT: 15.475 min Scan# 1578

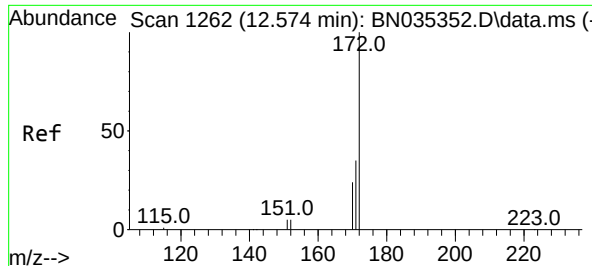
Delta R.T. -0.000 min

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# 11

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

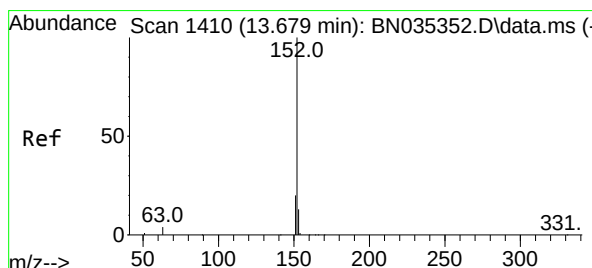
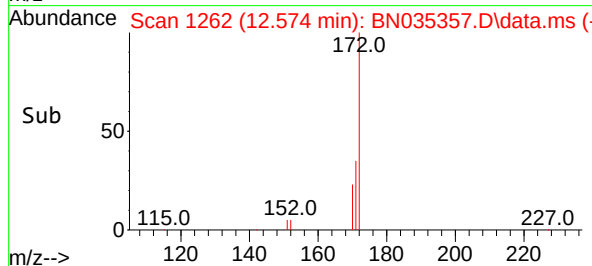
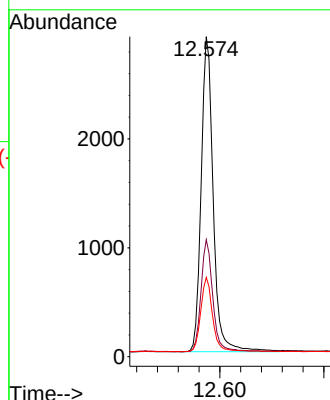
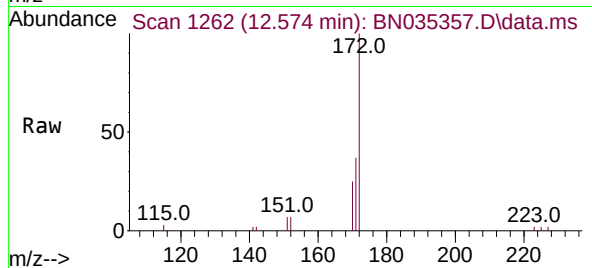
ICVBN112724

Tgt Ion:172	Resp:	464
Ion Ratio	Lower	Upper
172	100	
171	36.5	29.0 43.4
170	24.7	19.8 29.8

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.435 ng

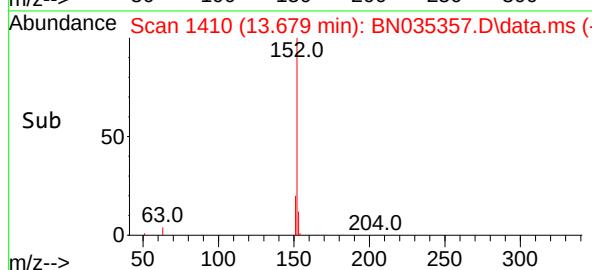
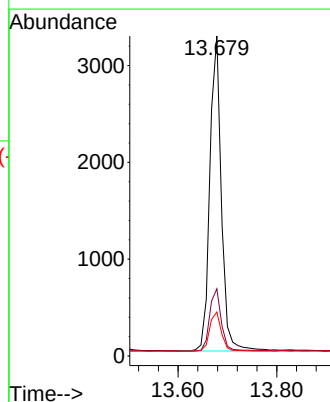
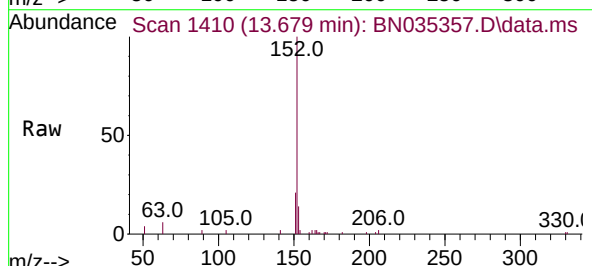
RT: 13.679 min Scan# 1410

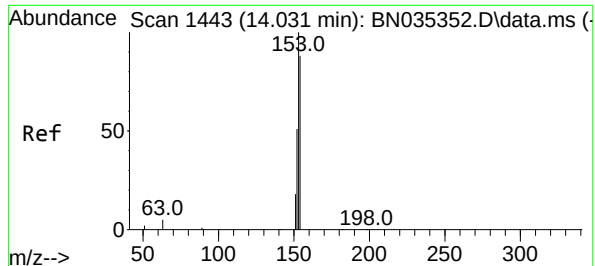
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

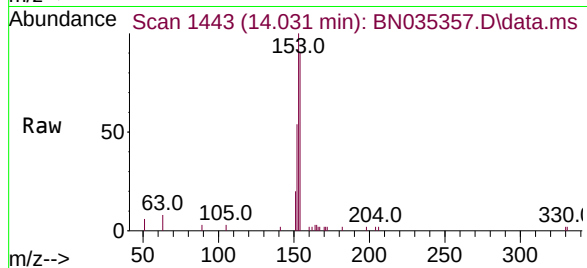
Tgt Ion:152	Resp:	5261
Ion Ratio	Lower	Upper
152	100	
151	20.1	16.2 24.2
153	12.7	10.4 15.6





#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

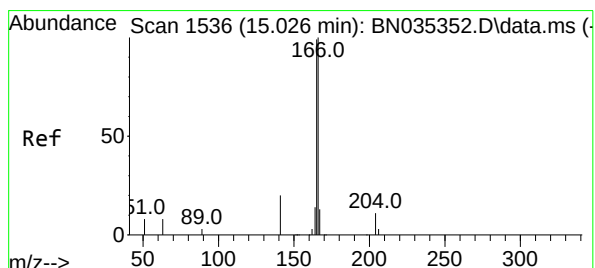
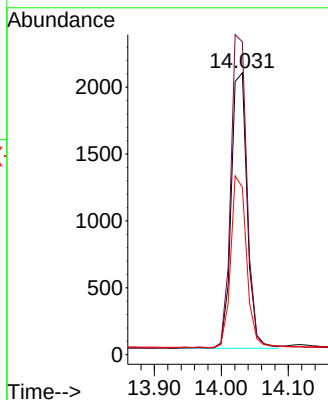
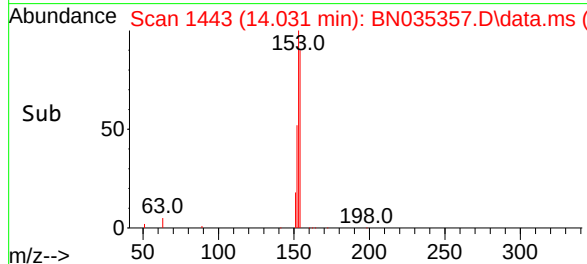
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



Tgt Ion:154 Resp: 342
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 61.9 49.0 73.6

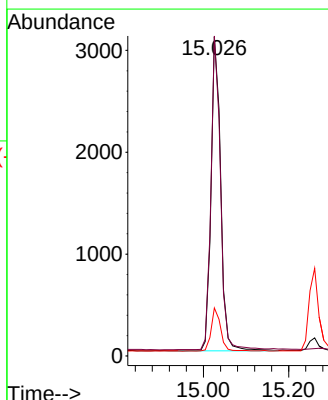
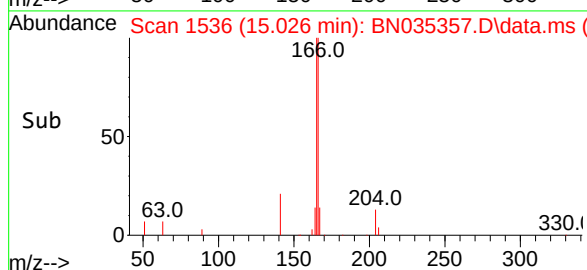
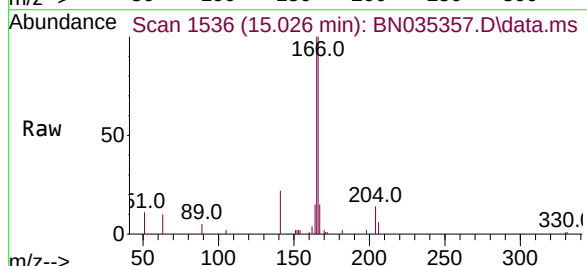
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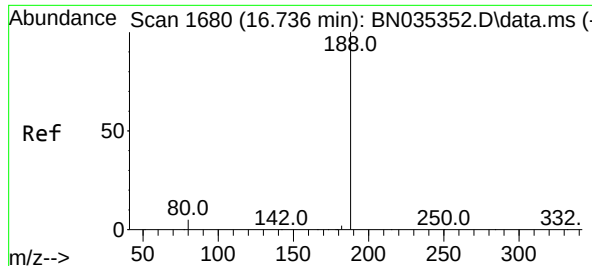
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

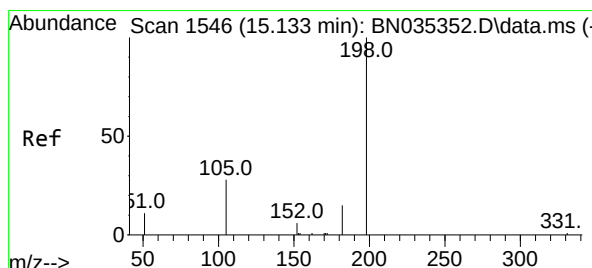
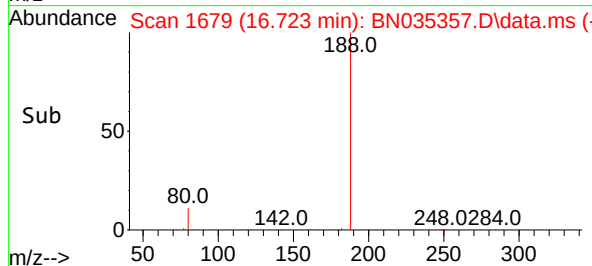
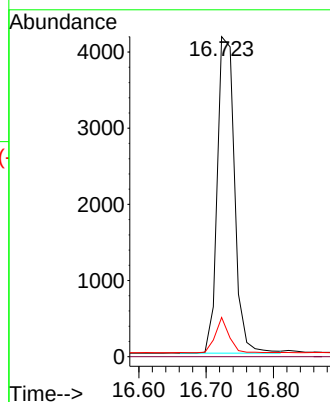
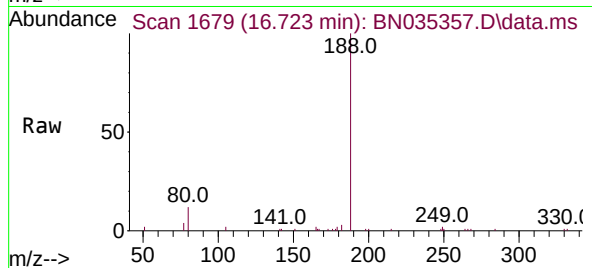
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

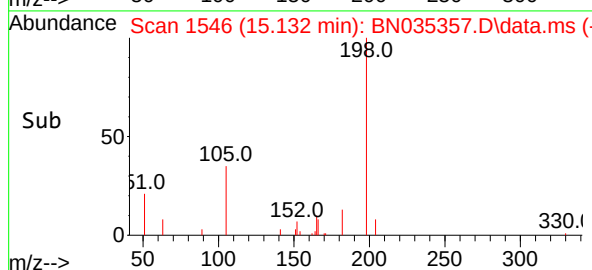
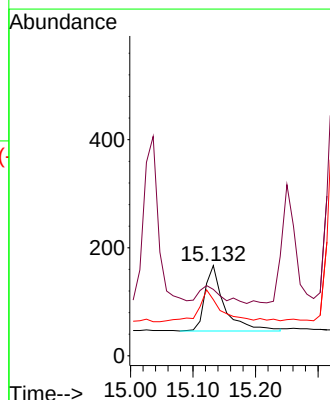
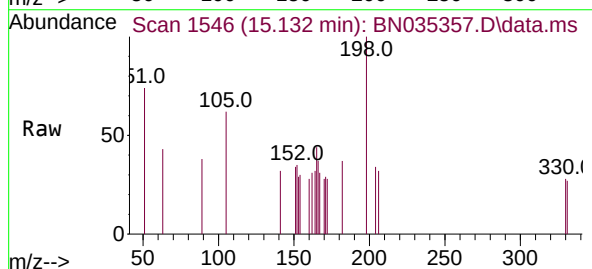
RT: 15.132 min Scan# 1546

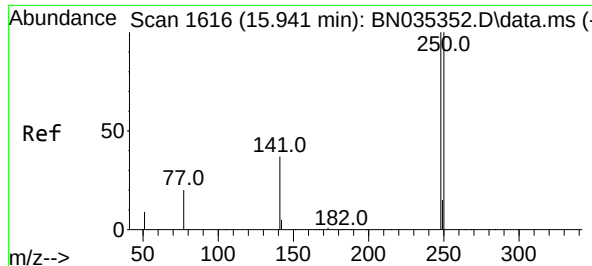
Delta R.T. -0.001 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Tgt Ion	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# 1616
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

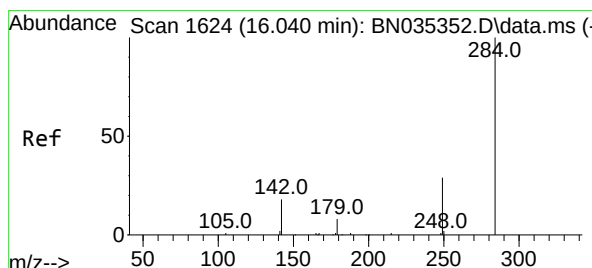
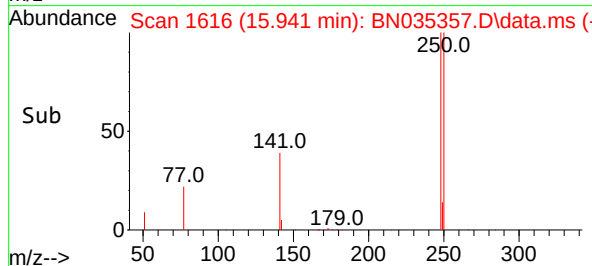
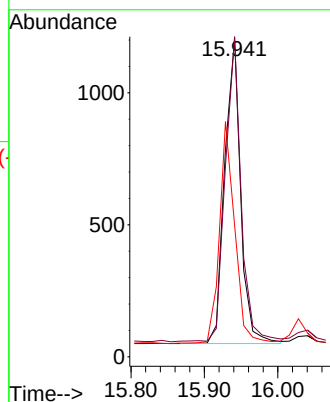
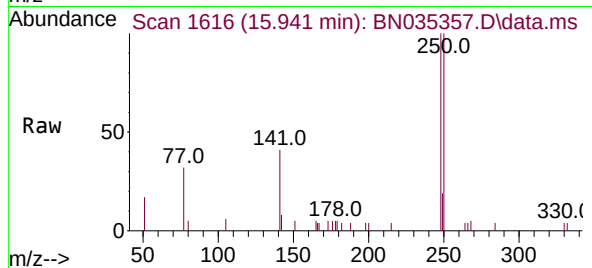
ClientSampleId :

ICVBN112724

Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3

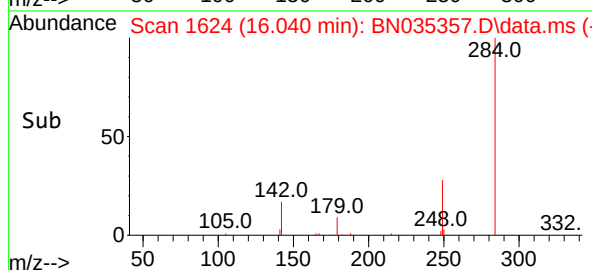
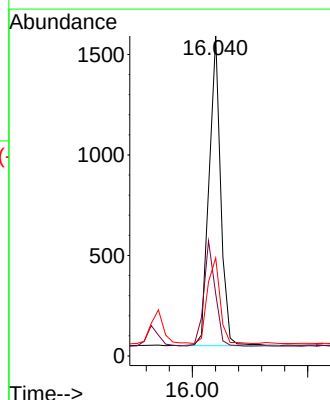
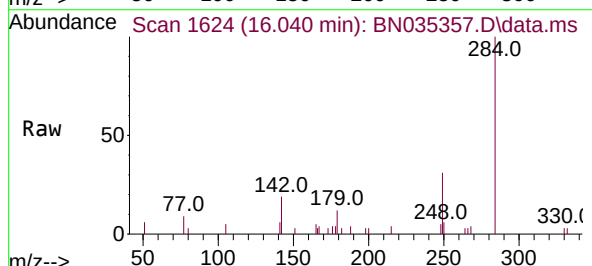
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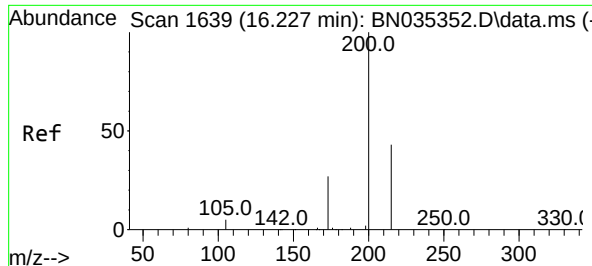
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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	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# 1639

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

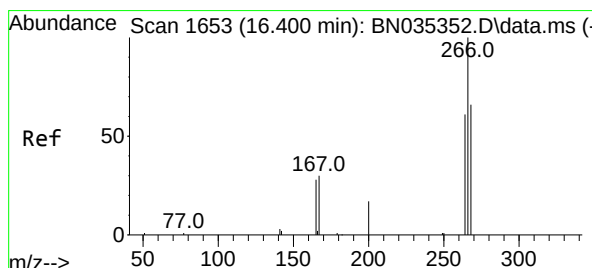
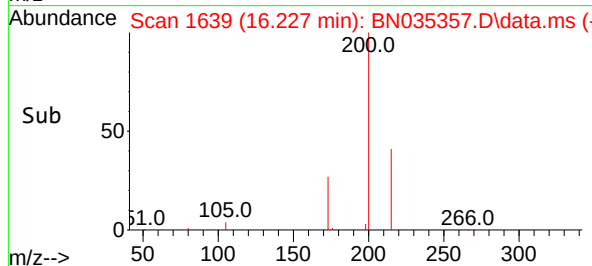
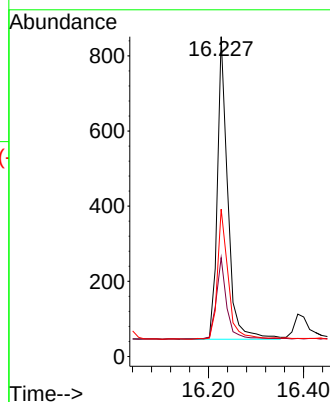
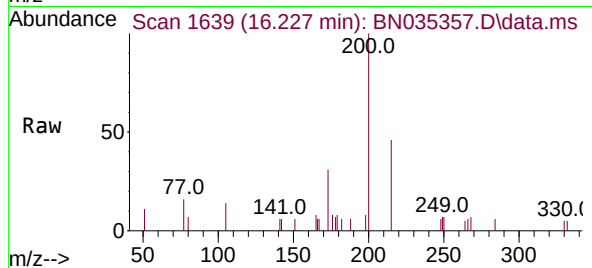
ICVBN112724

Tgt Ion:	200	Resp:	122
Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3

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

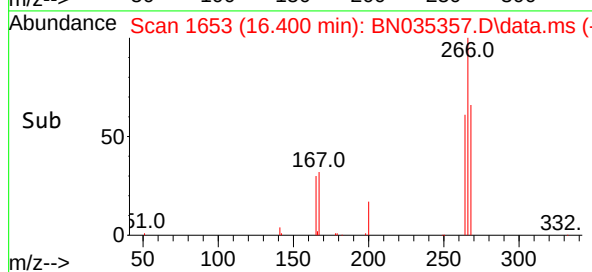
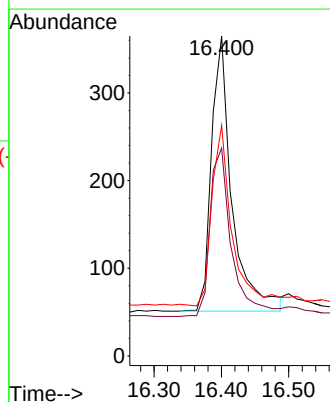
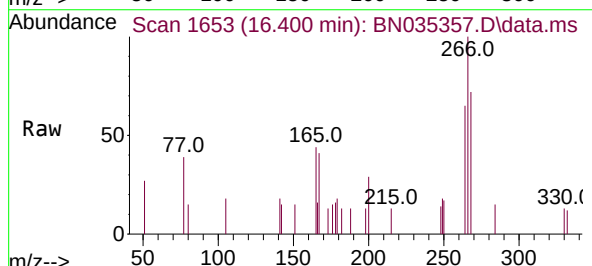
RT: 16.400 min Scan# 1653

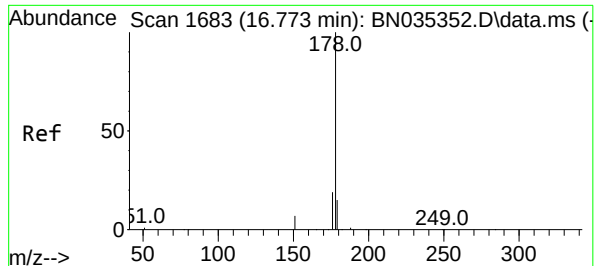
Delta R.T. -0.000 min

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# 1683

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

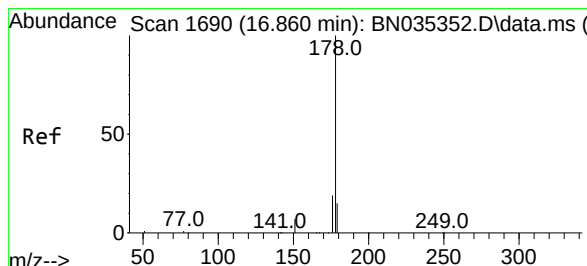
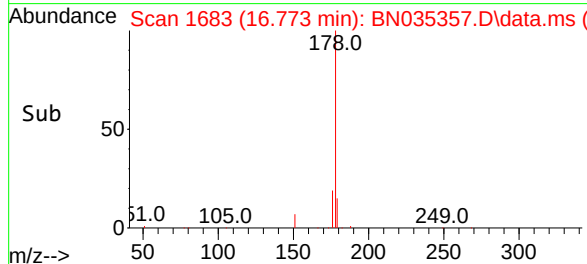
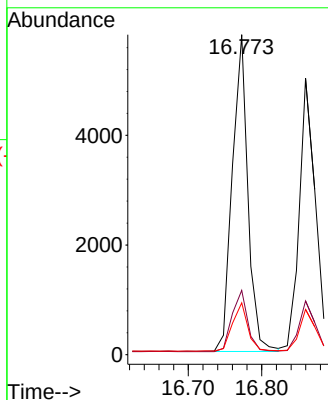
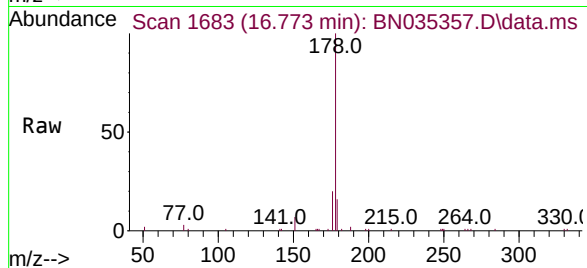
179 15.4 12.3 18.5

Manual Integrations

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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

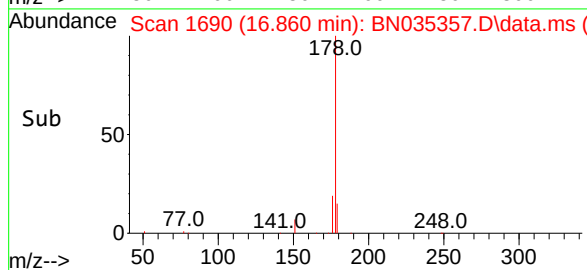
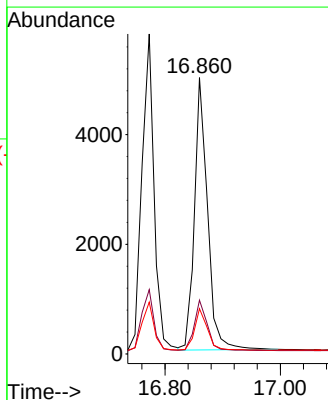
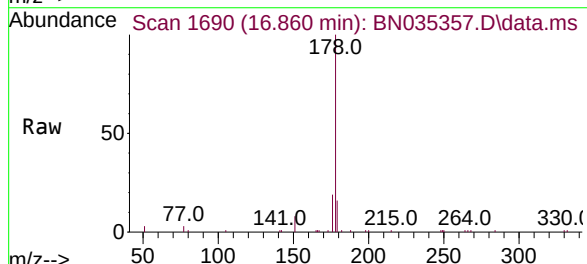
Tgt Ion:178 Resp: 7849

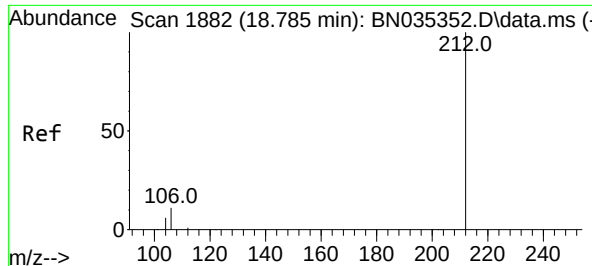
Ion Ratio Lower Upper

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# 1882

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

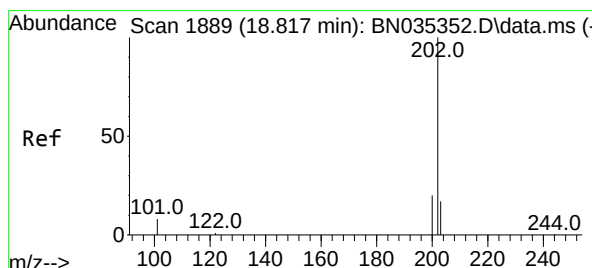
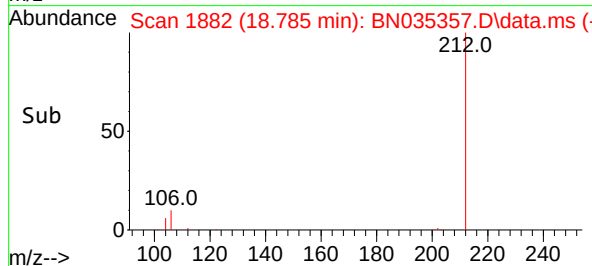
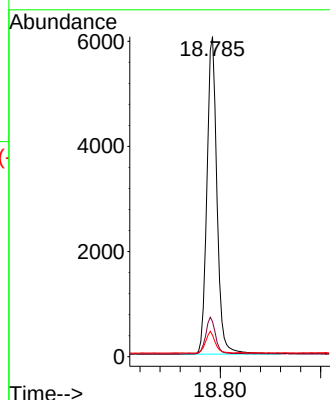
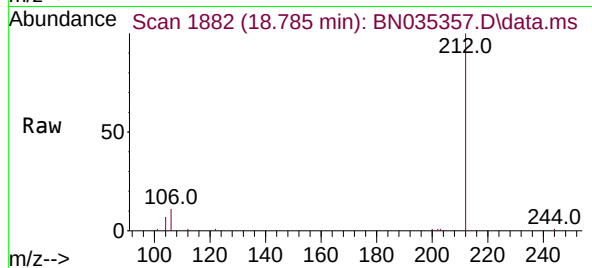
ICVBN112724

Tgt Ion:	212	Resp:	841
Ion Ratio	Lower	Upper	
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.402 ng

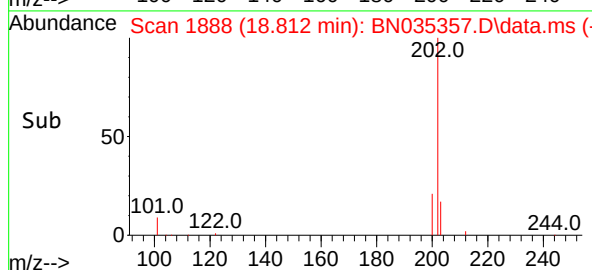
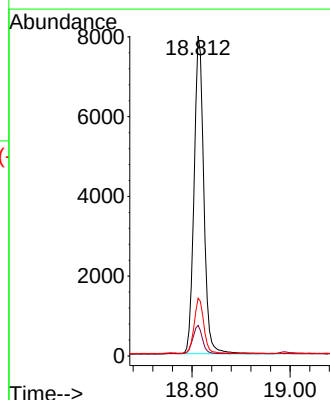
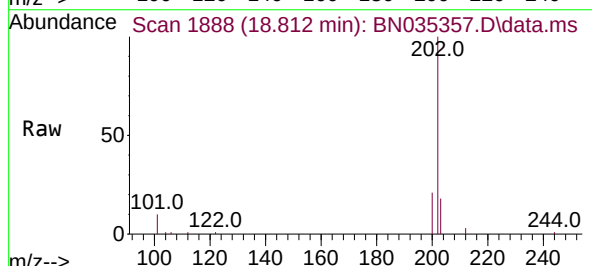
RT: 18.812 min Scan# 1888

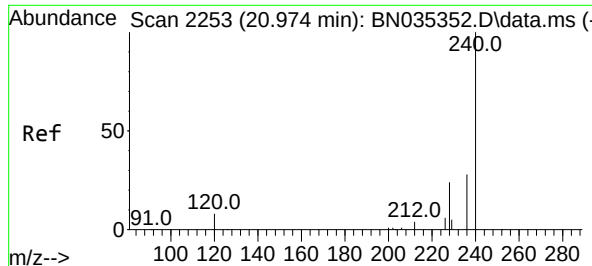
Delta R.T. -0.005 min

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# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

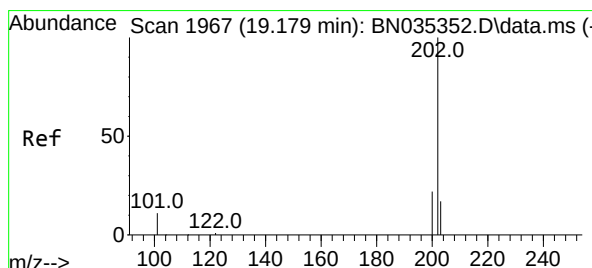
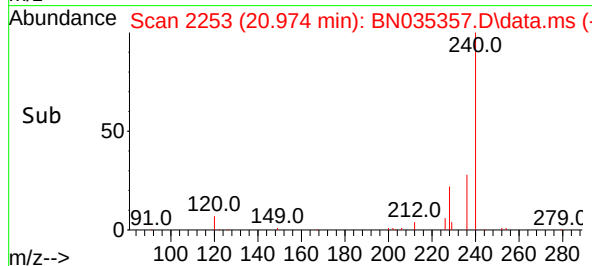
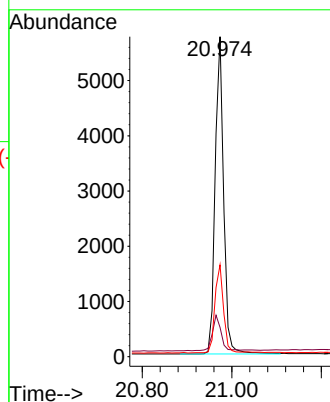
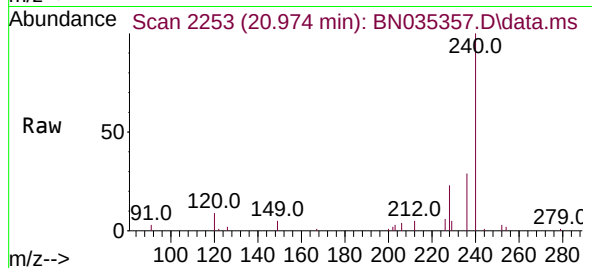
ClientSampleId :

ICVBN112724

Tgt Ion:	240	Resp:	7570
Ion Ratio	Lower	Upper	
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.410 ng

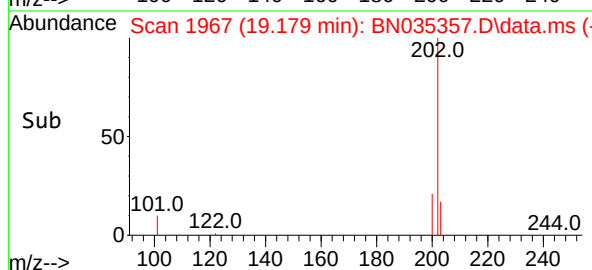
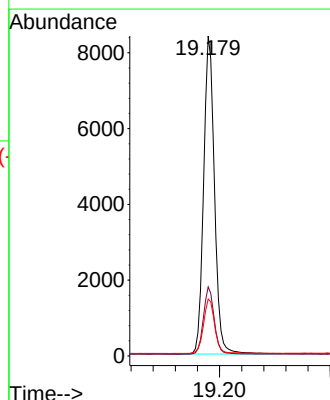
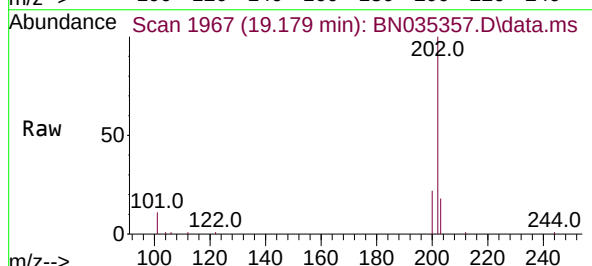
RT: 19.179 min Scan# 1967

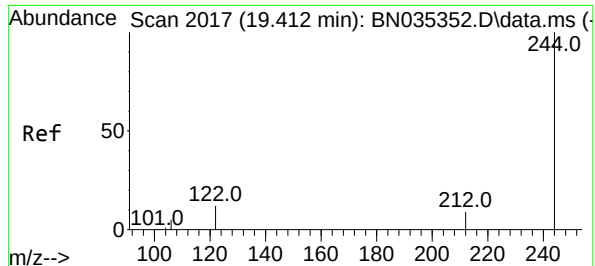
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

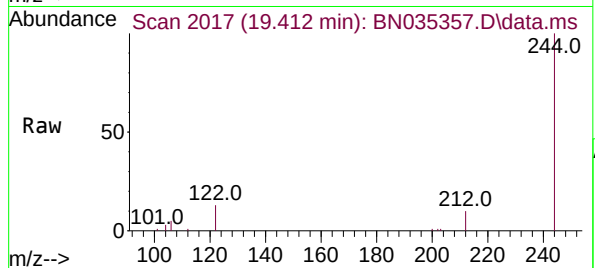
Tgt Ion:	202	Resp:	11476
Ion Ratio	Lower	Upper	
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5





#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

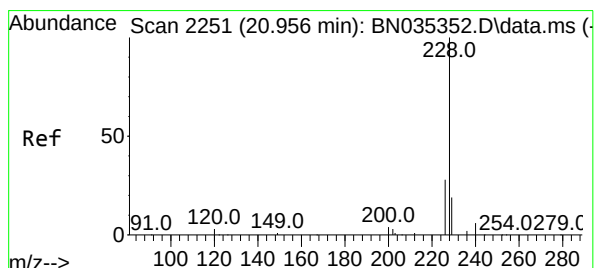
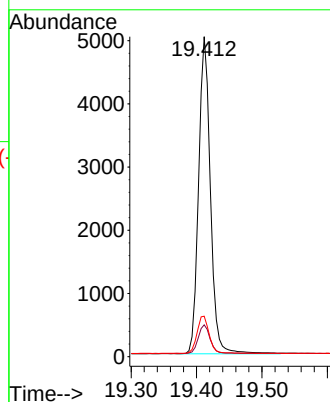
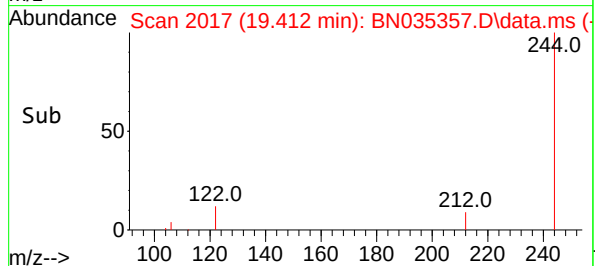
Instrument :
BNA_N
ClientSampleId :
ICVBN112724



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

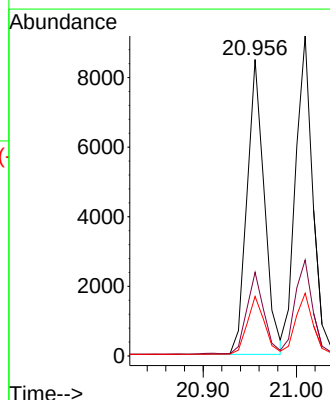
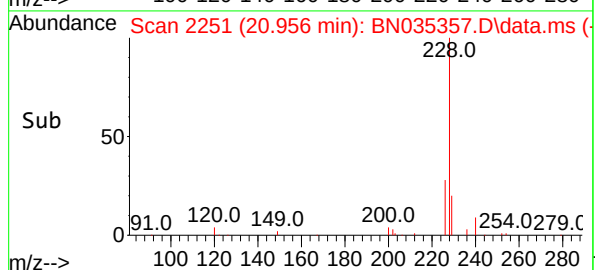
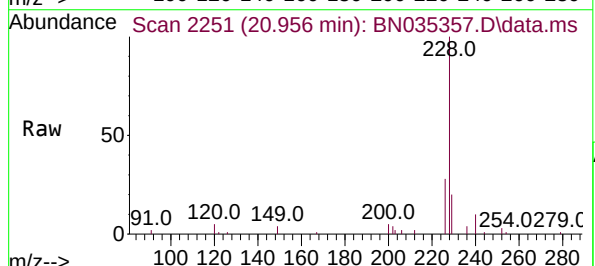
Manual Integrations
APPROVED

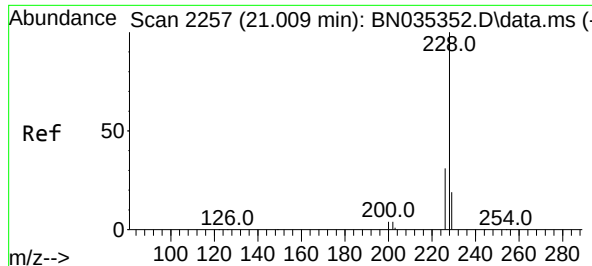
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

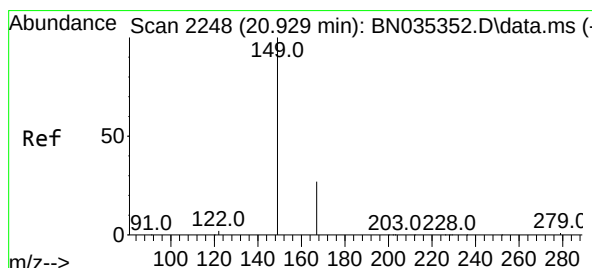
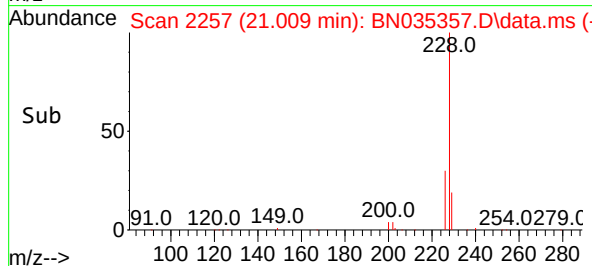
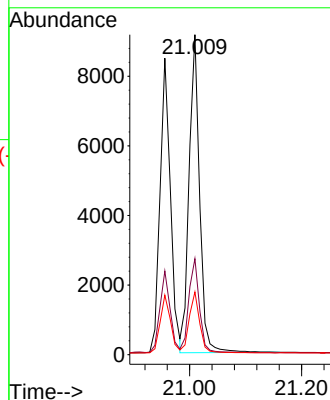
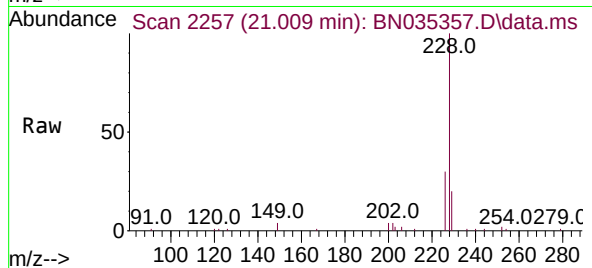
ClientSampleId :

ICVBN112724

Tgt Ion:	228	Resp:	11920
Ion Ratio	Lower	Upper	
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9

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

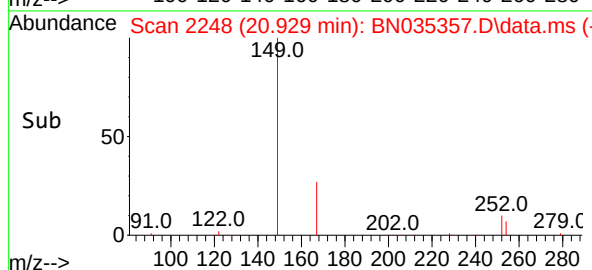
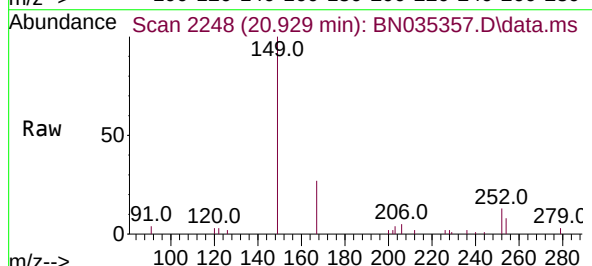
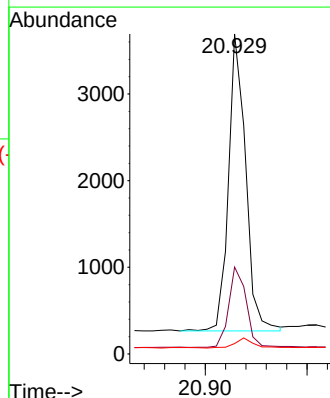
RT: 20.929 min Scan# 2248

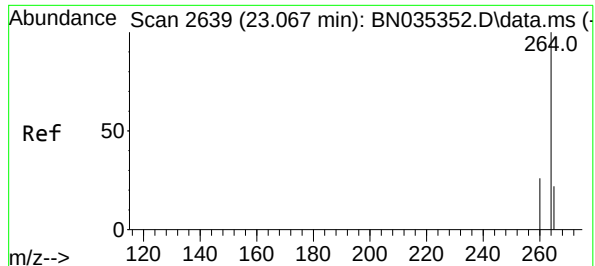
Delta R.T. -0.000 min

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# 20

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

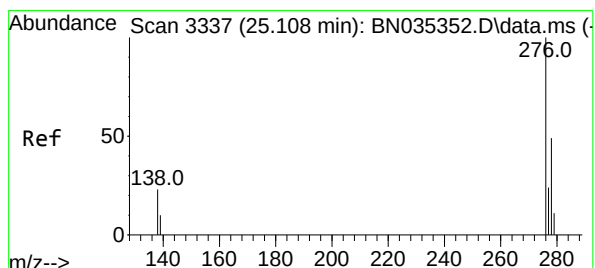
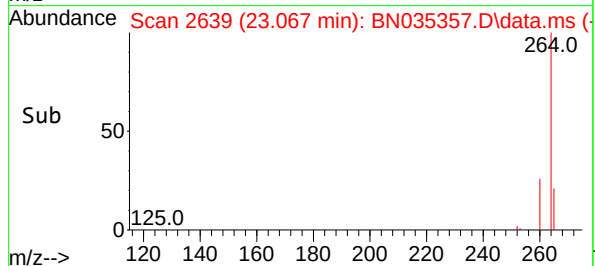
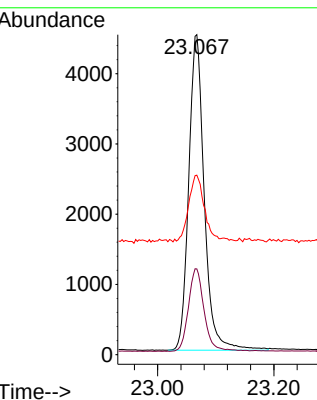
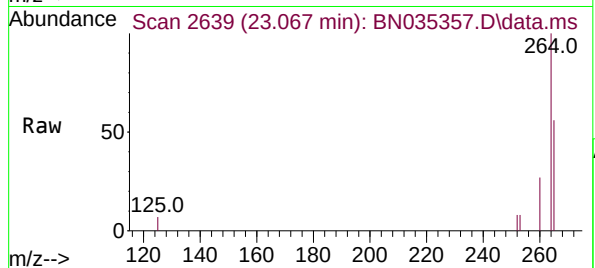
265 56.1 40.2 60.4

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

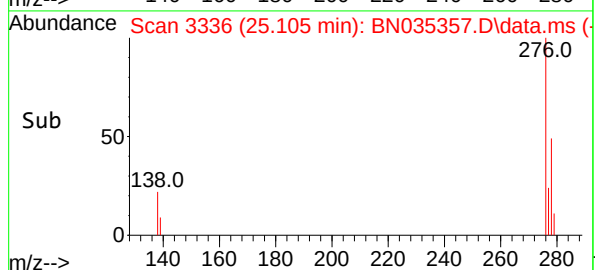
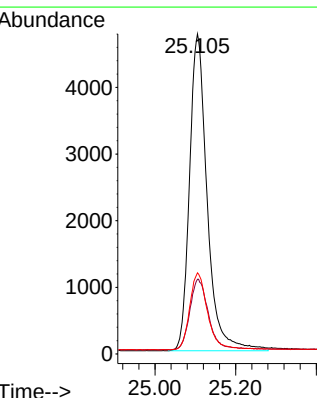
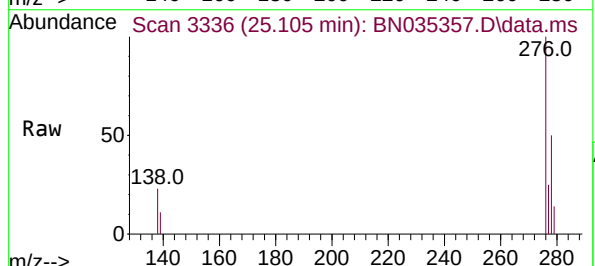
Tgt Ion:276 Resp: 14433

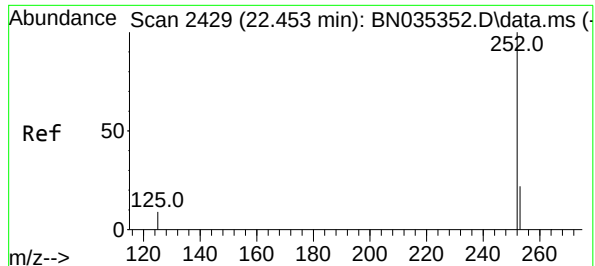
Ion Ratio Lower Upper

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# 2429

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

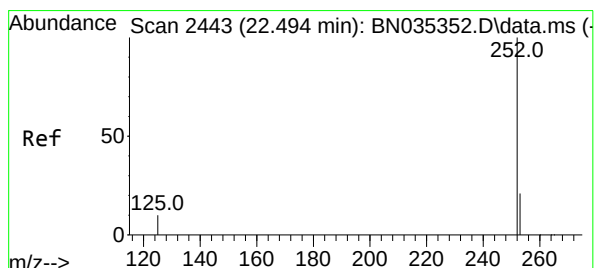
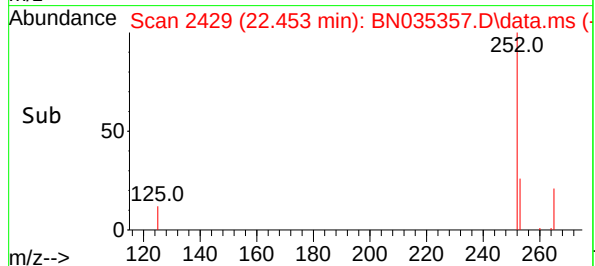
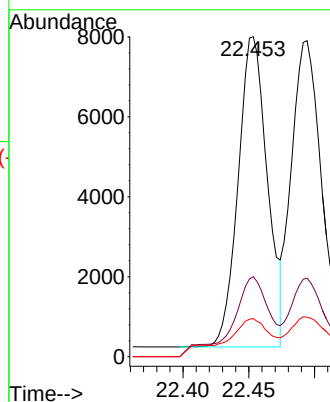
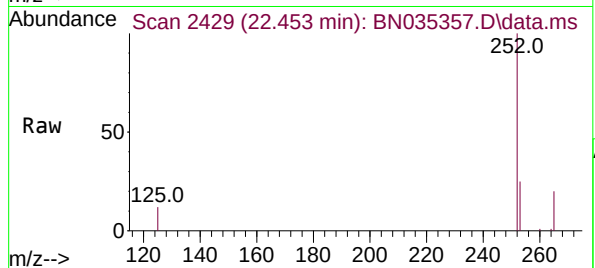
Instrument :

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

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

#38

Benzo(k)fluoranthene

Concen: 0.422 ng

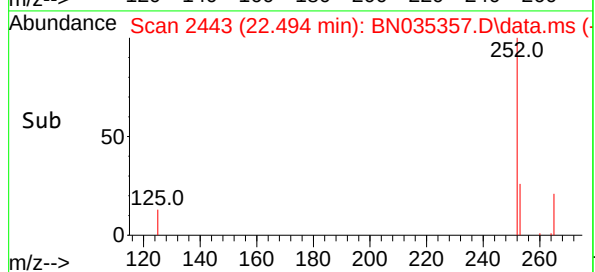
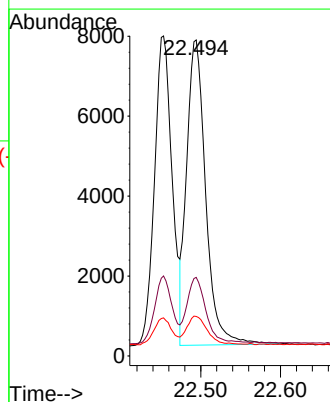
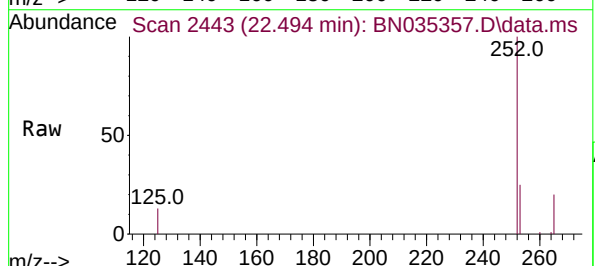
RT: 22.494 min Scan# 2443

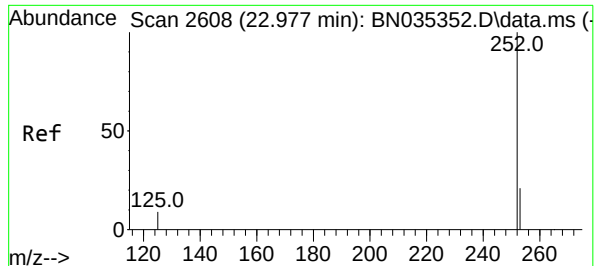
Delta R.T. -0.000 min

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# 2607

Delta R.T. -0.003 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

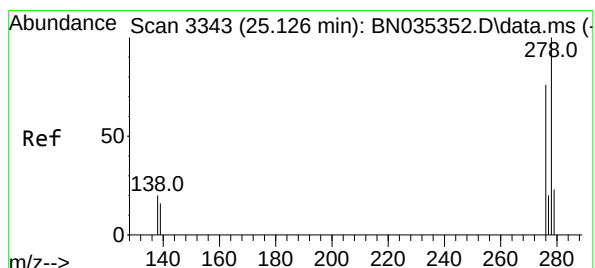
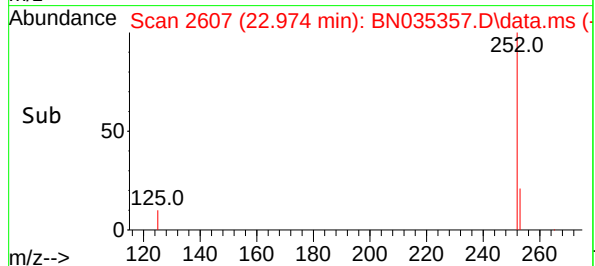
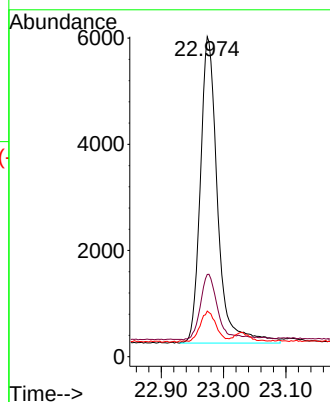
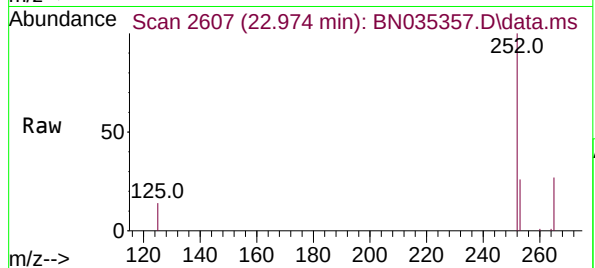
ICVBN112724

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

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

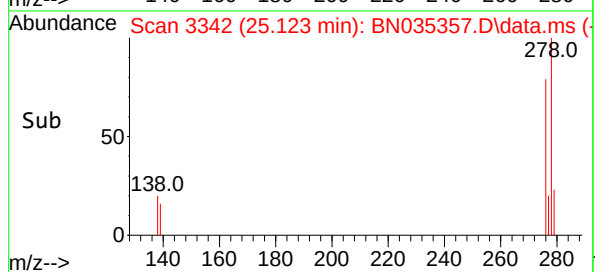
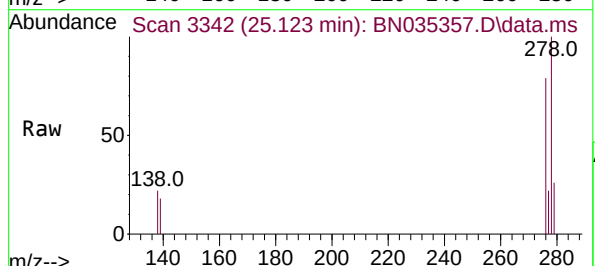
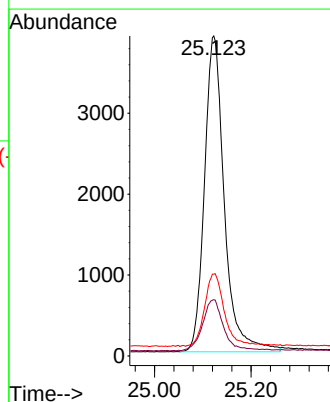
RT: 25.123 min Scan# 3342

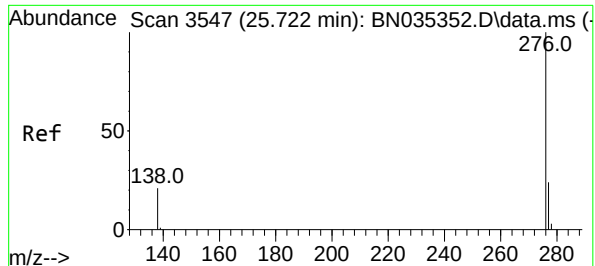
Delta R.T. -0.003 min

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

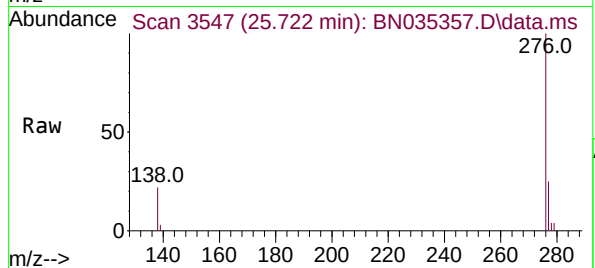
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724



Tgt Ion:276 Resp: 10870

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

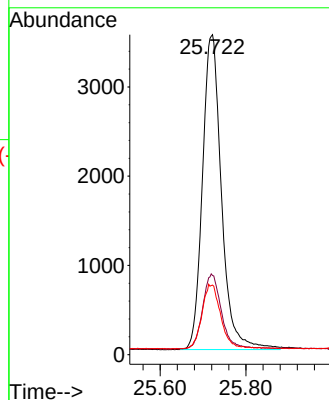
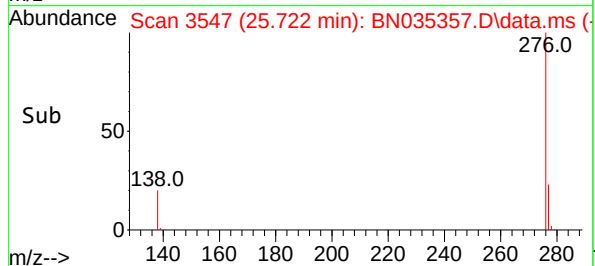
138 21.7 17.8 26.8

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

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5065 SAS No.: P5065 SDG No.: P5065

Instrument ID: BNA_N Calibration Date/Time: 12/03/2024 16:35

Lab File ID: BN035406.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	0.600		-4.2	20.0
Fluoranthene-d10	1.134	1.017		-10.3	20.0
2-Fluorophenol	1.001	0.897		-10.4	20.0
Phenol-d6	1.204	1.101		-8.6	20.0
Nitrobenzene-d5	0.244	0.236		-3.3	20.0
2-Fluorobiphenyl	1.512	1.538		1.7	20.0
2,4,6-Tribromophenol	0.284	0.253		-10.9	20.0
Terphenyl-d14	0.789	0.767		-2.8	20.0
1,4-Dioxane	0.382	0.365		-4.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035406.D
Acq On : 03 Dec 2024 16:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 03 17:45:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

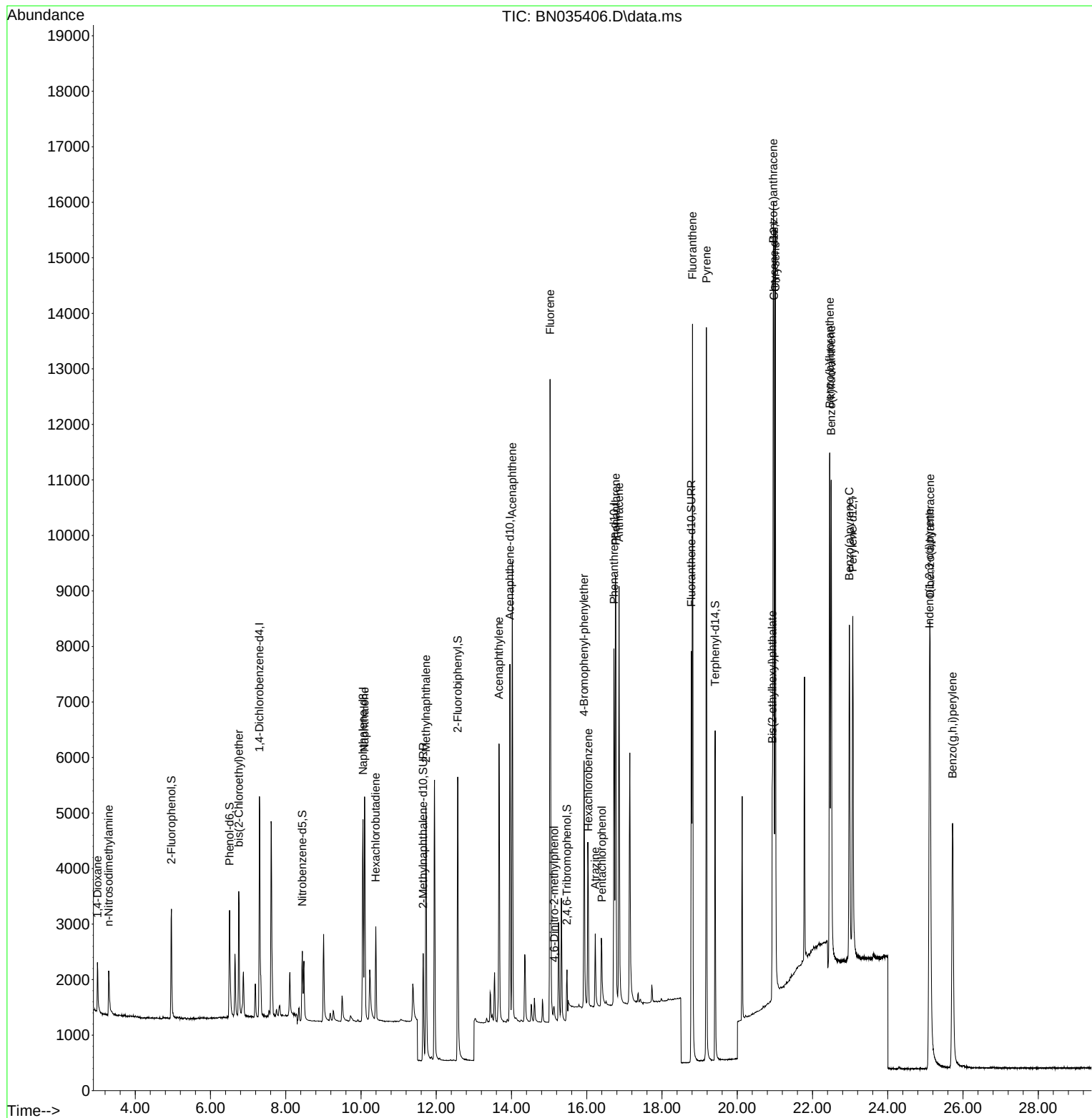
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	2015	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5135	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3625	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8862	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	8251	0.400	ng	0.00
35) Perylene-d12	23.070	264	7832	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1808	0.359	ng	0.00
5) Phenol-d6	6.506	99	2219	0.366	ng	0.00
8) Nitrobenzene-d5	8.440	82	1212m	0.386	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	3083	0.384	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	916	0.356	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5574	0.407	ng	0.00
27) Fluoranthene-d10	18.780	212	9013	0.359	ng	0.00
31) Terphenyl-d14	19.412	244	6327	0.389	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.996	88	735	0.382	ng	98
3) n-Nitrosodimethylamine	3.292	42	603	0.376	ng	# 99
6) bis(2-Chloroethyl)ether	6.752	93	1920	0.377	ng	100
9) Naphthalene	10.095	128	5329	0.393	ng	99
10) Hexachlorobutadiene	10.394	225	1309	0.419	ng	# 99
12) 2-Methylnaphthalene	11.727	142	3781	0.390	ng	99
16) Acenaphthylene	13.668	152	5887	0.387	ng	100
17) Acenaphthene	14.021	154	3907	0.387	ng	98
18) Fluorene	15.026	166	5593	0.387	ng	99
20) 4,6-Dinitro-2-methylph...	15.133	198	291	0.334	ng	# 83
21) 4-Bromophenyl-phenylether	15.929	248	2060	0.397	ng	# 75
22) Hexachlorobenzene	16.040	284	2548	0.419	ng	98
23) Atrazine	16.227	200	1209	0.328	ng	98
24) Pentachlorophenol	16.400	266	848	0.320	ng	# 84
25) Phenanthrene	16.773	178	9564	0.393	ng	100
26) Anthracene	16.860	178	8243	0.374	ng	100
28) Fluoranthene	18.812	202	12056	0.367	ng	100
30) Pyrene	19.179	202	12183	0.400	ng	100
32) Benzo(a)anthracene	20.956	228	10317	0.357	ng	99
33) Chrysene	21.009	228	12005	0.403	ng	100
34) Bis(2-ethylhexyl)phtha...	20.929	149	3769	0.331	ng	99
36) Indeno(1,2,3-cd)pyrene	25.108	276	11257	0.368	ng	98
37) Benzo(b)fluoranthene	22.456	252	11172	0.390	ng	99
38) Benzo(k)fluoranthene	22.497	252	11663	0.414	ng	99
39) Benzo(a)pyrene	22.980	252	9142	0.387	ng	98
40) Dibenzo(a,h)anthracene	25.126	278	8667	0.359	ng	99
41) Benzo(g,h,i)perylene	25.722	276	9676	0.383	ng	100

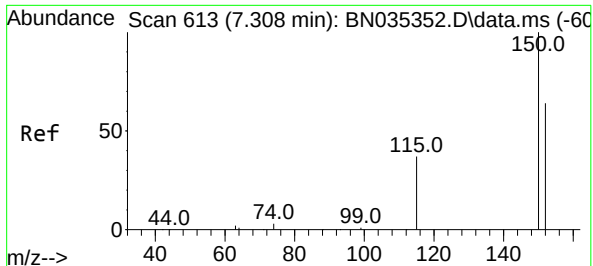
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035406.D
Acq On : 03 Dec 2024 16:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 03 17:45:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

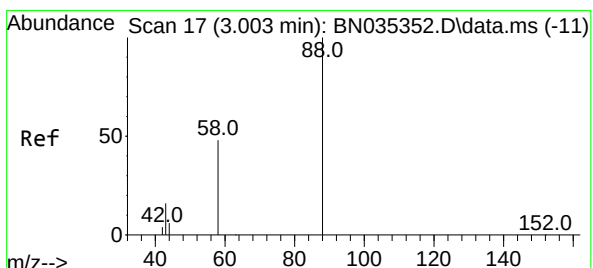
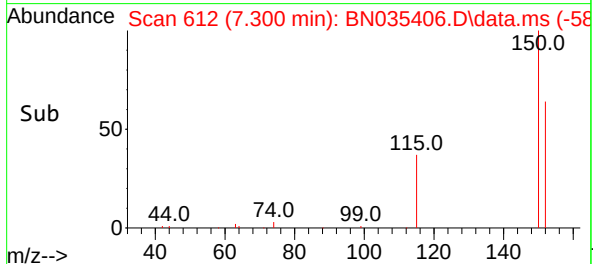
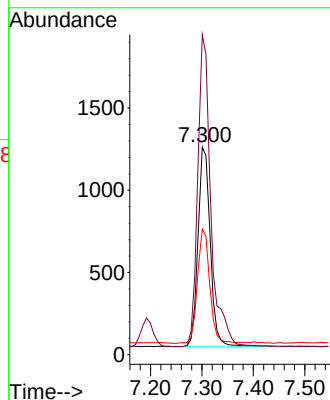
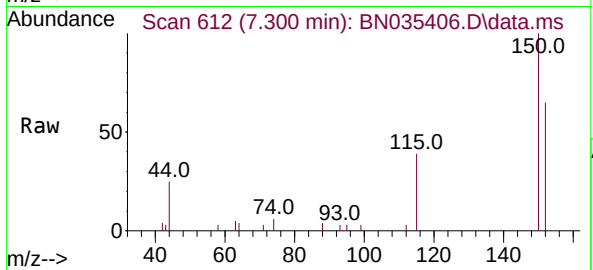




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

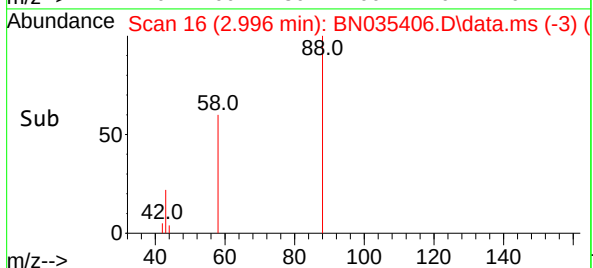
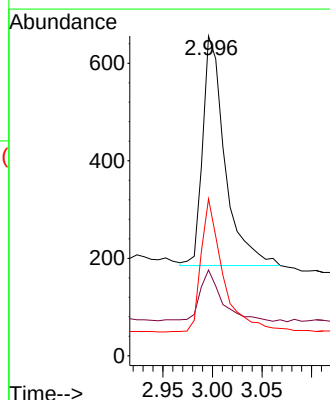
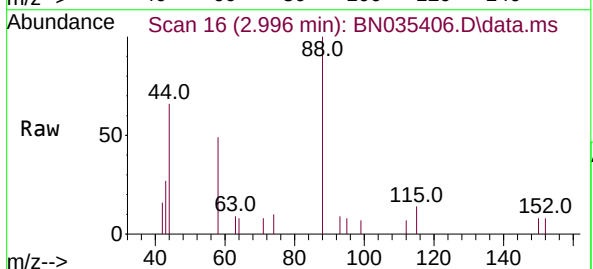
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

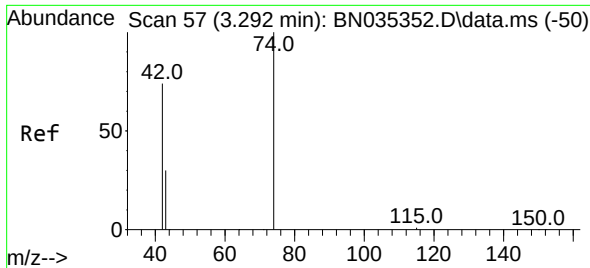
Tgt Ion:152 Resp: 2015
Ion Ratio Lower Upper
152 100
150 154.1 124.0 186.0
115 60.6 49.6 74.4



#2
1,4-Dioxane
Concen: 0.382 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion: 88 Resp: 735
Ion Ratio Lower Upper
88 100
43 22.2 17.2 25.8
58 57.3 44.5 66.7

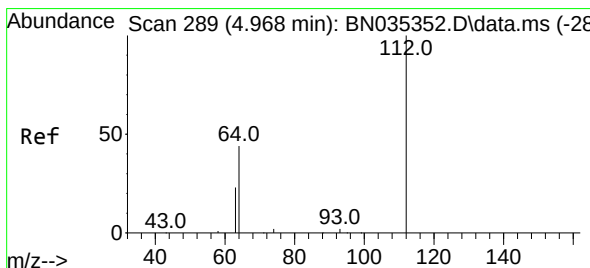
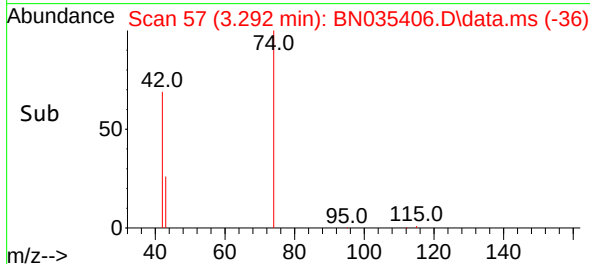
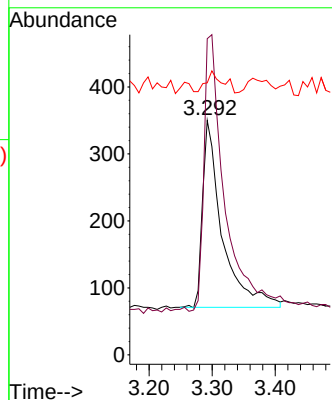
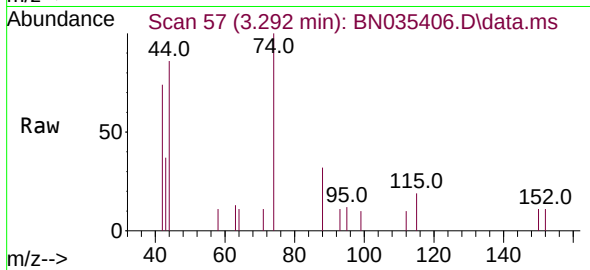




#3
n-Nitrosodimethylamine
Concen: 0.376 ng
RT: 3.292 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

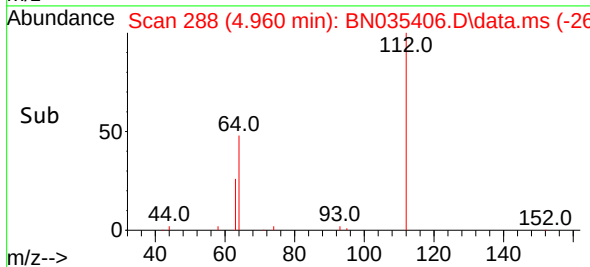
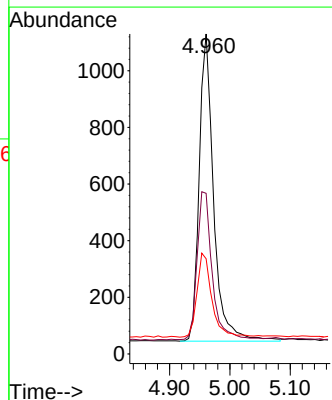
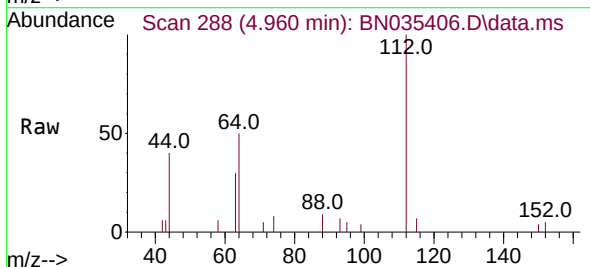
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

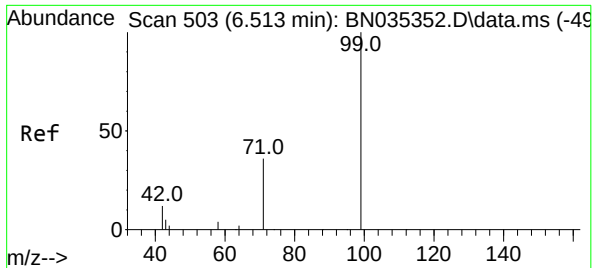
Tgt Ion: 42 Resp: 603
Ion Ratio Lower Upper
42 100
74 156.4 124.9 187.3
44 9.0 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.359 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion: 112 Resp: 1808
Ion Ratio Lower Upper
112 100
64 50.3 39.8 59.8
63 28.2 21.0 31.6

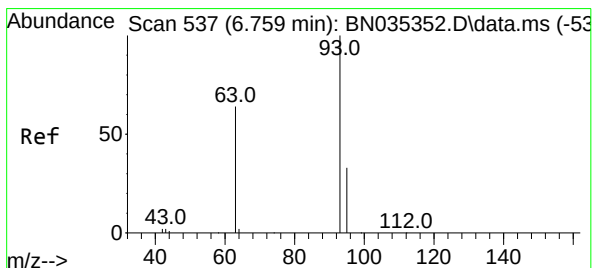
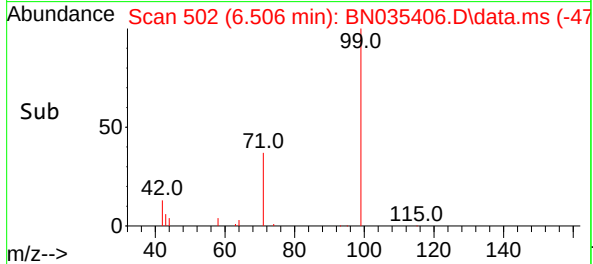
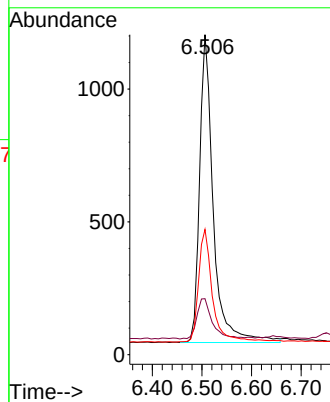
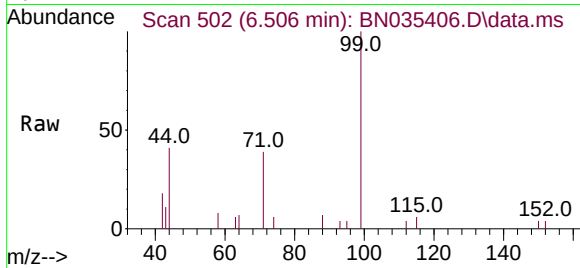




#5
Phenol-d6
Concen: 0.366 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

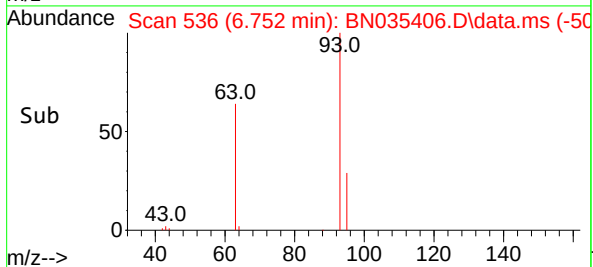
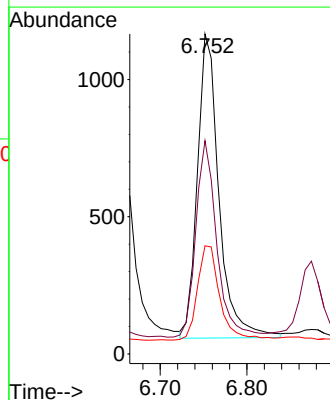
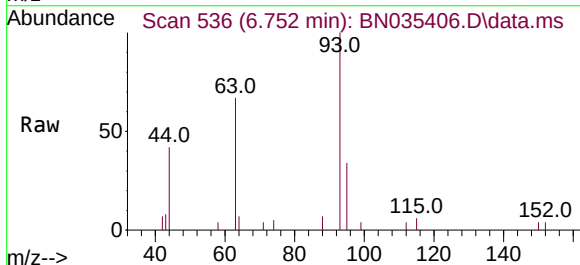
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

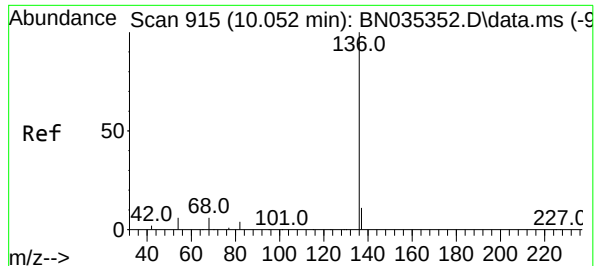
Tgt Ion:	99	Resp:	2219
Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	37.3	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.377 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:	93	Resp:	1920
Ion	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	32.1	25.7	38.5

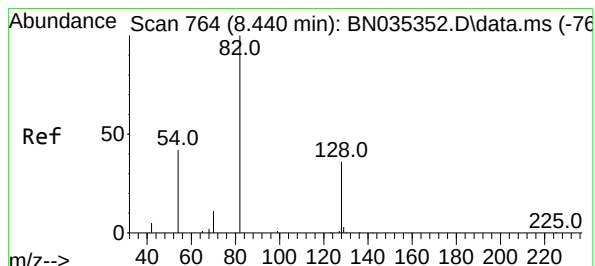
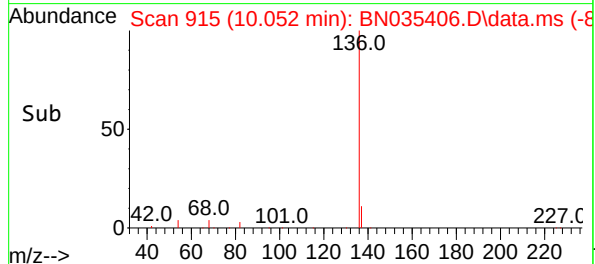
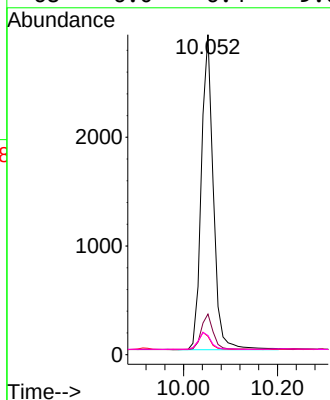
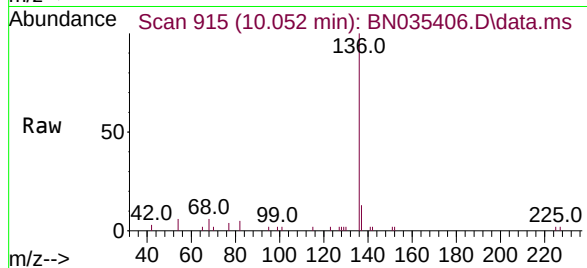




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

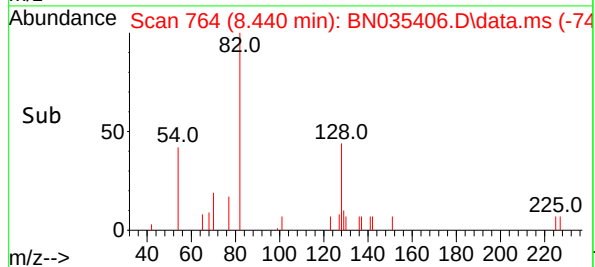
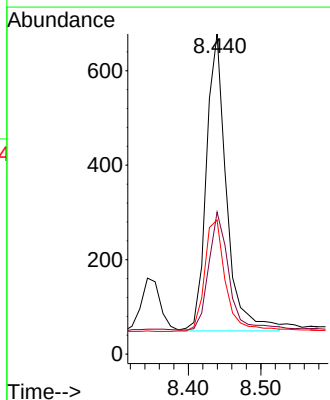
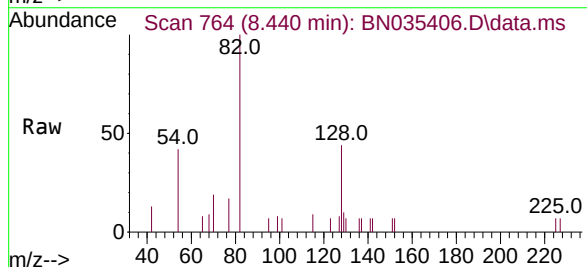
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

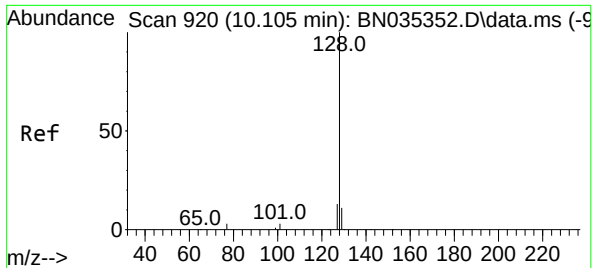
Tgt Ion:	136	Resp:	5135
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	5.8	6.1	9.1#
68	6.0	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.386 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:	82	Resp:	1212
Ion	Ratio	Lower	Upper
82	100		
128	44.4	33.4	50.0
54	41.9	36.7	55.1

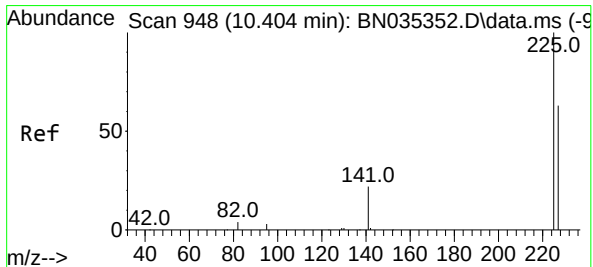
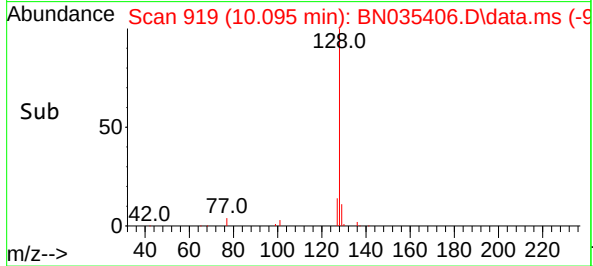
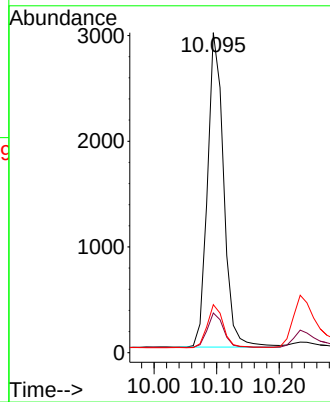
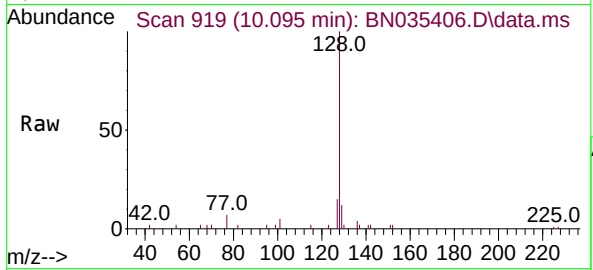




#9
Naphthalene
Concen: 0.393 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

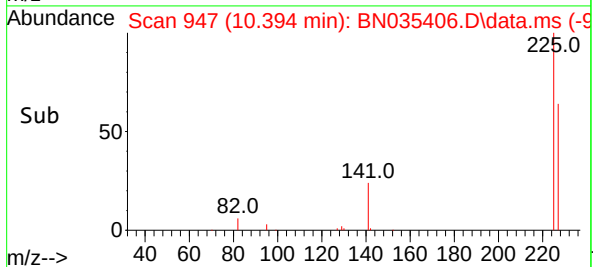
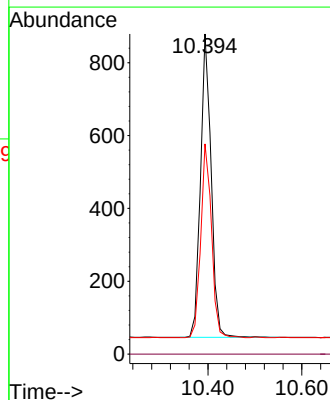
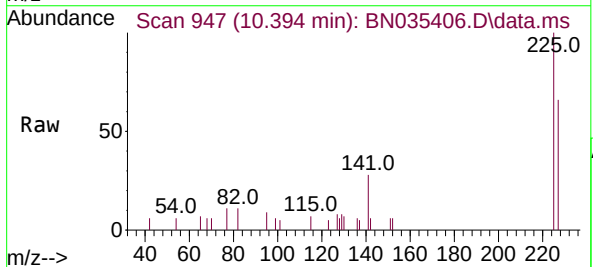
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

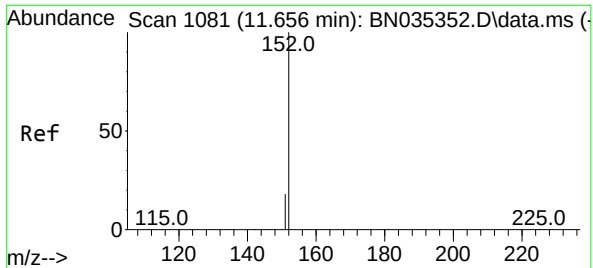
Tgt Ion:128 Resp: 5329
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 15.0 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:225 Resp: 1309
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.6 51.3 76.9

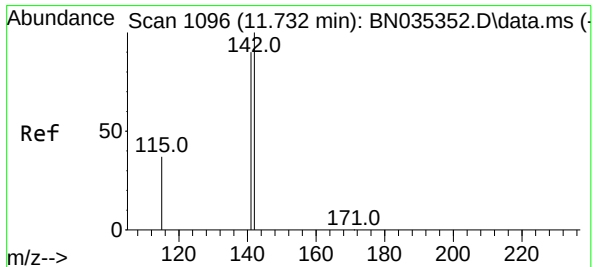
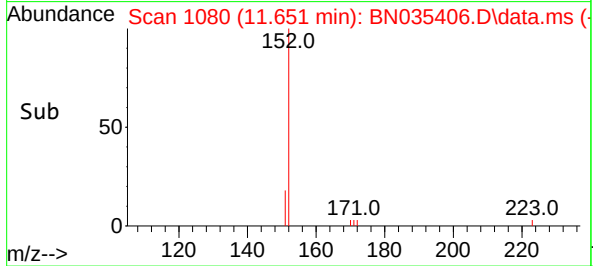
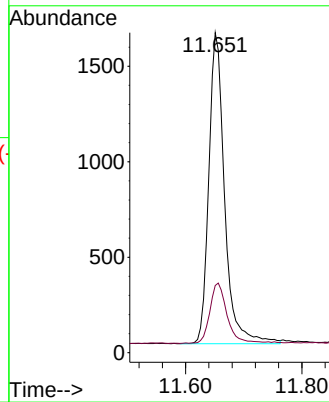
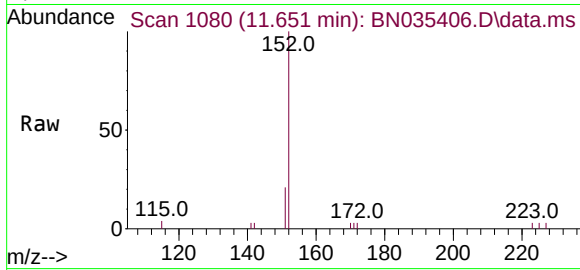




#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

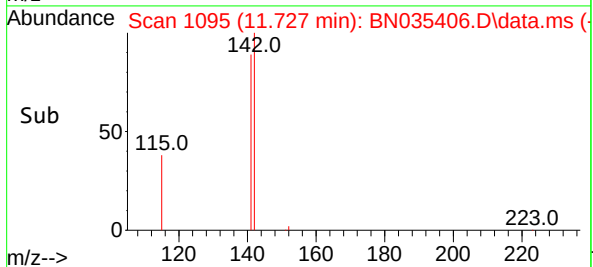
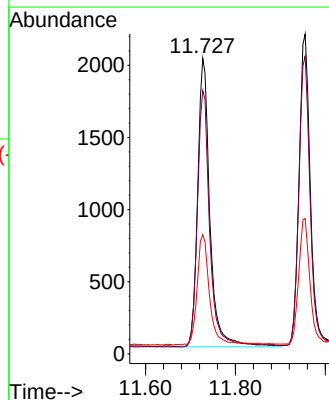
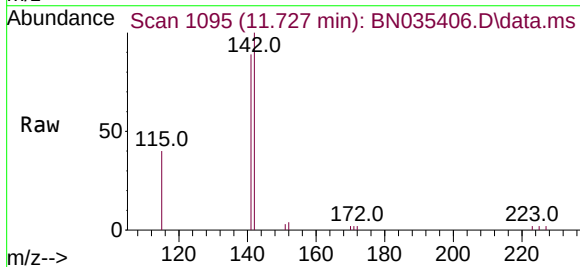
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

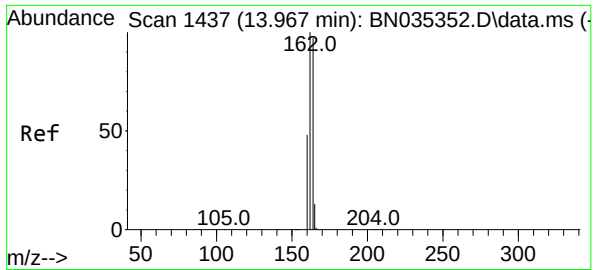
Tgt Ion:152 Resp: 3083
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 11.727 min Scan# 1095
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:142 Resp: 3781
Ion Ratio Lower Upper
142 100
141 89.1 72.2 108.4
115 40.4 31.4 47.0

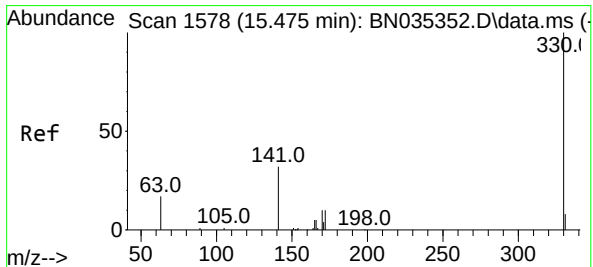
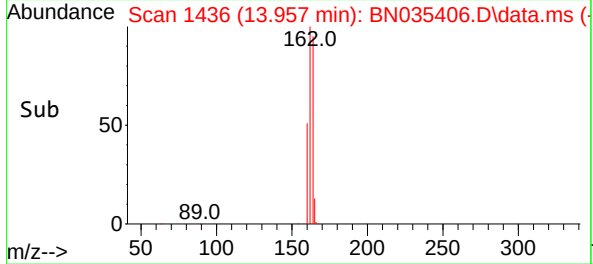
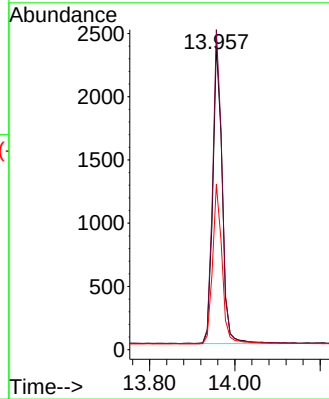
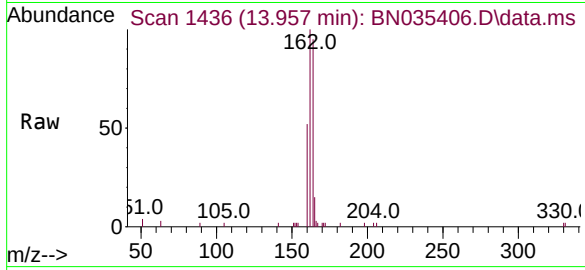




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

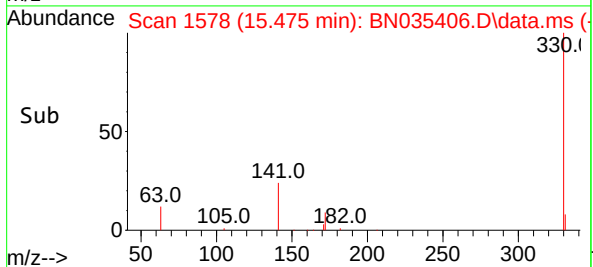
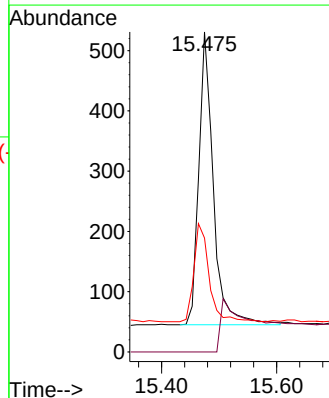
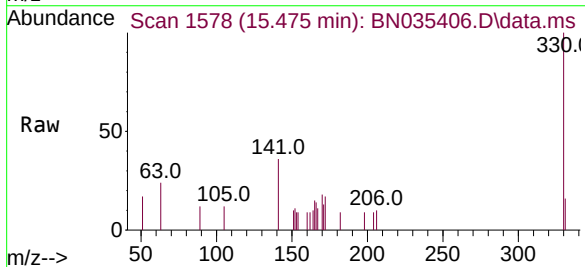
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

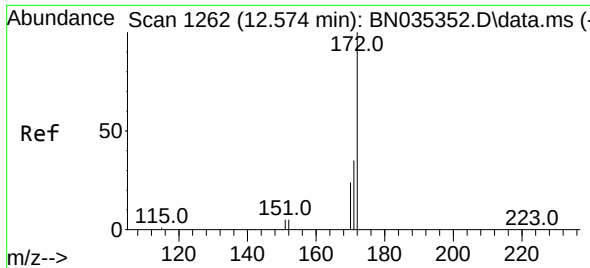
Tgt Ion:164 Resp: 3625
Ion Ratio Lower Upper
164 100
162 105.2 82.2 123.2
160 54.3 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:330 Resp: 916
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.5 26.6 40.0

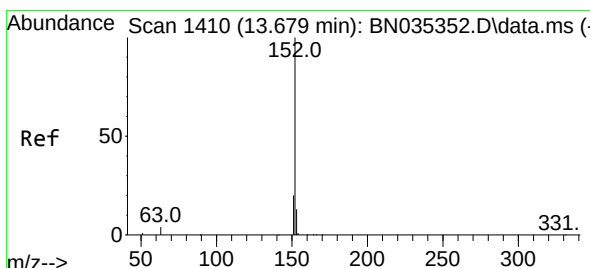
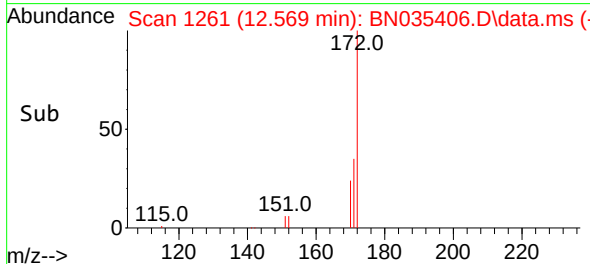
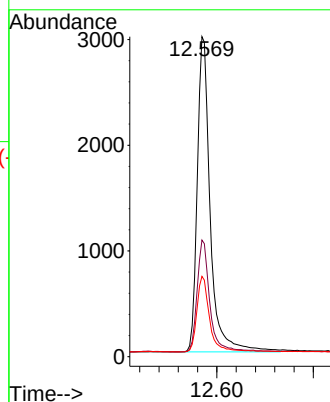
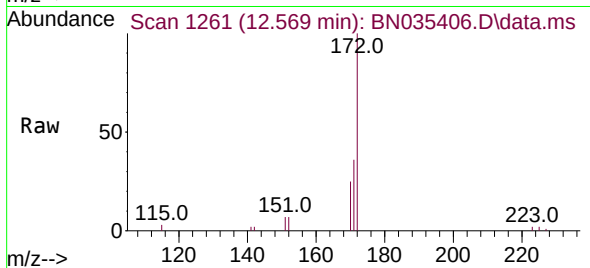




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 12.569 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

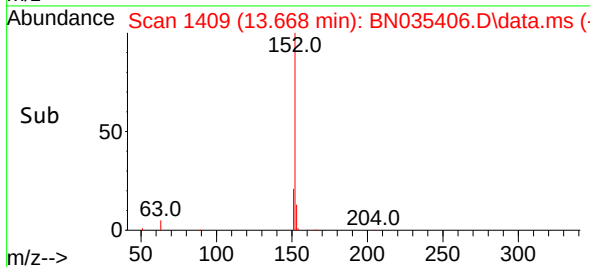
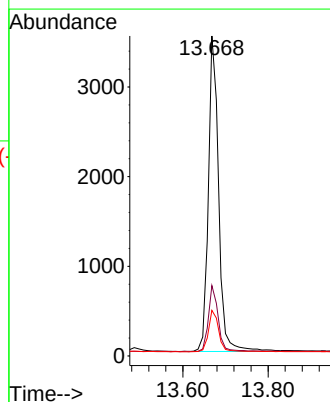
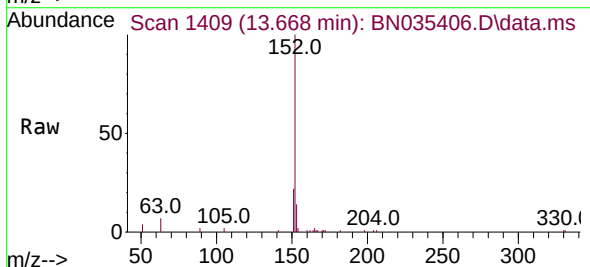
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

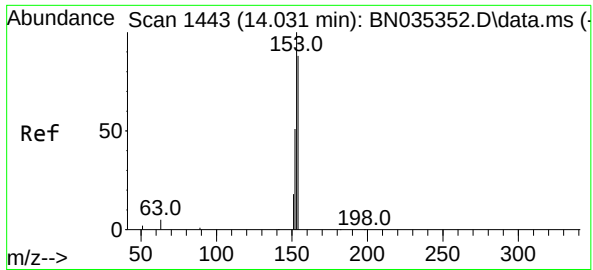
Tgt Ion:	172	Resp:	5574
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	25.1	19.8	29.8



#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:	152	Resp:	5887
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.2	10.4	15.6

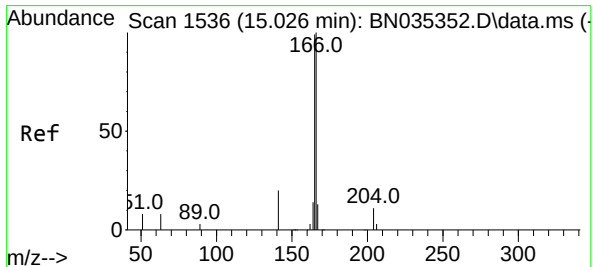
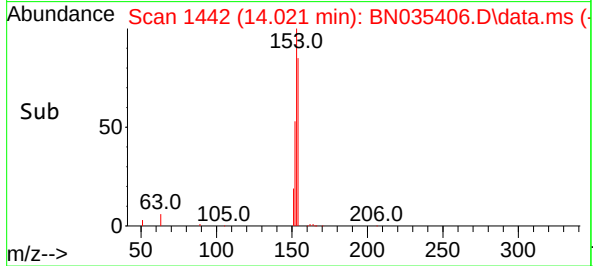
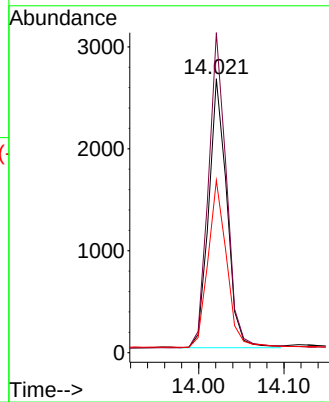
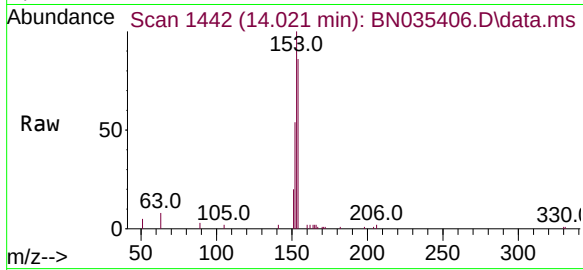




#17
Acenaphthene
Concen: 0.387 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

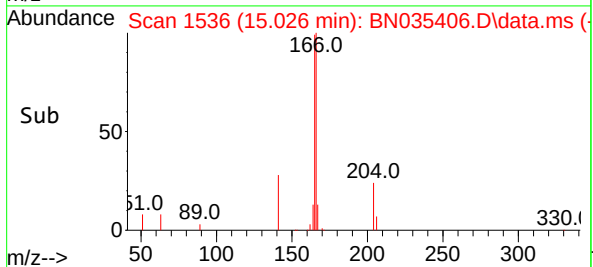
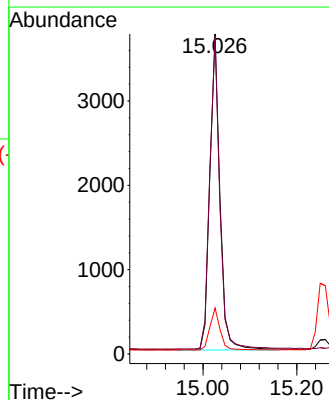
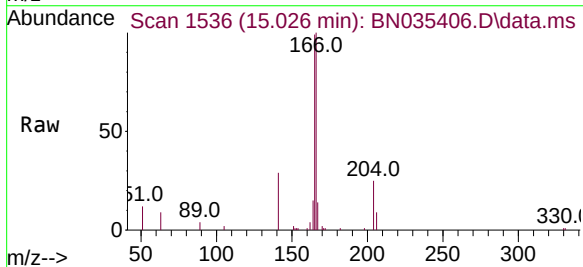
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

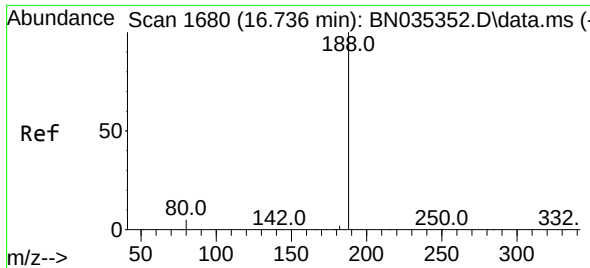
Tgt Ion:	154	Resp:	3907
Ion	Ratio	Lower	Upper
154	100		
153	117.9	92.6	139.0
152	63.5	49.0	73.6



#18
Fluorene
Concen: 0.387 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:	166	Resp:	5593
Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	13.3	10.8	16.2

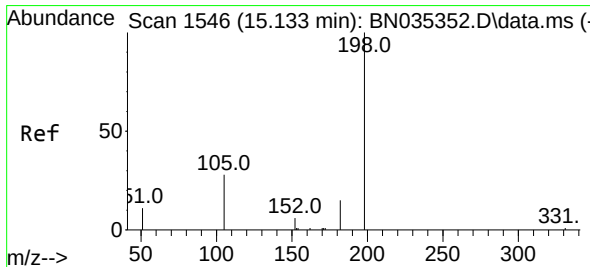
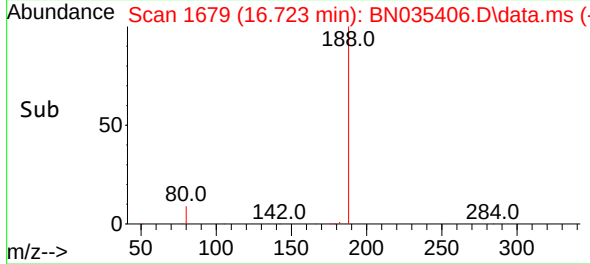
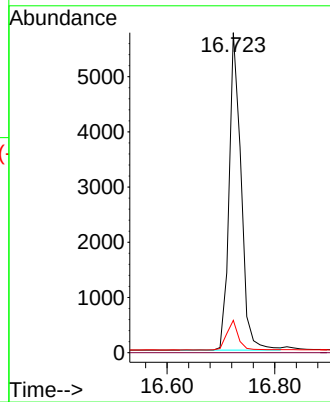
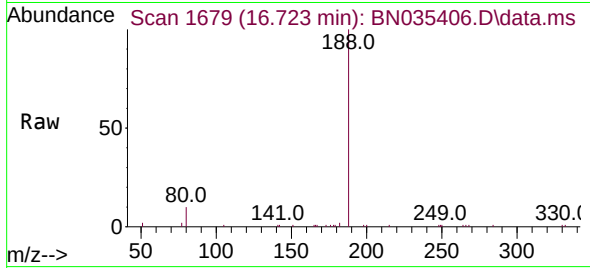




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

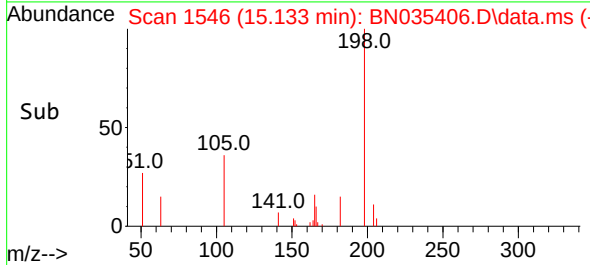
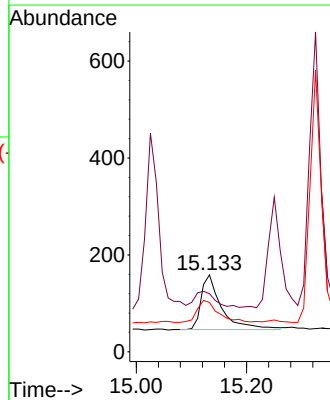
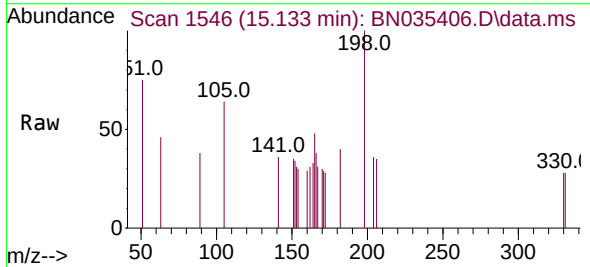
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

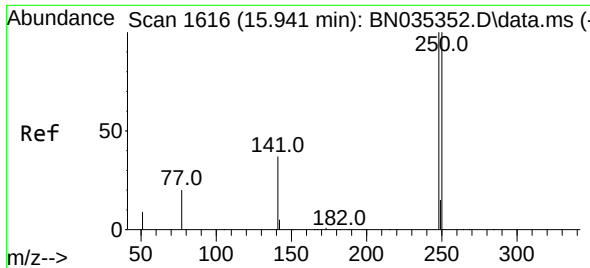
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	4.6	6.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion	Ratio	Lower	Upper
198	100		
51	75.5	46.5	69.7#
105	64.2	45.3	67.9

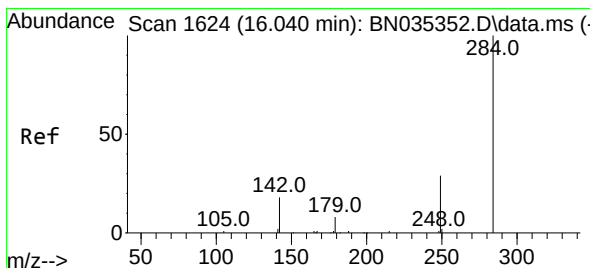
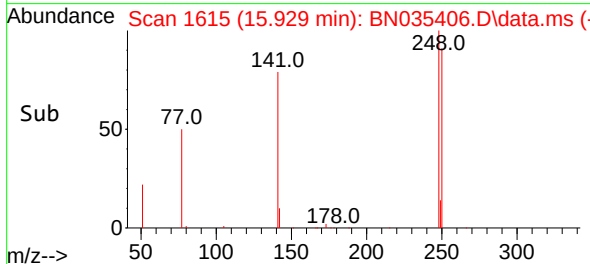
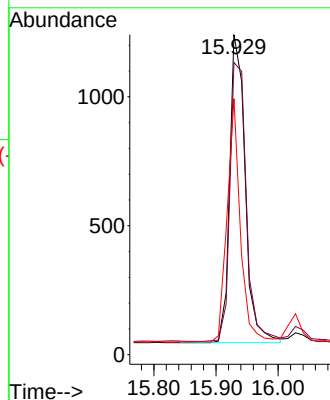
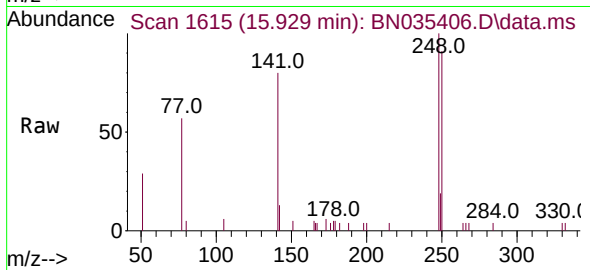




#21
4-Bromophenyl-phenylether
Concen: 0.397 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

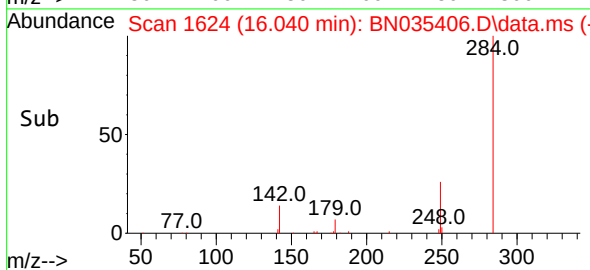
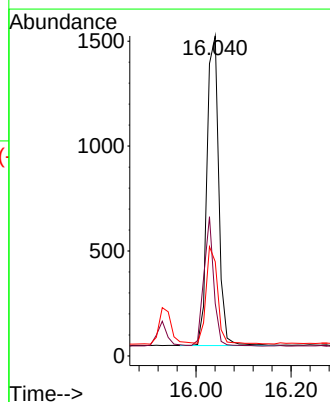
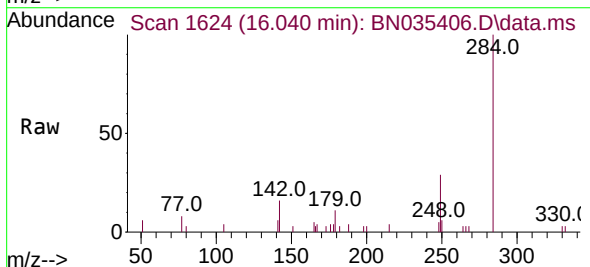
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

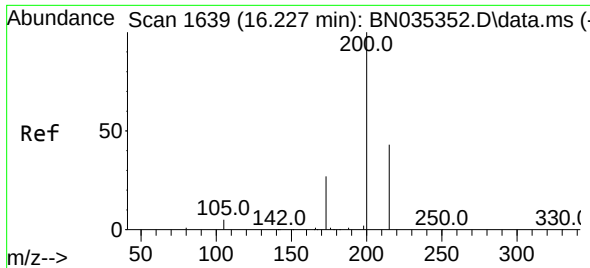
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.3	80.6	120.8
141	80.0	31.5	47.3



#22
Hexachlorobenzene
Concen: 0.419 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	31.2	24.6	36.8

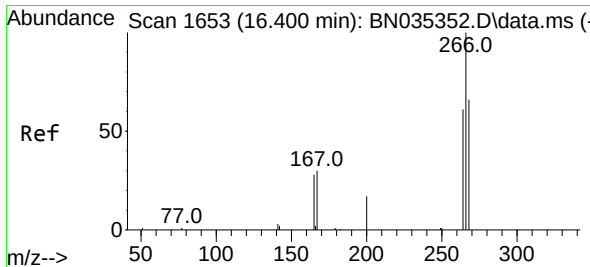
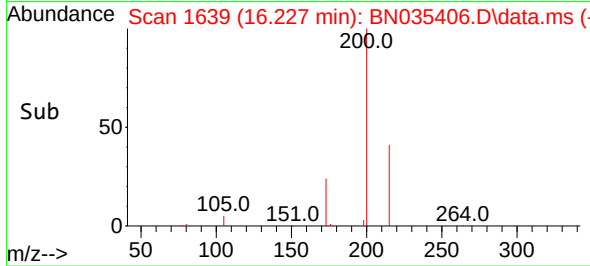
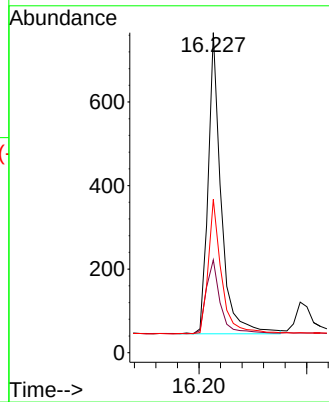
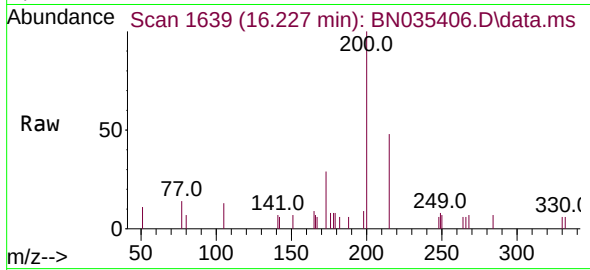




#23
Atrazine
Concen: 0.328 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

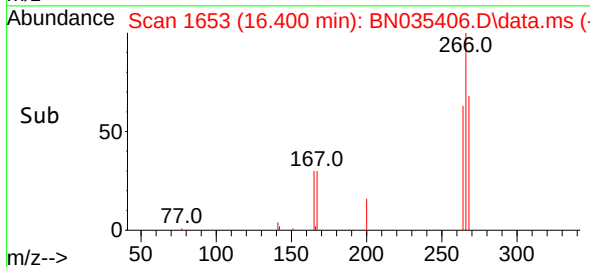
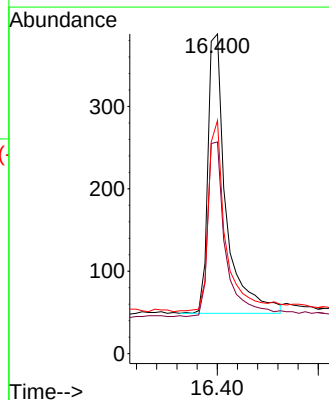
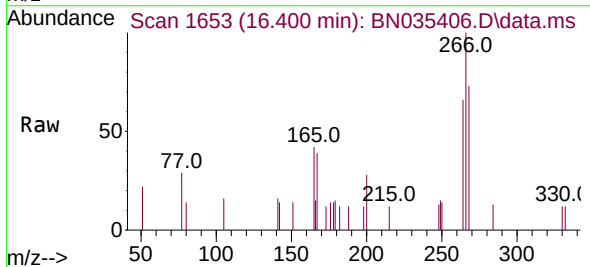
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

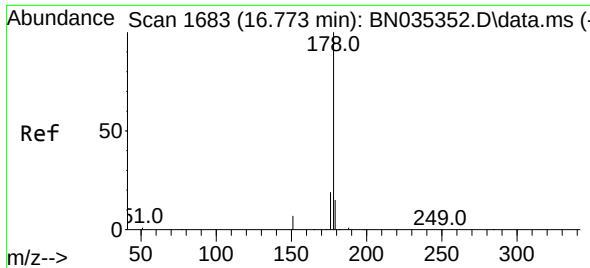
Tgt Ion:	200	Resp:	1209
Ion Ratio	Lower	Upper	
200	100		
173	29.0	24.1	36.1
215	47.9	36.9	55.3



#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:	266	Resp:	848
Ion Ratio	Lower	Upper	
266	100		
264	63.0	42.3	63.5
268	67.1	43.3	64.9

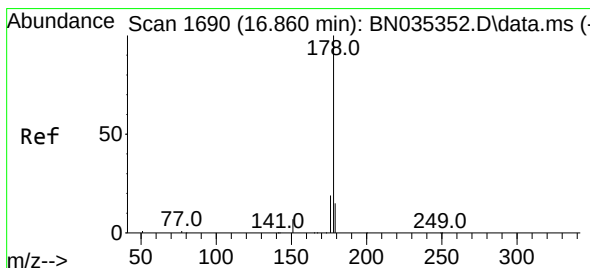
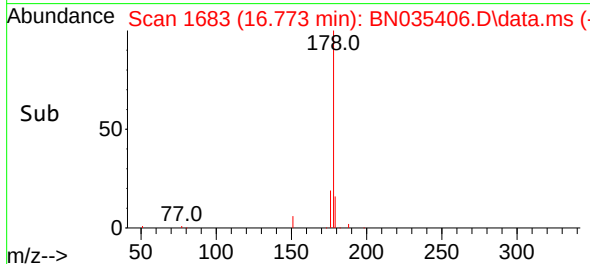
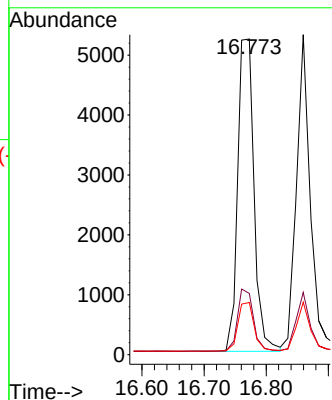
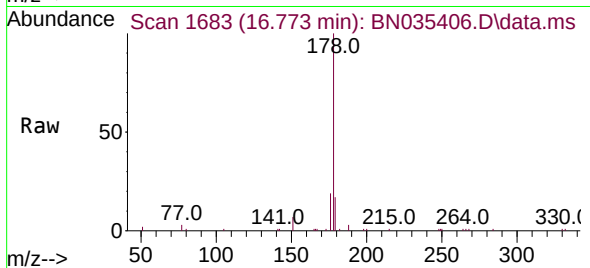




#25
Phenanthrene
Concen: 0.393 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

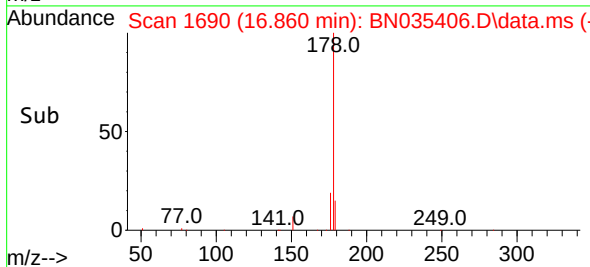
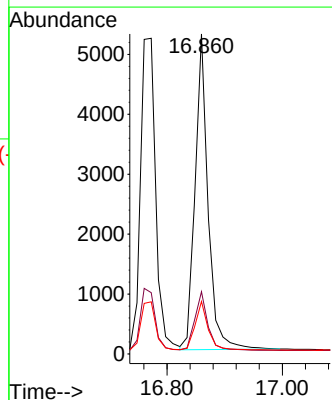
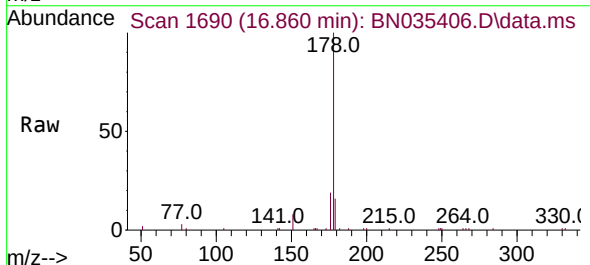
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

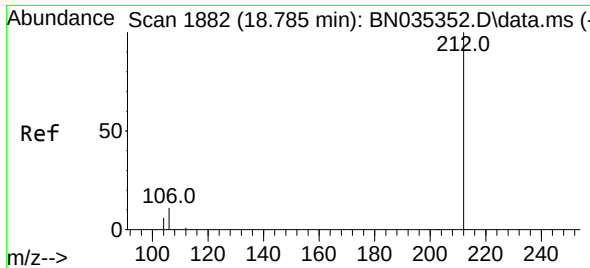
Tgt Ion:178 Resp: 9564
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.374 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:178 Resp: 8243
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.6 18.8

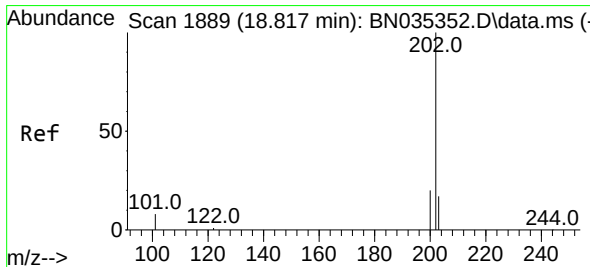
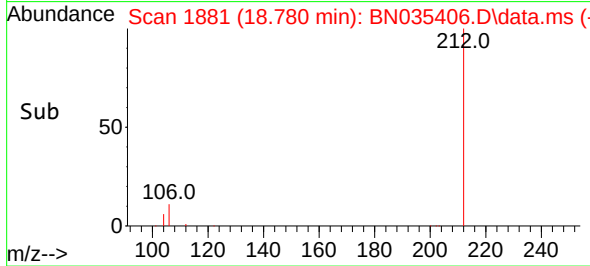
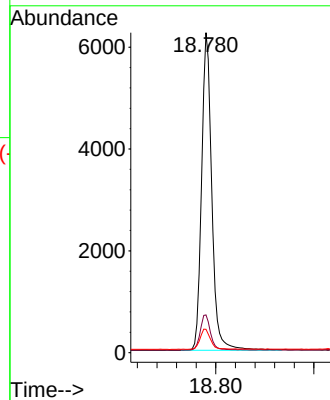
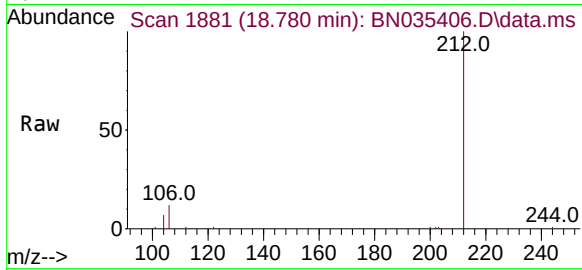




#27
Fluoranthene-d10
Concen: 0.359 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

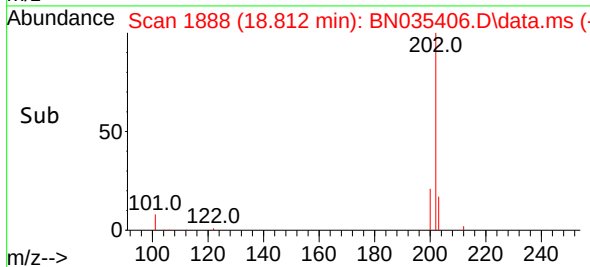
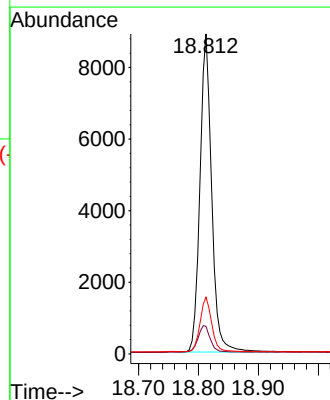
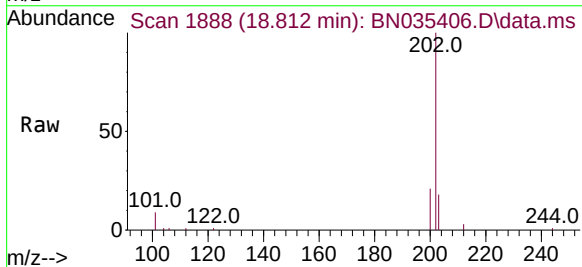
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

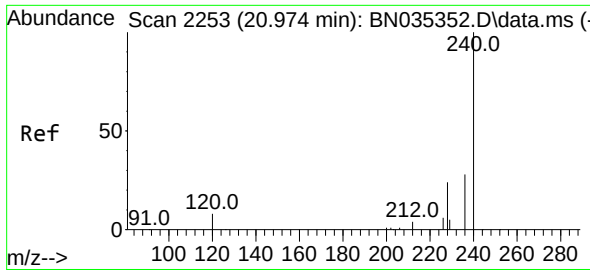
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.3	5.3	7.9



#28
Fluoranthene
Concen: 0.367 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.4	11.0
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

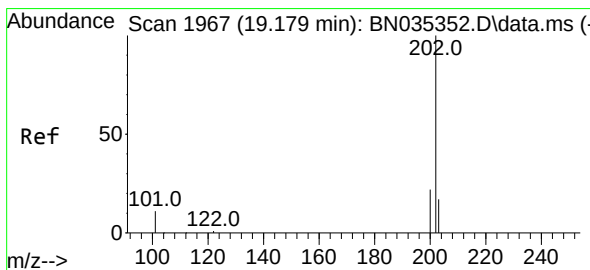
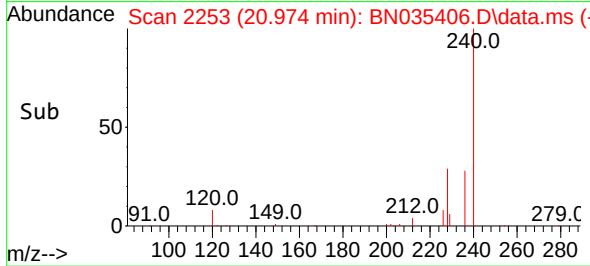
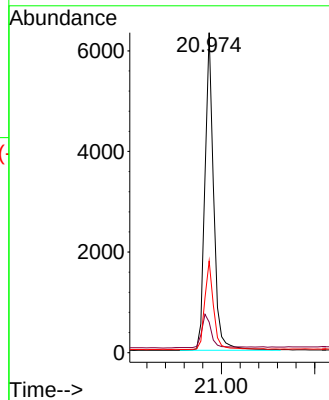
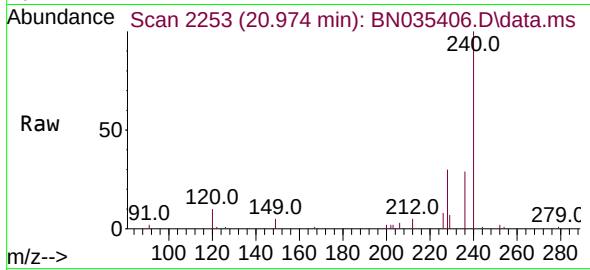
Tgt Ion:240 Resp: 8251

Ion Ratio Lower Upper

240 100

120 9.6 7.9 11.9

236 28.6 22.9 34.3



#30

Pyrene

Concen: 0.400 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

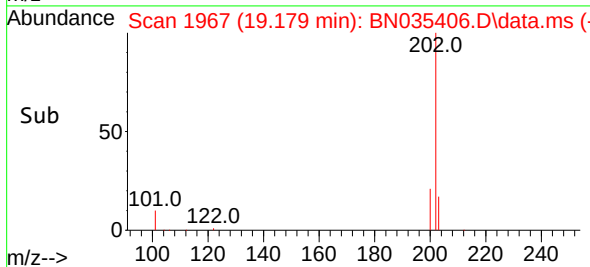
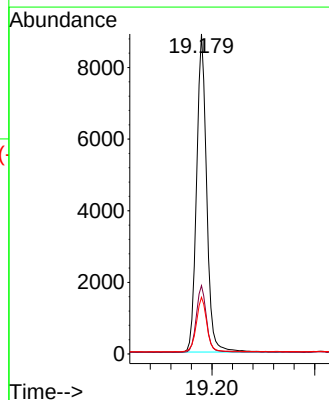
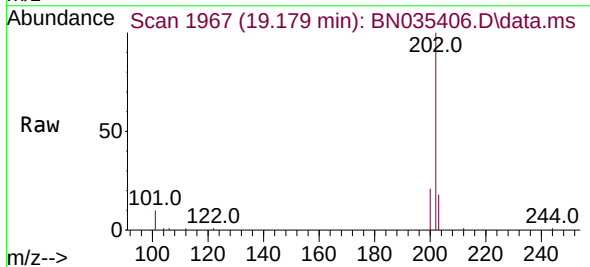
Tgt Ion:202 Resp: 12183

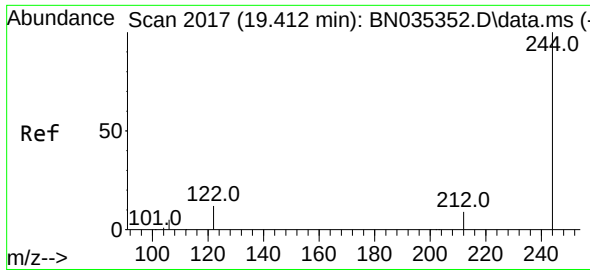
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.6 14.3 21.5

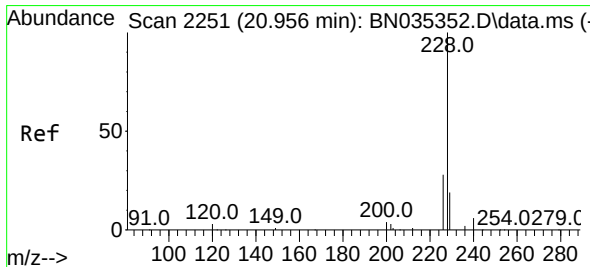
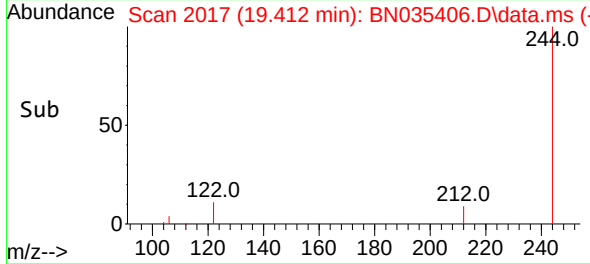
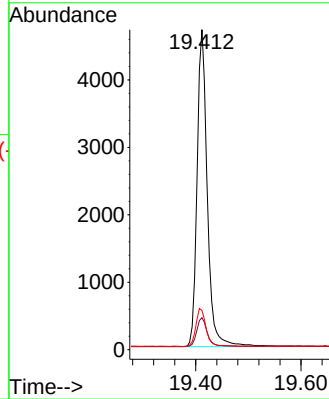
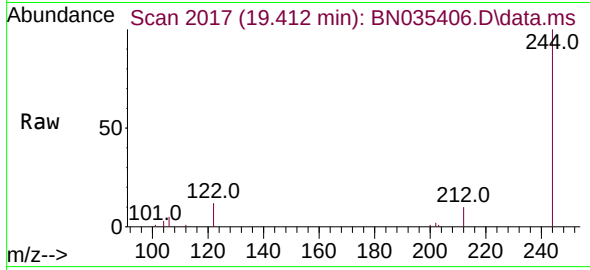




#31
Terphenyl-d14
Concen: 0.389 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

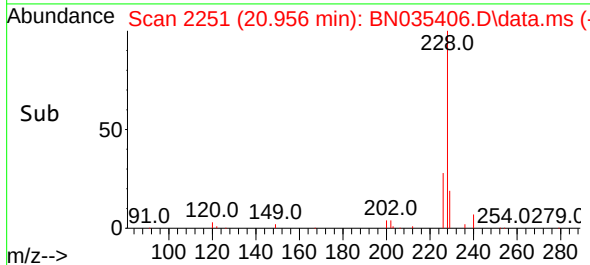
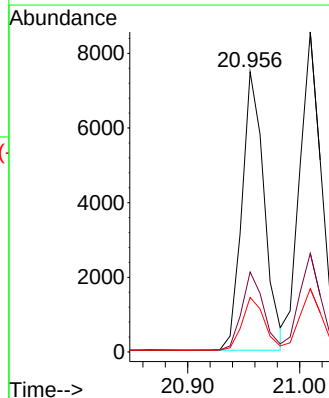
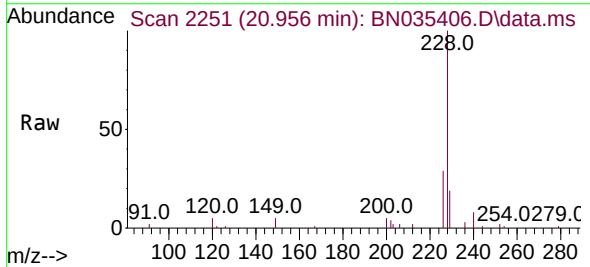
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

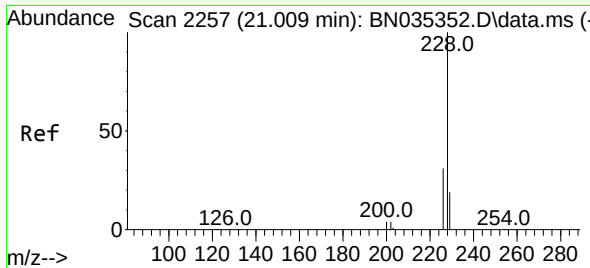
Tgt Ion:244 Resp: 6327
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 12.2 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:228 Resp: 10317
Ion Ratio Lower Upper
228 100
226 28.6 22.5 33.7
229 19.5 15.8 23.8

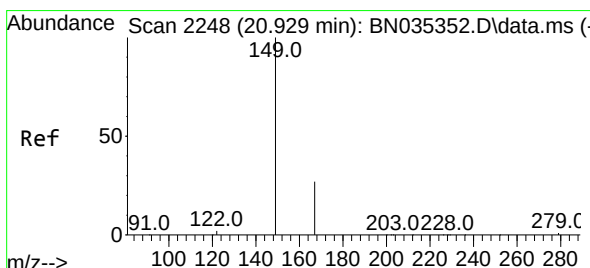
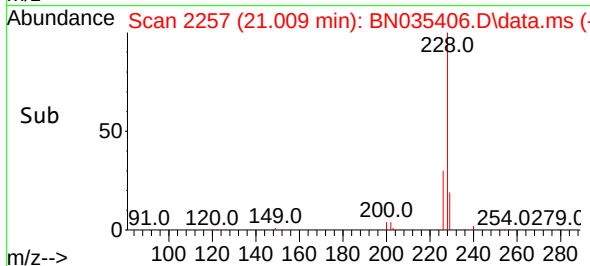
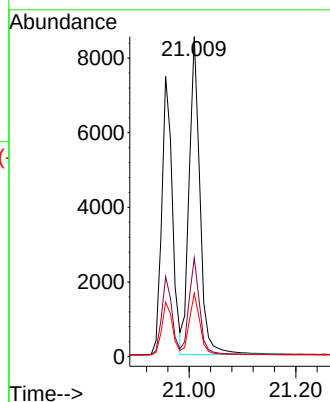
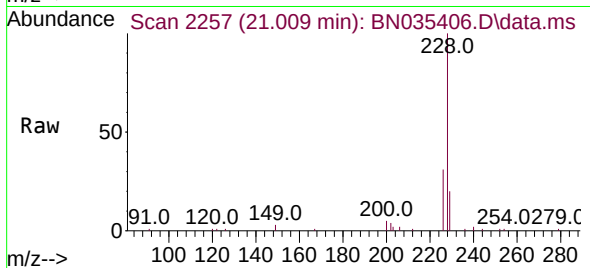




#33
Chrysene
Concen: 0.403 ng
RT: 21.009 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

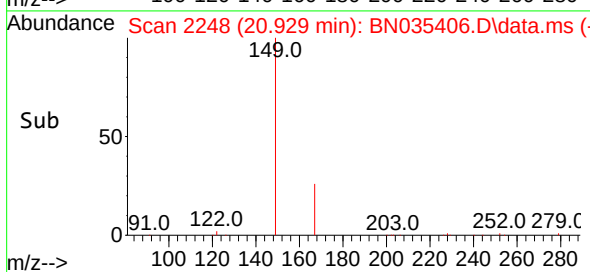
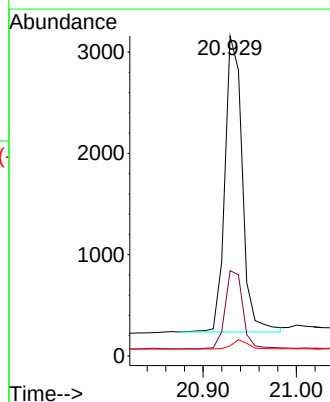
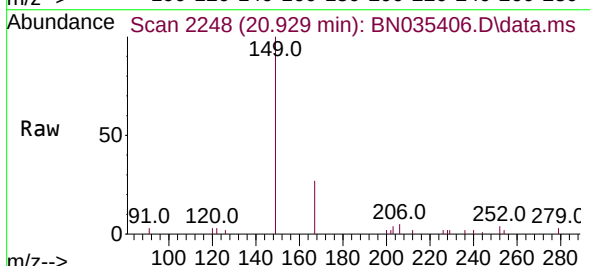
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

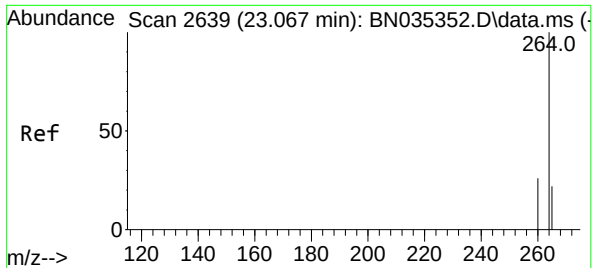
Tgt Ion:	228	Resp:	12005
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.6	37.0
229	19.8	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.331 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:	149	Resp:	3769
Ion Ratio	Lower	Upper	
149	100		
167	27.1	22.2	33.4
279	3.1	2.7	4.1

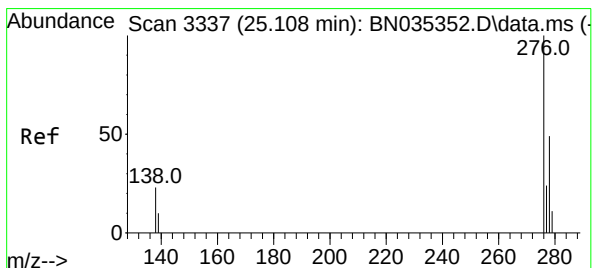
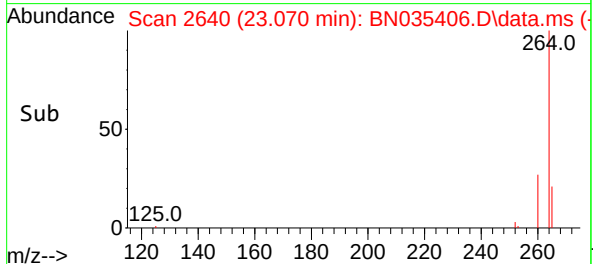
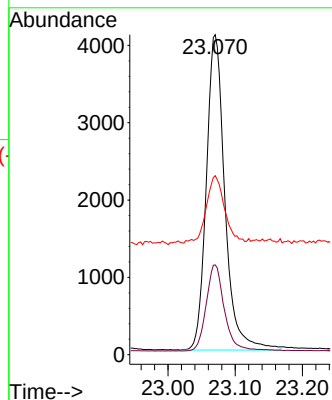
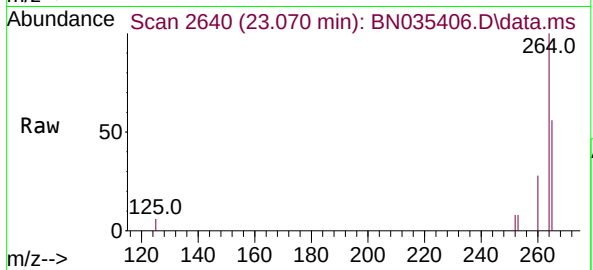




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2640
Delta R.T. 0.003 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

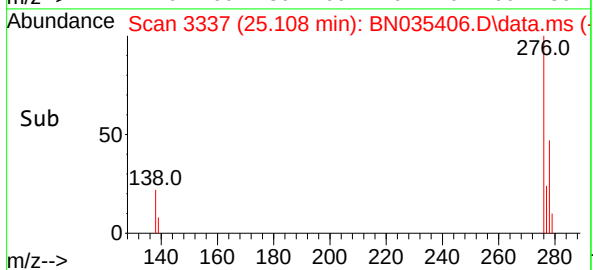
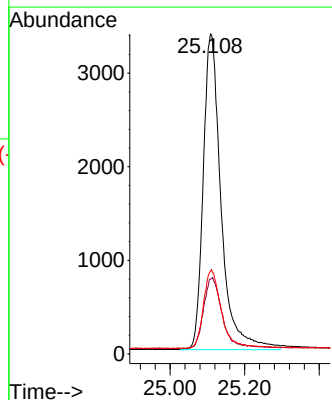
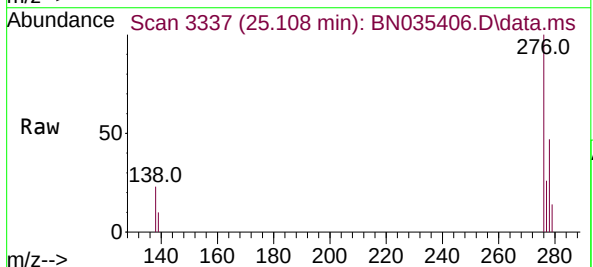
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

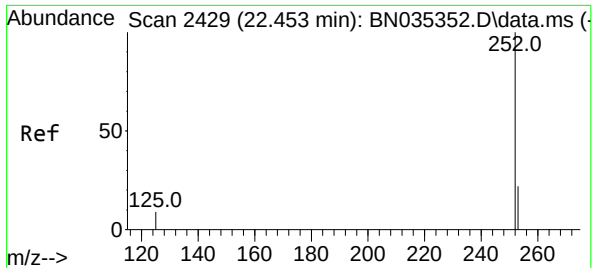
Tgt Ion:	264	Resp:	7832
Ion Ratio	Lower	Upper	
264	100		
260	28.1	21.4	32.2
265	55.9	40.2	60.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.368 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:	276	Resp:	11257
Ion Ratio	Lower	Upper	
276	100		
138	22.5	19.4	29.0
277	24.3	19.8	29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.456 min Scan# 24

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

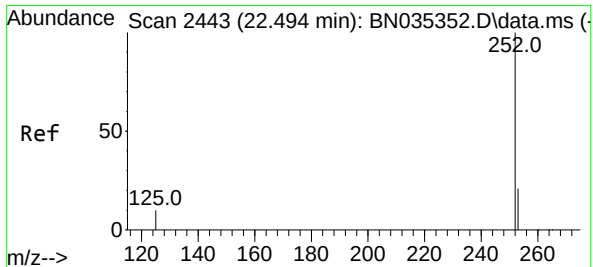
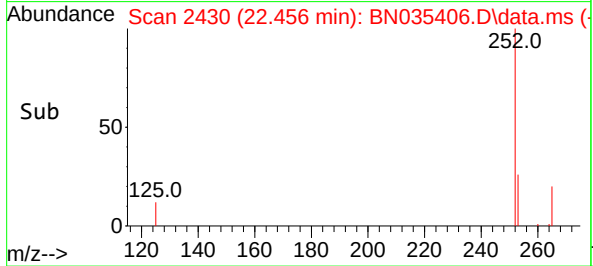
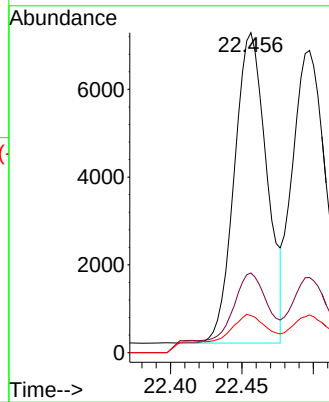
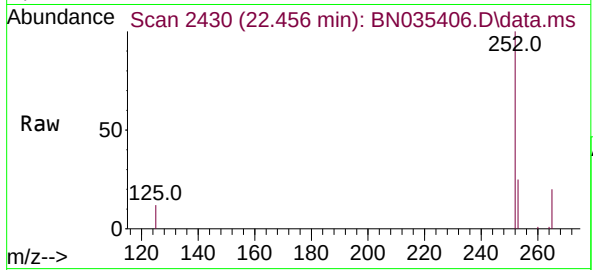
Tgt Ion:252 Resp: 11172

Ion Ratio Lower Upper

252 100

253 24.9 19.6 29.4

125 11.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.414 ng

RT: 22.497 min Scan# 2444

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

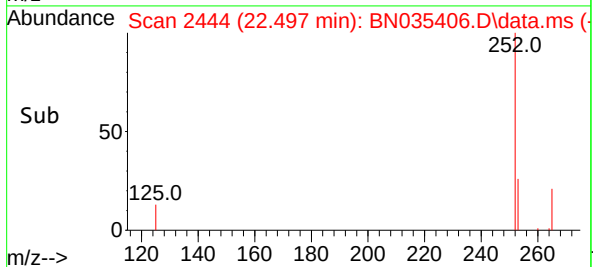
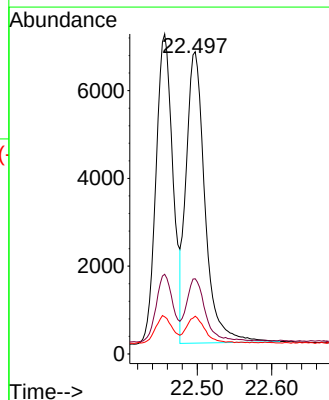
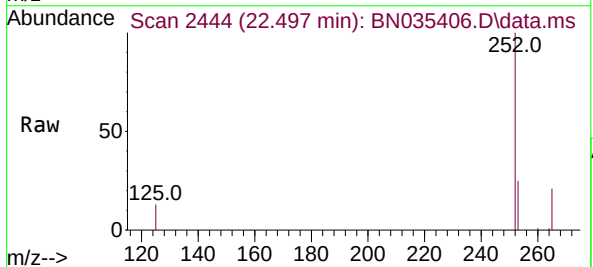
Tgt Ion:252 Resp: 11663

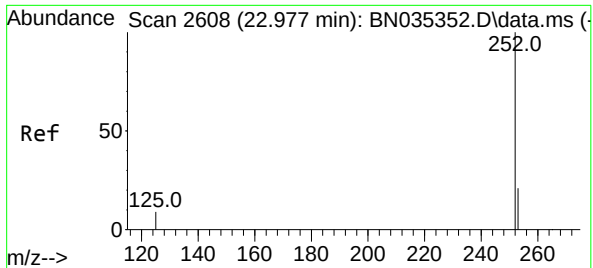
Ion Ratio Lower Upper

252 100

253 24.9 19.5 29.3

125 12.5 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.980 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

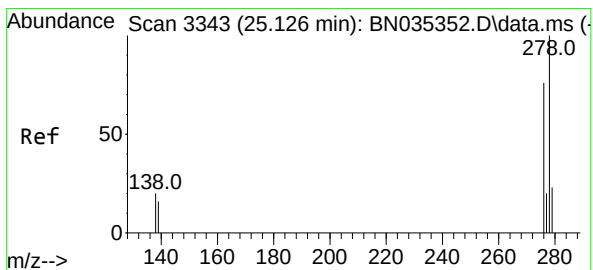
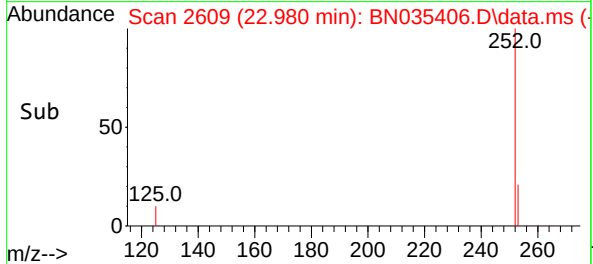
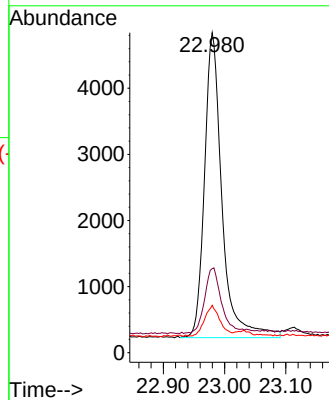
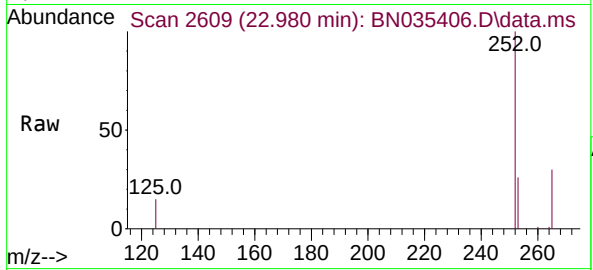
Tgt Ion:252 Resp: 9142

Ion Ratio Lower Upper

252 100

253 26.3 20.2 30.4

125 14.8 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.359 ng

RT: 25.126 min Scan# 3343

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

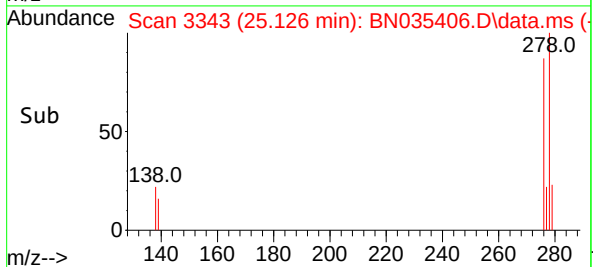
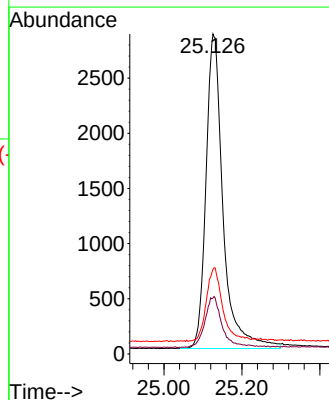
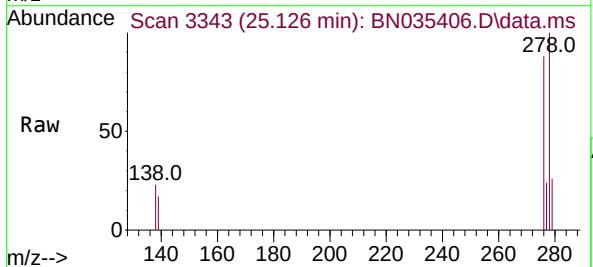
Tgt Ion:278 Resp: 8667

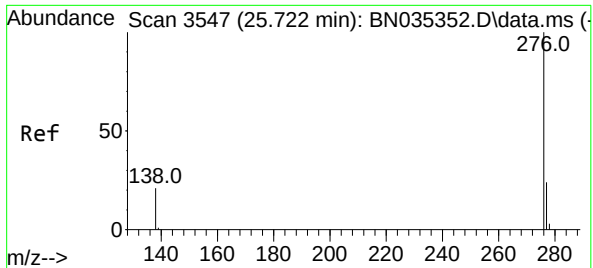
Ion Ratio Lower Upper

278 100

139 17.5 14.2 21.4

279 26.4 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.383 ng

RT: 25.722 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035406.D

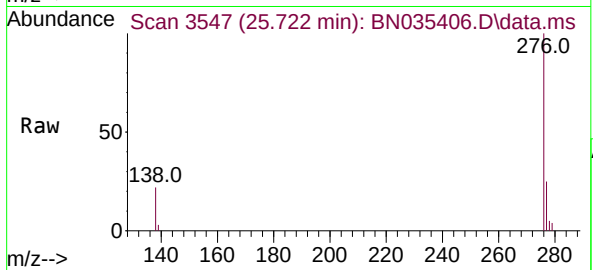
Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



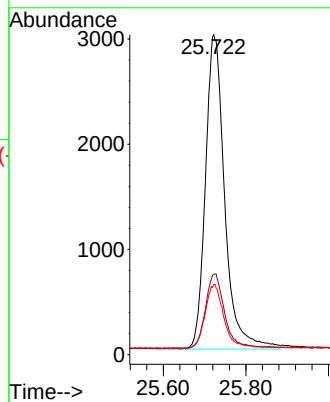
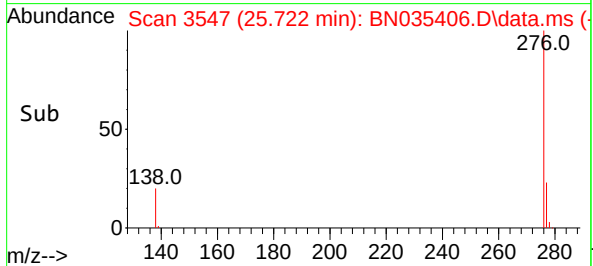
Tgt Ion:276 Resp: 9676

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

138 22.0 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035406.D
Acq On : 03 Dec 2024 16:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 03 17:45:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	98	0.00
2	1,4-Dioxane	0.382	0.365	4.5	95	0.00
3	n-Nitrosodimethylamine	0.319	0.299	6.3	90	0.00
4 S	2-Fluorophenol	1.001	0.897	10.4	87	0.00
5 S	Phenol-d6	1.204	1.101	8.6	91	0.00
6	bis(2-Chloroethyl)ether	1.012	0.953	5.8	94	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	98	0.00
8 S	Nitrobenzene-d5	0.244	0.236	3.3	99	0.00
9	Naphthalene	1.055	1.038	1.6	97	-0.01
10	Hexachlorobutadiene	0.243	0.255	-4.9	101	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.600	4.2	95	0.00
12	2-Methylnaphthalene	0.755	0.736	2.5	98	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	95	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.253	10.9	94	0.00
15 S	2-Fluorobiphenyl	1.512	1.538	-1.7	97	0.00
16	Acenaphthylene	1.680	1.624	3.3	97	-0.01
17	Acenaphthene	1.115	1.078	3.3	95	-0.01
18	Fluorene	1.596	1.543	3.3	95	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.033	15.4	86	0.00
21	4-Bromophenyl-phenylether	0.234	0.232	0.9	96	-0.01
22	Hexachlorobenzene	0.275	0.288	-4.7	98	0.00
23	Atrazine	0.167	0.136	18.6	83	0.00
24	Pentachlorophenol	0.120	0.096	20.0	94	0.00
25	Phenanthrene	1.099	1.079	1.8	94	0.00
26	Anthracene	0.994	0.930	6.4	92	0.00
27 SURR	Fluoranthene-d10	1.134	1.017	10.3	88	0.00
28	Fluoranthene	1.481	1.360	8.2	90	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	87	0.00
30	Pyrene	1.477	1.477	0.0	87	0.00
31 S	Terphenyl-d14	0.789	0.767	2.8	84	0.00
32	Benzo(a)anthracene	1.399	1.250	10.7	80	0.00
33	Chrysene	1.443	1.455	-0.8	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.457	17.4	77	0.00
35 I	Perylene-d12	1.000	1.000	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.437	8.1	68	0.00
37	Benzo(b)fluoranthene	1.463	1.426	2.5	78	0.00
38	Benzo(k)fluoranthene	1.440	1.489	-3.4	77	0.00
39 C	Benzo(a)pyrene	1.205	1.167	3.2	74	0.00
40	Dibenzo(a,h)anthracene	1.234	1.107	10.3	67	0.00
41	Benzo(g,h,i)perylene	1.289	1.235	4.2	72	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035406.D
Acq On : 03 Dec 2024 16:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 03 17:45:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	98	0.00
2	1,4-Dioxane	0.400	0.382	4.5	95	0.00
3	n-Nitrosodimethylamine	0.400	0.376	6.0	90	0.00
4 S	2-Fluorophenol	0.400	0.359	10.3	87	0.00
5 S	Phenol-d6	0.400	0.366	8.5	91	0.00
6	bis(2-Chloroethyl)ether	0.400	0.377	5.8	94	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	98	0.00
8 S	Nitrobenzene-d5	0.400	0.386	3.5	99	0.00
9	Naphthalene	0.400	0.393	1.8	97	-0.01
10	Hexachlorobutadiene	0.400	0.419	-4.7	101	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.384	4.0	95	0.00
12	2-Methylnaphthalene	0.400	0.390	2.5	98	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	95	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.356	11.0	94	0.00
15 S	2-Fluorobiphenyl	0.400	0.407	-1.7	97	0.00
16	Acenaphthylene	0.400	0.387	3.3	97	-0.01
17	Acenaphthene	0.400	0.387	3.3	95	-0.01
18	Fluorene	0.400	0.387	3.3	95	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.334	16.5	86	0.00
21	4-Bromophenyl-phenylether	0.400	0.397	0.8	96	-0.01
22	Hexachlorobenzene	0.400	0.419	-4.7	98	0.00
23	Atrazine	0.400	0.328	18.0	83	0.00
24	Pentachlorophenol	0.400	0.320	20.0	94	0.00
25	Phenanthrene	0.400	0.393	1.8	94	0.00
26	Anthracene	0.400	0.374	6.5	92	0.00
27 SURR	Fluoranthene-d10	0.400	0.359	10.3	88	0.00
28	Fluoranthene	0.400	0.367	8.3	90	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	87	0.00
30	Pyrene	0.400	0.400	0.0	87	0.00
31 S	Terphenyl-d14	0.400	0.389	2.8	84	0.00
32	Benzo(a)anthracene	0.400	0.357	10.8	80	0.00
33	Chrysene	0.400	0.403	-0.8	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.331	17.3	77	0.00
35 I	Perylene-d12	0.400	0.400	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.368	8.0	68	0.00
37	Benzo(b)fluoranthene	0.400	0.390	2.5	78	0.00
38	Benzo(k)fluoranthene	0.400	0.414	-3.5	77	0.00
39 C	Benzo(a)pyrene	0.400	0.387	3.3	74	0.00
40	Dibenzo(a,h)anthracene	0.400	0.359	10.3	67	0.00
41	Benzo(g,h,i)perylene	0.400	0.383	4.3	72	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5065 SAS No.: P5065 SDG No.: P5065

Instrument ID: BNA_N Calibration Date/Time: 12/03/2024 21:11

Lab File ID: BN035413.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	0.609		-2.7	50.0
Fluoranthene-d10	1.134	1.023		-9.8	50.0
2-Fluorophenol	1.001	0.907		-9.4	50.0
Phenol-d6	1.204	1.095		-9.1	50.0
Nitrobenzene-d5	0.244	0.240		-1.6	50.0
2-Fluorobiphenyl	1.512	1.547		2.3	50.0
2,4,6-Tribromophenol	0.284	0.256		-9.9	50.0
Terphenyl-d14	0.789	0.795		0.8	50.0
1,4-Dioxane	0.382	0.384		0.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035413.D
 Acq On : 03 Dec 2024 21:11
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 03 22:06:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

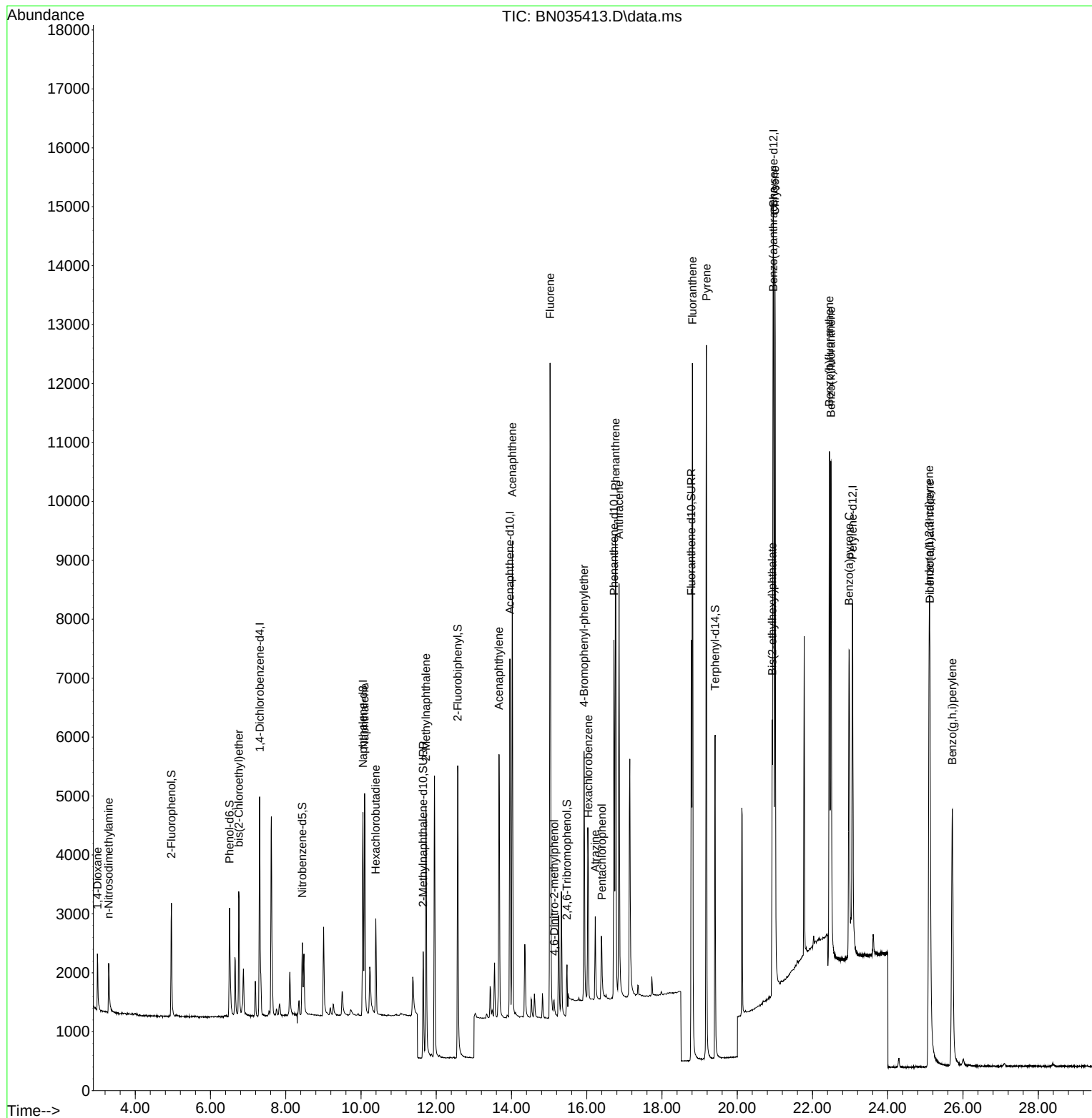
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1905	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4842	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3417	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8599	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7834	0.400	ng	# 0.00
35) Perylene-d12	23.064	264	7769	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1727	0.362	ng	0.00
5) Phenol-d6	6.506	99	2086	0.364	ng	0.00
8) Nitrobenzene-d5	8.440	82	1162m	0.393	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2948	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	874	0.360	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5285	0.409	ng	0.00
27) Fluoranthene-d10	18.780	212	8797	0.361	ng	0.00
31) Terphenyl-d14	19.412	244	6230	0.403	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.996	88	731	0.401	ng	98
3) n-Nitrosodimethylamine	3.292	42	561	0.370	ng	# 91
6) bis(2-Chloroethyl)ether	6.752	93	1811	0.376	ng	98
9) Naphthalene	10.095	128	5107	0.400	ng	99
10) Hexachlorobutadiene	10.394	225	1291	0.438	ng	# 100
12) 2-Methylnaphthalene	11.727	142	3555	0.389	ng	98
16) Acenaphthylene	13.668	152	5470	0.381	ng	99
17) Acenaphthene	14.021	154	3732	0.392	ng	98
18) Fluorene	15.026	166	5390	0.395	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	303	0.358	ng	97
21) 4-Bromophenyl-phenylether	15.929	248	1954	0.388	ng	# 74
22) Hexachlorobenzene	16.040	284	2442	0.413	ng	97
23) Atrazine	16.227	200	1233	0.344	ng	97
24) Pentachlorophenol	16.400	266	742	0.289	ng	87
25) Phenanthrene	16.760	178	9217	0.390	ng	100
26) Anthracene	16.860	178	7974	0.373	ng	100
28) Fluoranthene	18.812	202	11723	0.368	ng	99
30) Pyrene	19.179	202	11845	0.410	ng	100
32) Benzo(a)anthracene	20.956	228	10025	0.366	ng	100
33) Chrysene	21.001	228	11323	0.401	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	3811	0.352	ng	99
36) Indeno(1,2,3-cd)pyrene	25.099	276	11352	0.374	ng	98
37) Benzo(b)fluoranthene	22.448	252	12967	0.456	ng	100
38) Benzo(k)fluoranthene	22.488	252	11373	0.407	ng	99
39) Benzo(a)pyrene	22.974	252	8498	0.363	ng	98
40) Dibenzo(a,h)anthracene	25.120	278	8673	0.362	ng	98
41) Benzo(g,h,i)perylene	25.716	276	9224	0.368	ng	99

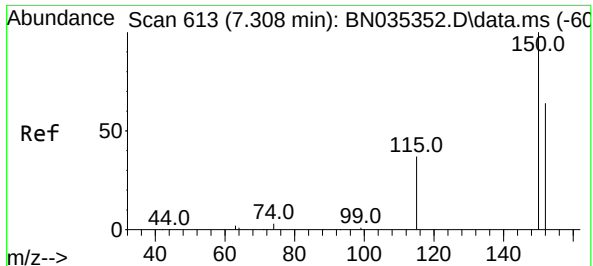
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Acq On : 03 Dec 2024 21:11
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 03 22:06:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

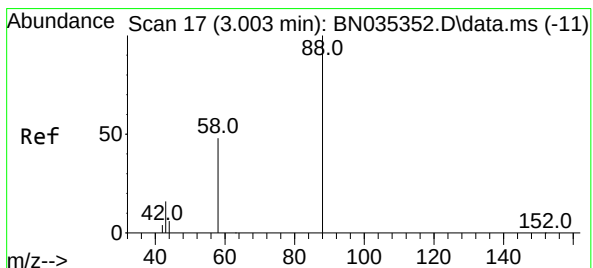
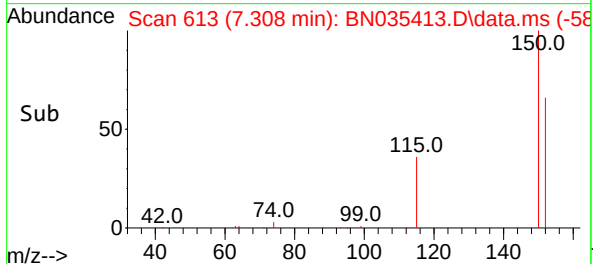
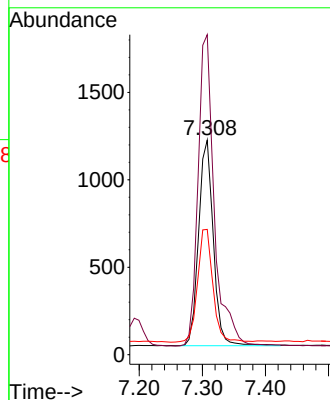
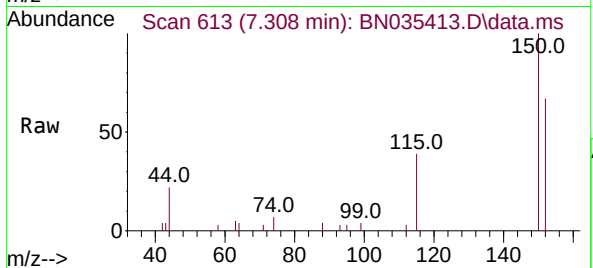




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

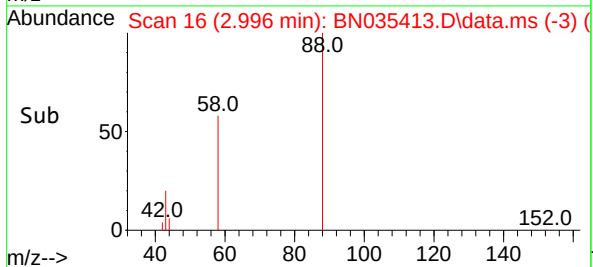
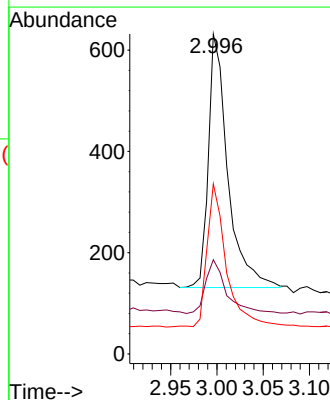
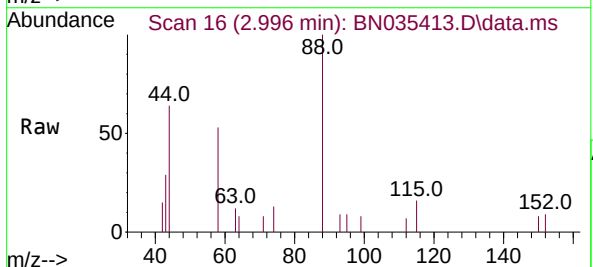
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

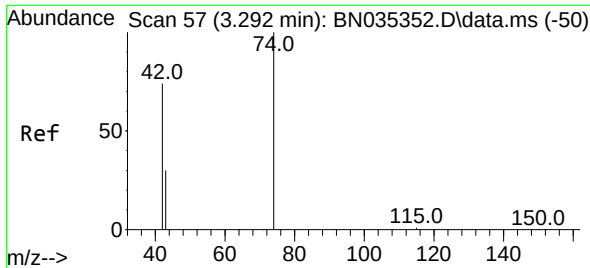
Tgt Ion:152 Resp: 1905
Ion Ratio Lower Upper
152 100
150 149.1 124.0 186.0
115 58.4 49.6 74.4



#2
1,4-Dioxane
Concen: 0.401 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion: 88 Resp: 731
Ion Ratio Lower Upper
88 100
43 22.7 17.2 25.8
58 56.6 44.5 66.7

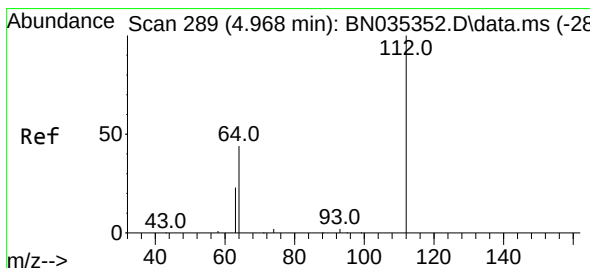
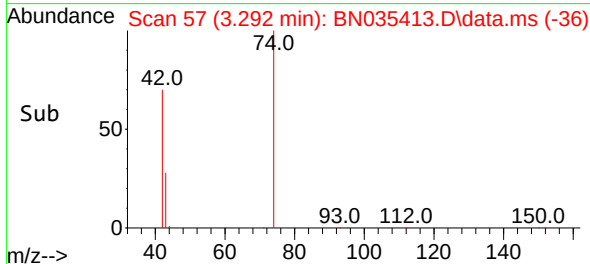
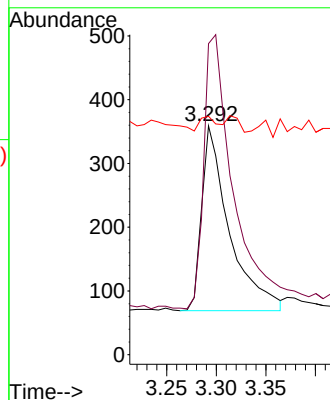
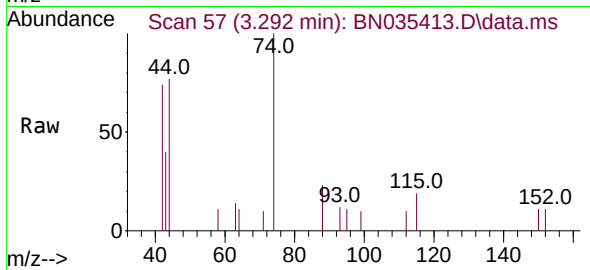




#3
n-Nitrosodimethylamine
Concen: 0.370 ng
RT: 3.292 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

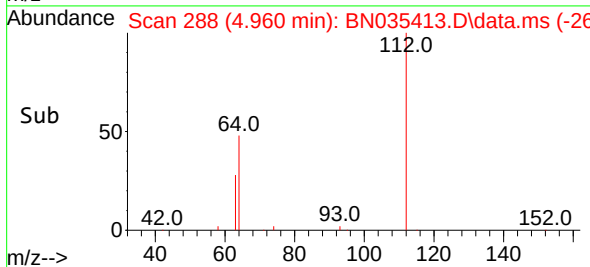
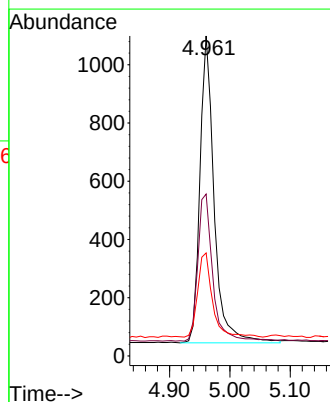
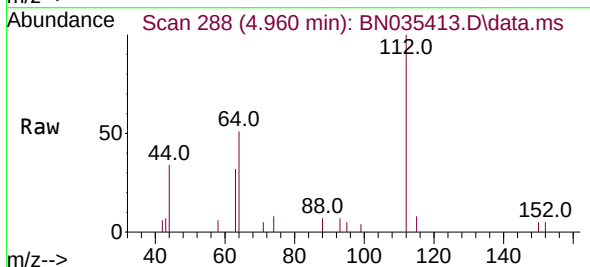
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

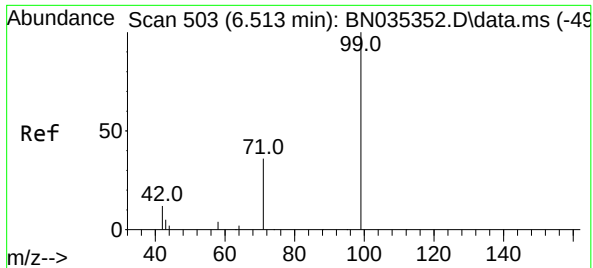
Tgt Ion: 42 Resp: 561
Ion Ratio Lower Upper
42 100
74 167.4 124.9 187.3
44 5.0 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion: 112 Resp: 1727
Ion Ratio Lower Upper
112 100
64 50.1 39.8 59.8
63 28.4 21.0 31.6

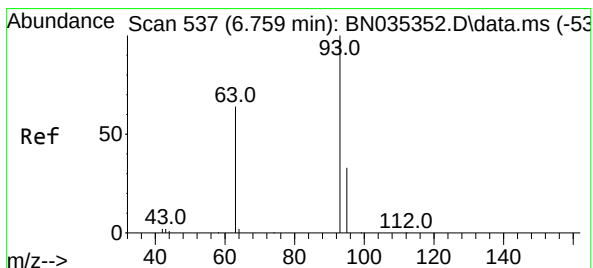
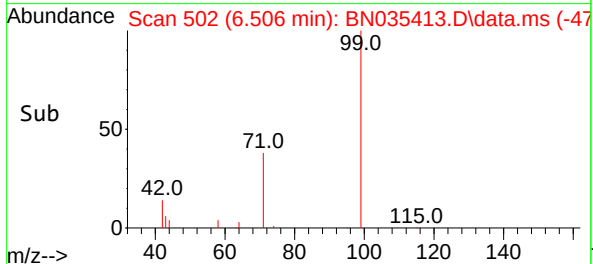
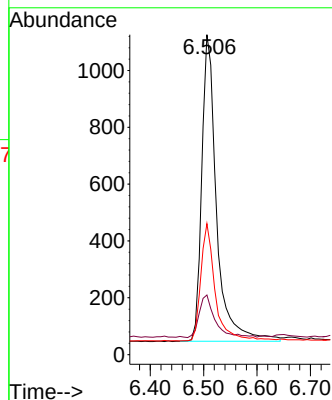
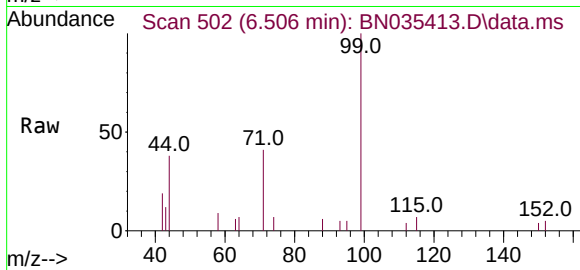




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

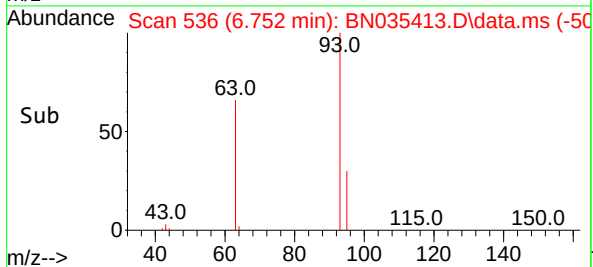
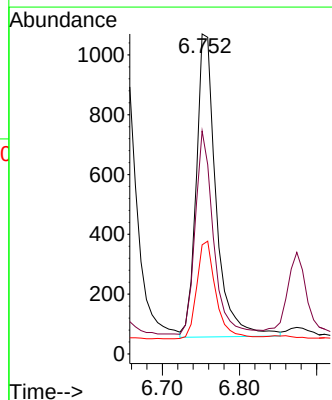
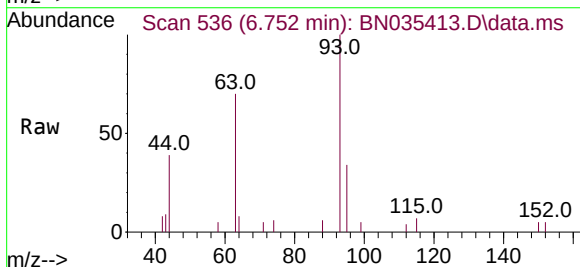
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

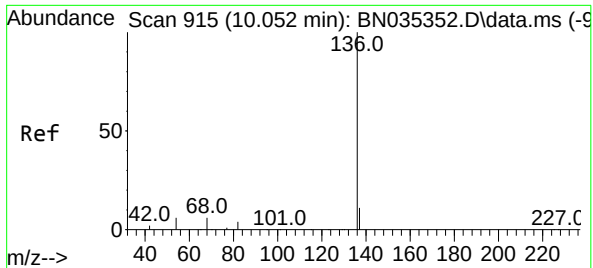
Tgt Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	37.5	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion	Ratio	Lower	Upper
93	100		
63	61.8	50.4	75.6
95	31.1	25.7	38.5

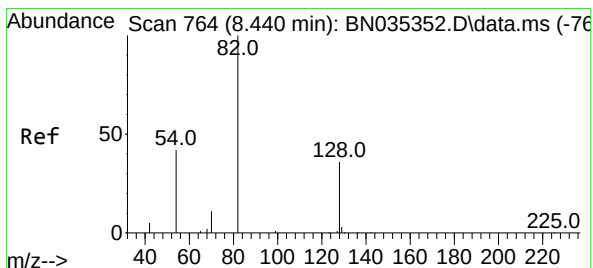
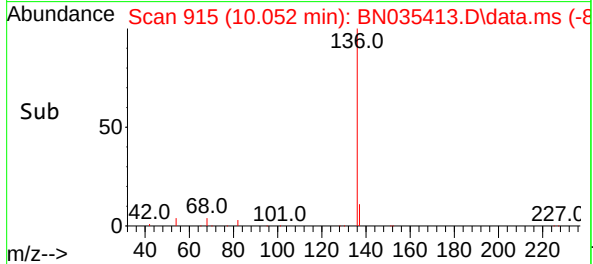
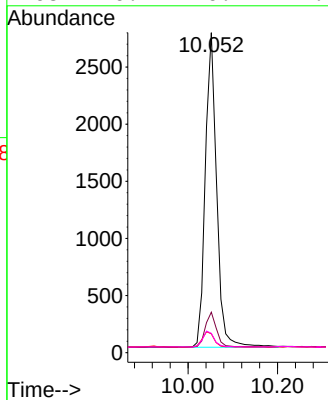
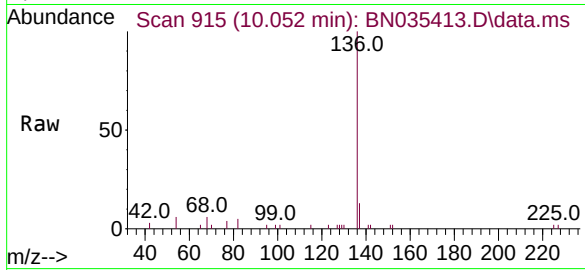




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

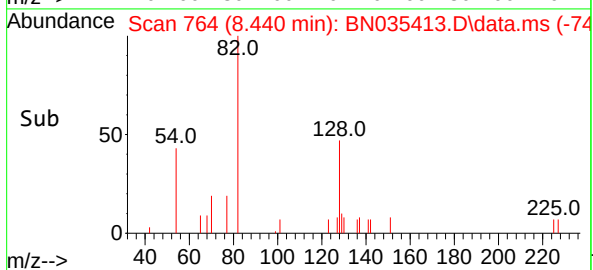
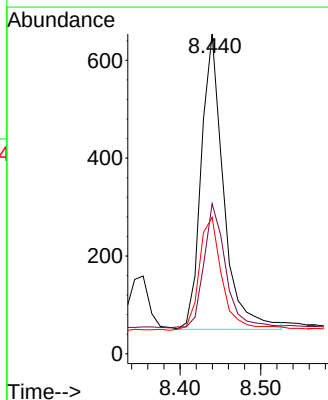
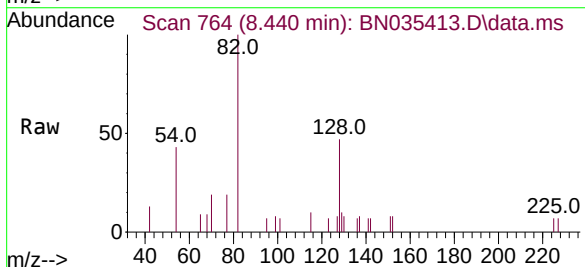
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

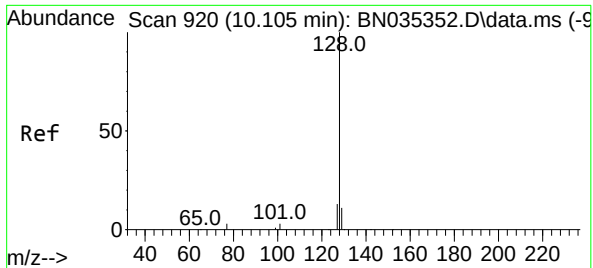
Tgt Ion:	136	Resp:	4842
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	5.9	6.1	9.1#
68	6.1	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:	82	Resp:	1162
Ion	Ratio	Lower	Upper
82	100		
128	46.9	33.4	50.0
54	42.7	36.7	55.1

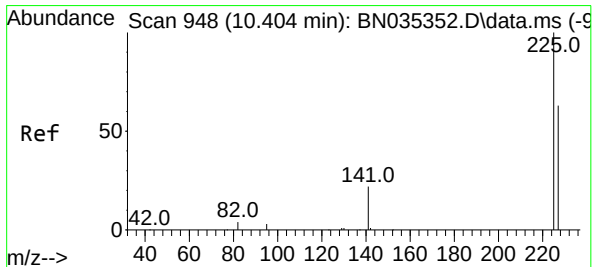
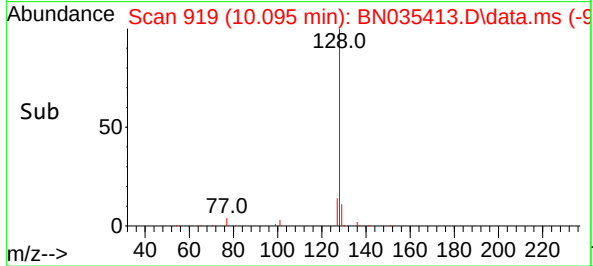
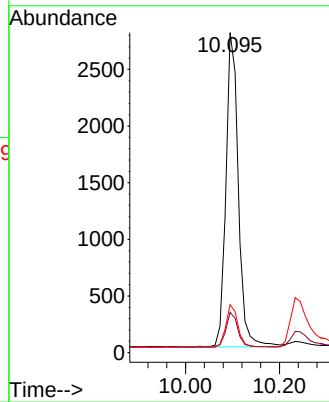
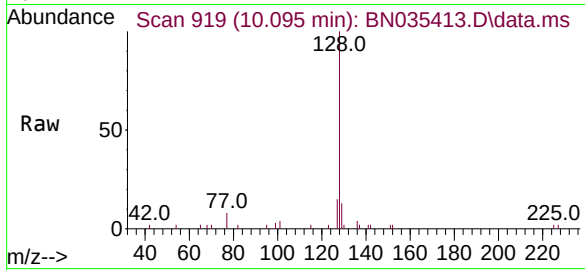




#9
Naphthalene
Concen: 0.400 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

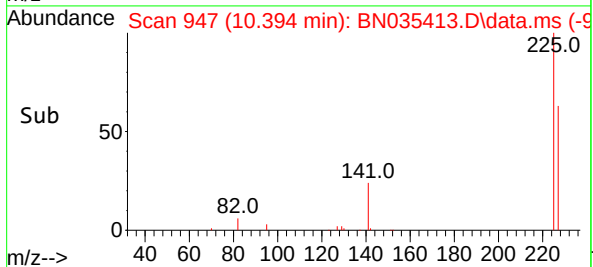
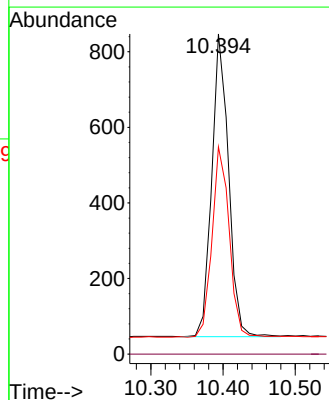
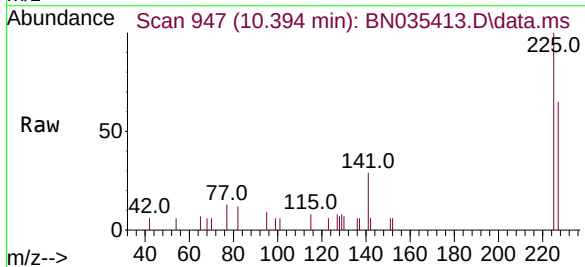
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

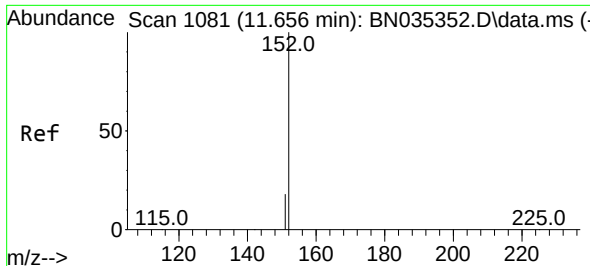
Tgt Ion:	128	Resp:	5107
Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.8	14.6
127	15.0	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.438 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:	225	Resp:	1291
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9

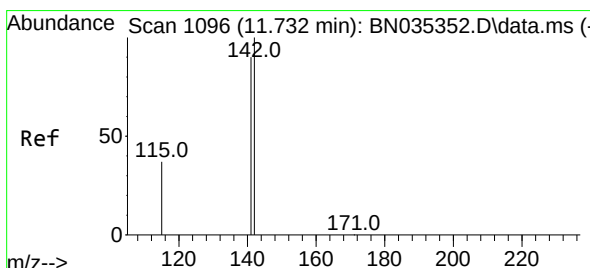
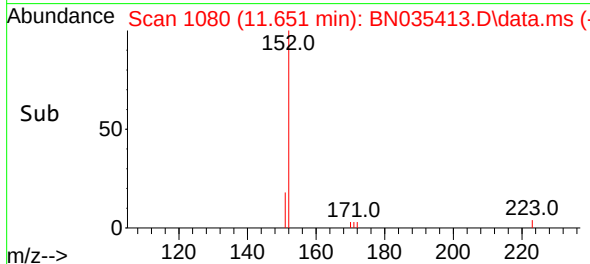
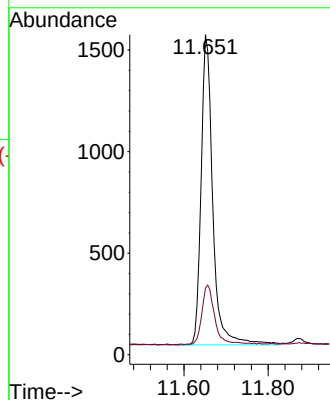
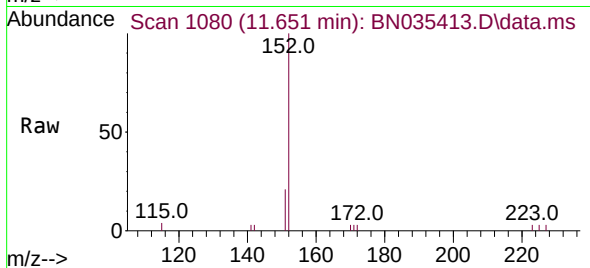




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

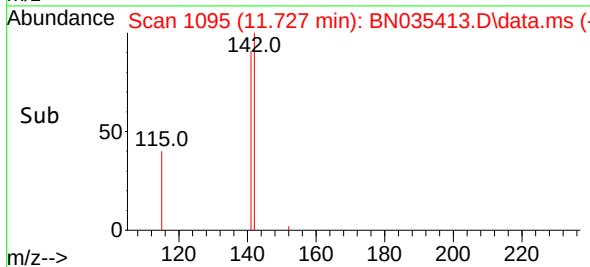
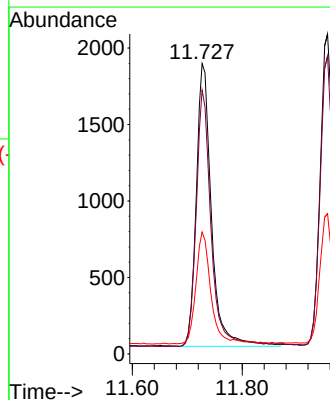
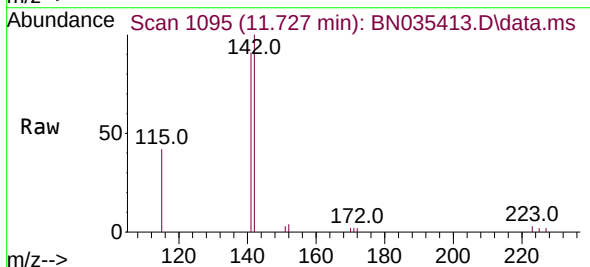
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

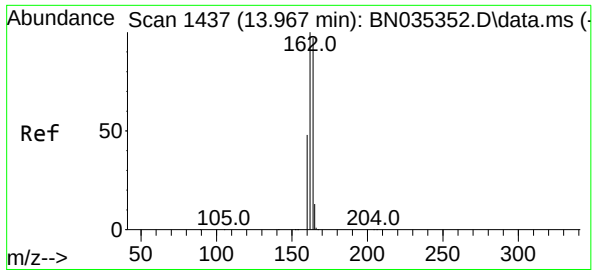
Tgt Ion:152 Resp: 2948
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 11.727 min Scan# 1095
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:142 Resp: 3555
Ion Ratio Lower Upper
142 100
141 90.9 72.2 108.4
115 42.0 31.4 47.0

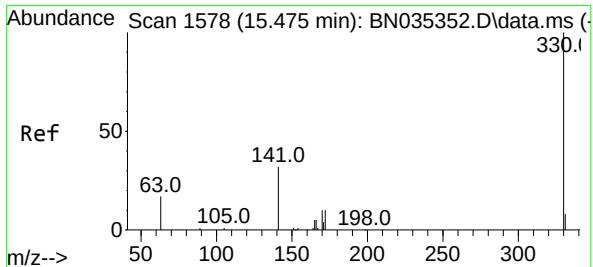
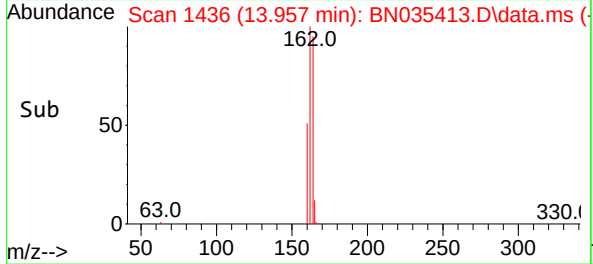
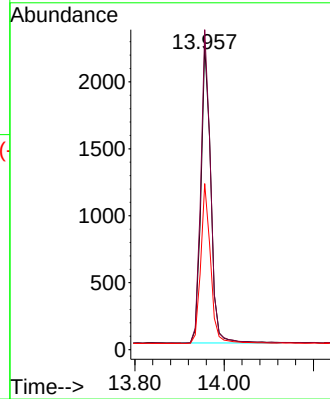
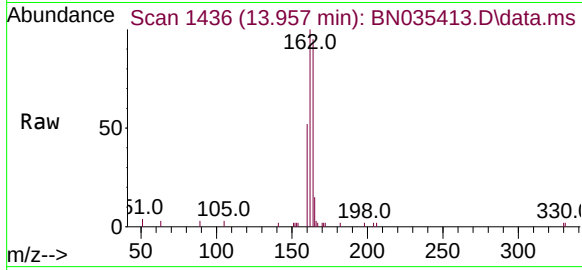




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

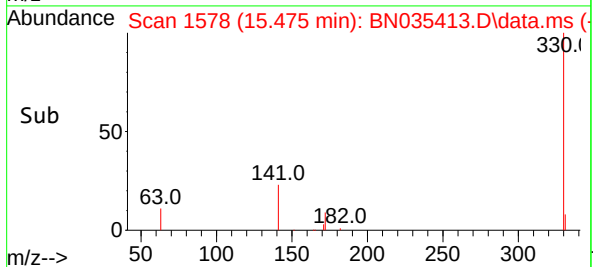
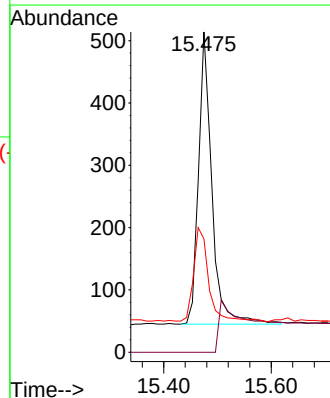
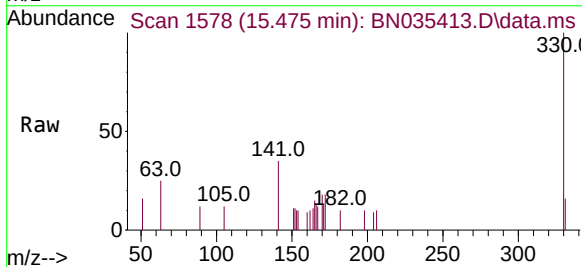
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

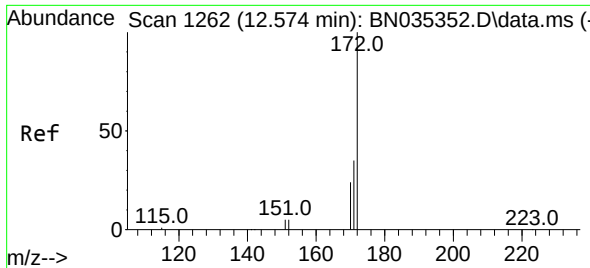
Tgt Ion:164 Resp: 3417
Ion Ratio Lower Upper
164 100
162 105.1 82.2 123.2
160 54.6 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.360 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:330 Resp: 874
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.7 26.6 40.0

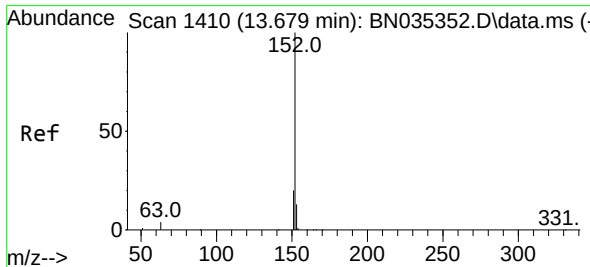
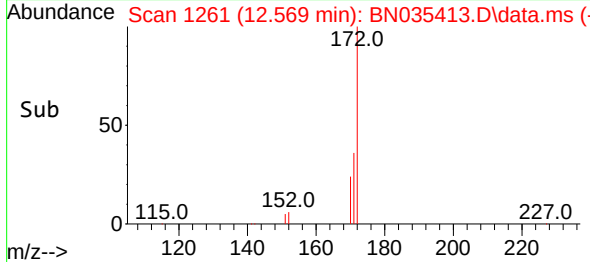
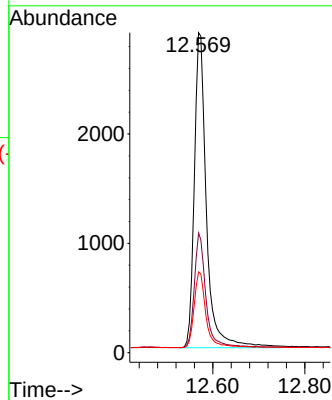
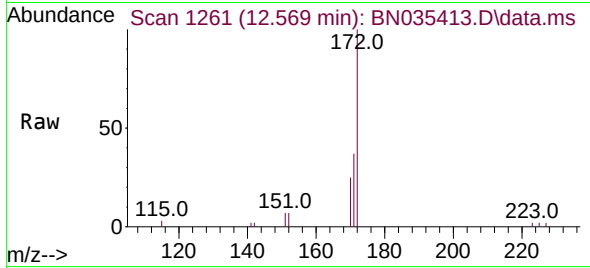




#15
2-Fluorobiphenyl
Concen: 0.409 ng
RT: 12.569 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

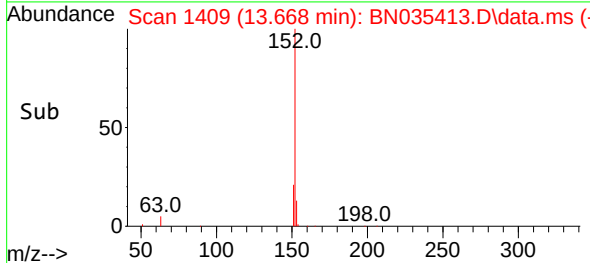
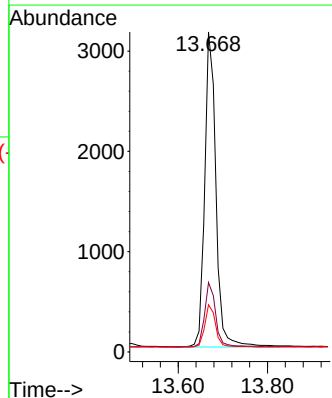
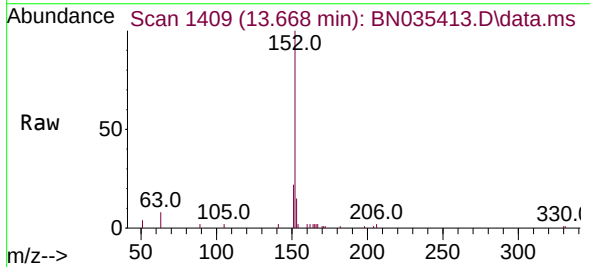
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

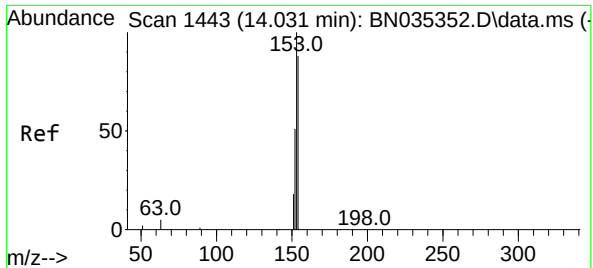
Tgt Ion:	172	Resp:	5285
Ion Ratio	Lower	Upper	
172	100		
171	37.4	29.0	43.4
170	25.2	19.8	29.8



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:	152	Resp:	5470
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.2	24.2
153	13.2	10.4	15.6

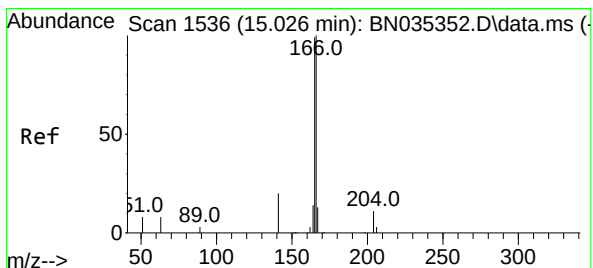
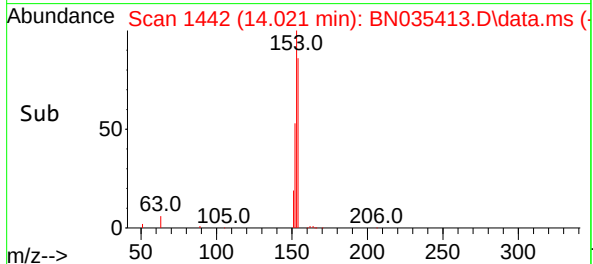
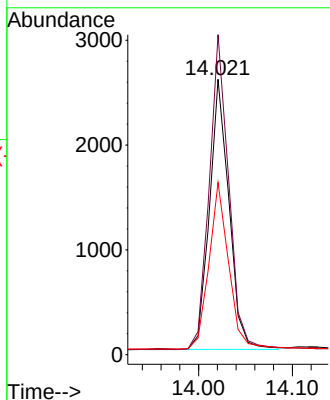
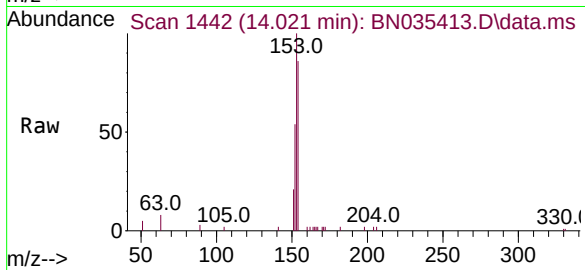




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

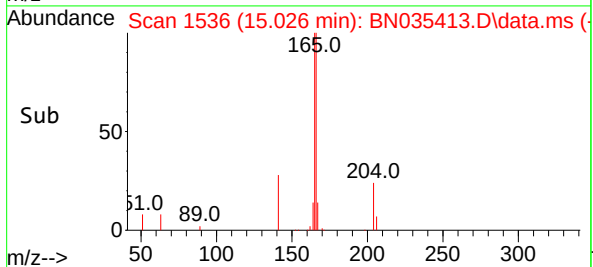
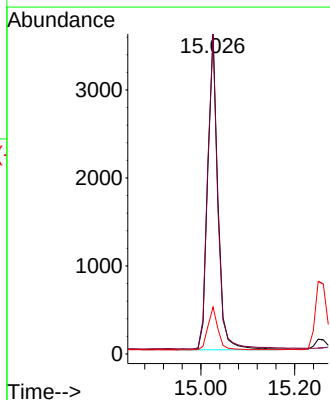
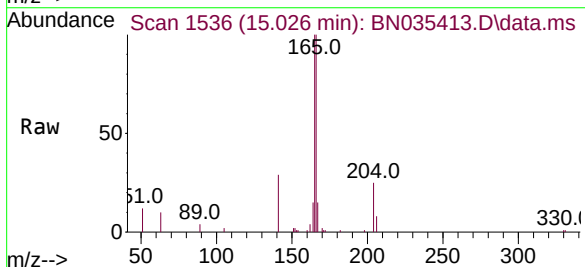
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

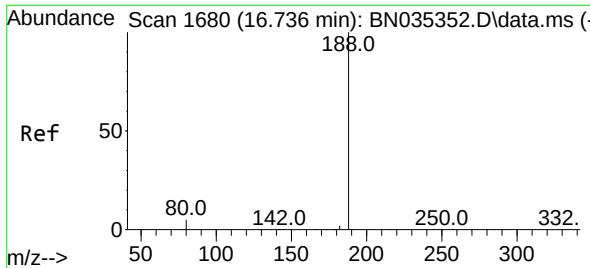
Tgt Ion:154 Resp: 3732
Ion Ratio Lower Upper
154 100
153 117.7 92.6 139.0
152 62.7 49.0 73.6



#18
Fluorene
Concen: 0.395 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:166 Resp: 5390
Ion Ratio Lower Upper
166 100
165 99.3 79.7 119.5
167 13.5 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: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

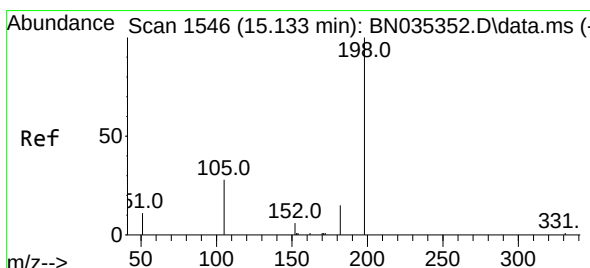
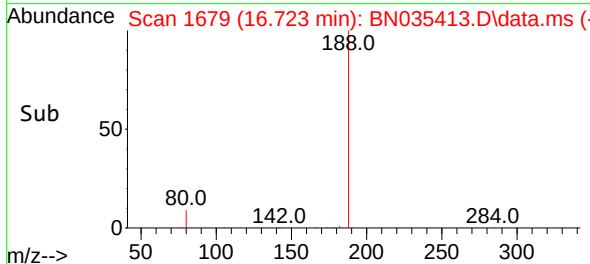
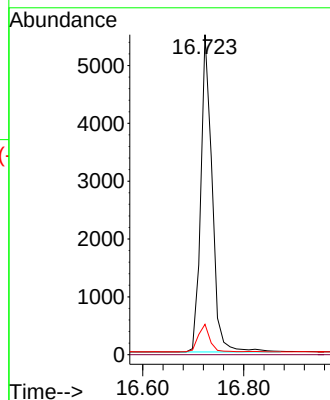
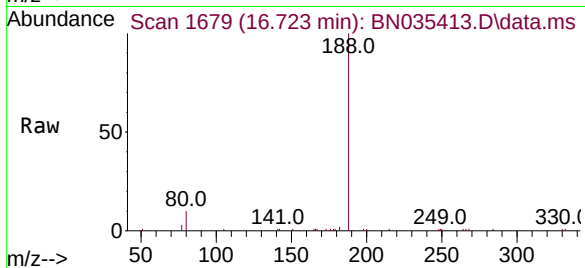
Tgt Ion:188 Resp: 8599

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.358 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

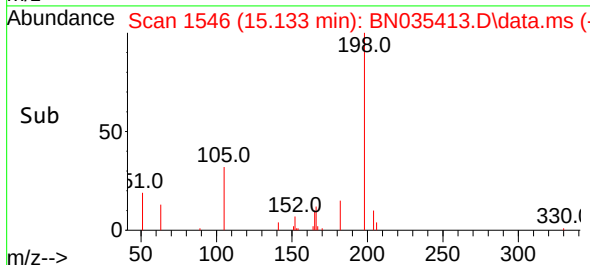
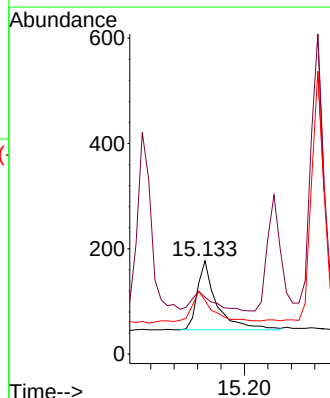
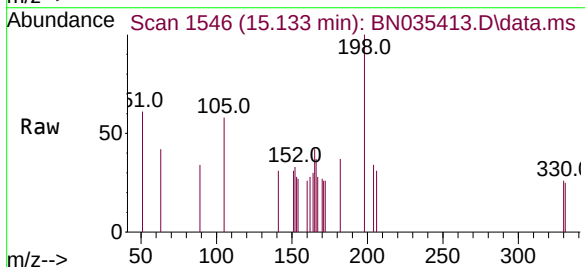
Tgt Ion:198 Resp: 303

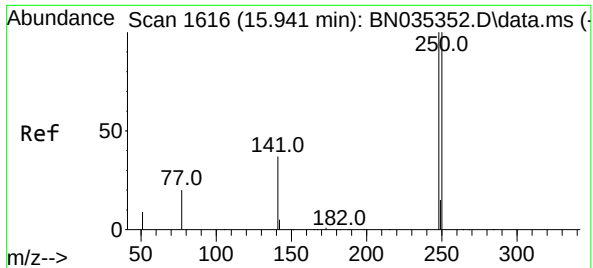
Ion Ratio Lower Upper

198 100

51 61.0 46.5 69.7

105 57.6 45.3 67.9

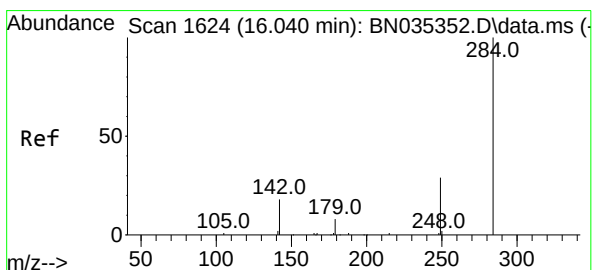
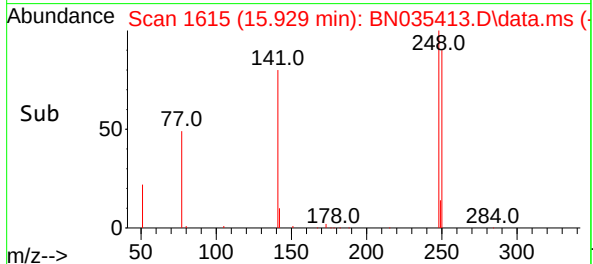
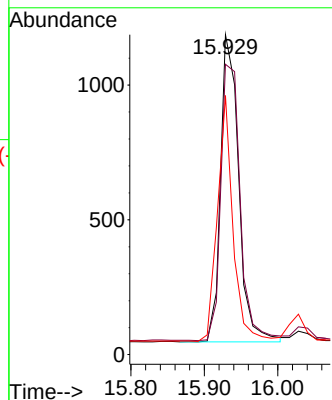
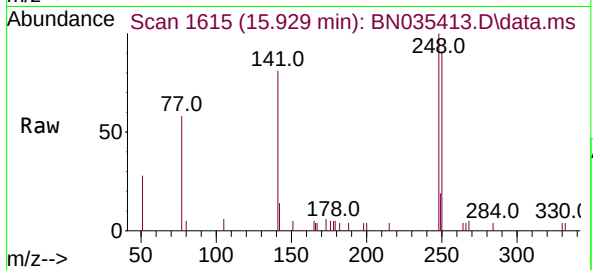




#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

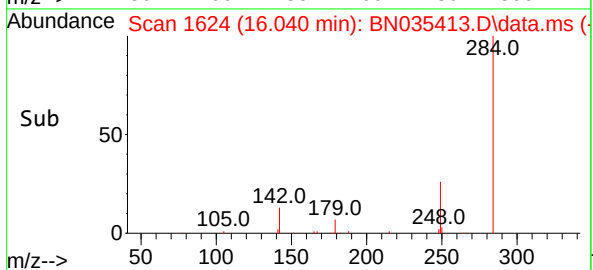
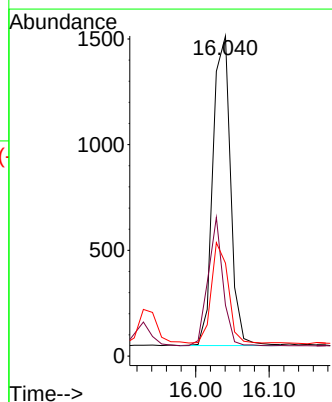
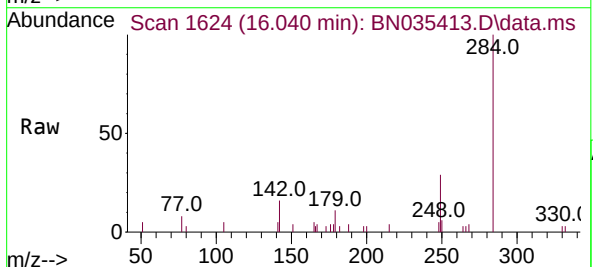
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

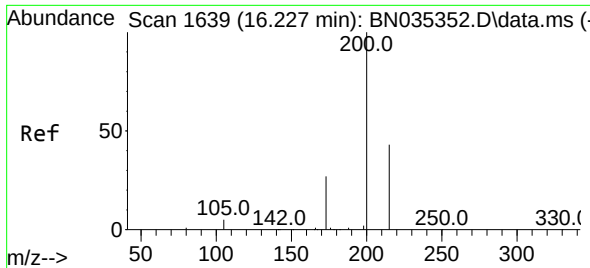
Tgt Ion:248 Resp: 1954
Ion Ratio Lower Upper
248 100
250 90.7 80.6 120.8
141 81.0 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:284 Resp: 2442
Ion Ratio Lower Upper
284 100
142 35.5 26.7 40.1
249 32.4 24.6 36.8

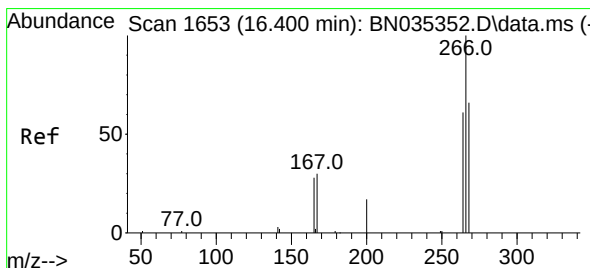
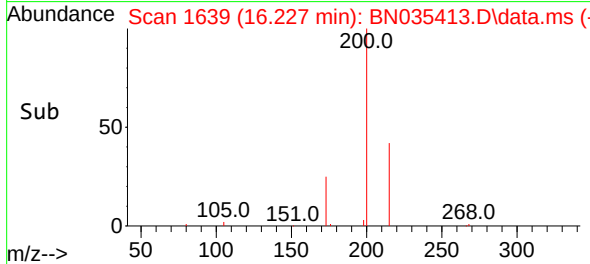
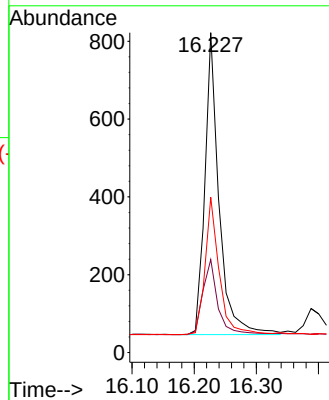
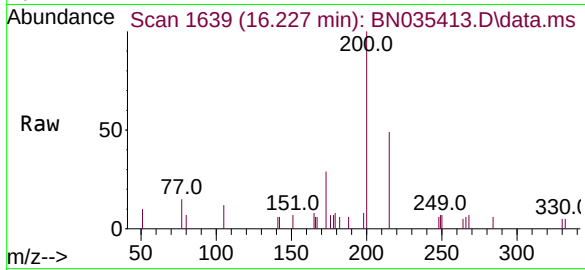




#23
Atrazine
Concen: 0.344 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

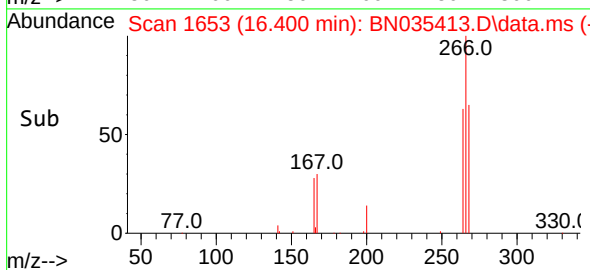
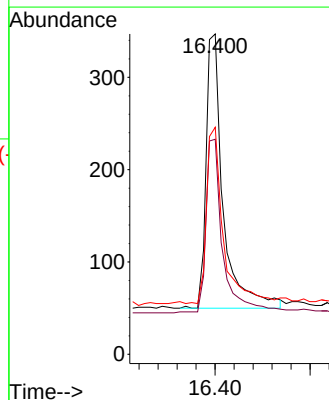
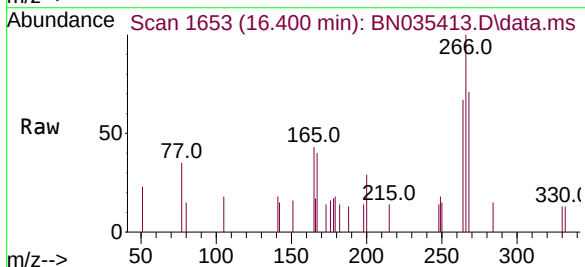
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

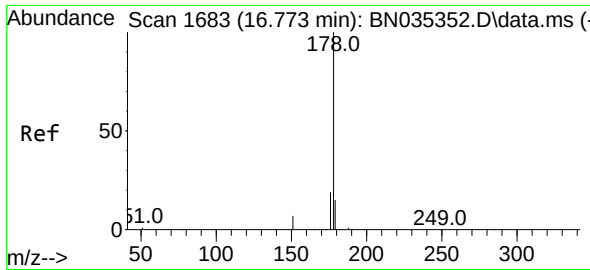
Tgt Ion	Ratio	Lower	Upper
200	100		
173	29.1	24.1	36.1
215	48.5	36.9	55.3



#24
Pentachlorophenol
Concen: 0.289 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.0	42.3	63.5
268	63.5	43.3	64.9

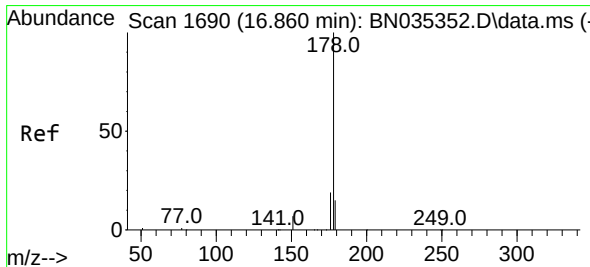
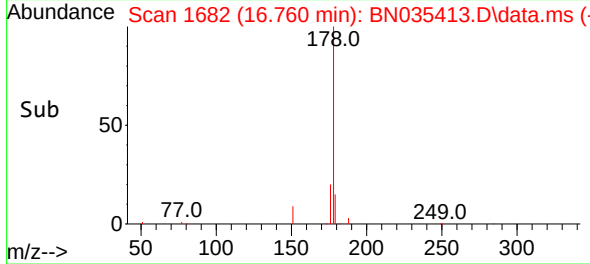
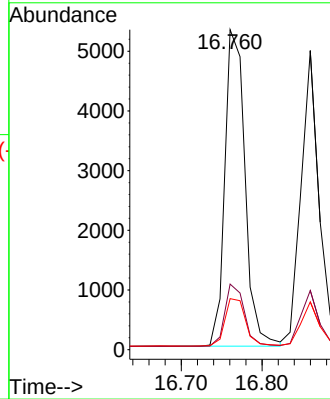
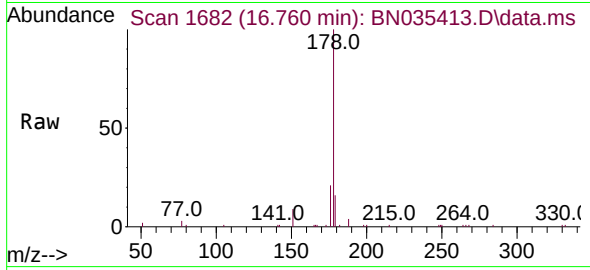




#25
Phenanthrene
Concen: 0.390 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

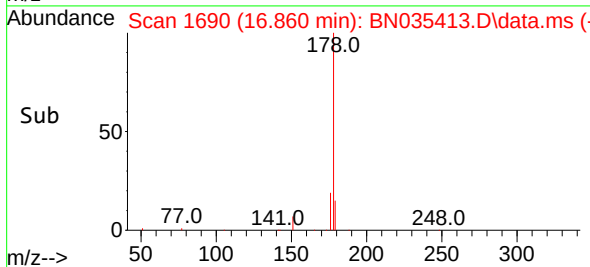
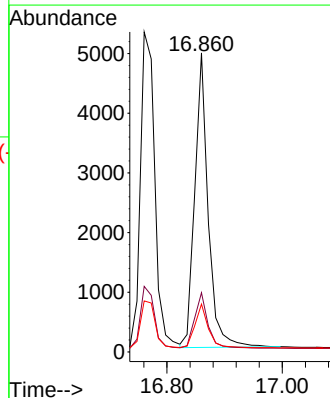
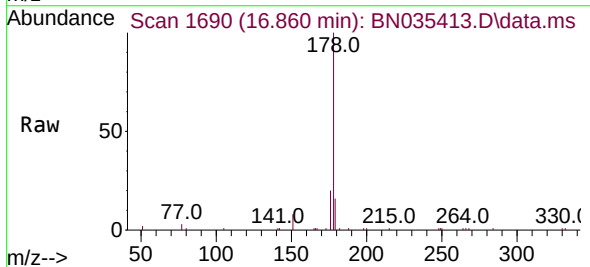
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

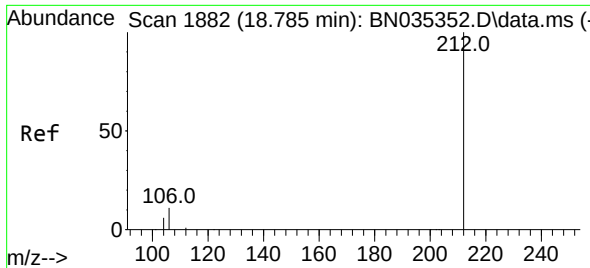
Tgt Ion:178 Resp: 9217
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.373 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:178 Resp: 7974
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.6 18.8

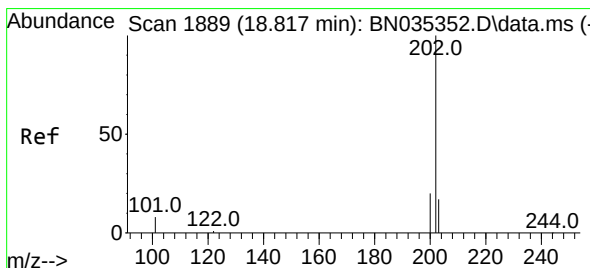
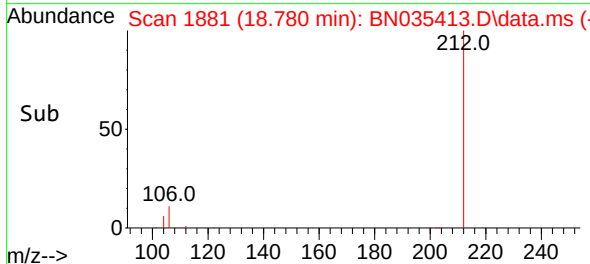
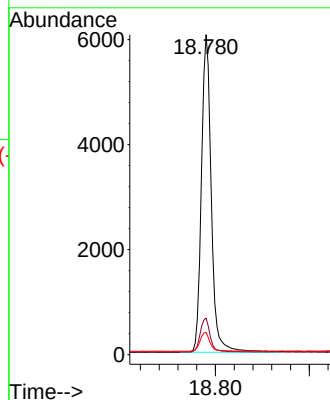
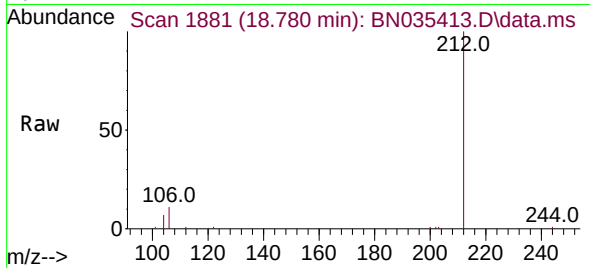




#27
Fluoranthene-d10
Concen: 0.361 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

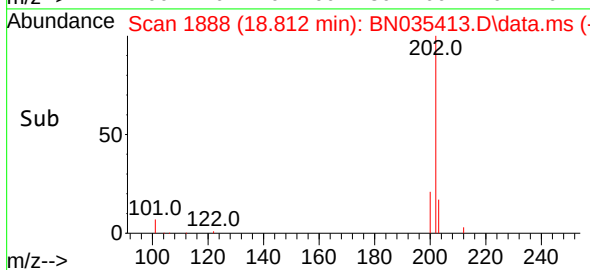
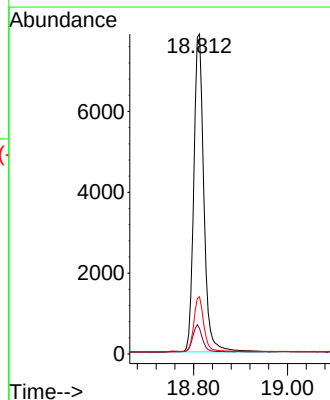
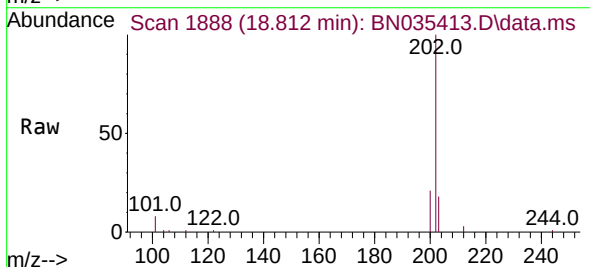
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

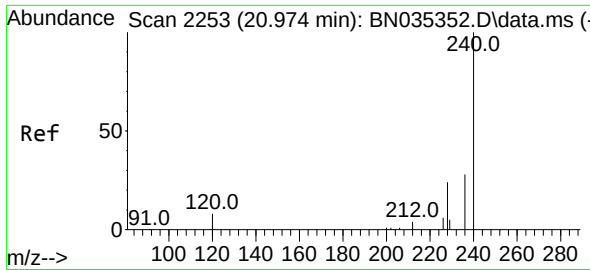
Tgt Ion:212 Resp: 8797
Ion Ratio Lower Upper
212 100
106 10.7 9.2 13.8
104 6.2 5.3 7.9



#28
Fluoranthene
Concen: 0.368 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:202 Resp: 11723
Ion Ratio Lower Upper
202 100
101 8.5 7.4 11.0
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

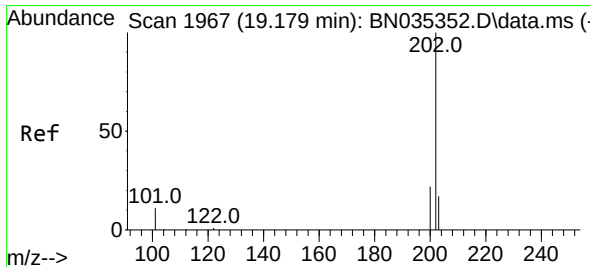
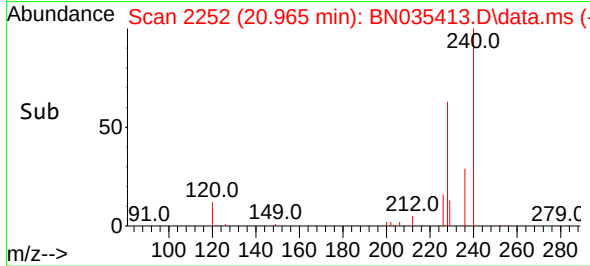
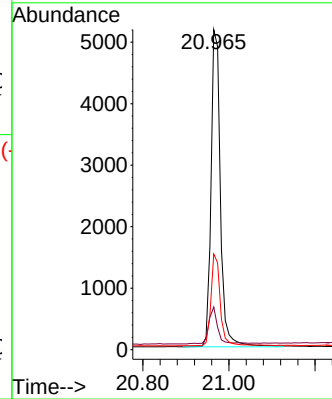
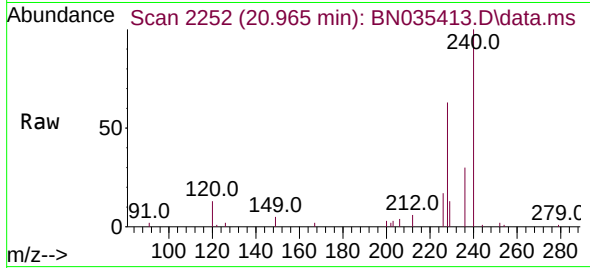
Tgt Ion:240 Resp: 7834

Ion Ratio Lower Upper

240 100

120 13.4 7.9 11.9#

236 29.9 22.9 34.3



#30

Pyrene

Concen: 0.410 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

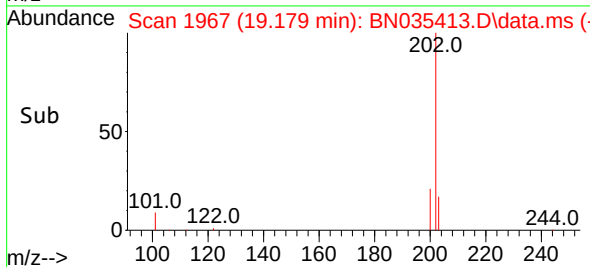
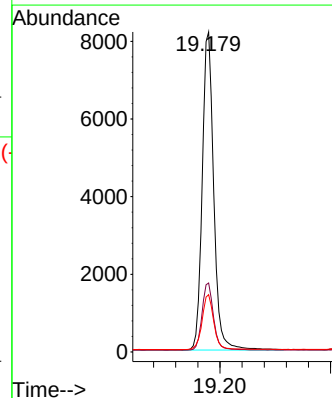
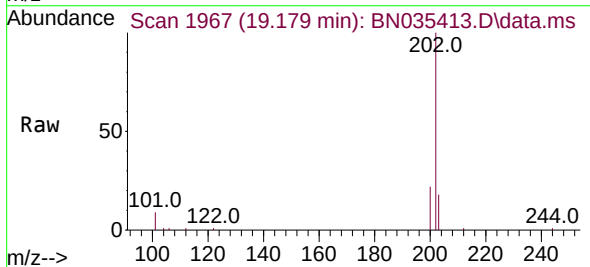
Tgt Ion:202 Resp: 11845

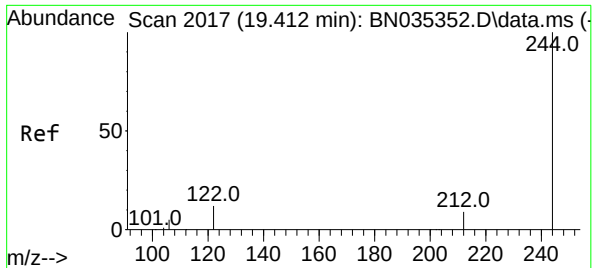
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.8 14.3 21.5

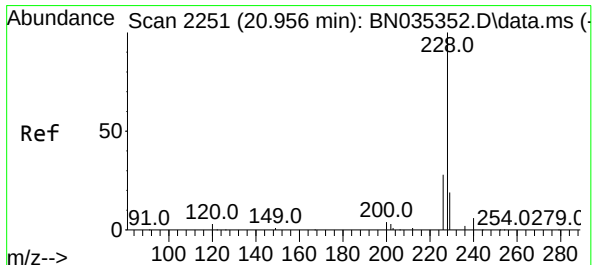
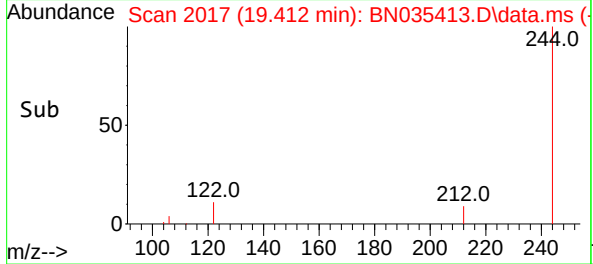
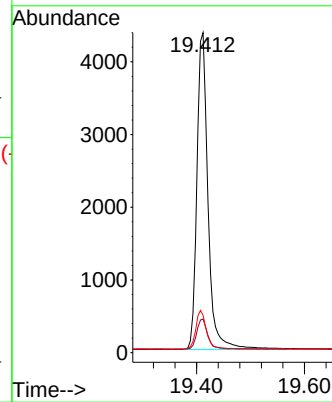
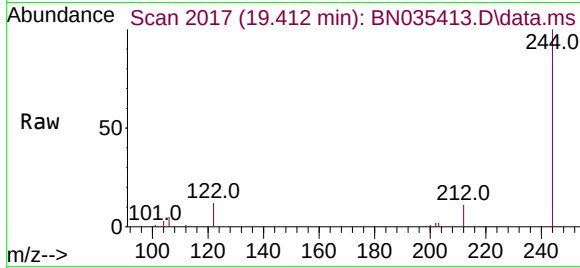




#31
Terphenyl-d14
Concen: 0.403 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

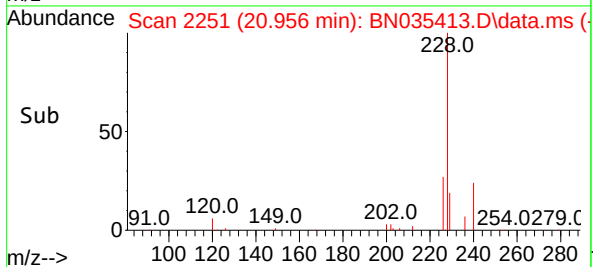
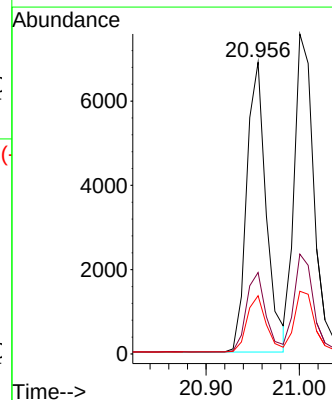
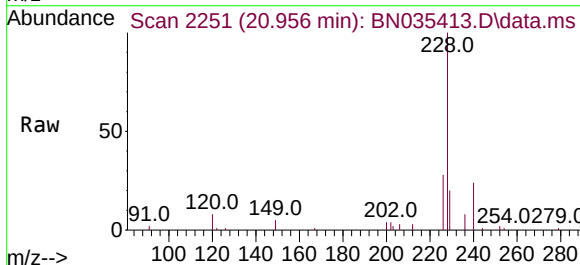
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

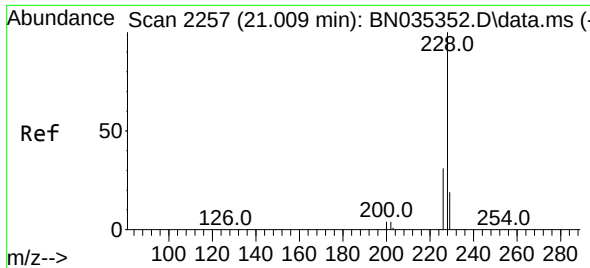
Tgt Ion:244 Resp: 6230
Ion Ratio Lower Upper
244 100
212 10.5 8.1 12.1
122 11.8 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:228 Resp: 10025
Ion Ratio Lower Upper
228 100
226 27.9 22.5 33.7
229 19.9 15.8 23.8





#33

Chrysene

Concen: 0.401 ng

RT: 21.001 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

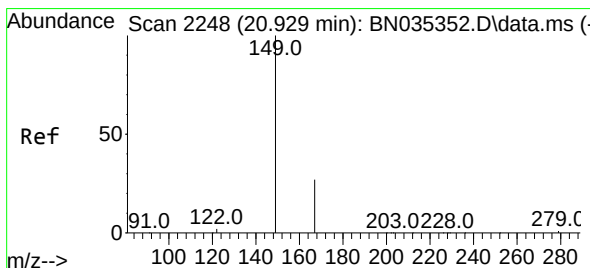
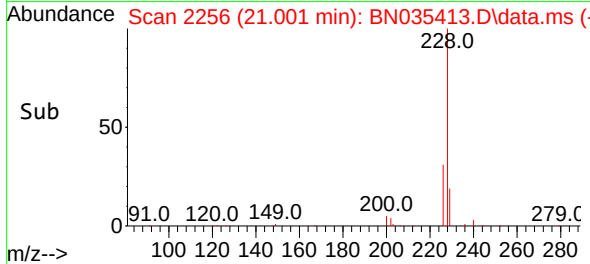
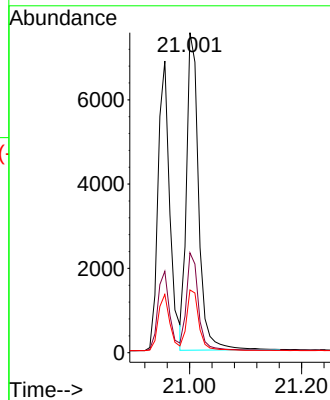
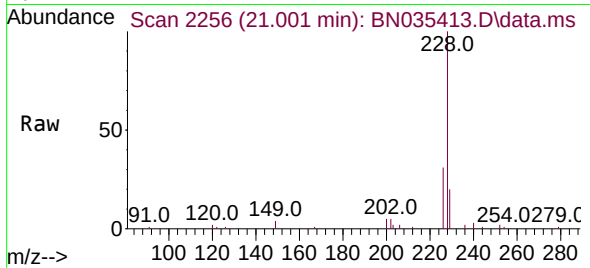
Tgt Ion:228 Resp: 11323

Ion Ratio Lower Upper

228 100

226 31.2 24.6 37.0

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.352 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

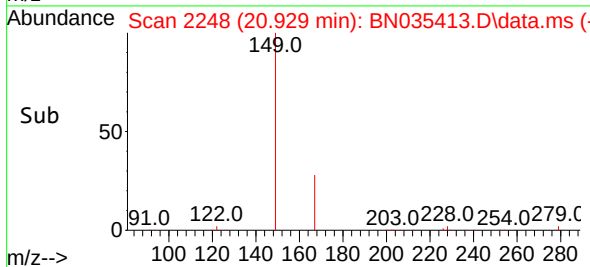
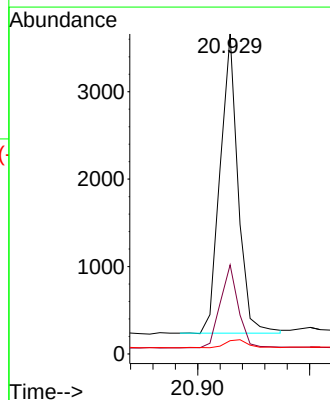
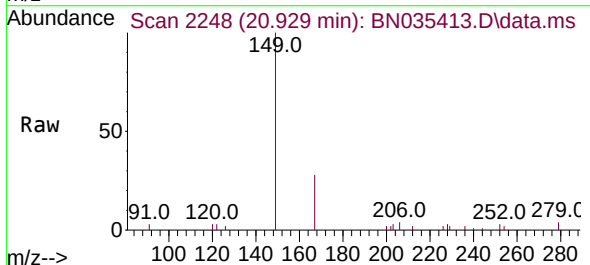
Tgt Ion:149 Resp: 3811

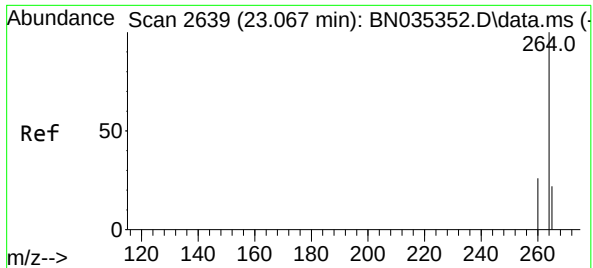
Ion Ratio Lower Upper

149 100

167 28.4 22.2 33.4

279 3.3 2.7 4.1

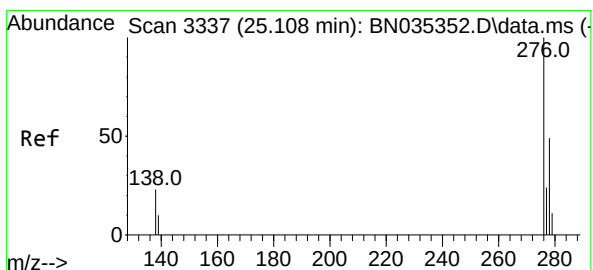
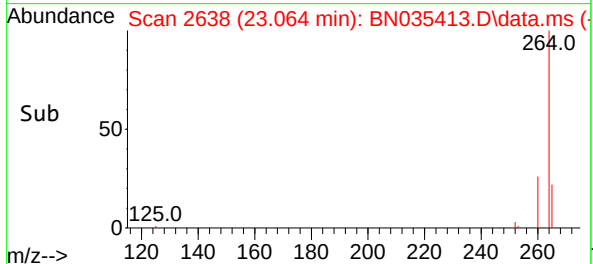
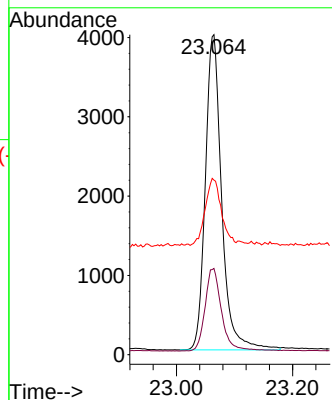
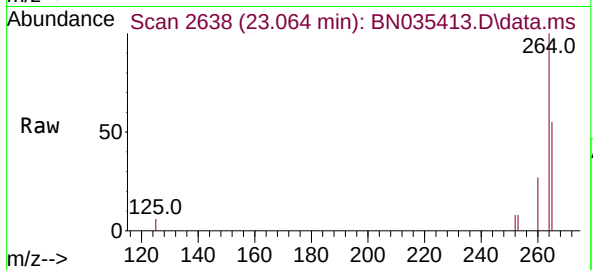




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.064 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

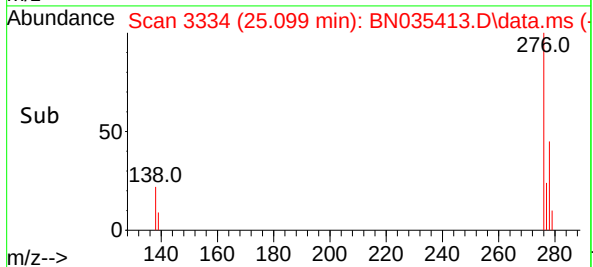
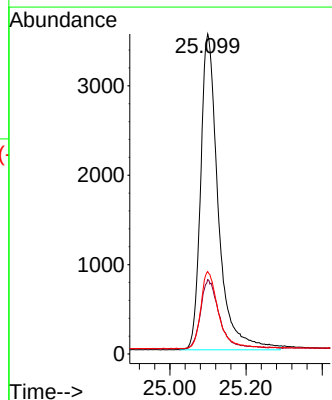
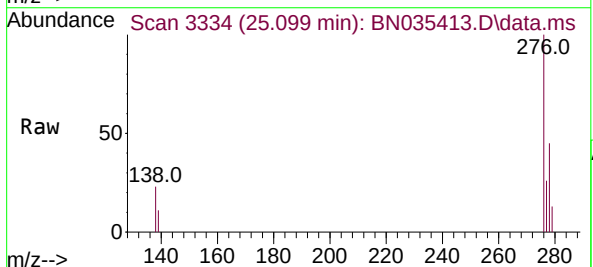
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

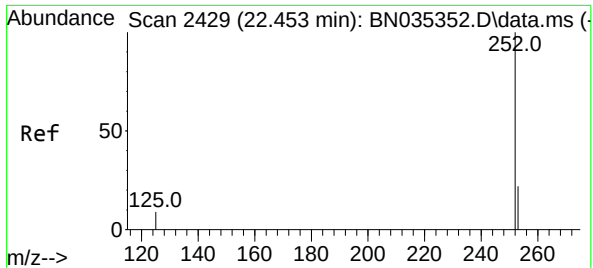
Tgt Ion:264 Resp: 7769
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.2
265 54.5 40.2 60.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.099 min Scan# 3334
Delta R.T. -0.009 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:276 Resp: 11352
Ion Ratio Lower Upper
276 100
138 22.8 19.4 29.0
277 24.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.456 ng

RT: 22.448 min Scan# 241

Delta R.T. -0.006 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

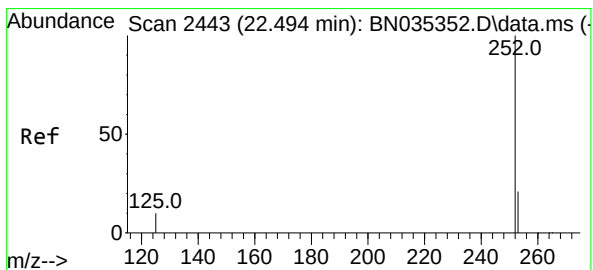
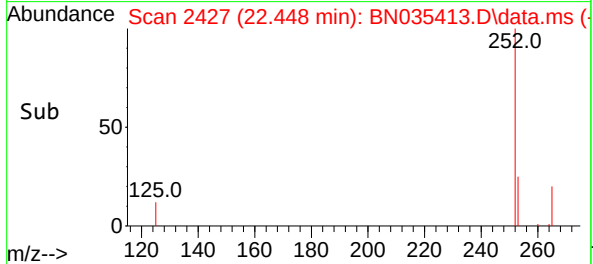
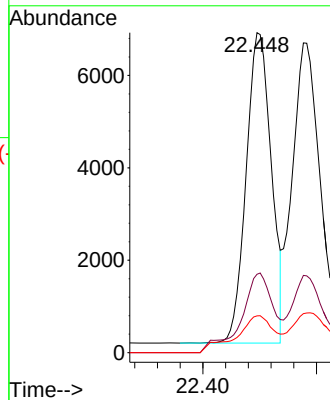
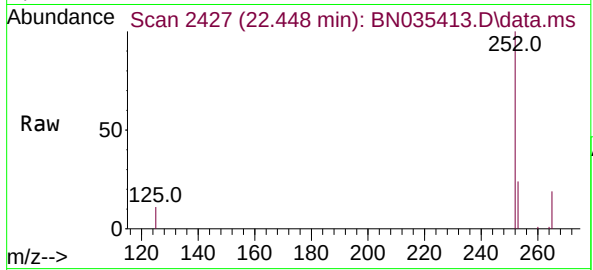
Tgt Ion:252 Resp: 12967

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

125 11.5 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.488 min Scan# 2441

Delta R.T. -0.006 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

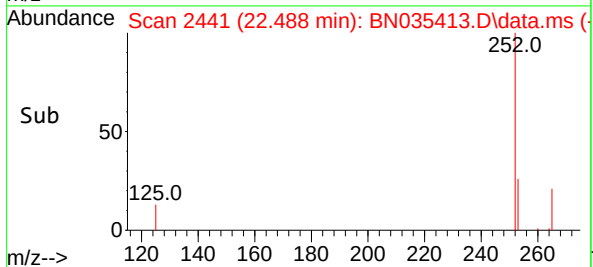
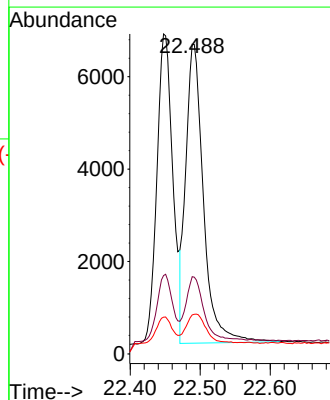
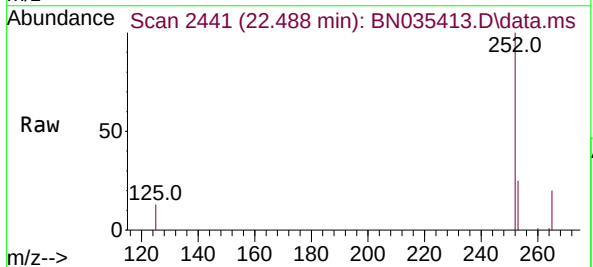
Tgt Ion:252 Resp: 11373

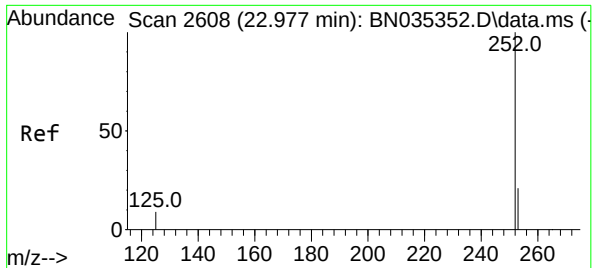
Ion Ratio Lower Upper

252 100

253 24.9 19.5 29.3

125 12.6 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.363 ng

RT: 22.974 min Scan# 2

Delta R.T. -0.003 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

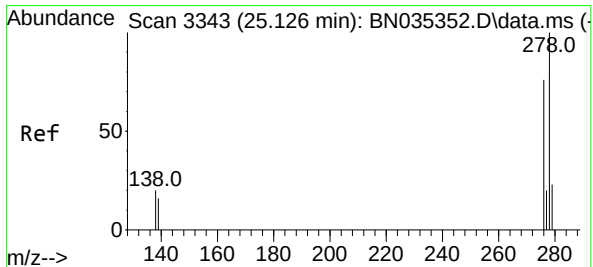
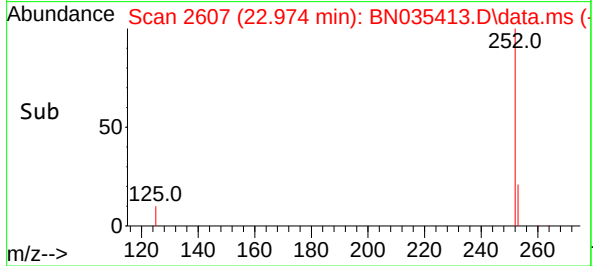
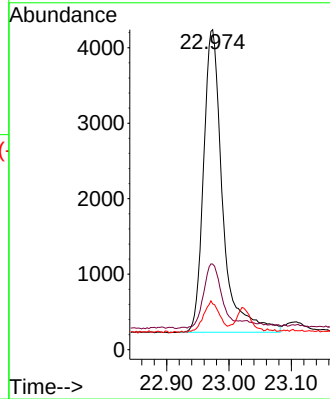
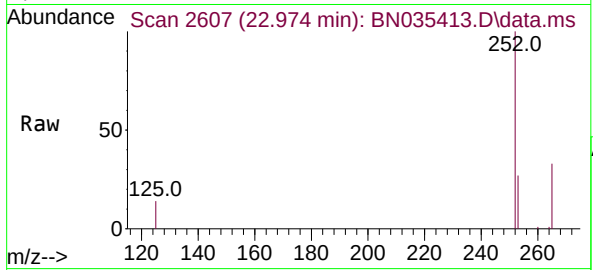
Tgt Ion:252 Resp: 8498

Ion Ratio Lower Upper

252 100

253 26.8 20.2 30.4

125 14.3 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.362 ng

RT: 25.120 min Scan# 3341

Delta R.T. -0.006 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

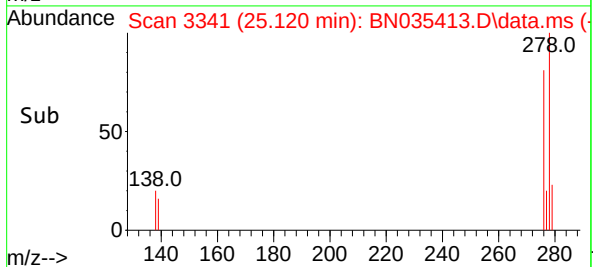
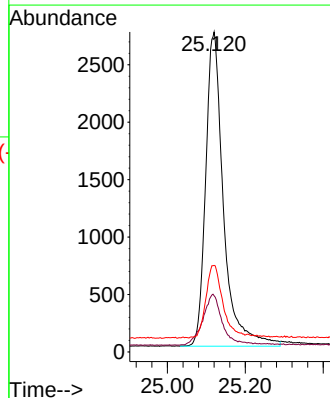
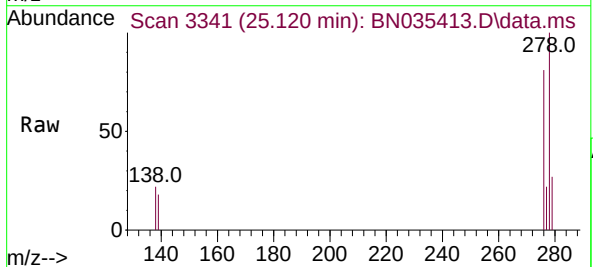
Tgt Ion:278 Resp: 8673

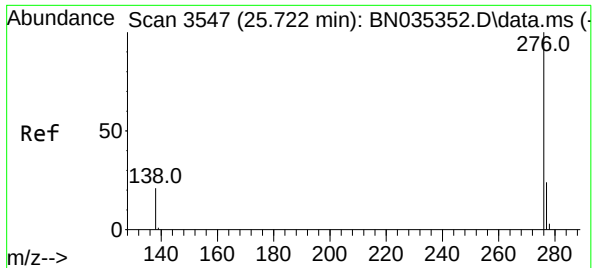
Ion Ratio Lower Upper

278 100

139 17.5 14.2 21.4

279 27.1 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.368 ng

RT: 25.716 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN035413.D

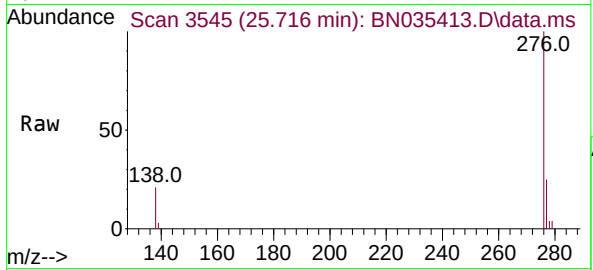
Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



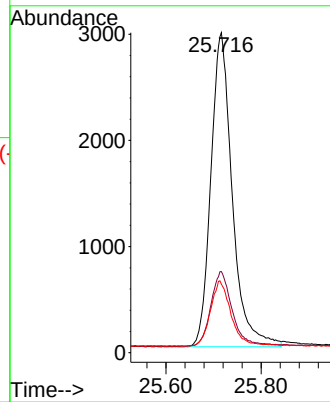
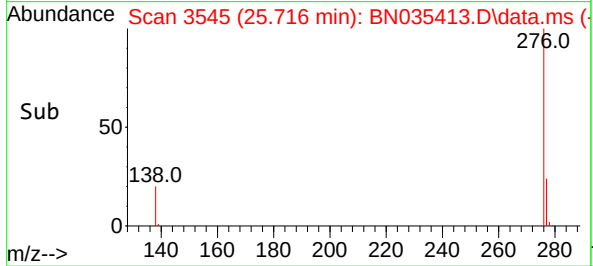
Tgt Ion:276 Resp: 9224

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

138 21.5 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035413.D
Acq On : 03 Dec 2024 21:11
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 03 22:06:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	93	0.00
2	1,4-Dioxane	0.382	0.384	-0.5	95	0.00
3	n-Nitrosodimethylamine	0.319	0.294	7.8	84	0.00
4 S	2-Fluorophenol	1.001	0.907	9.4	83	0.00
5 S	Phenol-d6	1.204	1.095	9.1	85	0.00
6	bis(2-Chloroethyl)ether	1.012	0.951	6.0	89	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
8 S	Nitrobenzene-d5	0.244	0.240	1.6	95	0.00
9	Naphthalene	1.055	1.055	0.0	93	-0.01
10	Hexachlorobutadiene	0.243	0.267	-9.9	100	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.609	2.7	91	0.00
12	2-Methylnaphthalene	0.755	0.734	2.8	92	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	90	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.256	9.9	90	0.00
15 S	2-Fluorobiphenyl	1.512	1.547	-2.3	92	0.00
16	Acenaphthylene	1.680	1.601	4.7	90	-0.01
17	Acenaphthene	1.115	1.092	2.1	90	-0.01
18	Fluorene	1.596	1.577	1.2	92	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	91	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.035	10.3	90	0.00
21	4-Bromophenyl-phenylether	0.234	0.227	3.0	91	-0.01
22	Hexachlorobenzene	0.275	0.284	-3.3	94	0.00
23	Atrazine	0.167	0.143	14.4	84	0.00
24	Pentachlorophenol	0.120	0.086	28.3#	82	0.00
25	Phenanthrene	1.099	1.072	2.5	91	-0.01
26	Anthracene	0.994	0.927	6.7	89	0.00
27 SURR	Fluoranthene-d10	1.134	1.023	9.8	86	0.00
28	Fluoranthene	1.481	1.363	8.0	87	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	82	0.00
30	Pyrene	1.477	1.512	-2.4	84	0.00
31 S	Terphenyl-d14	0.789	0.795	-0.8	83	0.00
32	Benzo(a)anthracene	1.399	1.280	8.5	78	0.00
33	Chrysene	1.443	1.445	-0.1	82	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.486	12.1	78	0.00
35 I	Perylene-d12	1.000	1.000	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.461	6.6	68	0.00
37	Benzo(b)fluoranthene	1.463	1.669	-14.1	91	0.00
38	Benzo(k)fluoranthene	1.440	1.464	-1.7	75	0.00
39 C	Benzo(a)pyrene	1.205	1.094	9.2	68	0.00
40	Dibenzo(a,h)anthracene	1.234	1.116	9.6	67	0.00
41	Benzo(g,h,i)perylene	1.289	1.187	7.9	68	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035413.D
Acq On : 03 Dec 2024 21:11
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 03 22:06:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	93	0.00
2	1,4-Dioxane	0.400	0.401	-0.3	95	0.00
3	n-Nitrosodimethylamine	0.400	0.370	7.5	84	0.00
4 S	2-Fluorophenol	0.400	0.362	9.5	83	0.00
5 S	Phenol-d6	0.400	0.364	9.0	85	0.00
6	bis(2-Chloroethyl)ether	0.400	0.376	6.0	89	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	93	0.00
8 S	Nitrobenzene-d5	0.400	0.393	1.8	95	0.00
9	Naphthalene	0.400	0.400	0.0	93	-0.01
10	Hexachlorobutadiene	0.400	0.438	-9.5	100	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	91	0.00
12	2-Methylnaphthalene	0.400	0.389	2.8	92	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	90	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.360	10.0	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.409	-2.2	92	0.00
16	Acenaphthylene	0.400	0.381	4.8	90	-0.01
17	Acenaphthene	0.400	0.392	2.0	90	-0.01
18	Fluorene	0.400	0.395	1.3	92	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	91	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.358	10.5	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.388	3.0	91	-0.01
22	Hexachlorobenzene	0.400	0.413	-3.2	94	0.00
23	Atrazine	0.400	0.344	14.0	84	0.00
24	Pentachlorophenol	0.400	0.289	27.8#	82	0.00
25	Phenanthrene	0.400	0.390	2.5	91	-0.01
26	Anthracene	0.400	0.373	6.8	89	0.00
27 SURR	Fluoranthene-d10	0.400	0.361	9.8	86	0.00
28	Fluoranthene	0.400	0.368	8.0	87	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	82	0.00
30	Pyrene	0.400	0.410	-2.5	84	0.00
31 S	Terphenyl-d14	0.400	0.403	-0.8	83	0.00
32	Benzo(a)anthracene	0.400	0.366	8.5	78	0.00
33	Chrysene	0.400	0.401	-0.3	82	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	78	0.00
35 I	Perylene-d12	0.400	0.400	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.374	6.5	68	0.00
37	Benzo(b)fluoranthene	0.400	0.456	-14.0	91	0.00
38	Benzo(k)fluoranthene	0.400	0.407	-1.7	75	0.00
39 C	Benzo(a)pyrene	0.400	0.363	9.3	68	0.00
40	Dibenzo(a,h)anthracene	0.400	0.362	9.5	67	0.00
41	Benzo(g,h,i)perylene	0.400	0.368	8.0	68	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



QC SAMPLE DATA

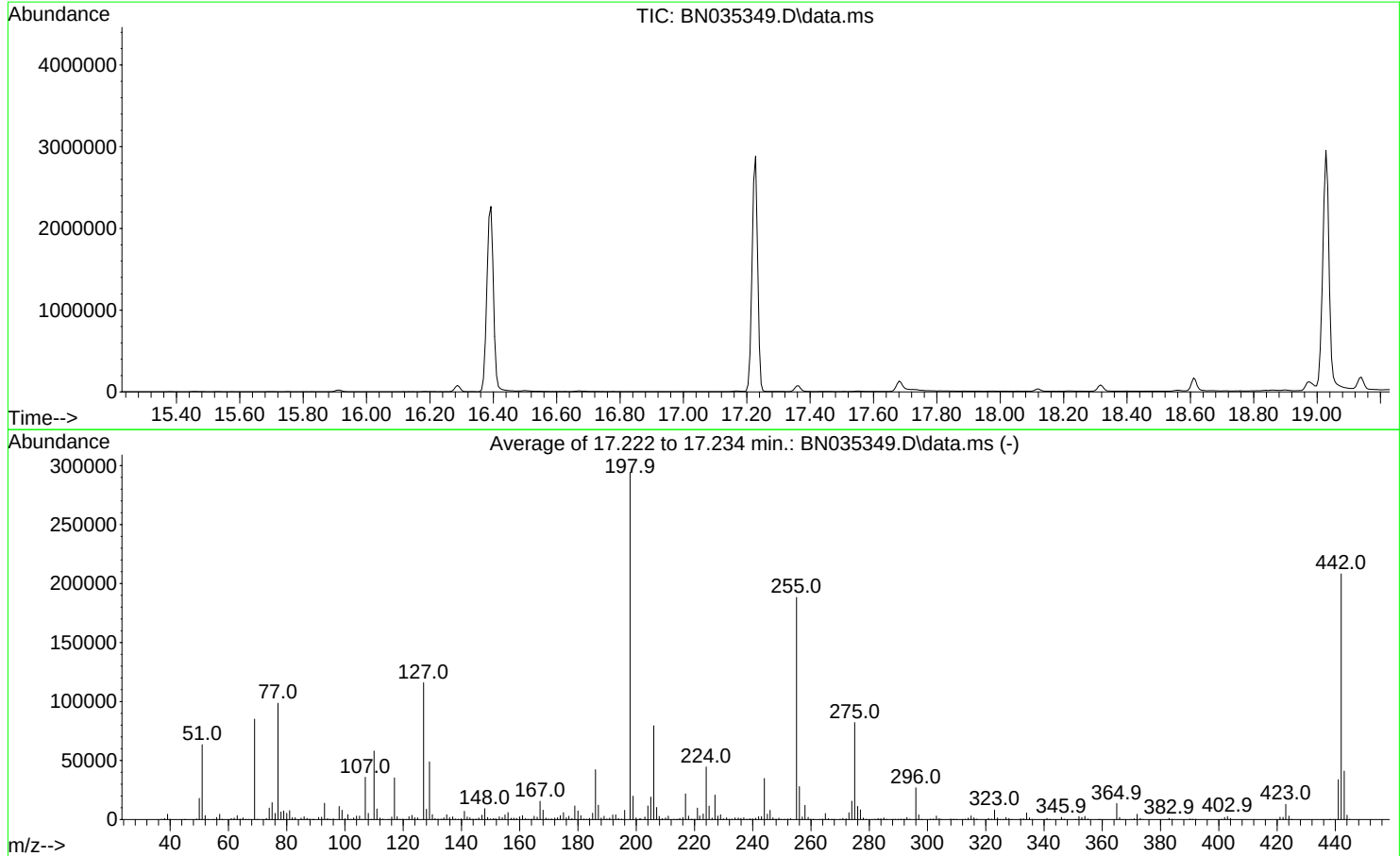
- 1
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- 17
- 18

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



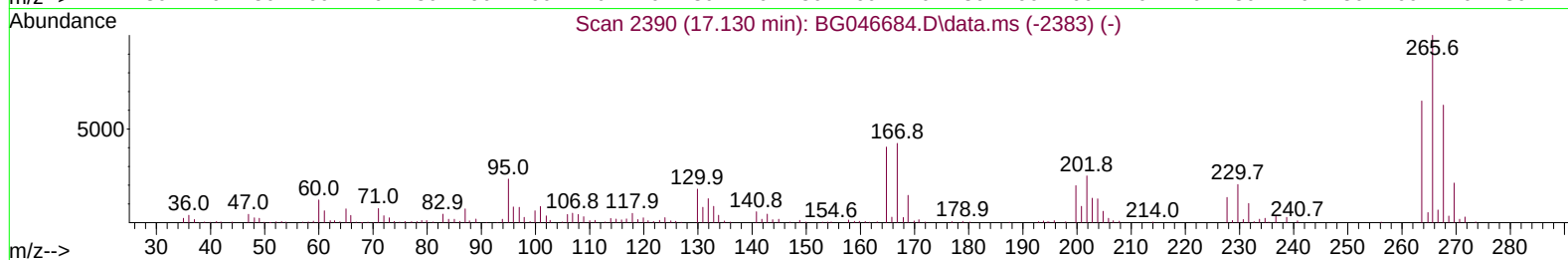
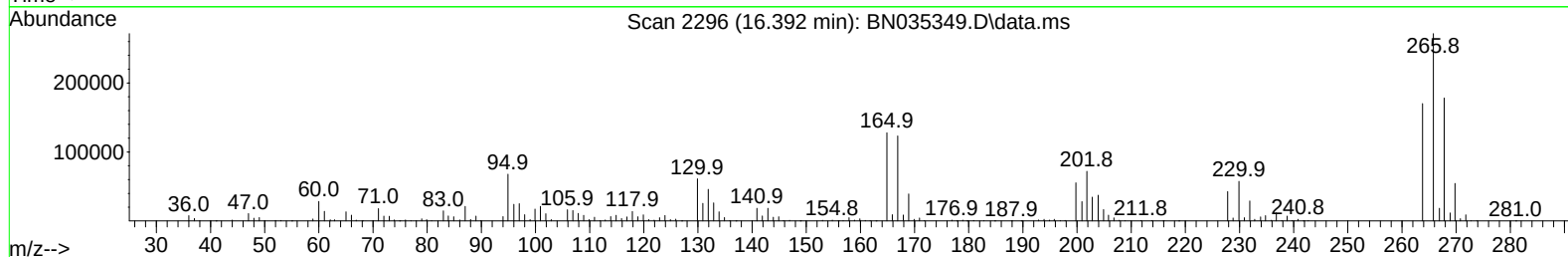
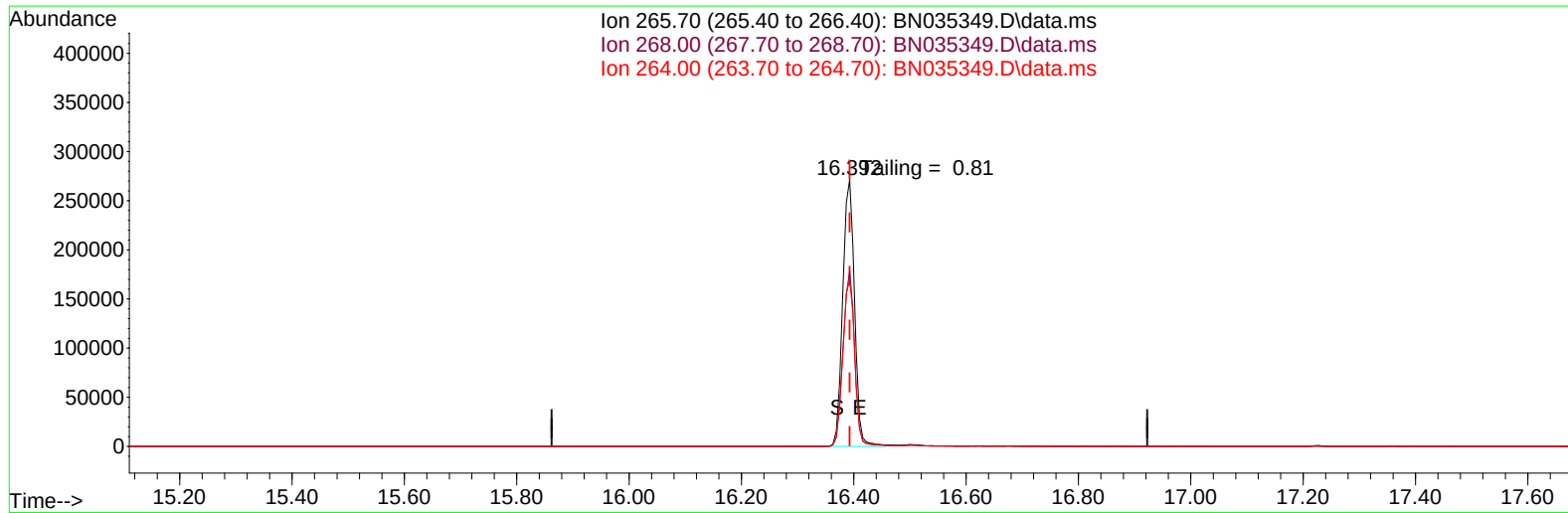
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

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

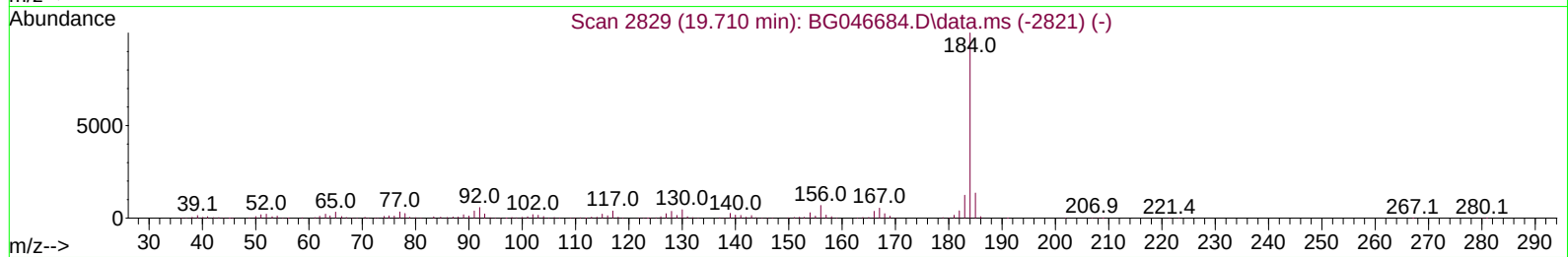
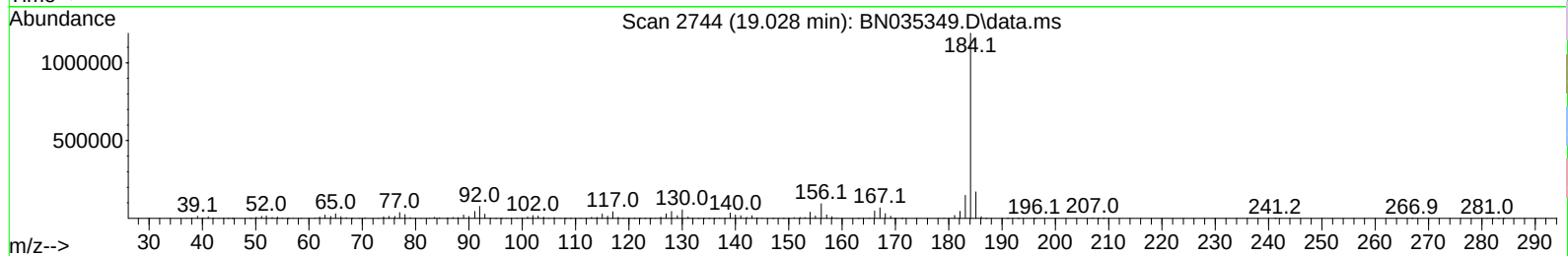
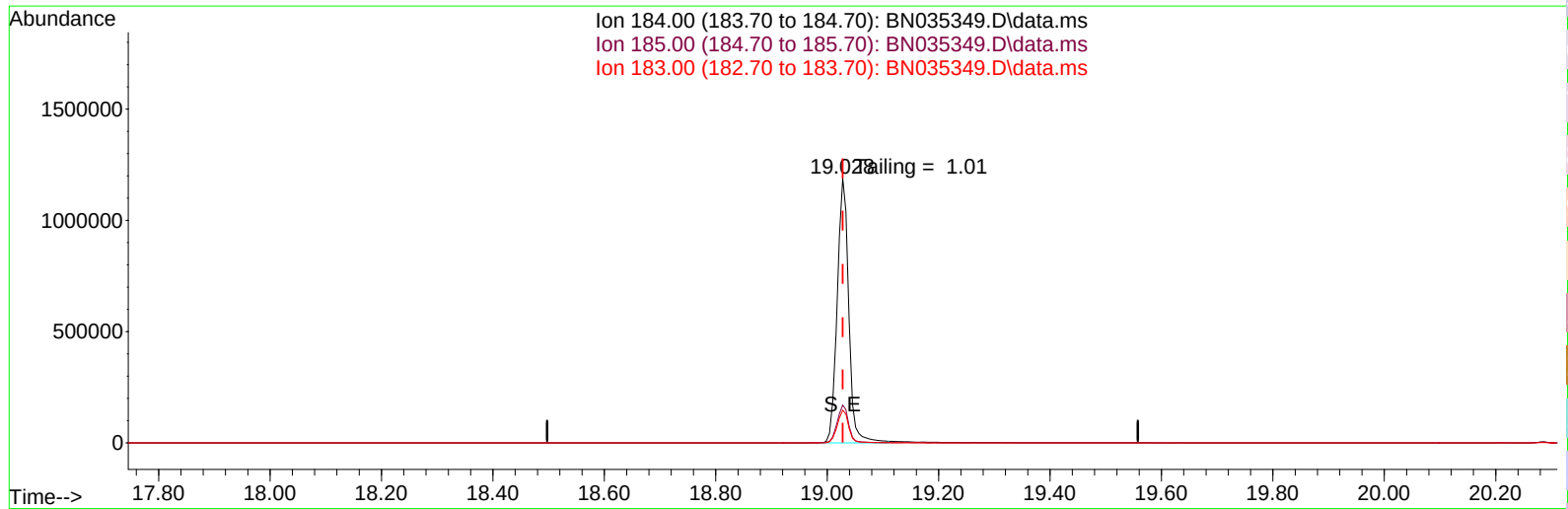
response 398074

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

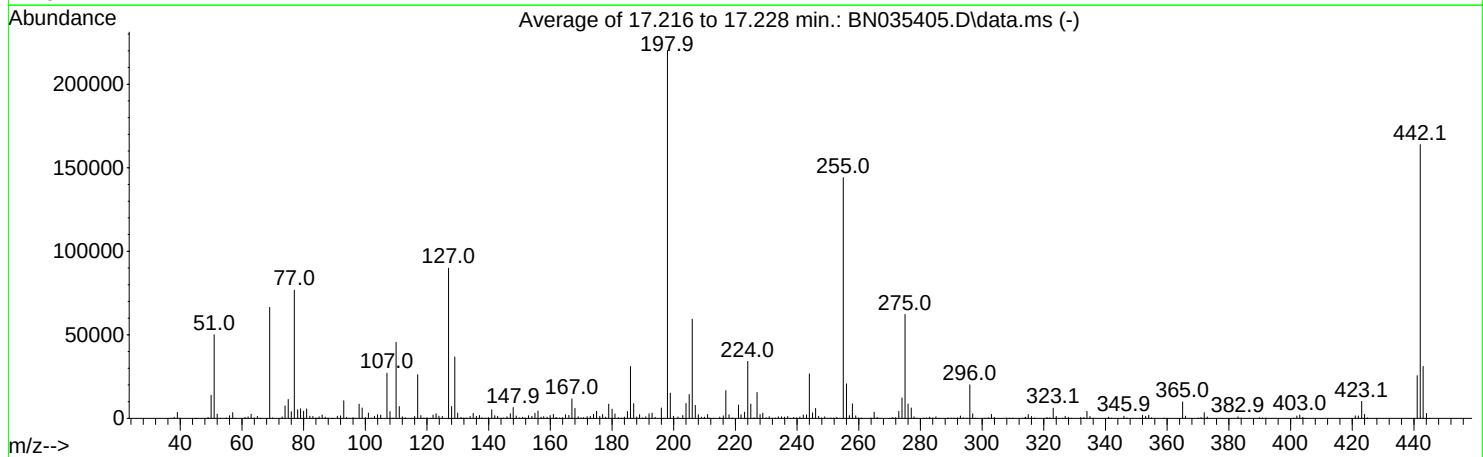
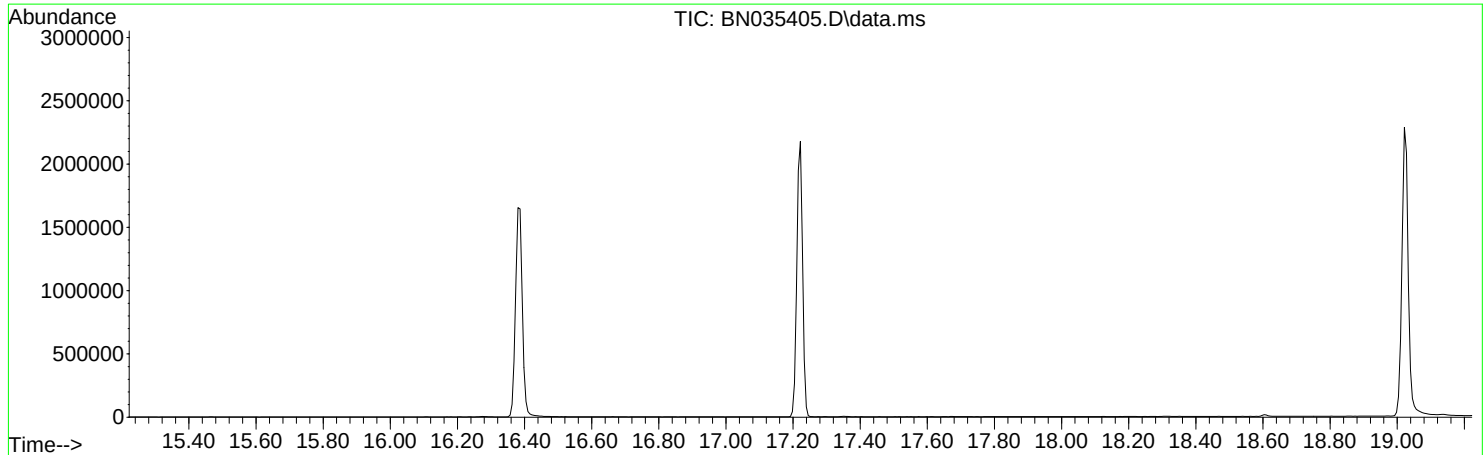
Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	<u>BN035349.D</u>
Compound Name	Response	Retention Time
DDT	985457	20.286
DDD	27636	19.839
DDE	578	19.322
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28214	1013671	2.78

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035405.D
Acq On : 03 Dec 2024 15:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



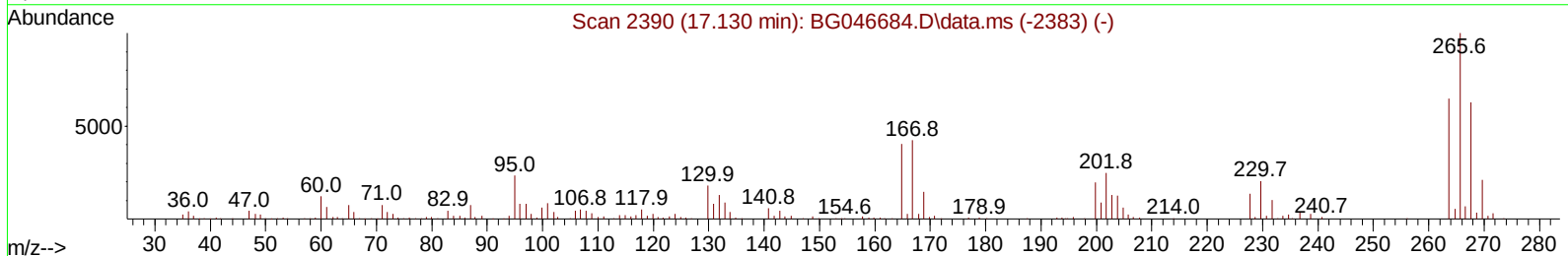
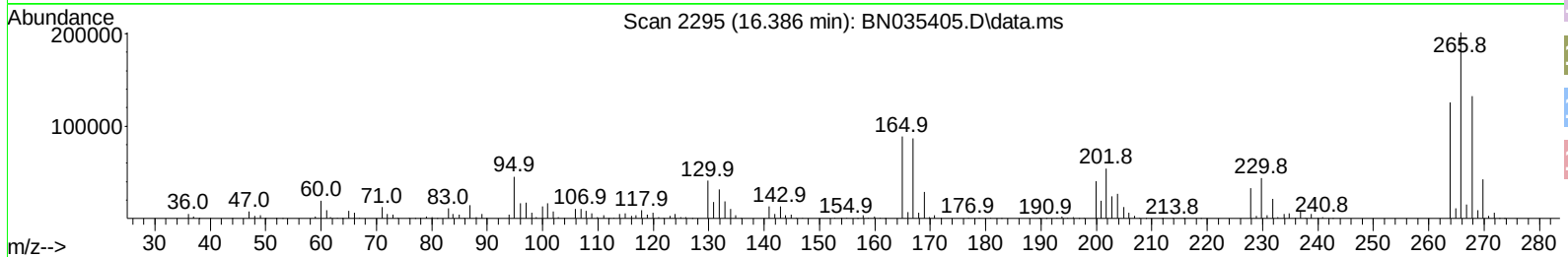
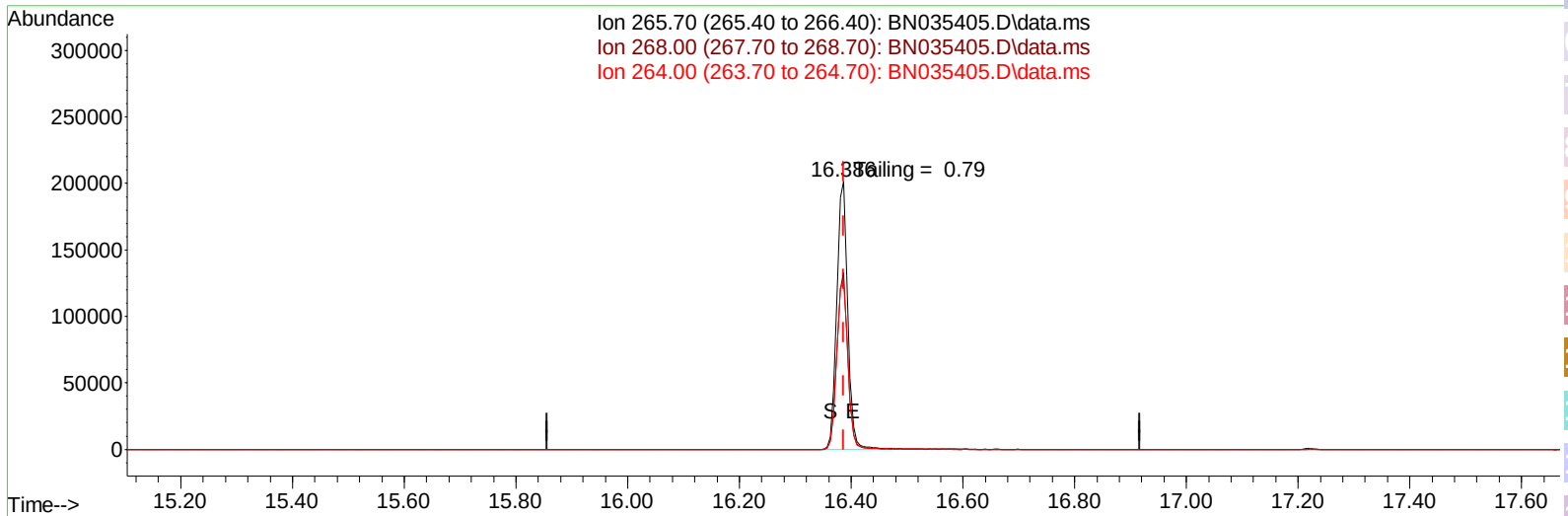
AutoFind: Scans 2436, 2437, 2438; Background Corrected with Scan 2429

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.8	50112	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.2	66499	PASS
70	69	0.00	2	0.4	295	PASS
127	198	10	80	40.9	89949	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	220181	PASS
199	198	5	9	6.9	15167	PASS
275	198	10	60	28.3	62245	PASS
365	198	1	100	4.5	9919	PASS
441	198	0.01	100	11.6	25605	PASS
442	442	50	100	100.0	163819	PASS
443	442	15	24	19.0	31133	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035405.D
Acq On : 03 Dec 2024 15:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 03 23:08:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 03 23:08:29 2024
Response via : Initial Calibration



TIC: BN035405.D\data.ms

(70) Pentachlorophenol (C)

16.386min (0.000) 30135.06 ng

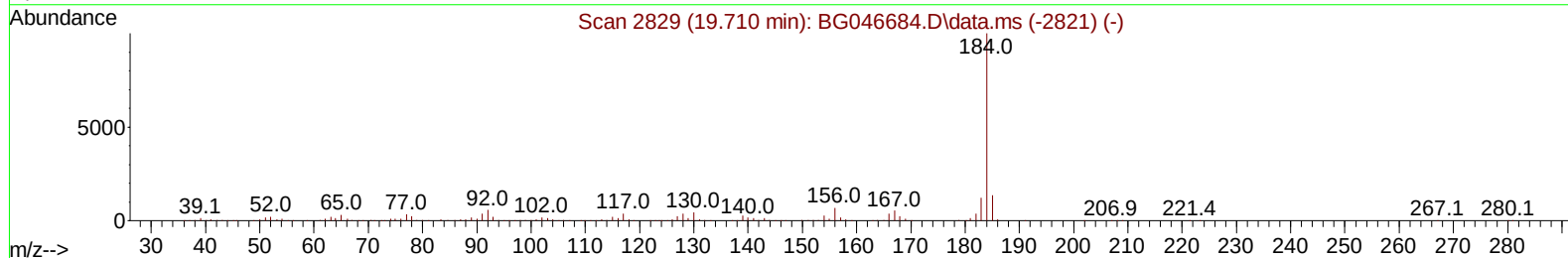
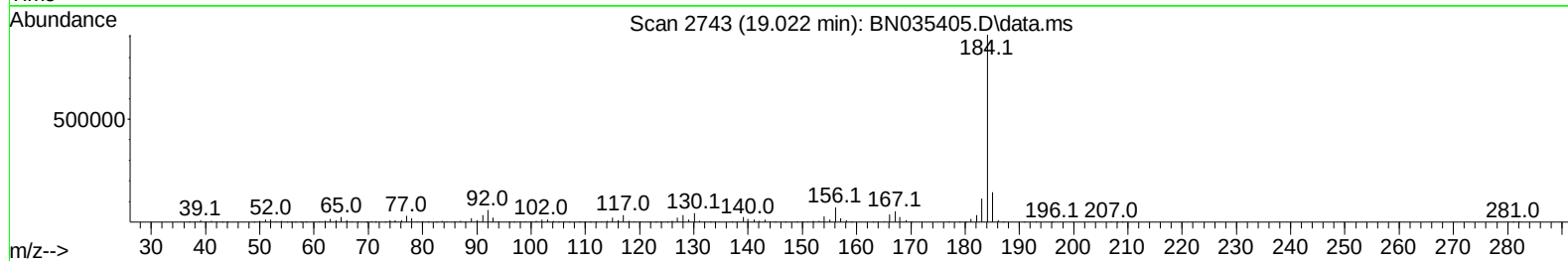
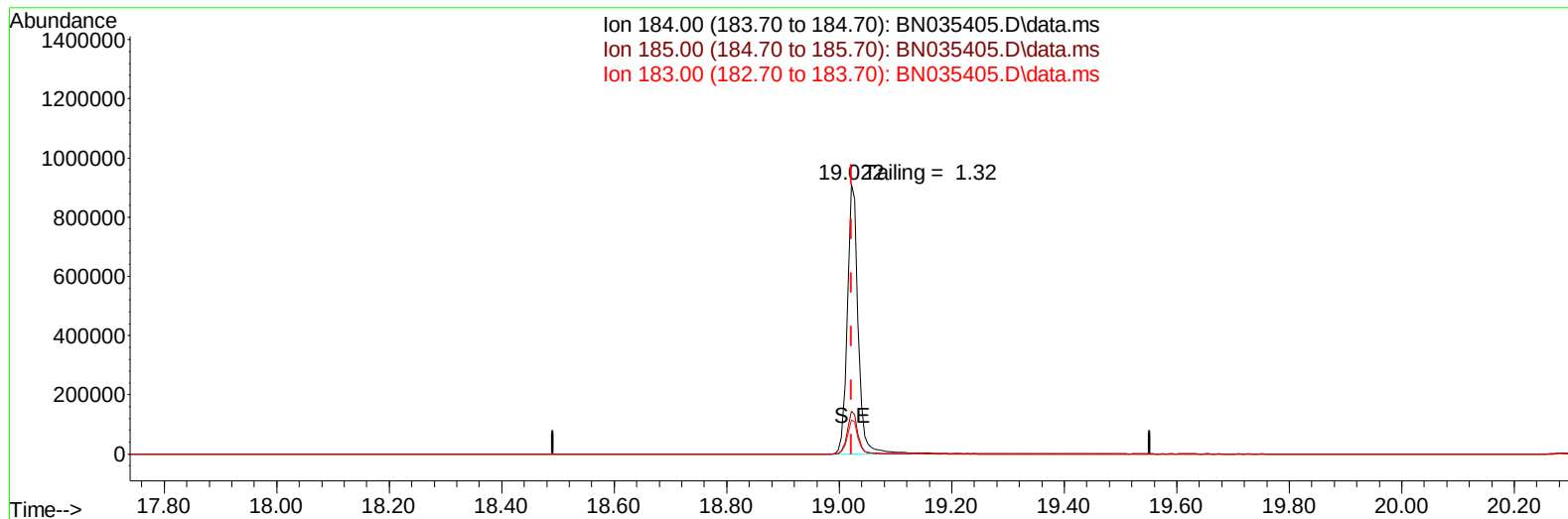
response 280007

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.85
264.00	61.60	62.30
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035405.D
Acq On : 03 Dec 2024 15:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 03 23:08:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 03 23:08:29 2024
Response via : Initial Calibration



TIC: BN035405.D\data.ms

(77) Benzidine

19.022min (0.000) 0.00 ng

response 1239645

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.96
183.00	13.20	12.61
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/4/2024	BNA_N	<u>BN035405.D</u>
Compound Name	Response	Retention Time
DDT	674620	20.286
DDD	16934	19.833
DDE	1155	19.322
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
18089	692709	2.61

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165348BL	SDG No.:	P5065
Lab Sample ID:	PB165348BL	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035407.D	1	12/03/24 12:30	12/03/24 17:37	PB165348

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	0.44		30 - 150		109%	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		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		106%	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	1830	7.3				
1146-65-2	Naphthalene-d8	4530	10.052				
15067-26-2	Acenaphthene-d10	3260	13.967				
1517-22-2	Phenanthrene-d10	8120	16.735				
1719-03-5	Chrysene-d12	6940	20.983				
1520-96-3	Perylene-d12	6490	23.076				

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\BN120424\
Data File : BN035407.D
Acq On : 03 Dec 2024 17:37
Operator : RC/JU
Sample : PB165348BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165348BL

Quant Time: Dec 03 18:02:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	7.300	152	1833	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4526	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3257	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	8120	0.400	ng	# 0.00
29) Chrysene-d12	20.983	240	6937	0.400	ng	0.00
35) Perylene-d12	23.076	264	6492	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1626	0.354	ng	-0.01
5) Phenol-d6	6.506	99	1782	0.323	ng	0.00
8) Nitrobenzene-d5	8.440	82	1109	0.401	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	3089	0.436	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	400	0.173	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	5204	0.423	ng	0.00
27) Fluoranthene-d10	18.785	212	9620	0.418	ng	0.00
31) Terphenyl-d14	19.416	244	7009	0.512	ng	0.00

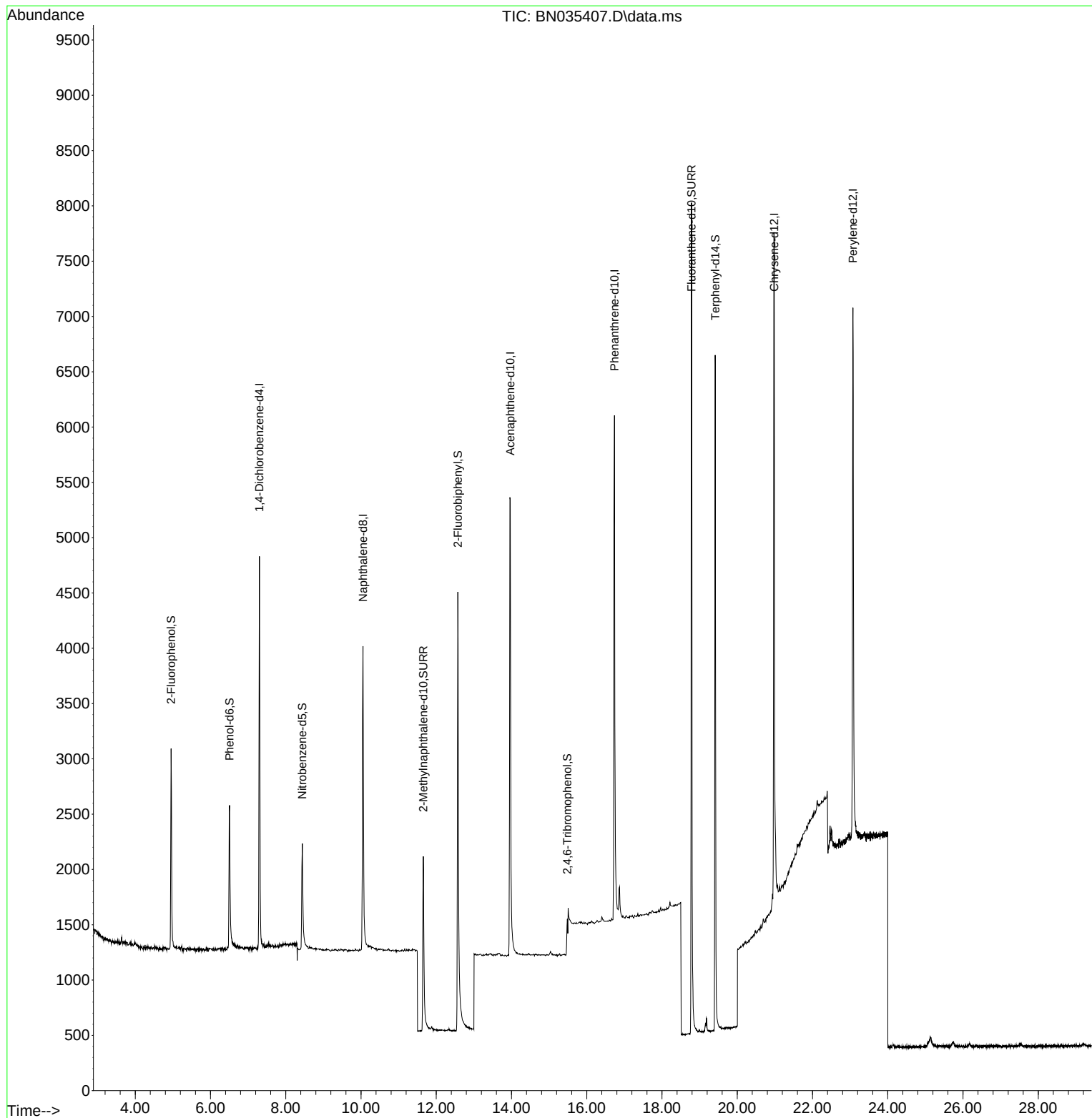
Target Compounds Qvalue

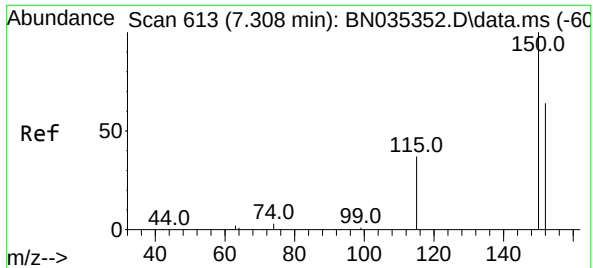
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035407.D
Acq On : 03 Dec 2024 17:37
Operator : RC/JU
Sample : PB165348BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165348BL

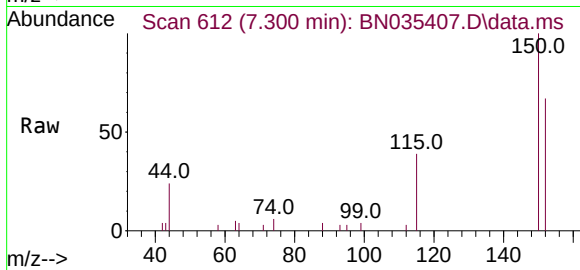
Quant Time: Dec 03 18:02:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



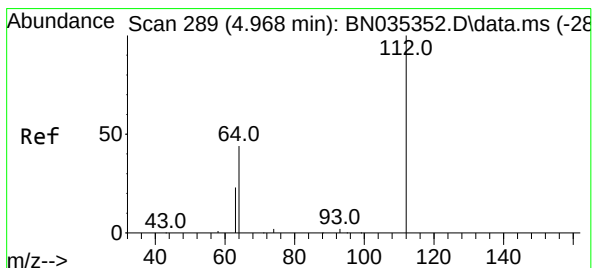
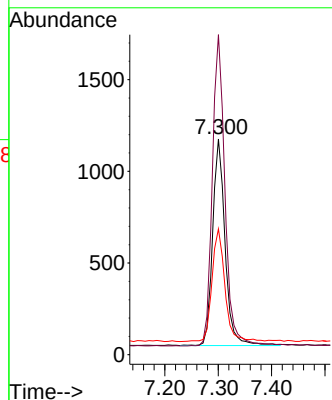
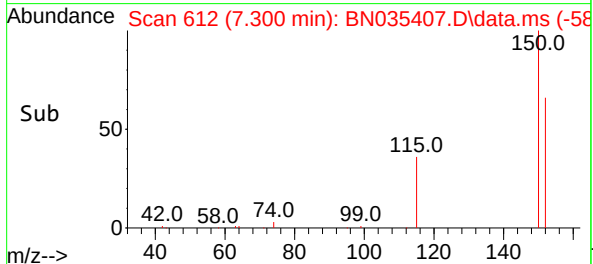


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 613
Delta R.T. -0.008 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

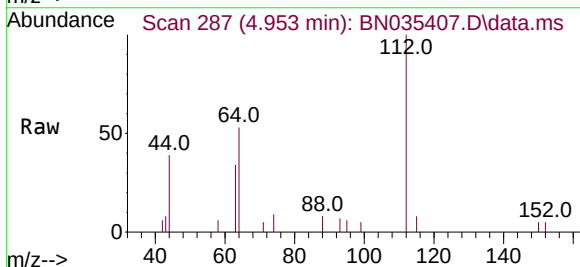
Instrument :
BNA_N
ClientSampleId :
PB165348BL



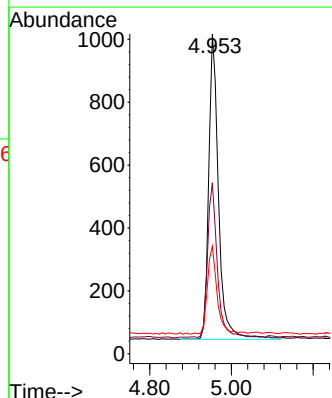
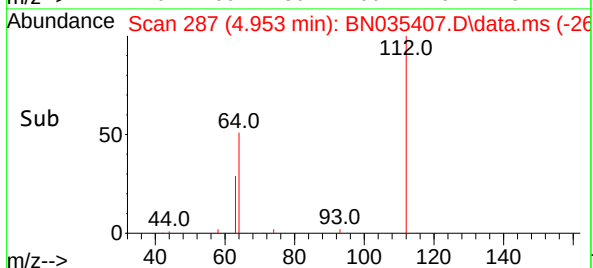
Tgt Ion:152 Resp: 1833
Ion Ratio Lower Upper
152 100
150 148.4 124.0 186.0
115 58.3 49.6 74.4

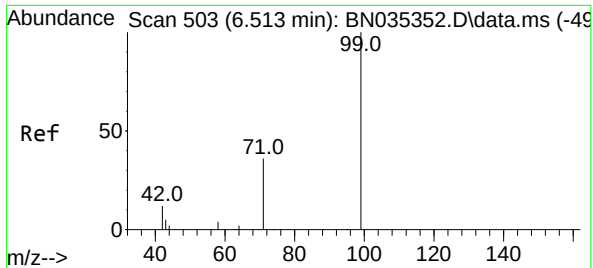


#4
2-Fluorophenol
Concen: 0.354 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37



Tgt Ion:112 Resp: 1626
Ion Ratio Lower Upper
112 100
64 50.6 39.8 59.8
63 28.5 21.0 31.6

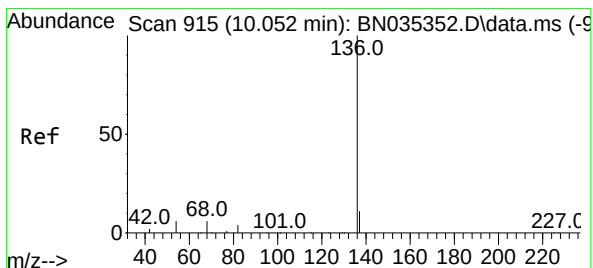
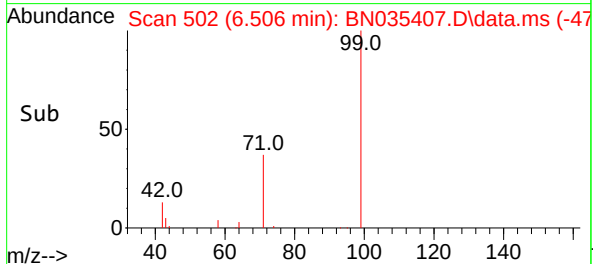
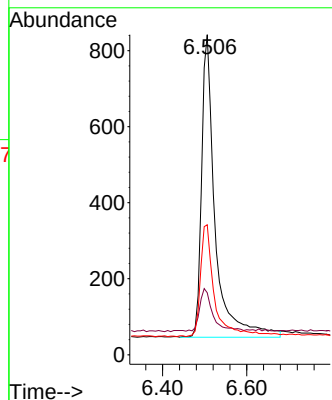
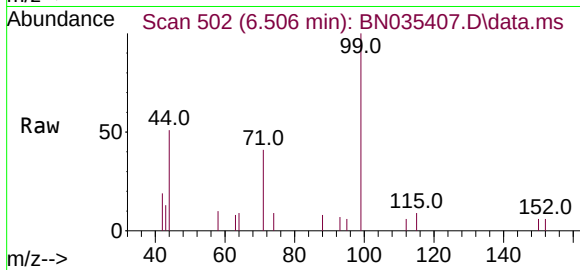




#5
Phenol-d6
Concen: 0.323 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

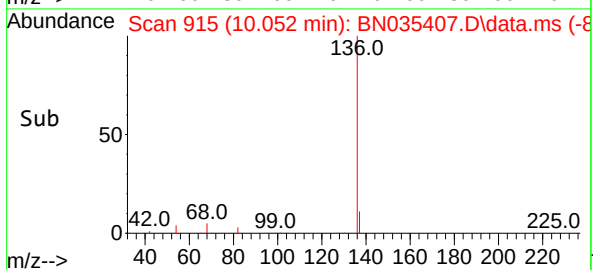
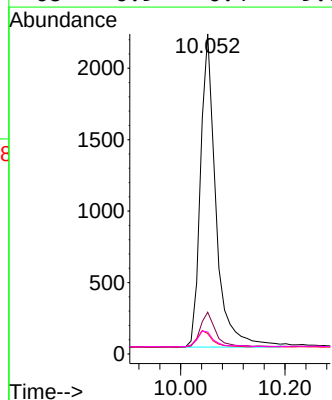
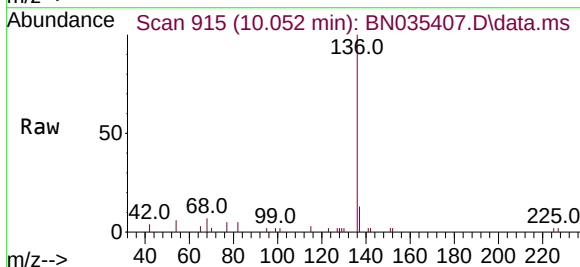
Instrument :
BNA_N
ClientSampleId :
PB165348BL

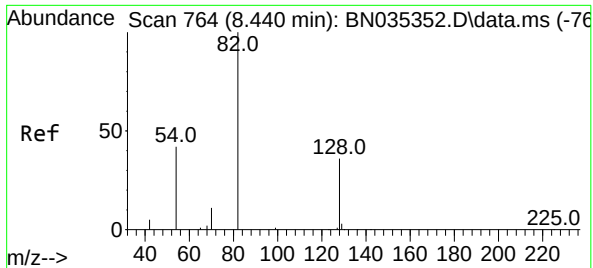
Tgt Ion	Ratio	Lower	Upper
99	100		
42	13.4	11.4	17.2
71	38.6	29.3	43.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

Tgt Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	6.4	6.1	9.1
68	6.9	6.4	9.6

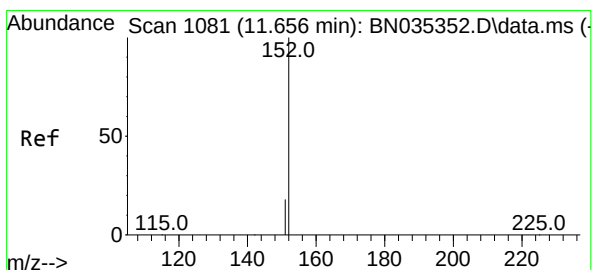
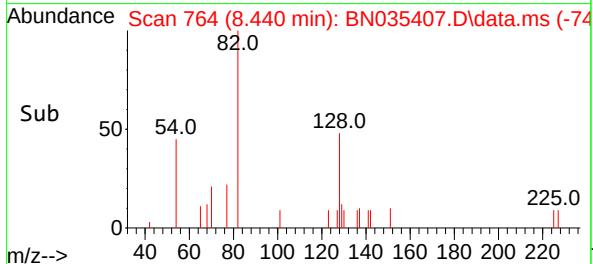
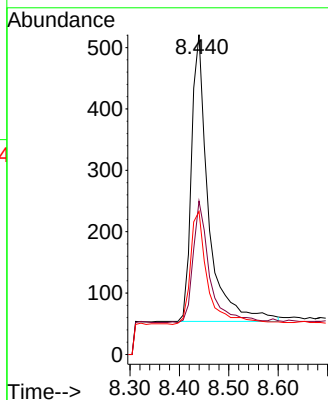
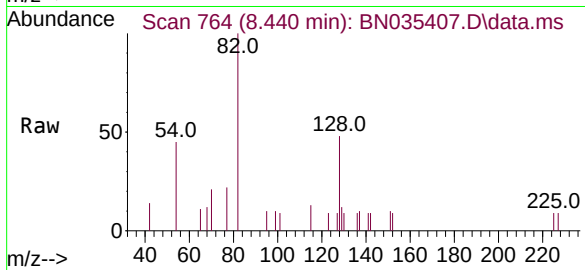




#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

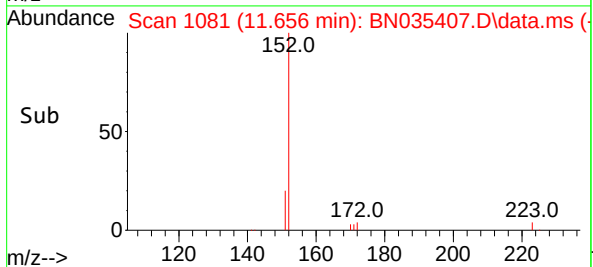
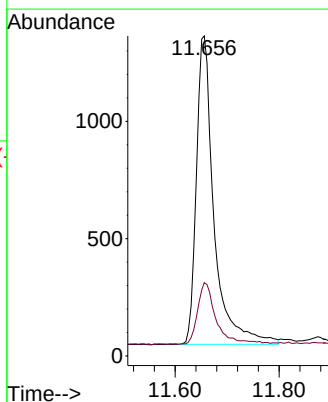
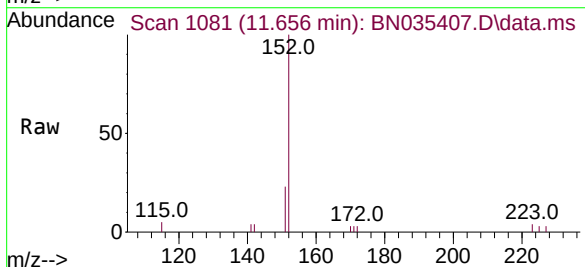
Instrument :
BNA_N
ClientSampleId :
PB165348BL

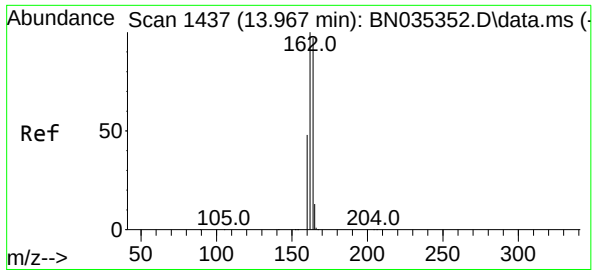
Tgt Ion: 82 Resp: 1109
Ion Ratio Lower Upper
82 100
128 48.0 33.4 50.0
54 44.7 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.436 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

Tgt Ion: 152 Resp: 3089
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0

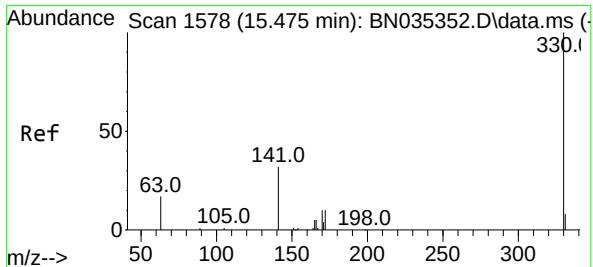
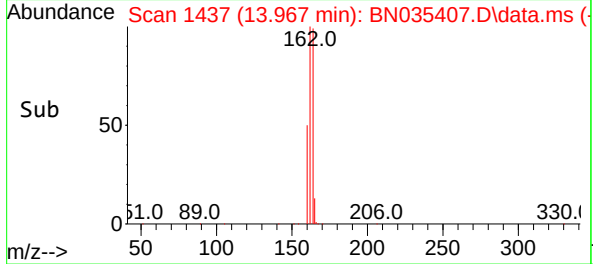
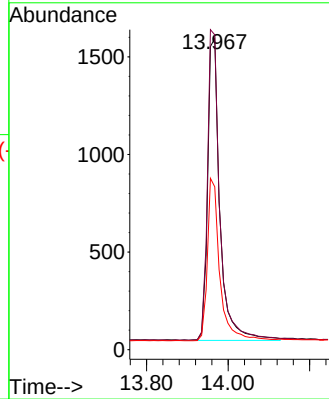
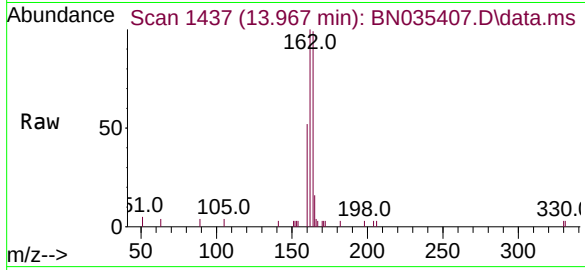




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

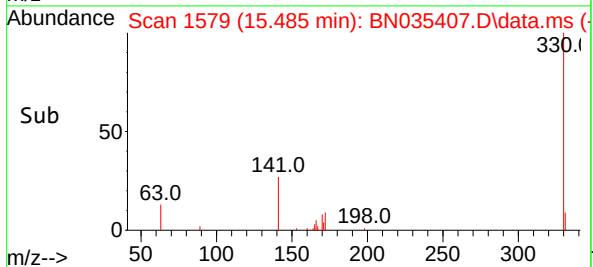
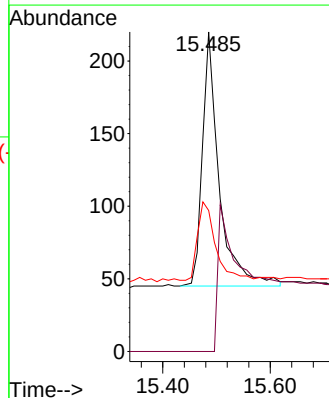
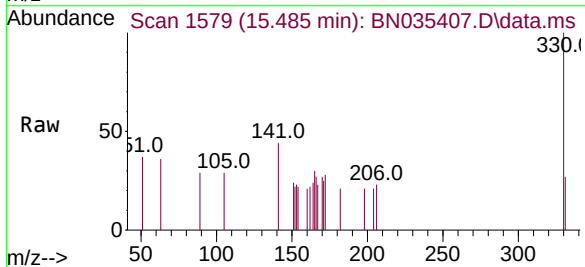
Instrument :
BNA_N
ClientSampleId :
PB165348BL

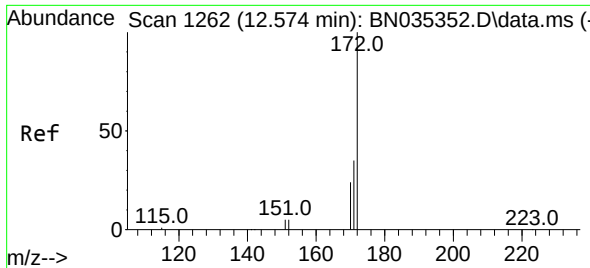
Tgt Ion:164 Resp: 3257
Ion Ratio Lower Upper
164 100
162 101.3 82.2 123.2
160 52.4 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.173 ng
RT: 15.485 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

Tgt Ion:330 Resp: 400
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 32.8 26.6 40.0

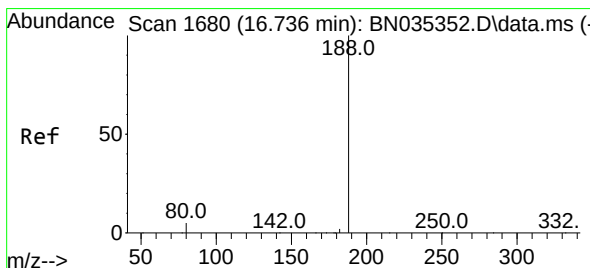
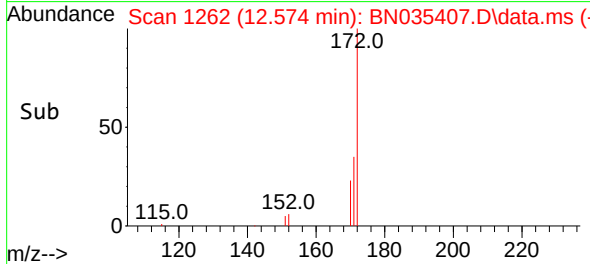
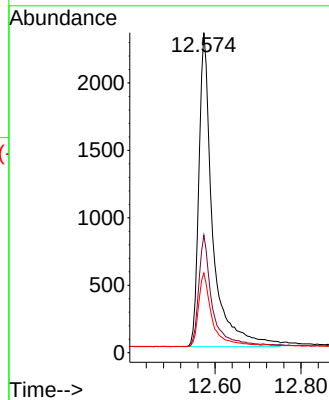
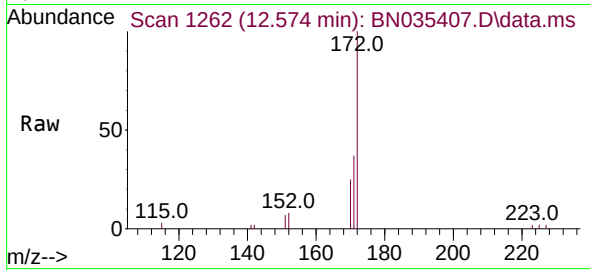




#15
2-Fluorobiphenyl
Concen: 0.423 ng
RT: 12.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

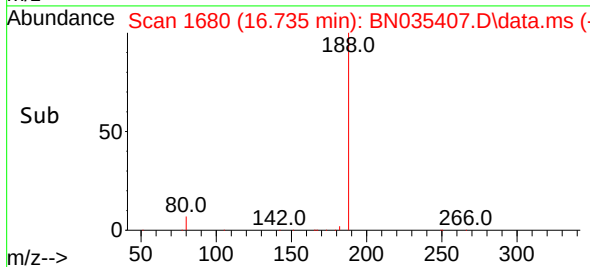
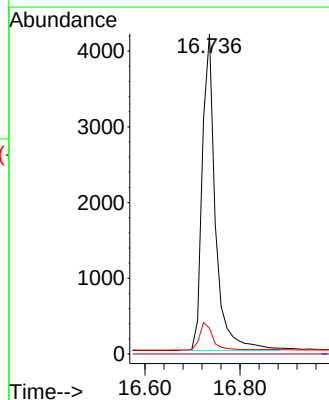
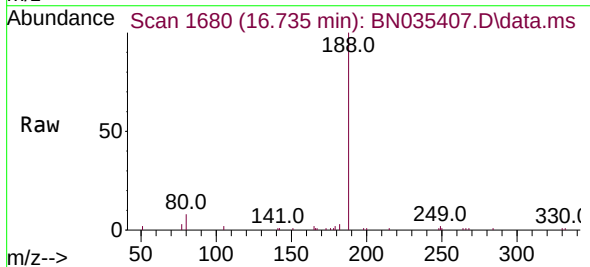
Instrument :
BNA_N
ClientSampleId :
PB165348BL

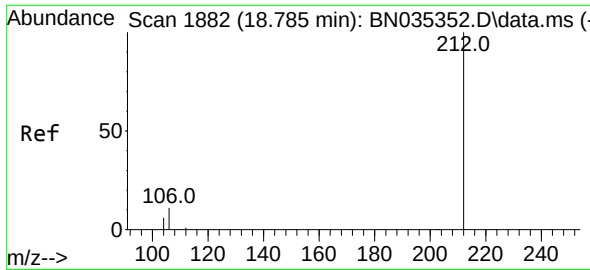
Tgt Ion:172	Resp:	5204
Ion	Ratio	Lower Upper
172	100	
171	36.7	29.0 43.4
170	24.9	19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

Tgt Ion:188	Resp:	8120
Ion	Ratio	Lower Upper
188	100	
94	0.0	0.0 0.0
80	8.0	4.6 6.8#





#27

Fluoranthene-d10

Concen: 0.418 ng

RT: 18.785 min Scan# 1882

Delta R.T. -0.000 min

Lab File: BN035407.D

Acq: 03 Dec 2024 17:37

Instrument :

BNA_N

ClientSampleId :

PB165348BL

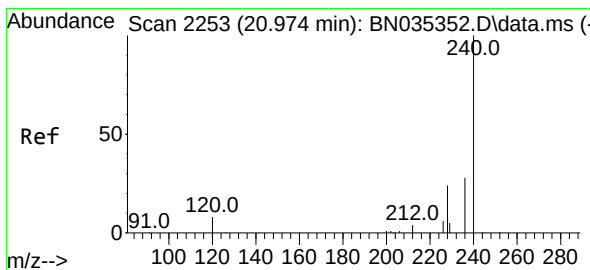
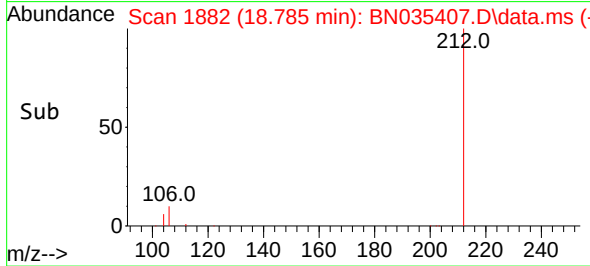
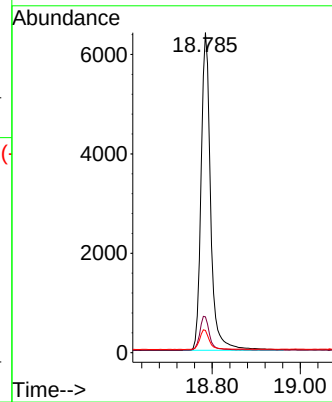
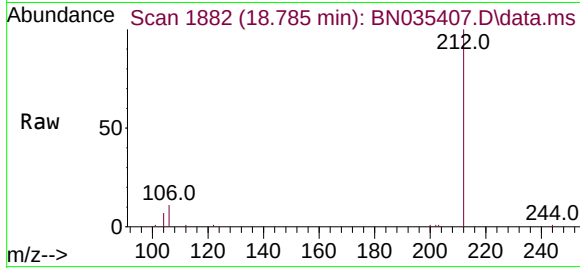
Tgt Ion:212 Resp: 9620

Ion Ratio Lower Upper

212 100

106 10.9 9.2 13.8

104 6.2 5.3 7.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.983 min Scan# 2254

Delta R.T. 0.009 min

Lab File: BN035407.D

Acq: 03 Dec 2024 17:37

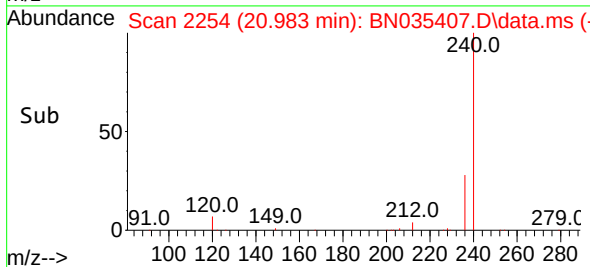
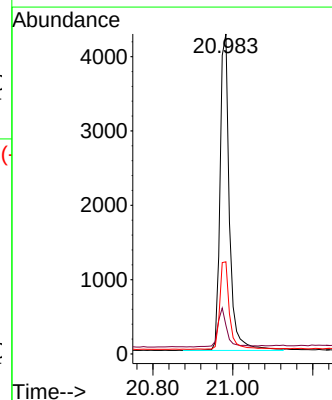
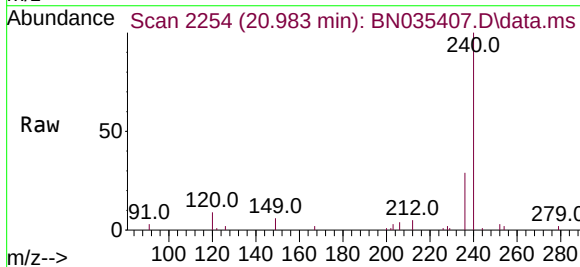
Tgt Ion:240 Resp: 6937

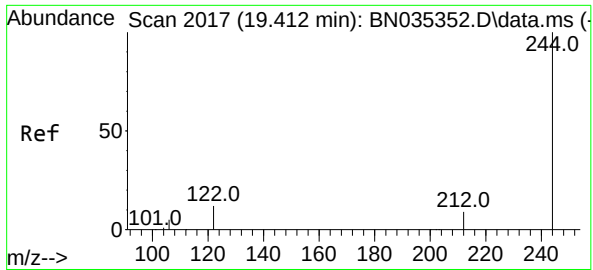
Ion Ratio Lower Upper

240 100

120 8.9 7.9 11.9

236 28.8 22.9 34.3

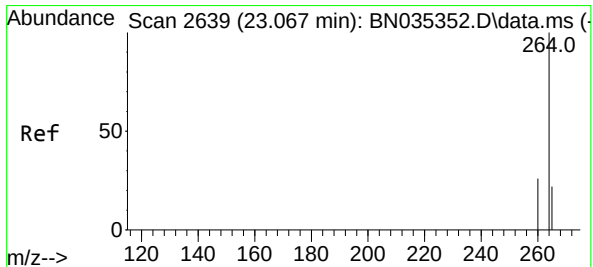
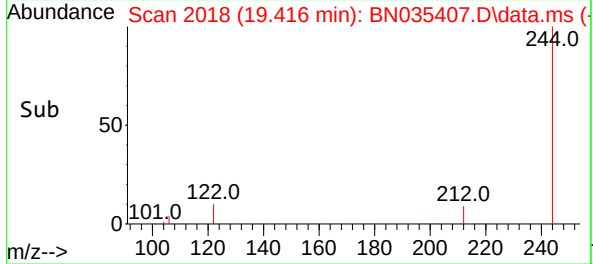
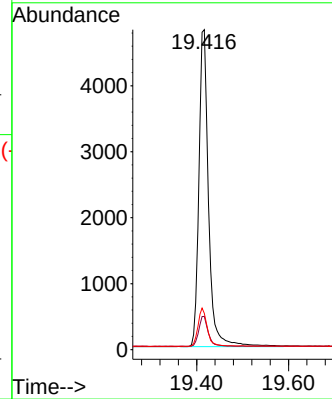
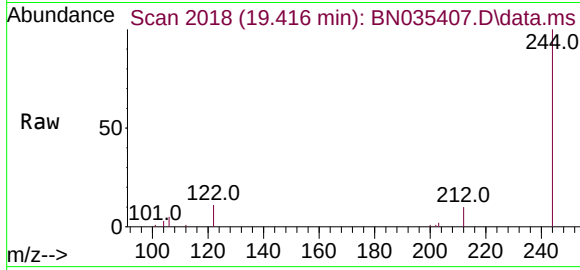




#31
Terphenyl-d14
Concen: 0.512 ng
RT: 19.416 min Scan# 2017
Delta R.T. 0.005 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

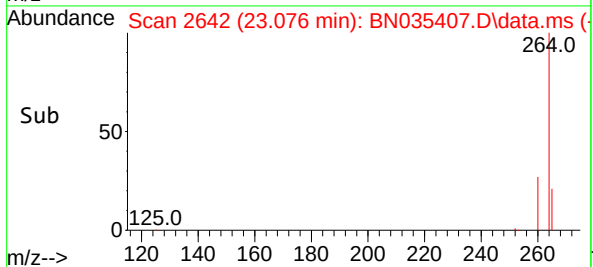
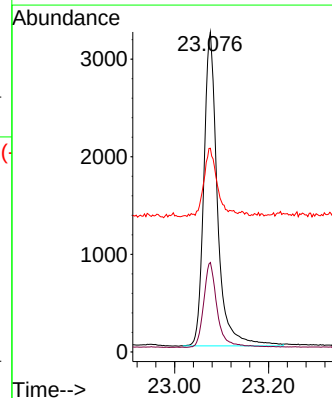
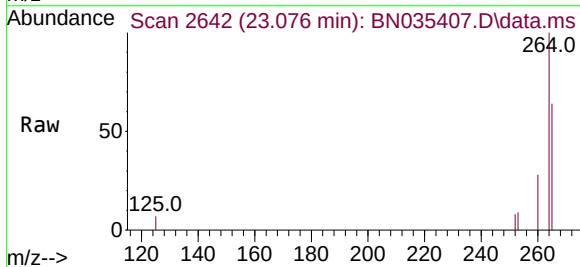
Instrument :
BNA_N
ClientSampleId :
PB165348BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	8.1	12.1
122	11.3	10.3	15.5



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.076 min Scan# 2642
Delta R.T. 0.009 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	63.6	40.2	60.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165348BS	SDG No.:	P5065
Lab Sample ID:	PB165348BS	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035408.D	1	12/03/24 12:30	12/03/24 18:13	PB165348

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.52		30 - 150		130%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		112%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2150	7.301				
1146-65-2	Naphthalene-d8	5110	10.052				
15067-26-2	Acenaphthene-d10	3360	13.957				
1517-22-2	Phenanthrene-d10	8330	16.723				
1719-03-5	Chrysene-d12	7510	20.974				
1520-96-3	Perylene-d12	6900	23.067				

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\BN120424\
 Data File : BN035408.D
 Acq On : 03 Dec 2024 18:13
 Operator : RC/JU
 Sample : PB165348BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165348BS

Quant Time: Dec 03 22:05:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

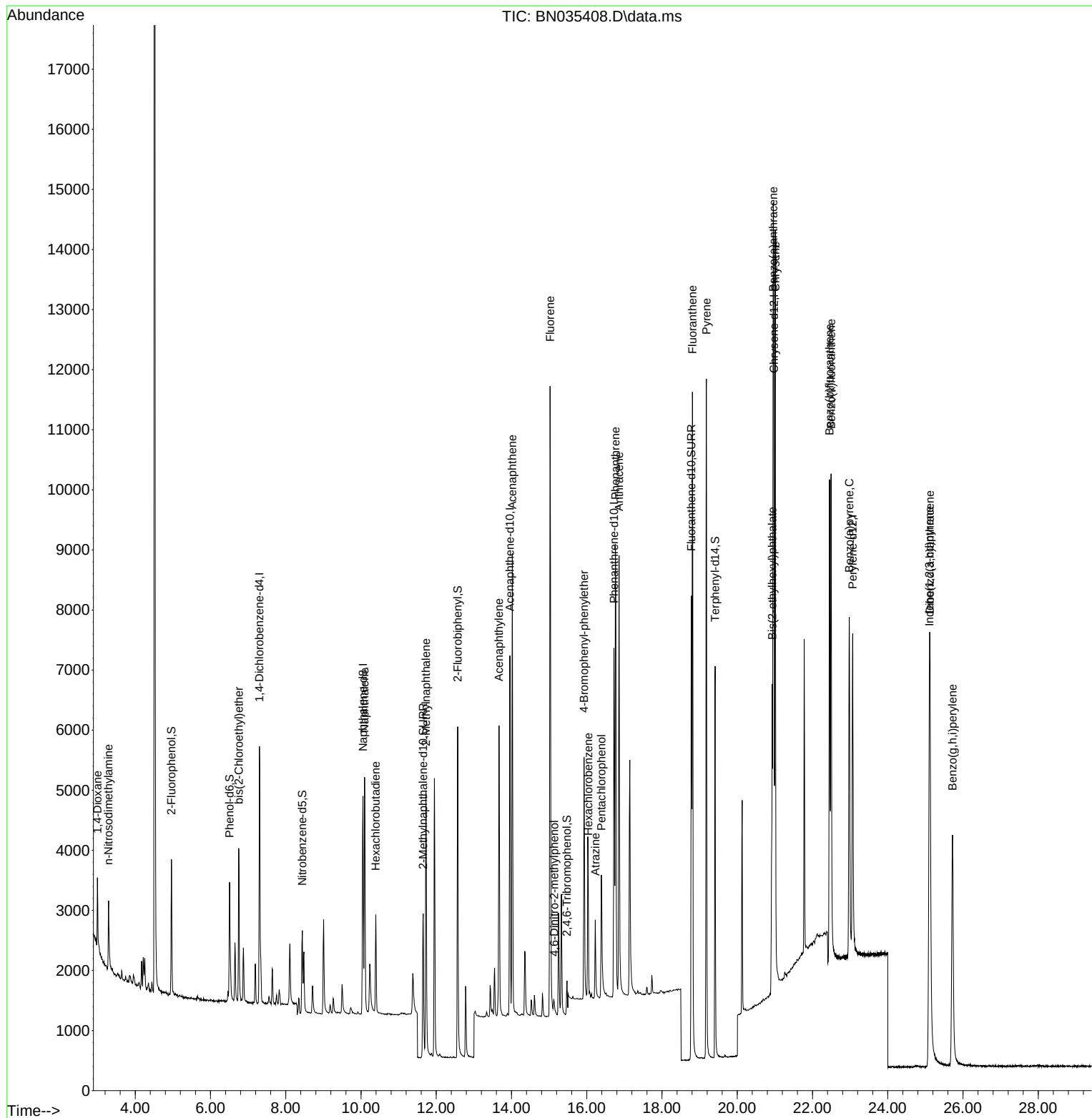
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	2152	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5114	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3359	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8334	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7507	0.400	ng	0.00
35) Perylene-d12	23.067	264	6897	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	1873	0.348	ng	0.00
5) Phenol-d6	6.506	99	2132	0.329	ng	0.00
8) Nitrobenzene-d5	8.440	82	1399	0.448	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	4155	0.519	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	550	0.231	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5473	0.431	ng	0.00
27) Fluoranthene-d10	18.780	212	9414	0.398	ng	0.00
31) Terphenyl-d14	19.412	244	6867	0.464	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.996	88	754	0.367	ng	# 72
3) n-Nitrosodimethylamine	3.285	42	671	0.392	ng	# 98
6) bis(2-Chloroethyl)ether	6.752	93	2015	0.370	ng	99
9) Naphthalene	10.095	128	5182	0.384	ng	99
10) Hexachlorobutadiene	10.394	225	1293	0.416	ng	# 99
12) 2-Methylnaphthalene	11.727	142	3585	0.371	ng	98
16) Acenaphthylene	13.668	152	5729	0.406	ng	99
17) Acenaphthene	14.021	154	3643	0.389	ng	99
18) Fluorene	15.026	166	5048	0.377	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	266	0.325	ng	85
21) 4-Bromophenyl-phenylether	15.929	248	1855	0.381	ng	# 77
22) Hexachlorobenzene	16.041	284	2219	0.388	ng	98
23) Atrazine	16.227	200	1192	0.344	ng	98
24) Pentachlorophenol	16.388	266	1328	0.533	ng	# 86
25) Phenanthrene	16.760	178	8896	0.389	ng	100
26) Anthracene	16.860	178	8036	0.388	ng	99
28) Fluoranthene	18.813	202	10698	0.347	ng	99
30) Pyrene	19.180	202	10998	0.397	ng	99
32) Benzo(a)anthracene	20.956	228	9786	0.373	ng	100
33) Chrysene	21.010	228	10984	0.406	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	3698	0.357	ng	99
36) Indeno(1,2,3-cd)pyrene	25.105	276	10275	0.381	ng	98
37) Benzo(b)fluoranthene	22.453	252	9922	0.393	ng	98
38) Benzo(k)fluoranthene	22.494	252	10718	0.432	ng	99
39) Benzo(a)pyrene	22.977	252	8783	0.423	ng	98
40) Dibenzo(a,h)anthracene	25.123	278	7917	0.372	ng	98
41) Benzo(g,h,i)perylene	25.719	276	8299	0.373	ng	98

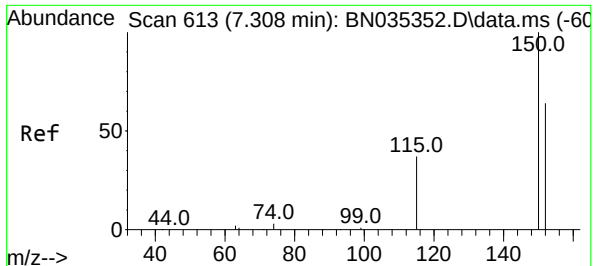
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035408.D
Acq On : 03 Dec 2024 18:13
Operator : RC/JU
Sample : PB165348BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165348BS

Quant Time: Dec 03 22:05:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

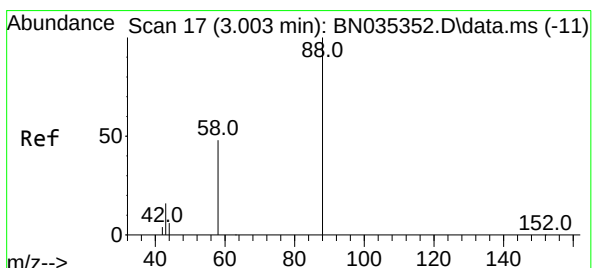
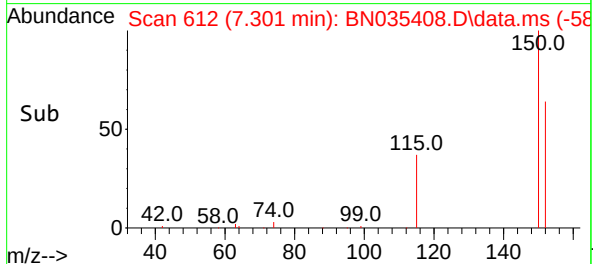
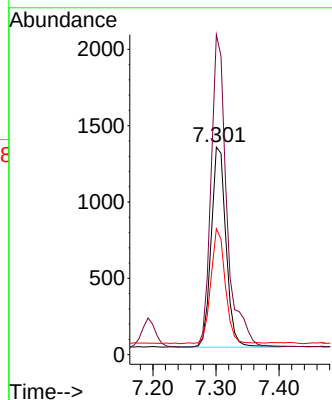
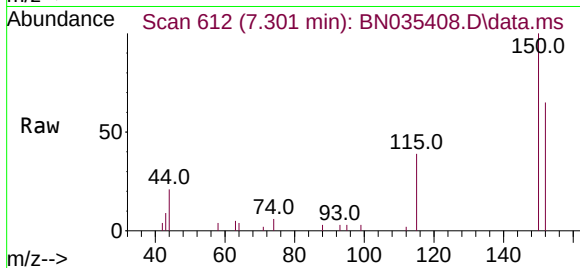




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

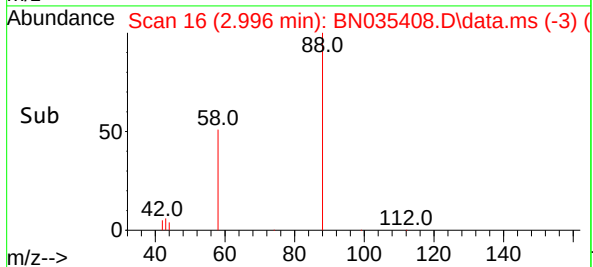
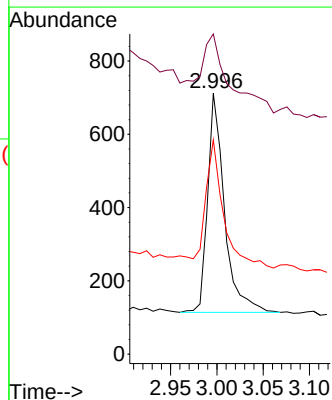
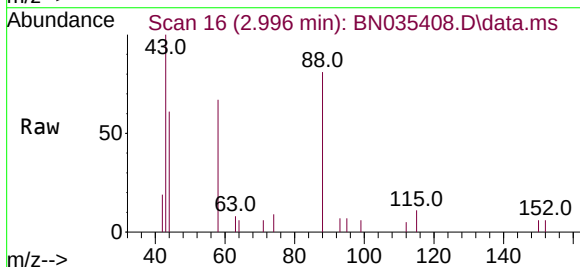
Instrument :
BNA_N
ClientSampleId :
PB165348BS

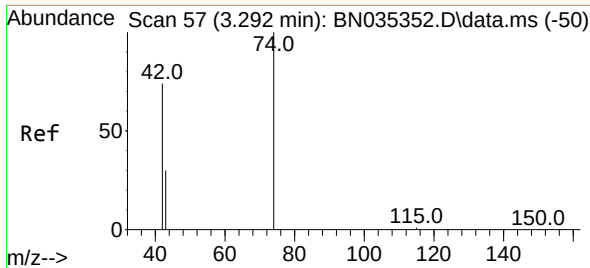
Tgt Ion:152 Resp: 2152
Ion Ratio Lower Upper
152 100
150 154.1 124.0 186.0
115 60.7 49.6 74.4



#2
1,4-Dioxane
Concen: 0.367 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion: 88 Resp: 754
Ion Ratio Lower Upper
88 100
43 58.1 17.2 25.8#
58 61.8 44.5 66.7

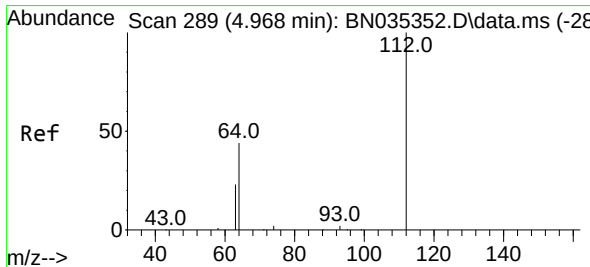
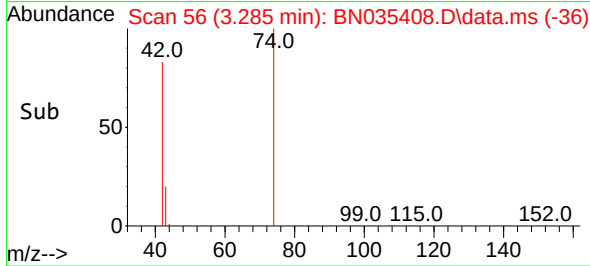
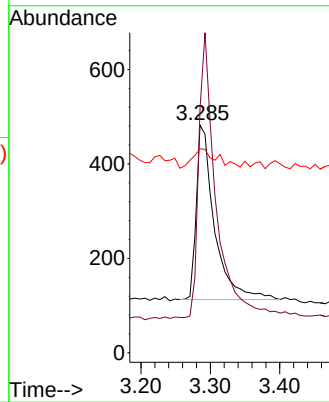
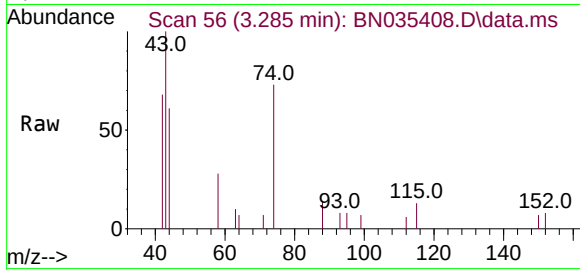




#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

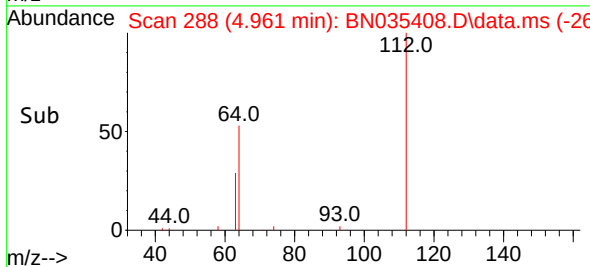
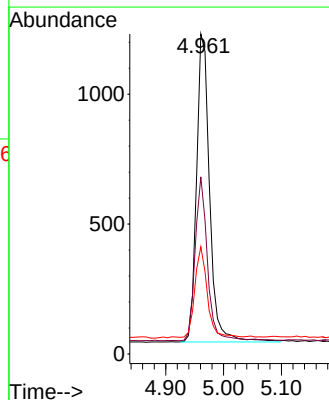
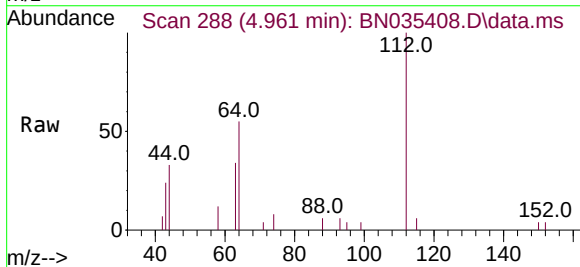
Instrument :
BNA_N
ClientSampleId :
PB165348BS

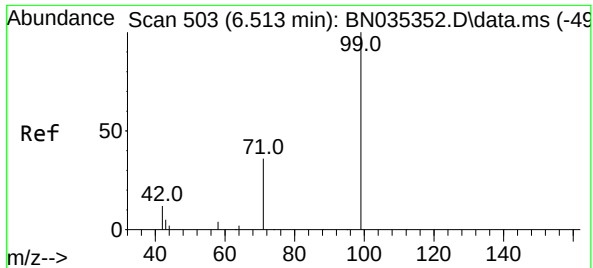
Tgt Ion: 42 Resp: 671
Ion Ratio Lower Upper
42 100
74 158.4 124.9 187.3
44 14.8 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.348 ng
RT: 4.961 min Scan# 288
Delta R.T. -0.007 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion: 112 Resp: 1873
Ion Ratio Lower Upper
112 100
64 49.5 39.8 59.8
63 29.0 21.0 31.6

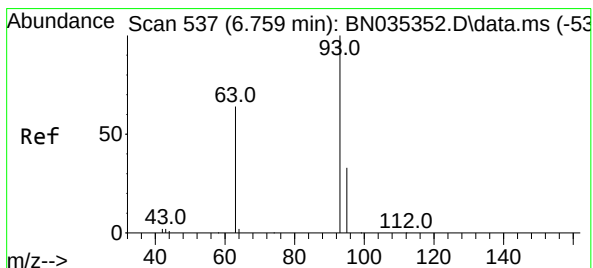
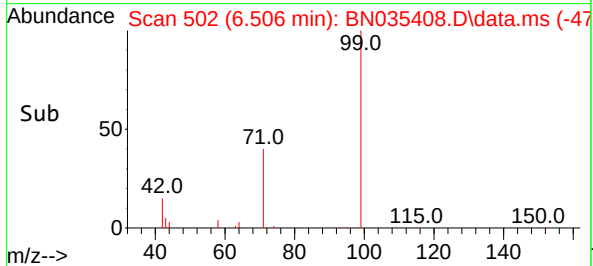
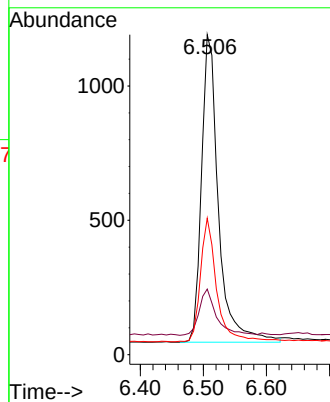
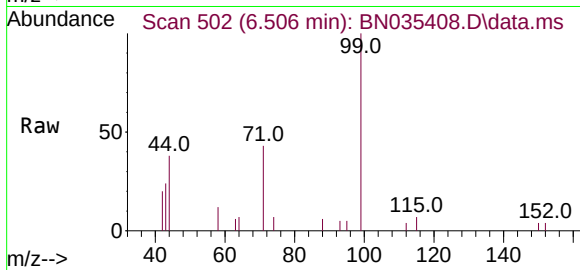




#5
Phenol-d6
Concen: 0.329 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

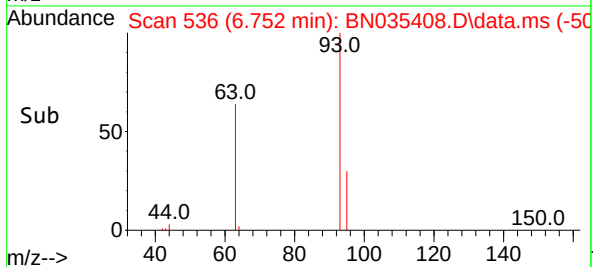
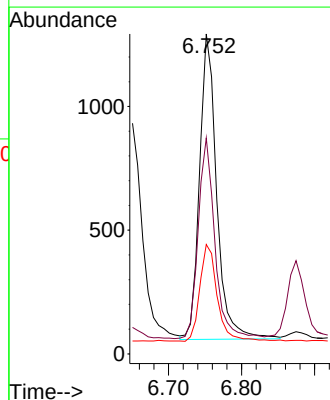
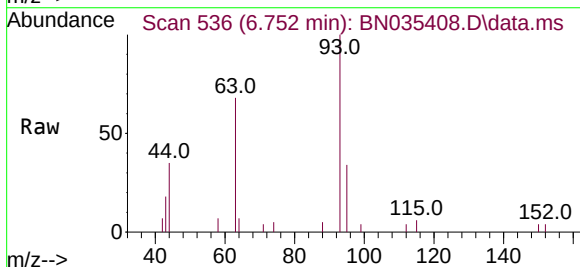
Instrument :
BNA_N
ClientSampleId :
PB165348BS

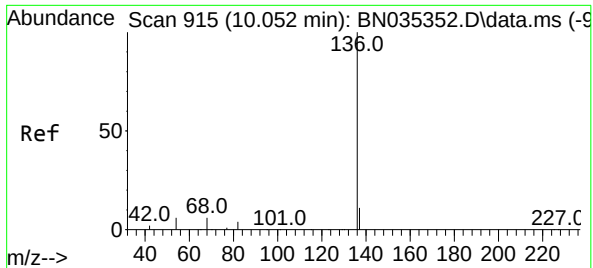
Tgt Ion:	99	Resp:	2132
Ion	Ratio	Lower	Upper
99	100		
42	15.3	11.4	17.2
71	38.9	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:	93	Resp:	2015
Ion	Ratio	Lower	Upper
93	100		
63	63.8	50.4	75.6
95	32.0	25.7	38.5

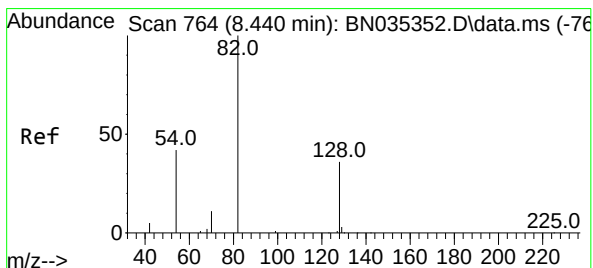
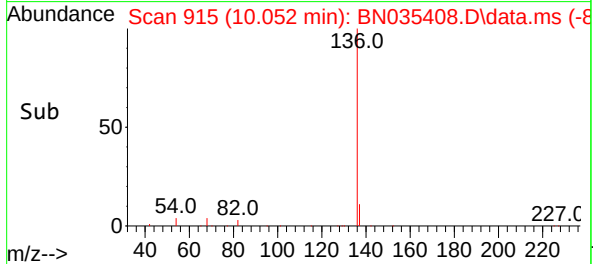
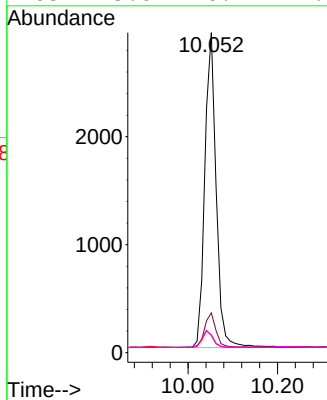
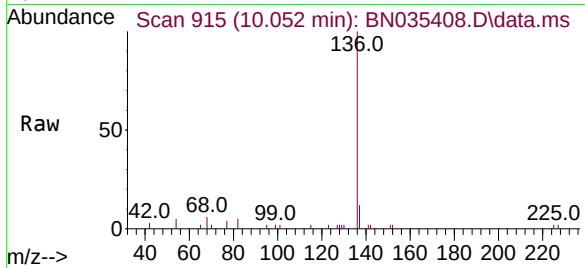




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

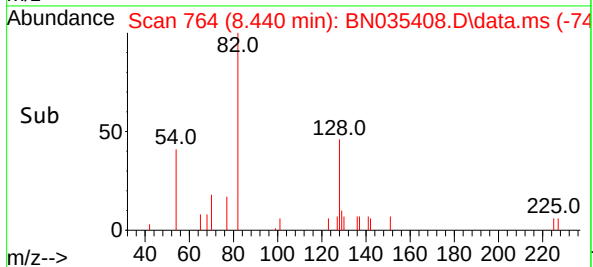
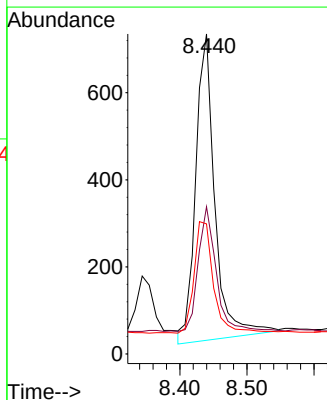
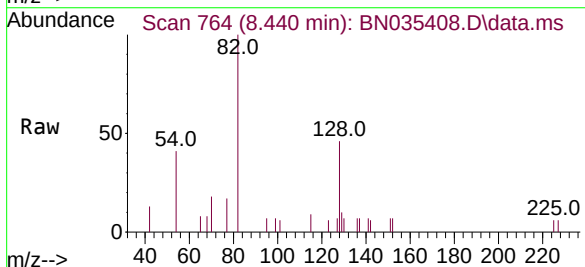
Instrument :
BNA_N
ClientSampleId :
PB165348BS

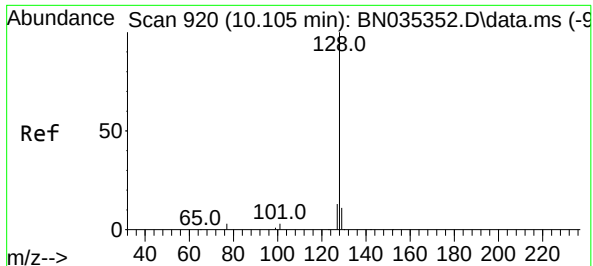
Tgt Ion:	136	Resp:	5114
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	5.3	6.1	9.1#
68	5.6	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.448 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:	82	Resp:	1399
Ion	Ratio	Lower	Upper
82	100		
128	46.0	33.4	50.0
54	40.7	36.7	55.1

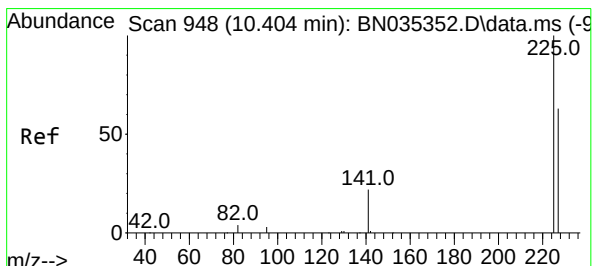
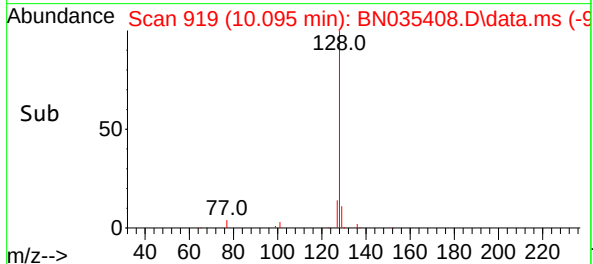
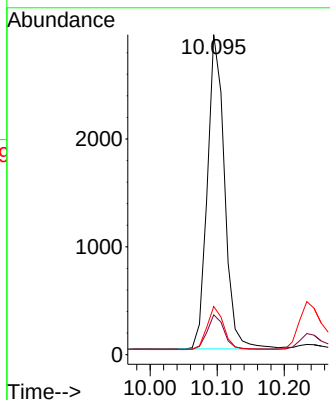
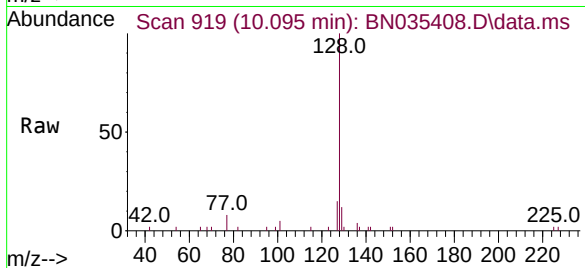




#9
Naphthalene
Concen: 0.384 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

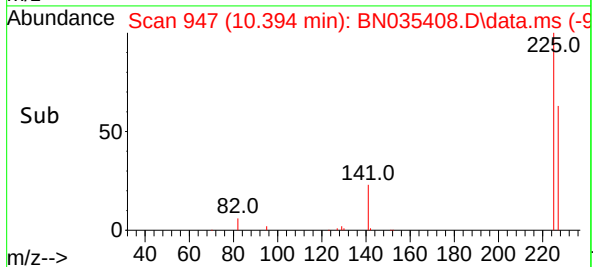
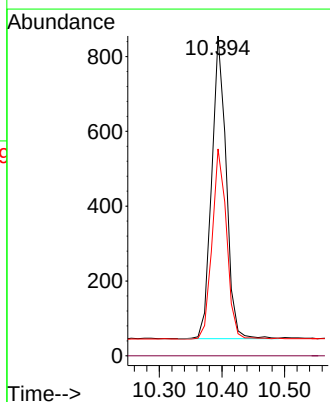
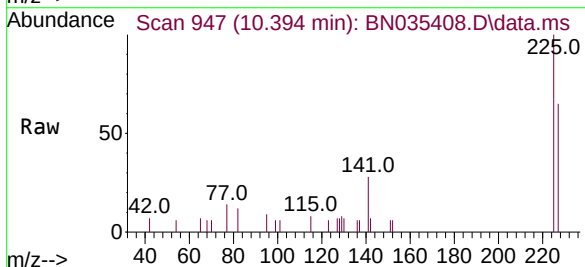
Instrument :
BNA_N
ClientSampleId :
PB165348BS

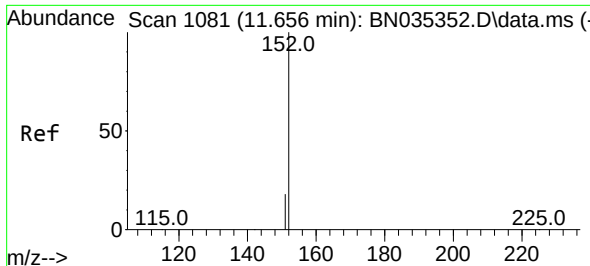
Tgt Ion:128 Resp: 5182
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 15.0 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:225 Resp: 1293
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 51.3 76.9

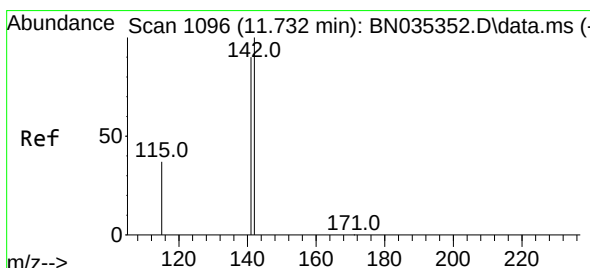
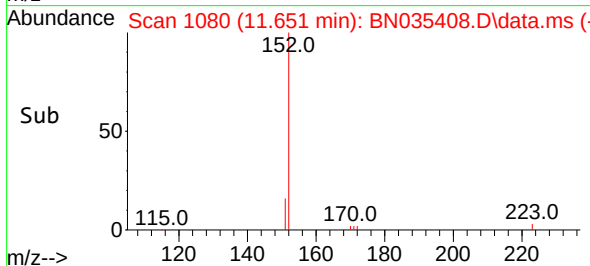
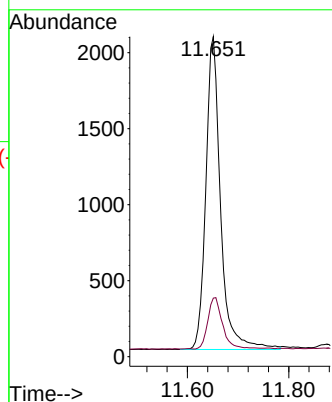
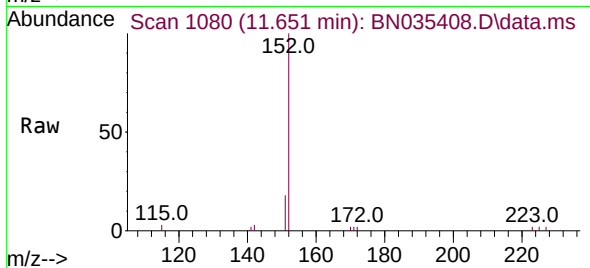




#11
2-Methylnaphthalene-d10
Concen: 0.519 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

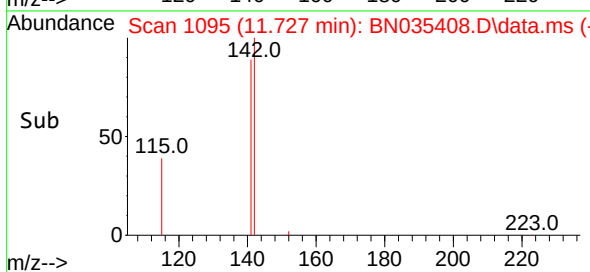
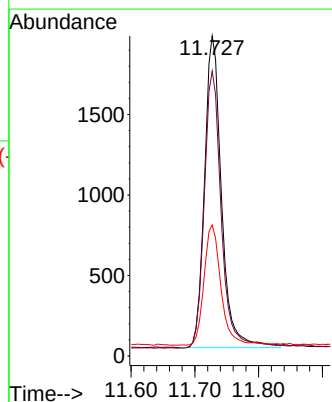
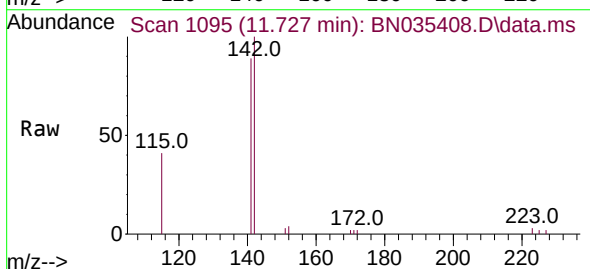
Instrument :
BNA_N
ClientSampleId :
PB165348BS

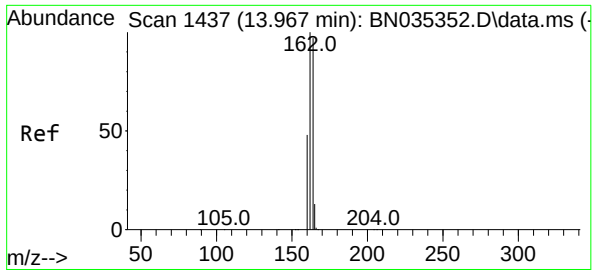
Tgt Ion:152 Resp: 4155
Ion Ratio Lower Upper
152 100
151 16.5 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.727 min Scan# 1095
Delta R.T. -0.005 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:142 Resp: 3585
Ion Ratio Lower Upper
142 100
141 89.0 72.2 108.4
115 40.9 31.4 47.0

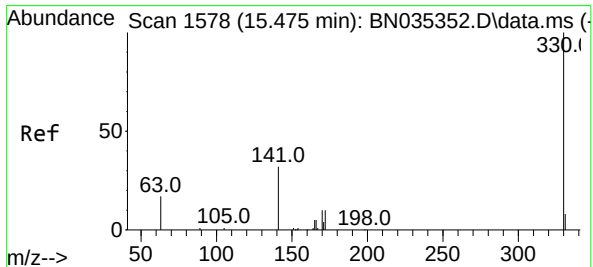
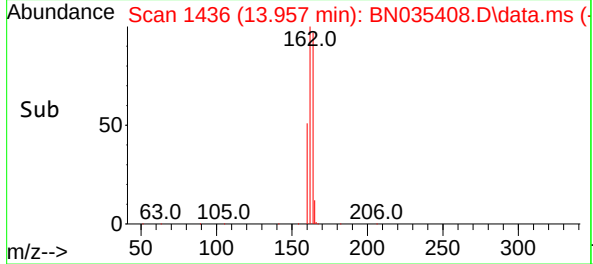
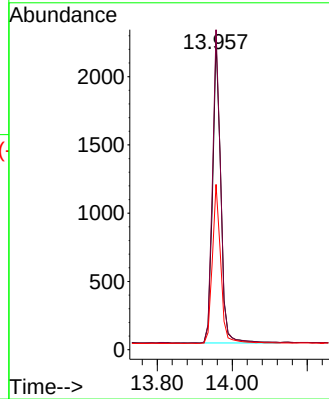
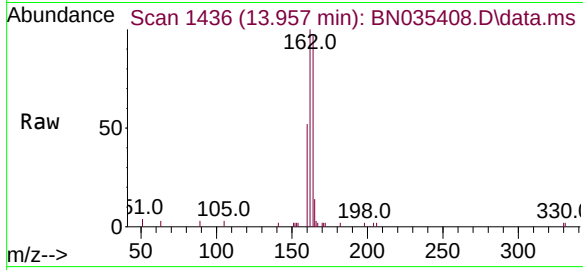




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

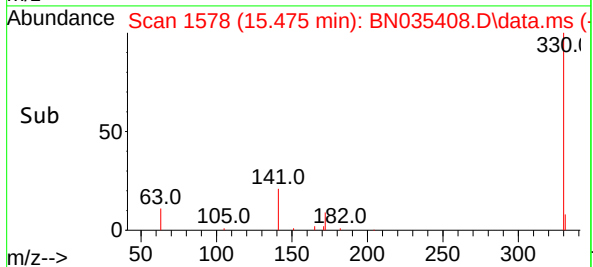
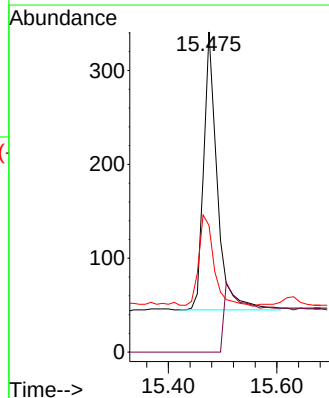
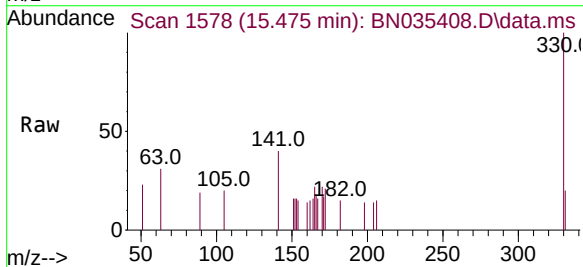
Instrument :
BNA_N
ClientSampleId :
PB165348BS

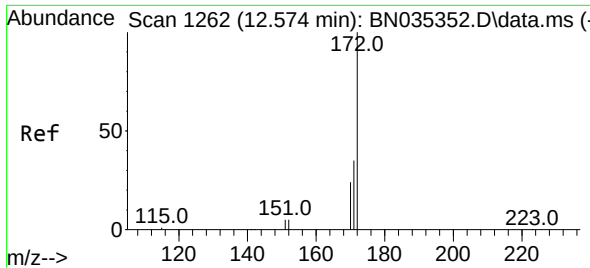
Tgt Ion:164 Resp: 3359
Ion Ratio Lower Upper
164 100
162 103.4 82.2 123.2
160 53.4 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.231 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:330 Resp: 550
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 36.0 26.6 40.0

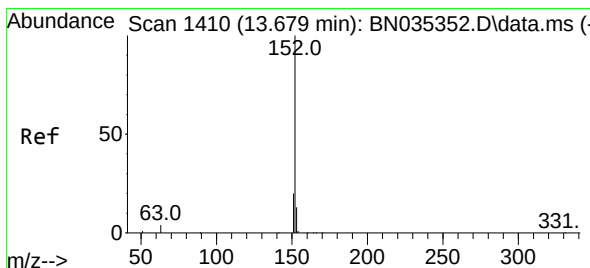
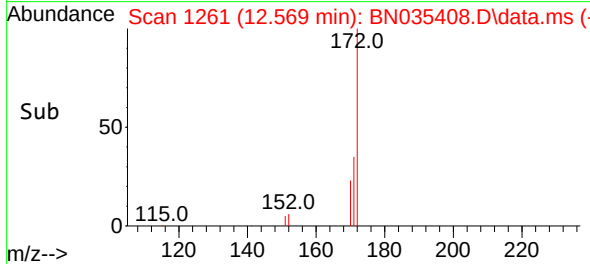
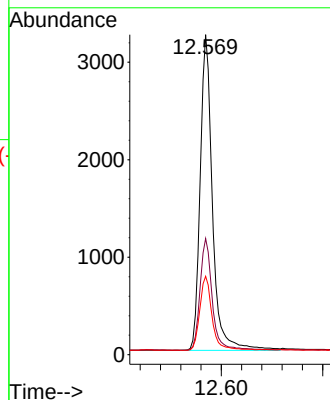
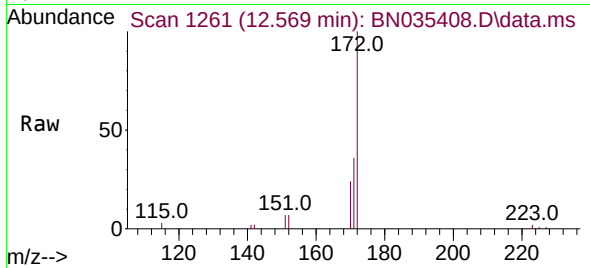




#15
2-Fluorobiphenyl
Concen: 0.431 ng
RT: 12.569 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

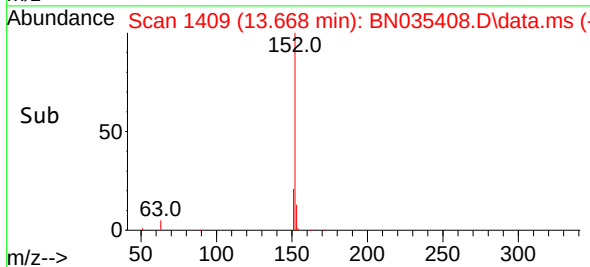
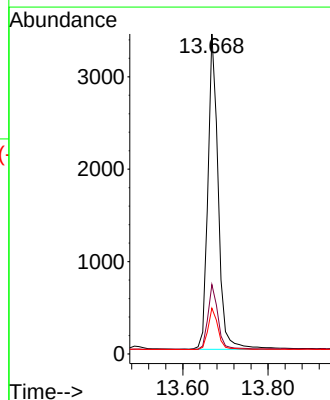
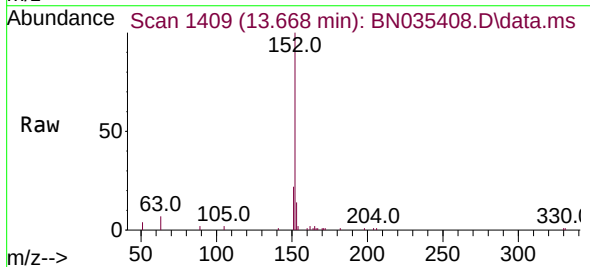
Instrument :
BNA_N
ClientSampleId :
PB165348BS

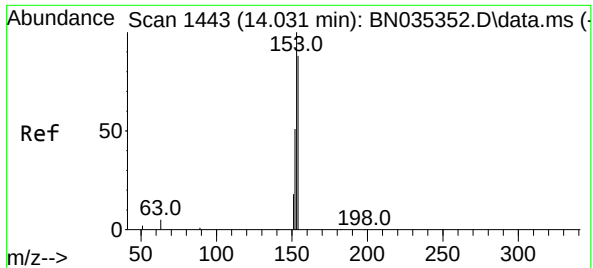
Tgt Ion:	172	Resp:	5473
Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.406 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:	152	Resp:	5729
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	12.8	10.4	15.6

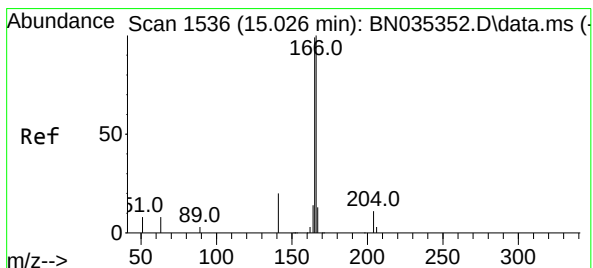
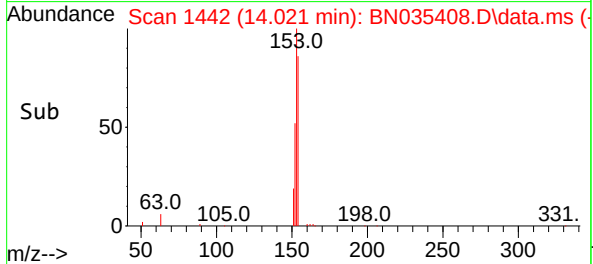
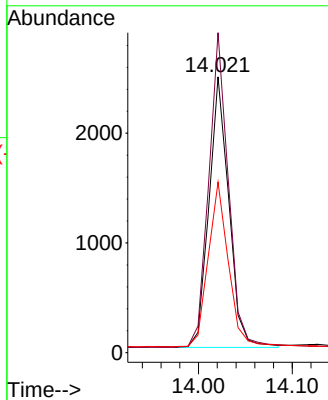
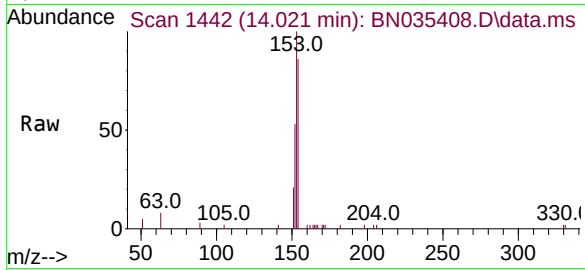




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

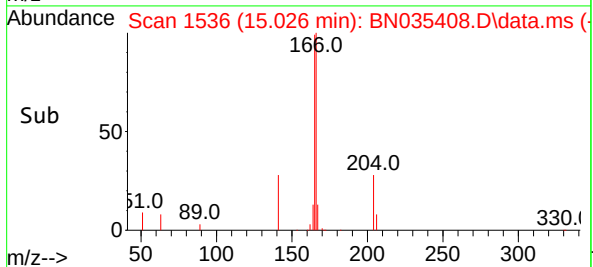
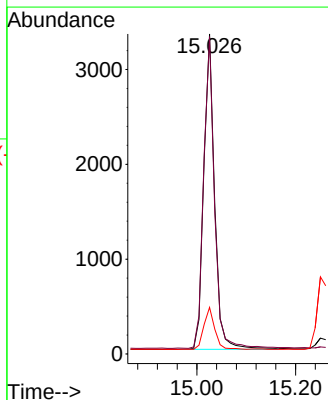
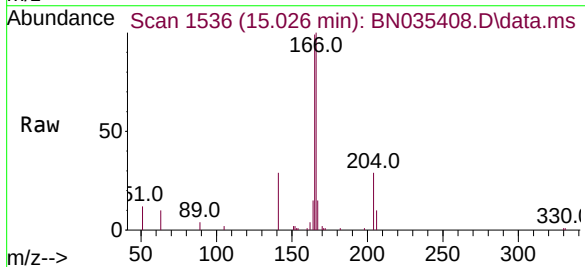
Instrument :
BNA_N
ClientSampleId :
PB165348BS

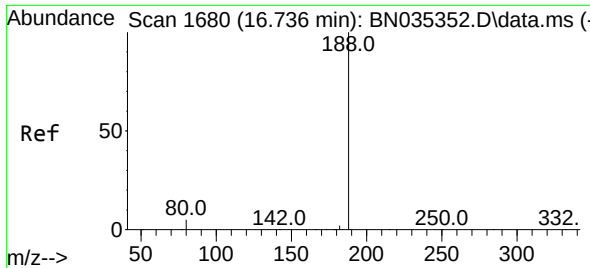
Tgt Ion:154 Resp: 3643
Ion Ratio Lower Upper
154 100
153 116.8 92.6 139.0
152 62.3 49.0 73.6



#18
Fluorene
Concen: 0.377 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:166 Resp: 5048
Ion Ratio Lower Upper
166 100
165 99.2 79.7 119.5
167 13.3 10.8 16.2

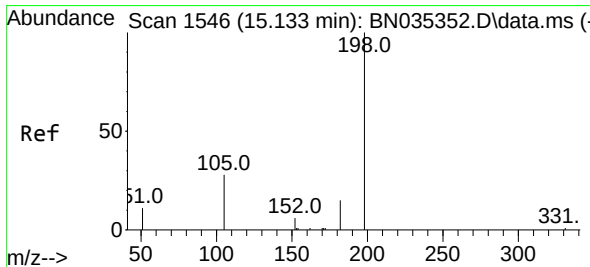
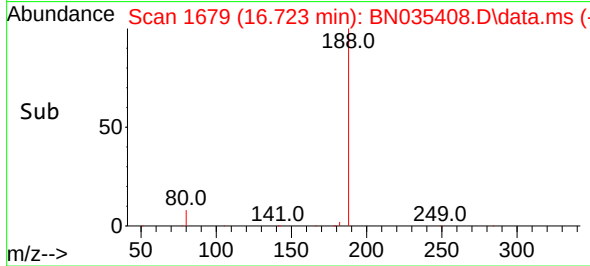
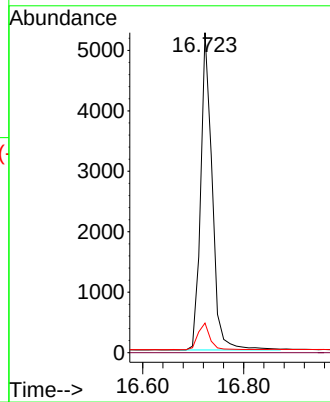
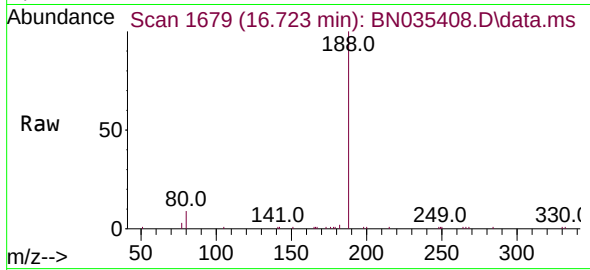




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

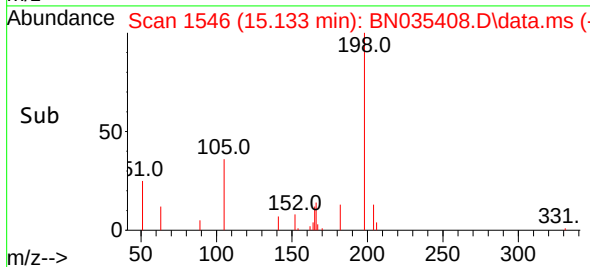
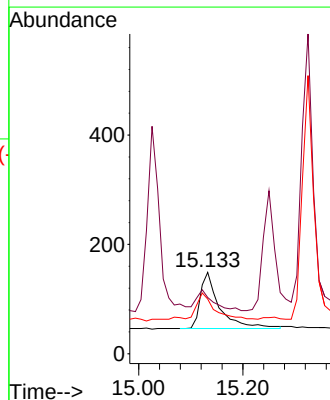
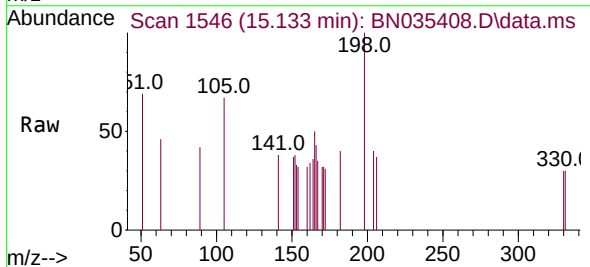
Instrument :
BNA_N
ClientSampleId :
PB165348BS

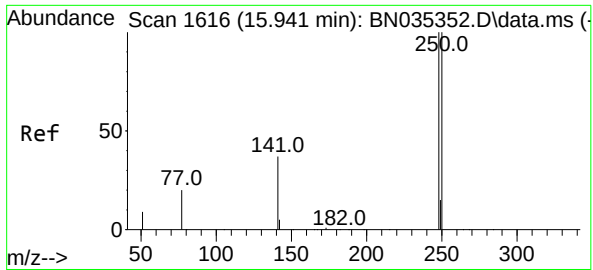
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	4.6	6.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.325 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion	Ratio	Lower	Upper
198	100		
51	69.1	46.5	69.7
105	67.1	45.3	67.9

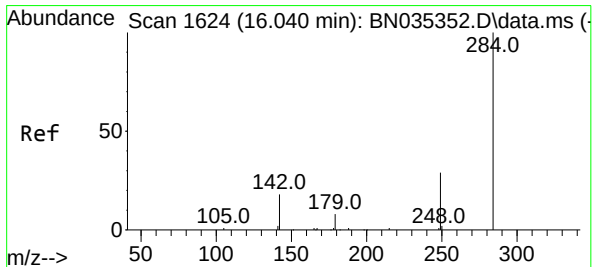
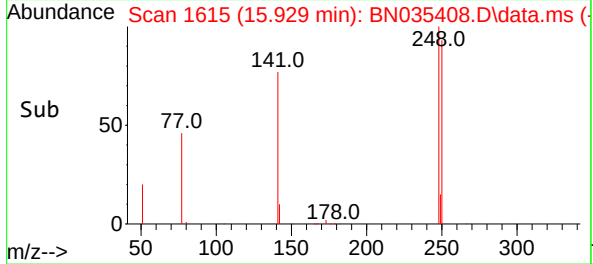
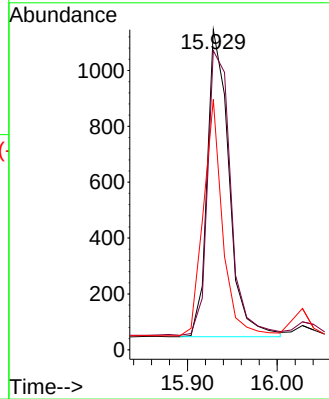
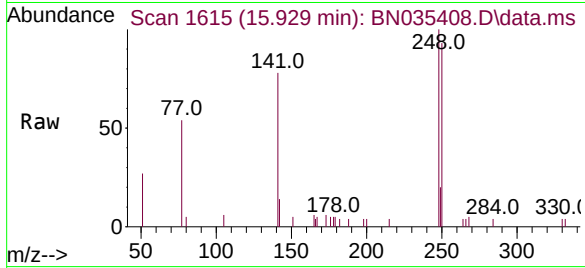




#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

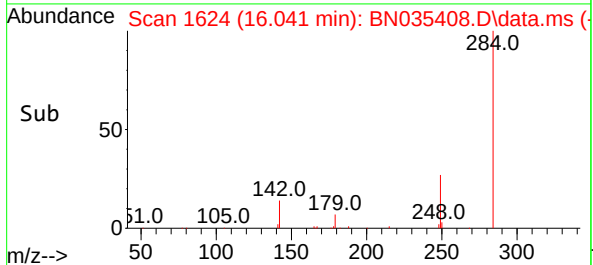
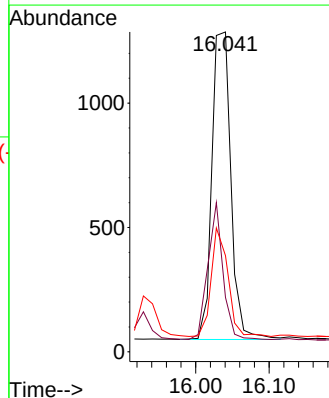
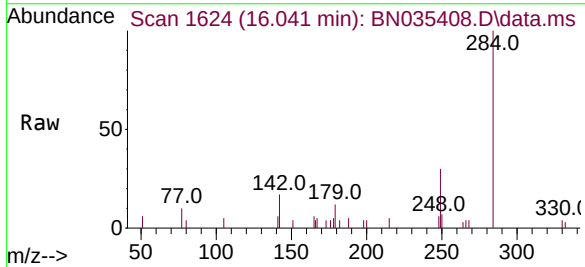
Instrument :
BNA_N
ClientSampleId :
PB165348BS

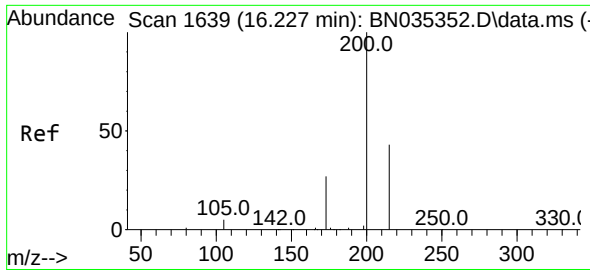
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.5	80.6	120.8
141	78.2	31.5	47.3



#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.5	26.7	40.1
249	31.3	24.6	36.8

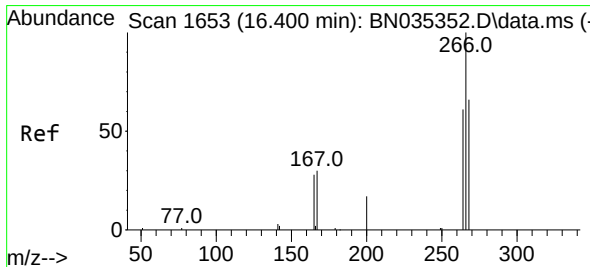
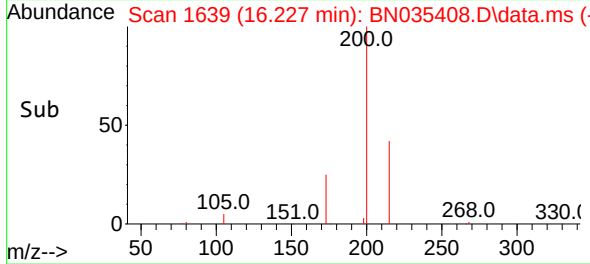
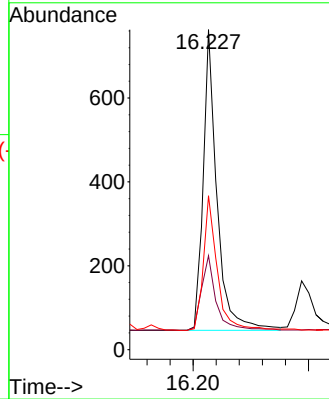
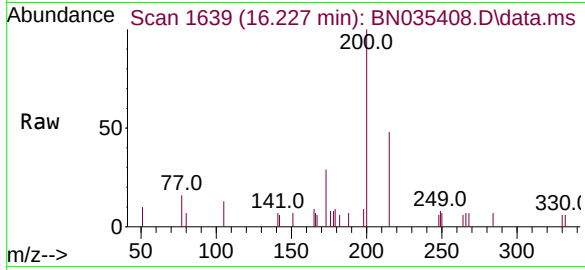




#23
Atrazine
Concen: 0.344 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

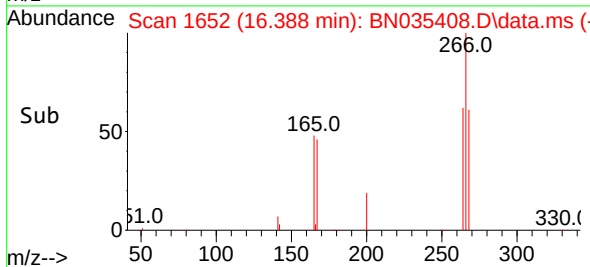
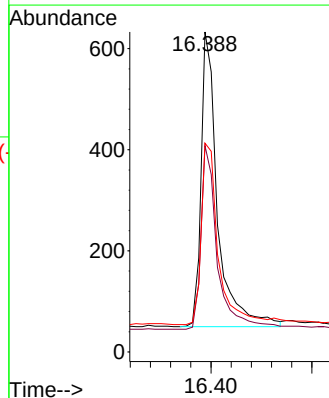
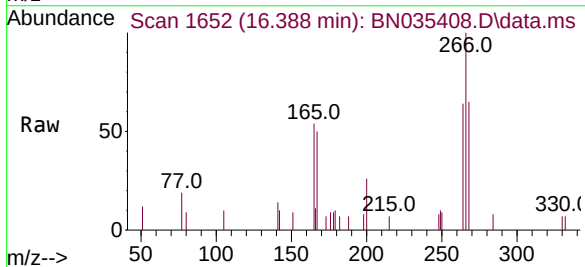
Instrument :
BNA_N
ClientSampleId :
PB165348BS

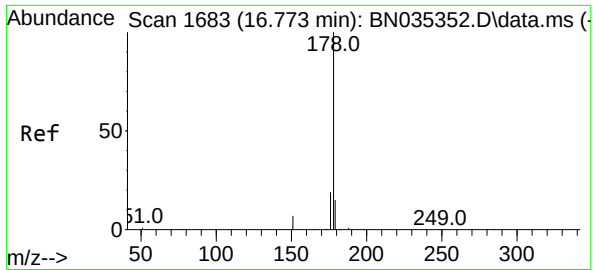
Tgt Ion	Ratio	Lower	Upper
200	100		
173	29.4	24.1	36.1
215	48.1	36.9	55.3



#24
Pentachlorophenol
Concen: 0.533 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.8	42.3	63.5
268	65.1	43.3	64.9

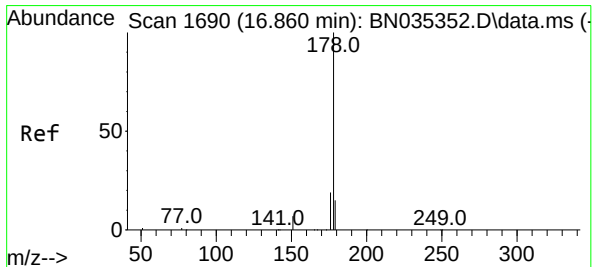
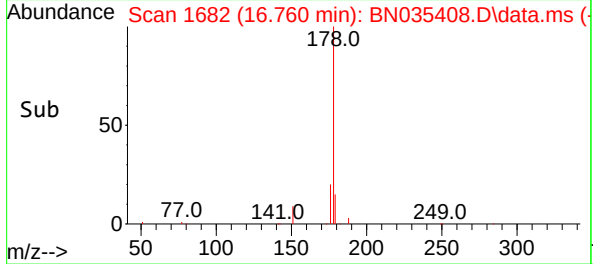
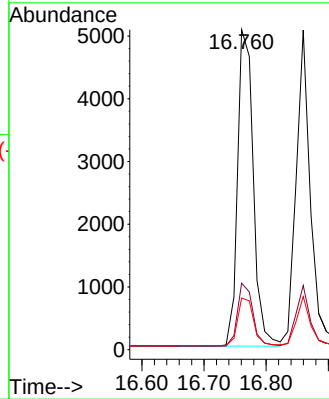
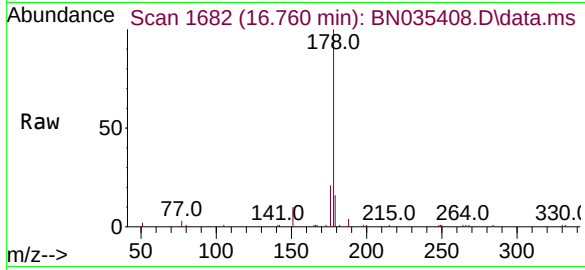




#25
Phenanthrene
Concen: 0.389 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

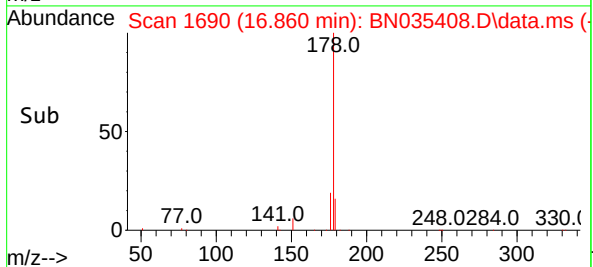
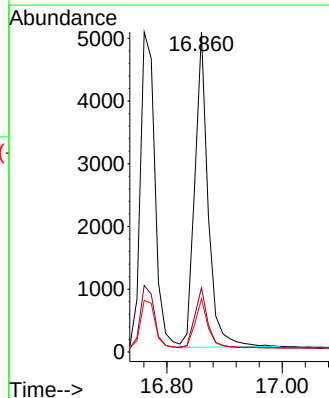
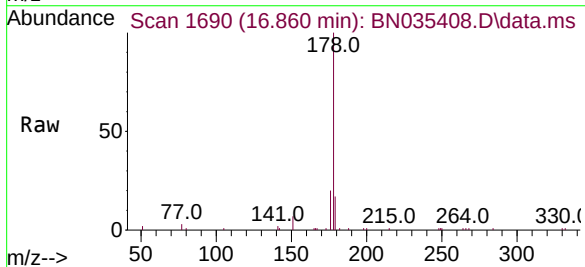
Instrument :
BNA_N
ClientSampleId :
PB165348BS

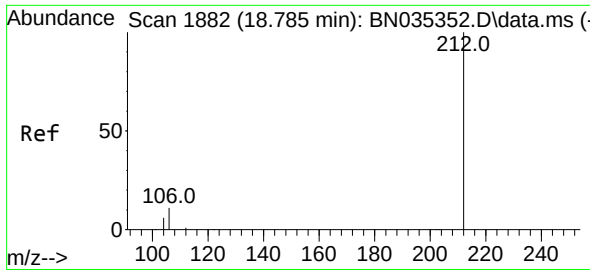
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.3	12.3	18.5



#26
Anthracene
Concen: 0.388 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.6
179	15.3	12.6	18.8





#27

Fluoranthene-d10

Concen: 0.398 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.005 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

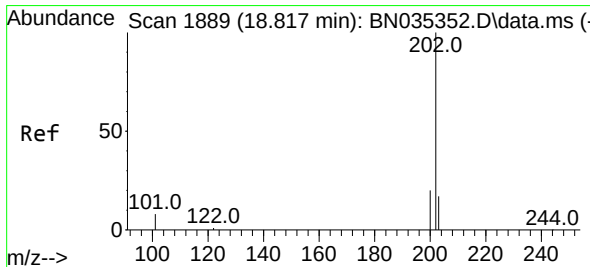
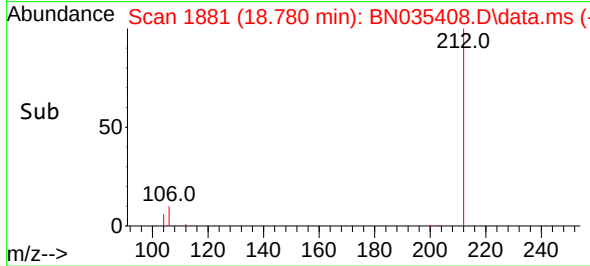
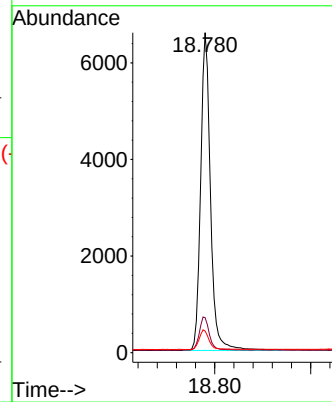
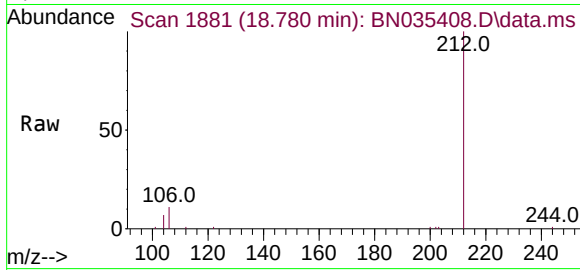
Instrument :

BNA_N

ClientSampleId :

PB165348BS

Tgt Ion:212	Resp:	9414
Ion Ratio	Lower	Upper
212	100	
106	10.6	9.2 13.8
104	6.2	5.3 7.9



#28

Fluoranthene

Concen: 0.347 ng

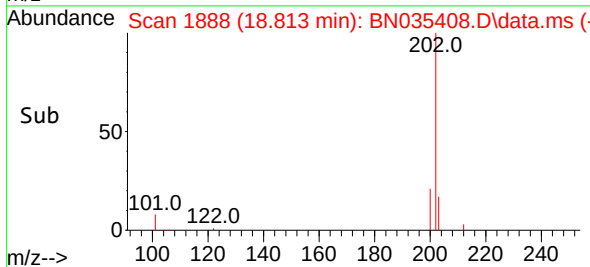
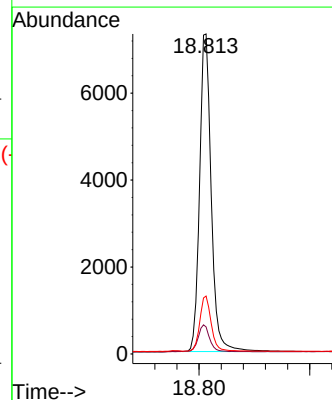
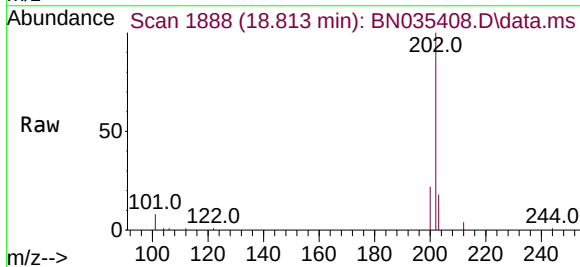
RT: 18.813 min Scan# 1888

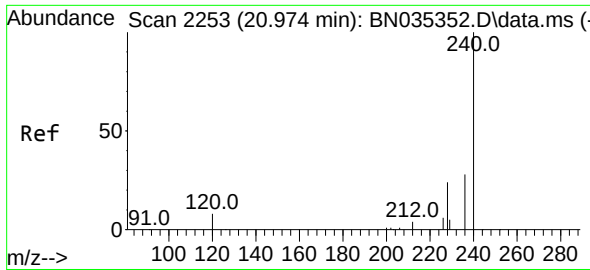
Delta R.T. -0.005 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Tgt Ion:202	Resp:	10698
Ion Ratio	Lower	Upper
202	100	
101	8.5	7.4 11.0
203	16.9	13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA_N

ClientSampleId :

PB165348BS

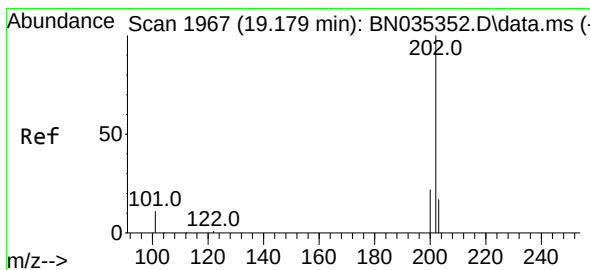
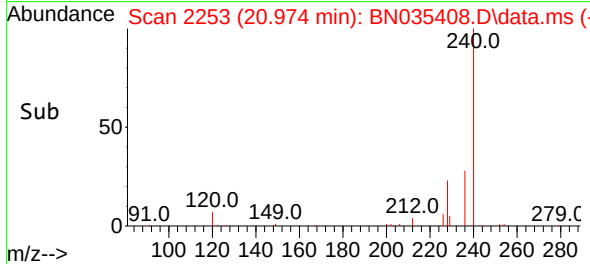
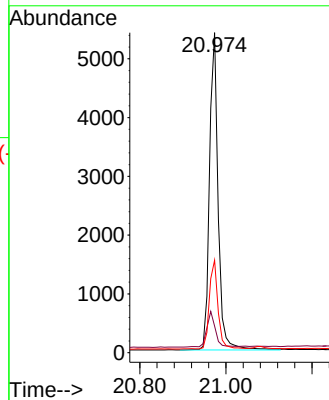
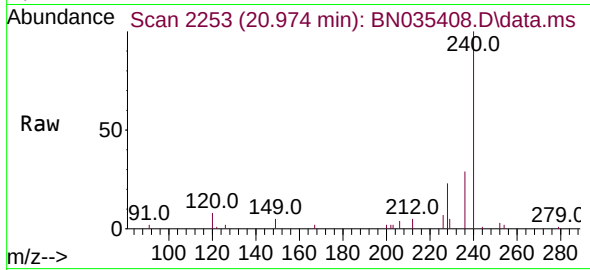
Tgt Ion:240 Resp: 7507

Ion Ratio Lower Upper

240 100

120 8.3 7.9 11.9

236 28.9 22.9 34.3



#30

Pyrene

Concen: 0.397 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

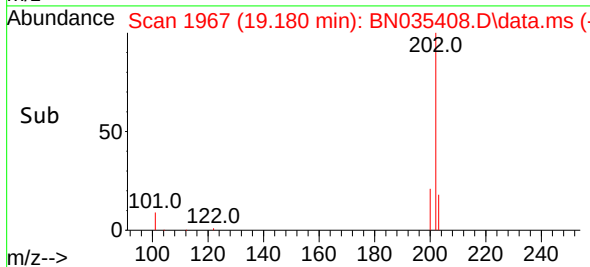
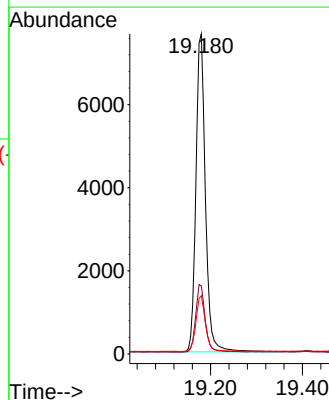
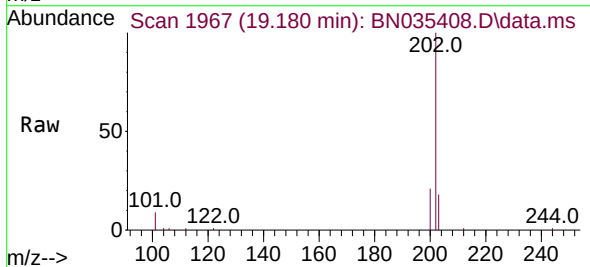
Tgt Ion:202 Resp: 10998

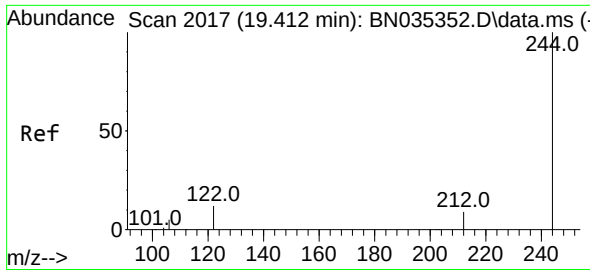
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.5 14.3 21.5

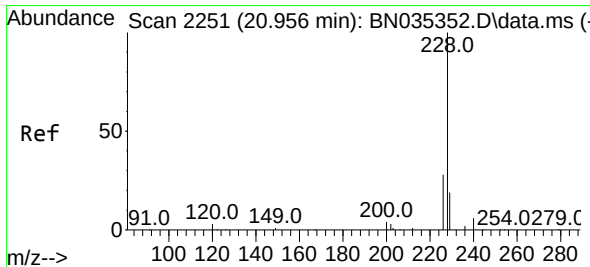
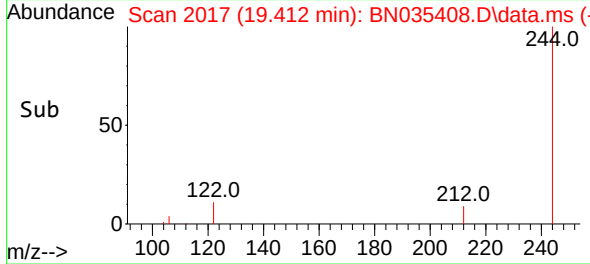
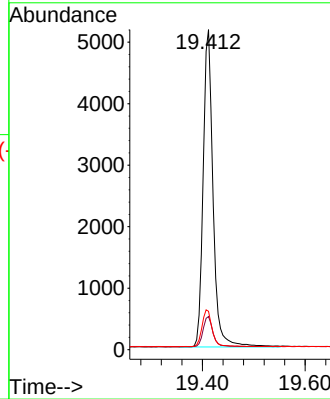
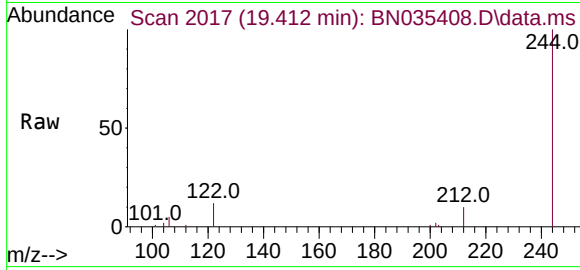




#31
Terphenyl-d14
Concen: 0.464 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

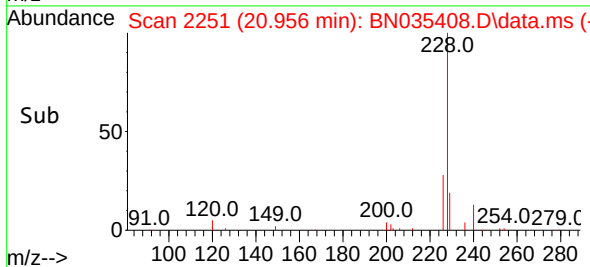
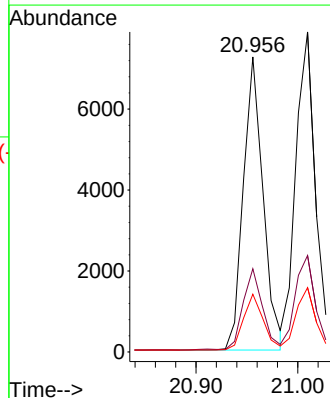
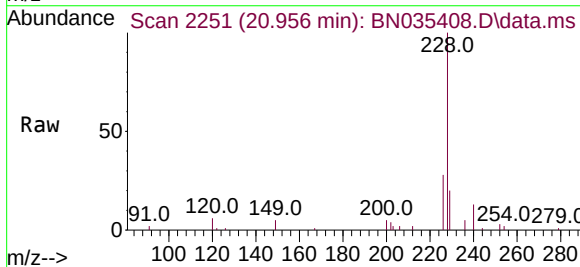
Instrument :
BNA_N
ClientSampleId :
PB165348BS

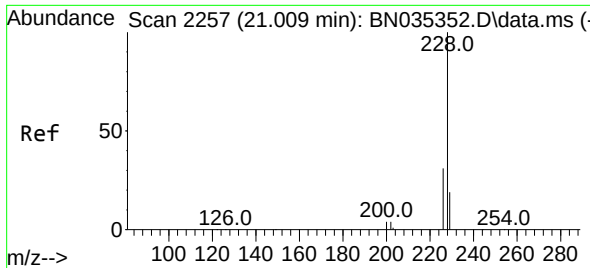
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	8.1	12.1
122	12.0	10.3	15.5



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8

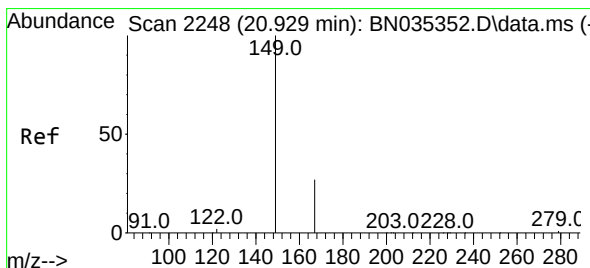
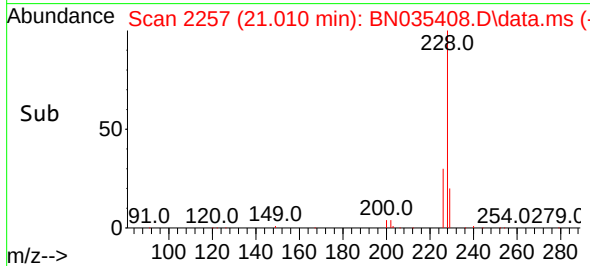
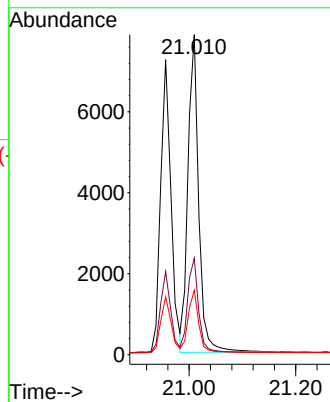
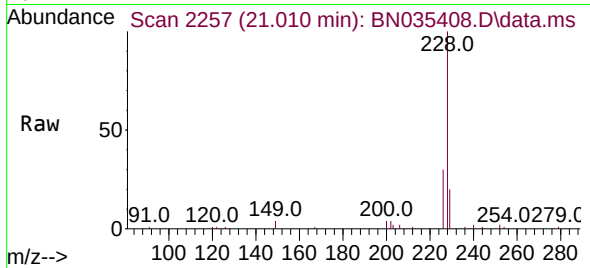




#33
Chrysene
Concen: 0.406 ng
RT: 21.010 min Scan# 210
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

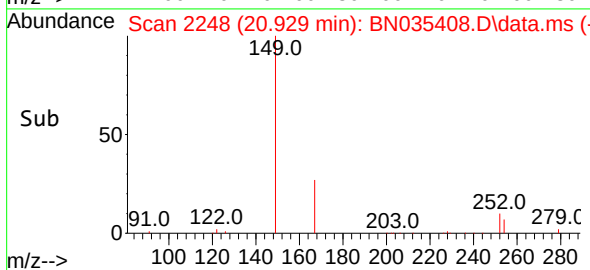
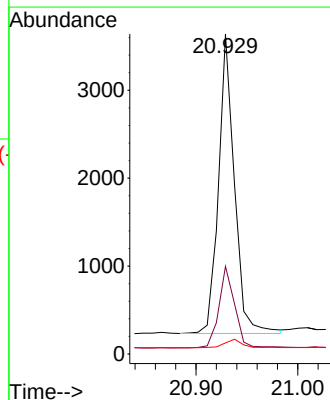
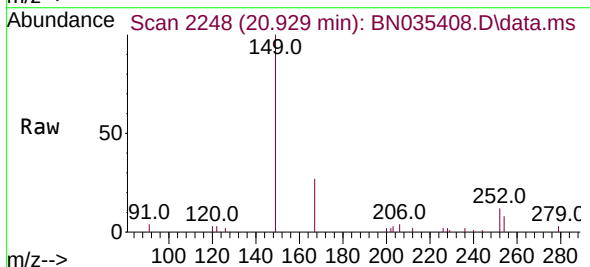
Instrument :
BNA_N
ClientSampleId :
PB165348BS

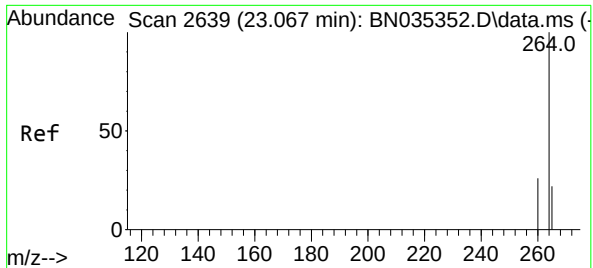
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	20.1	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.357 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	3.3	2.7	4.1

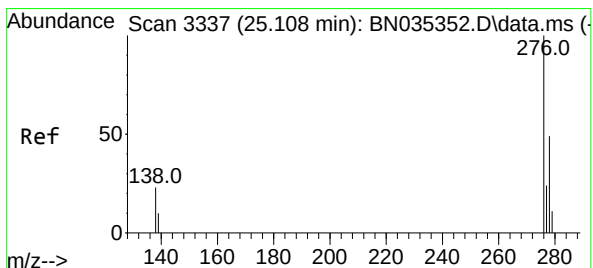
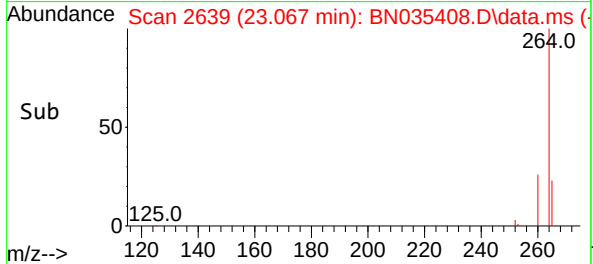
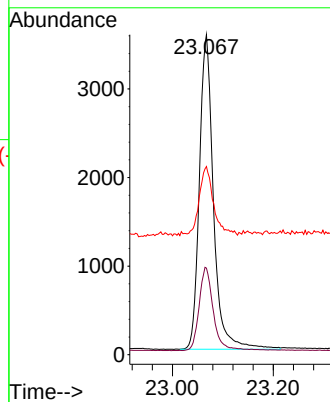
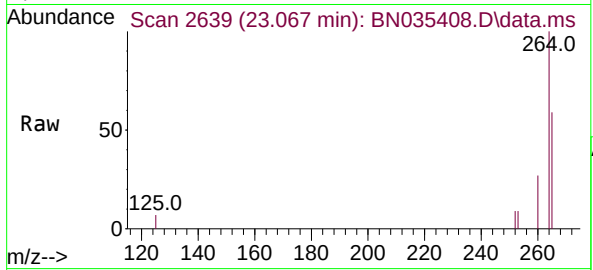




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

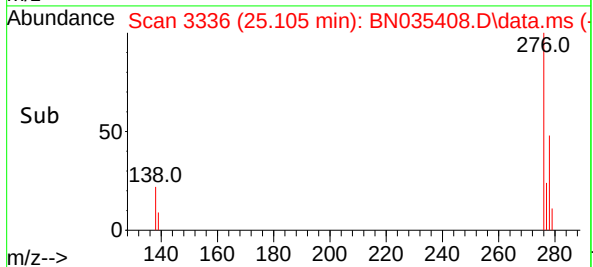
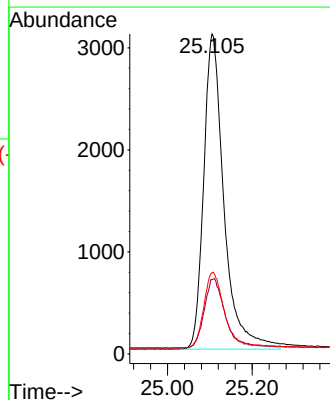
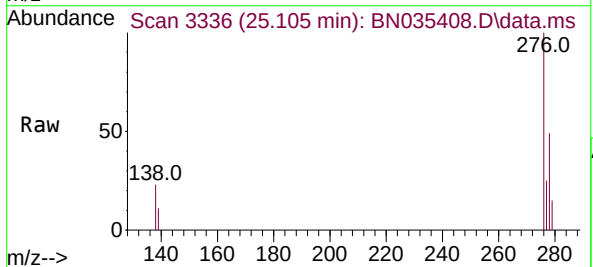
Instrument :
BNA_N
ClientSampleId :
PB165348BS

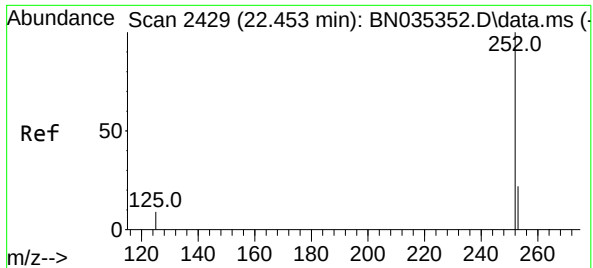
Tgt Ion:264 Resp: 6897
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 58.8 40.2 60.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:276 Resp: 10275
Ion Ratio Lower Upper
276 100
138 22.2 19.4 29.0
277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.393 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA_N

ClientSampleId :

PB165348BS

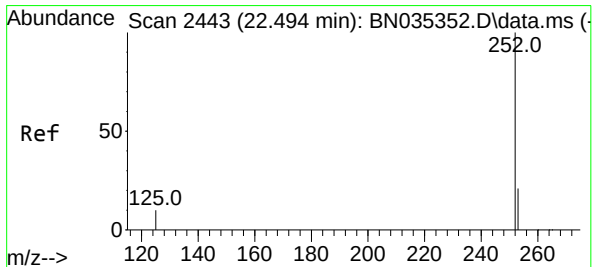
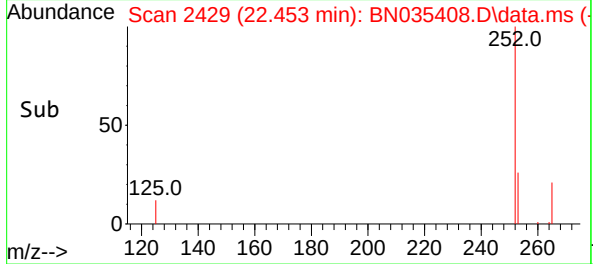
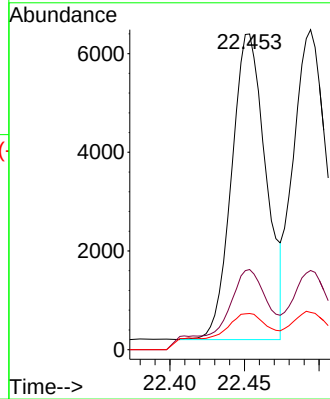
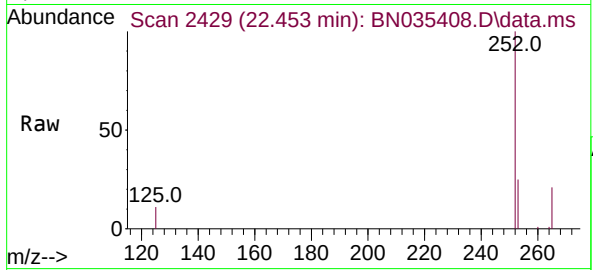
Tgt Ion:252 Resp: 9922

Ion Ratio Lower Upper

252 100

253 25.4 19.6 29.4

125 11.5 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.432 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

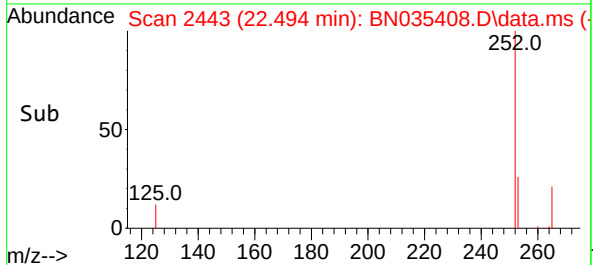
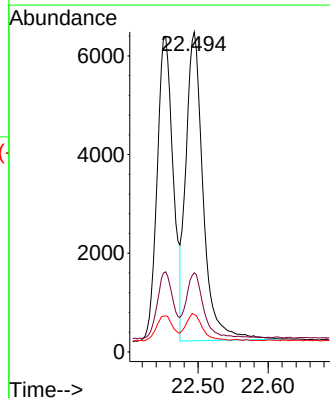
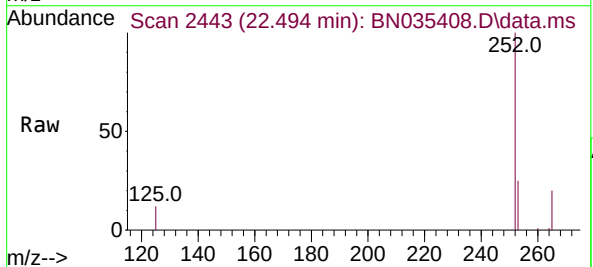
Tgt Ion:252 Resp: 10718

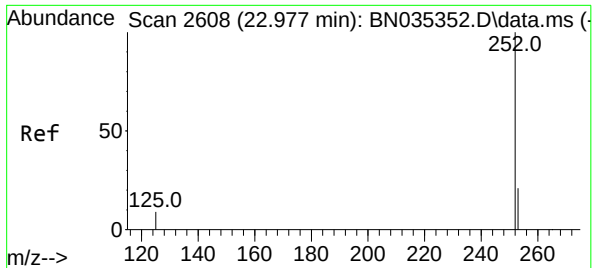
Ion Ratio Lower Upper

252 100

253 24.7 19.5 29.3

125 11.6 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.423 ng

RT: 22.977 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA_N

ClientSampleId :

PB165348BS

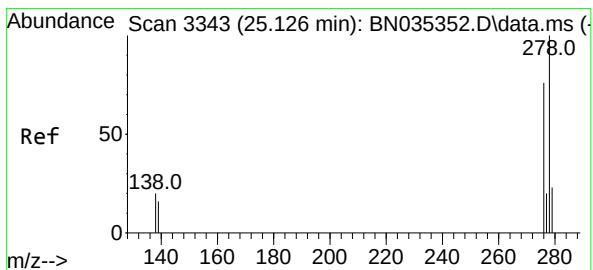
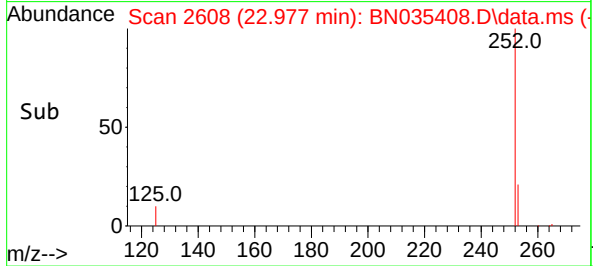
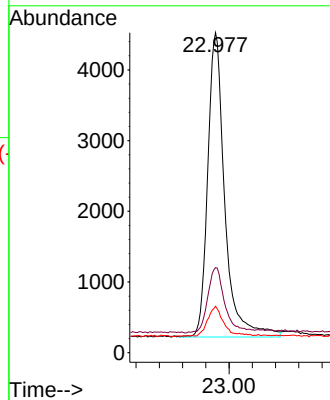
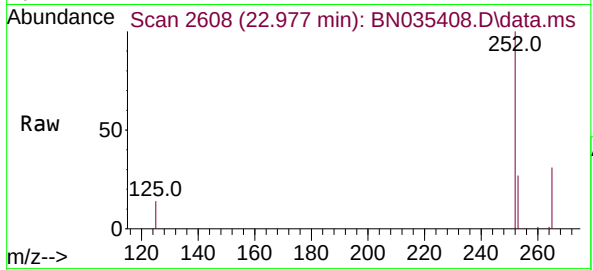
Tgt Ion:252 Resp: 8783

Ion Ratio Lower Upper

252 100

253 26.6 20.2 30.4

125 14.5 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.372 ng

RT: 25.123 min Scan# 3342

Delta R.T. -0.003 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

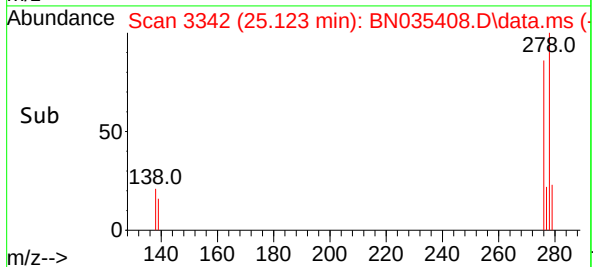
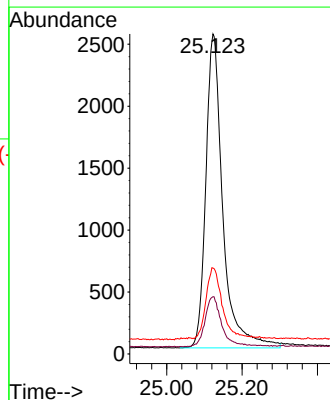
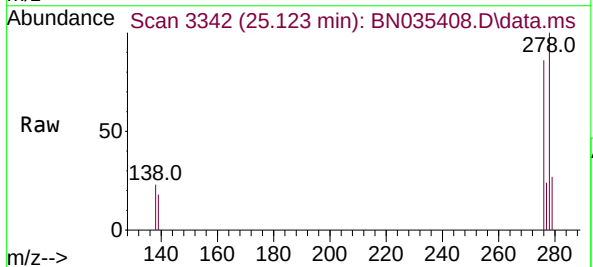
Tgt Ion:278 Resp: 7917

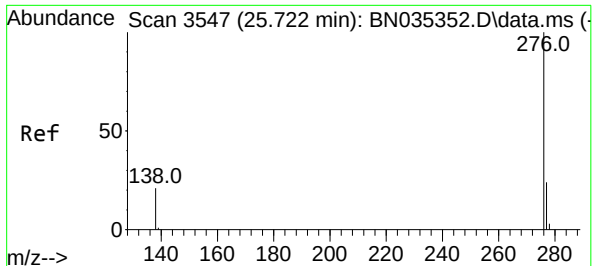
Ion Ratio Lower Upper

278 100

139 17.9 14.2 21.4

279 26.9 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.373 ng

RT: 25.719 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035408.D

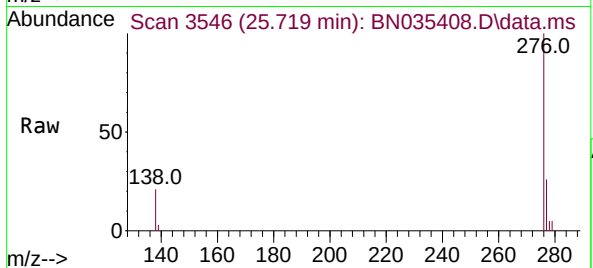
Acq: 03 Dec 2024 18:13

Instrument :

BNA_N

ClientSampleId :

PB165348BS



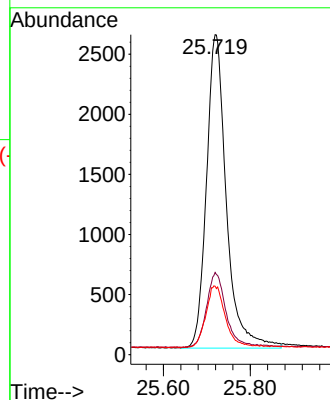
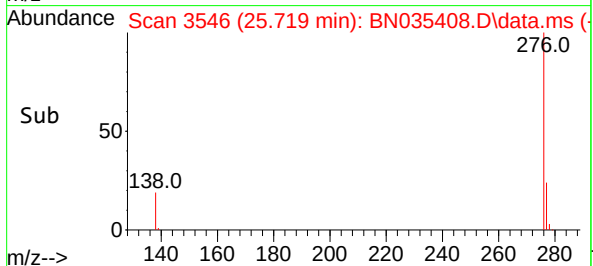
Tgt Ion:276 Resp: 8299

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

138 21.4 17.8 26.8



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165348BSD	SDG No.:	P5065
Lab Sample ID:	PB165348BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035409.D	1	12/03/24 12:30	12/03/24 18:48	PB165348

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.41		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.57		30 - 150		142%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.51	*	55 - 111		127%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		115%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		124%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1950	7.301				
1146-65-2	Naphthalene-d8	4690	10.052				
15067-26-2	Acenaphthene-d10	3100	13.957				
1517-22-2	Phenanthrene-d10	7730	16.723				
1719-03-5	Chrysene-d12	7120	20.974				
1520-96-3	Perylene-d12	6600	23.064				

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\BN120424\
 Data File : BN035409.D
 Acq On : 03 Dec 2024 18:48
 Operator : RC/JU
 Sample : PB165348BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165348BSD

Quant Time: Dec 03 22:05:27 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

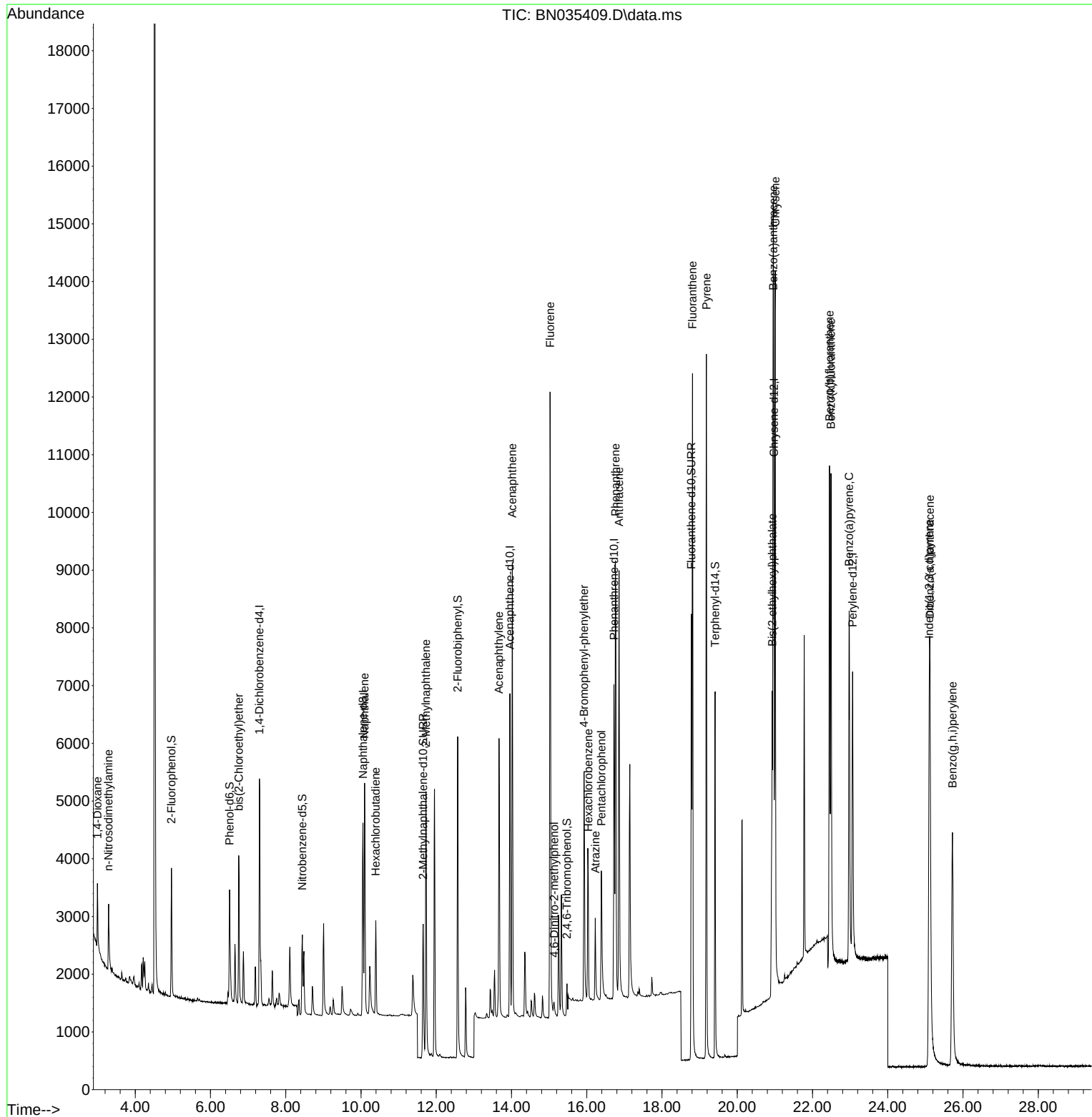
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1951	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4691	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3099	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7726	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7120	0.400	ng	0.00
35) Perylene-d12	23.064	264	6595	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	1884	0.386	ng	0.00
5) Phenol-d6	6.506	99	2126	0.362	ng	0.00
8) Nitrobenzene-d5	8.440	82	1454	0.507	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	4161	0.567	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	556	0.253	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5400	0.461	ng	0.00
27) Fluoranthene-d10	18.780	212	9439	0.431	ng	0.00
31) Terphenyl-d14	19.412	244	6956	0.495	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.996	88	759	0.407	ng	# 80
3) n-Nitrosodimethylamine	3.285	42	676	0.435	ng	# 97
6) bis(2-Chloroethyl)ether	6.752	93	2039	0.413	ng	99
9) Naphthalene	10.095	128	5234	0.423	ng	99
10) Hexachlorobutadiene	10.394	225	1303	0.457	ng	# 99
12) 2-Methylnaphthalene	11.727	142	3629	0.410	ng	99
16) Acenaphthylene	13.668	152	5859	0.450	ng	99
17) Acenaphthene	14.021	154	3729	0.432	ng	100
18) Fluorene	15.026	166	5251	0.425	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	293	0.386	ng	89
21) 4-Bromophenyl-phenylether	15.929	248	1930	0.427	ng	# 77
22) Hexachlorobenzene	16.040	284	2303	0.434	ng	99
23) Atrazine	16.227	200	1258	0.391	ng	97
24) Pentachlorophenol	16.388	266	1409	0.610	ng	# 85
25) Phenanthrene	16.760	178	9175	0.432	ng	100
26) Anthracene	16.860	178	8313	0.433	ng	99
28) Fluoranthene	18.813	202	11171	0.390	ng	99
30) Pyrene	19.180	202	11404	0.434	ng	100
32) Benzo(a)anthracene	20.956	228	10285	0.413	ng	99
33) Chrysene	21.009	228	11567	0.450	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	3938	0.400	ng	99
36) Indeno(1,2,3-cd)pyrene	25.102	276	10891	0.422	ng	98
37) Benzo(b)fluoranthene	22.451	252	15594	0.646	ng	100
38) Benzo(k)fluoranthene	22.491	252	11076	0.466	ng	98
39) Benzo(a)pyrene	22.974	252	8981	0.452	ng	98
40) Dibenzo(a,h)anthracene	25.123	278	8366	0.411	ng	98
41) Benzo(g,h,i)perylene	25.719	276	8782	0.413	ng	100

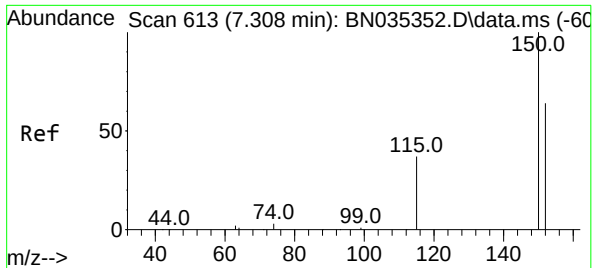
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035409.D
Acq On : 03 Dec 2024 18:48
Operator : RC/JU
Sample : PB165348BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165348BSD

Quant Time: Dec 03 22:05:27 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

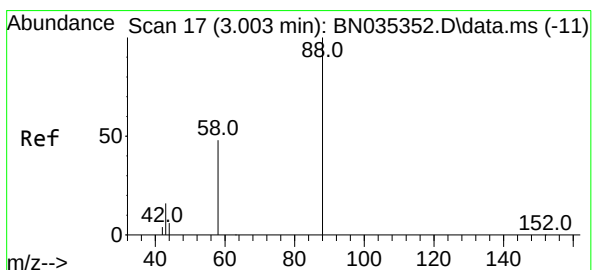
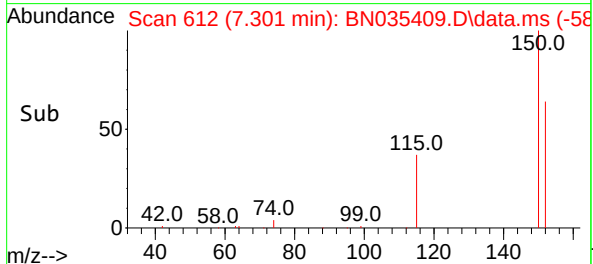
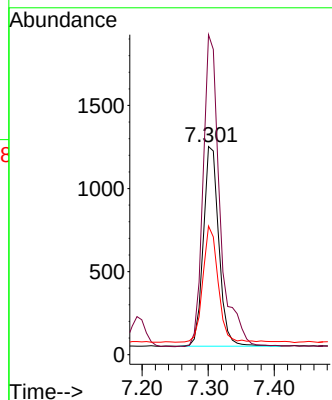
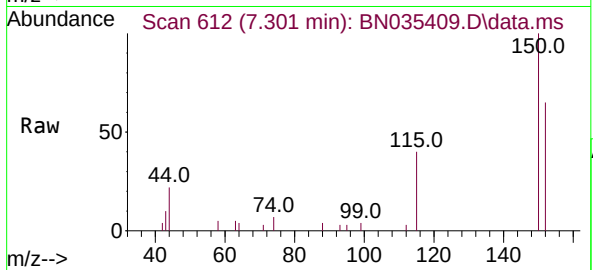




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

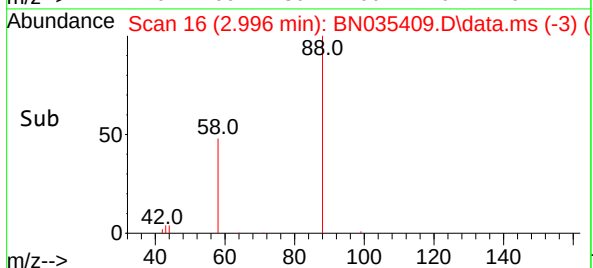
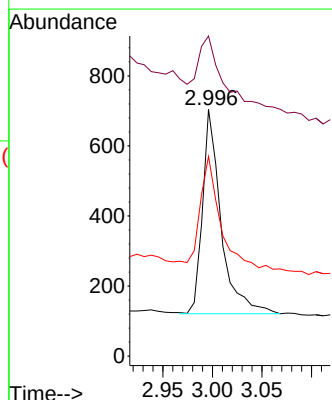
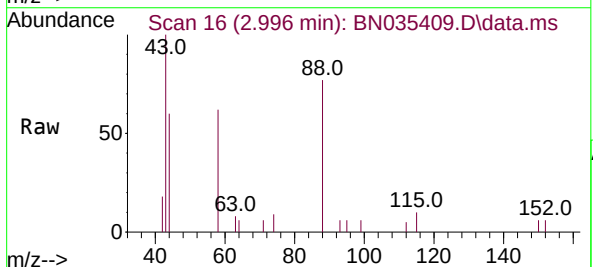
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

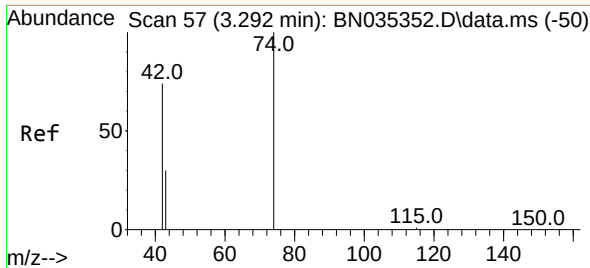
Tgt Ion:152 Resp: 1951
Ion Ratio Lower Upper
152 100
150 153.7 124.0 186.0
115 61.8 49.6 74.4



#2
1,4-Dioxane
Concen: 0.407 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion: 88 Resp: 759
Ion Ratio Lower Upper
88 100
43 48.6 17.2 25.8#
58 59.2 44.5 66.7

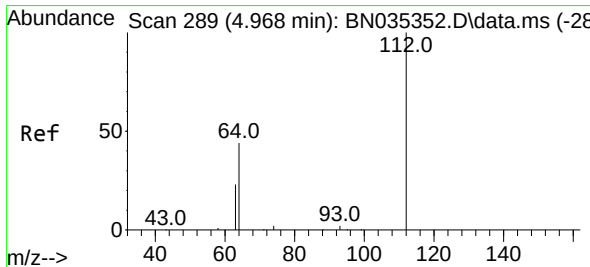
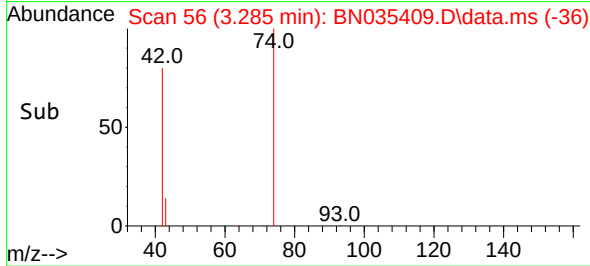
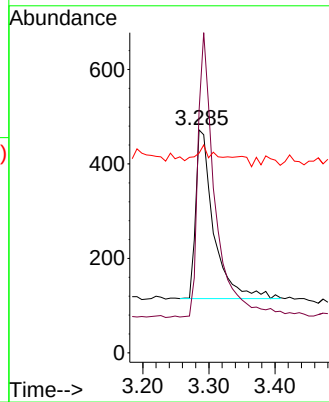
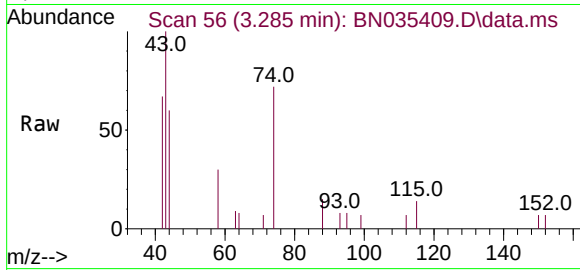




#3
n-Nitrosodimethylamine
Concen: 0.435 ng
RT: 3.285 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

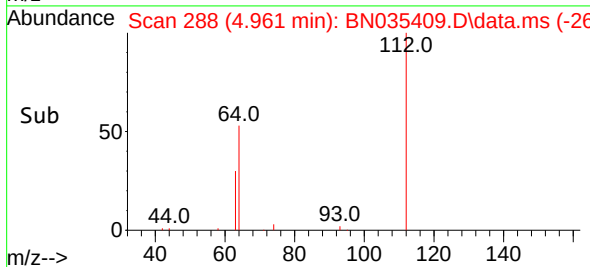
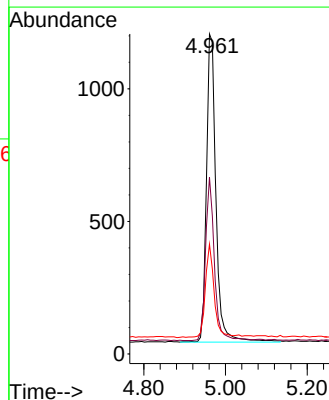
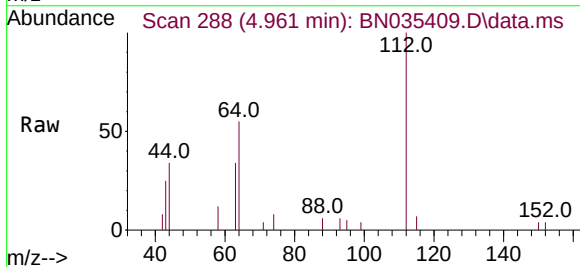
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

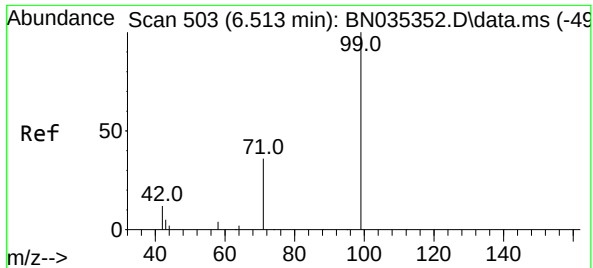
Tgt Ion: 42 Resp: 676
Ion Ratio Lower Upper
42 100
74 160.1 124.9 187.3
44 6.7 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.386 ng
RT: 4.961 min Scan# 288
Delta R.T. -0.007 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion: 112 Resp: 1884
Ion Ratio Lower Upper
112 100
64 49.2 39.8 59.8
63 27.5 21.0 31.6

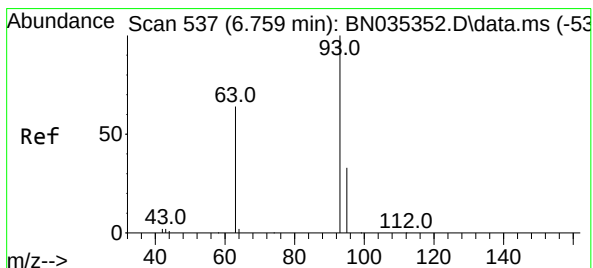
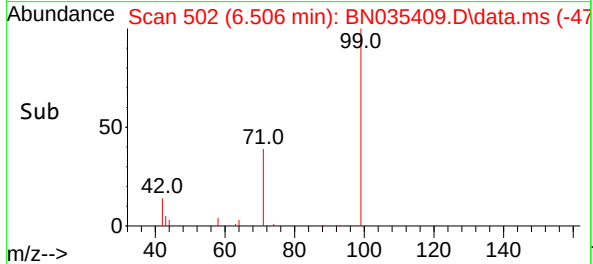
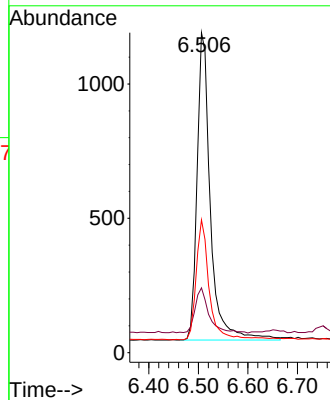
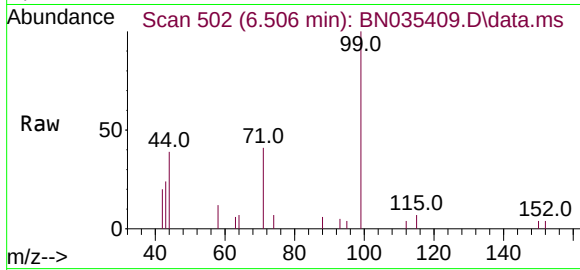




#5
Phenol-d6
Concen: 0.362 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

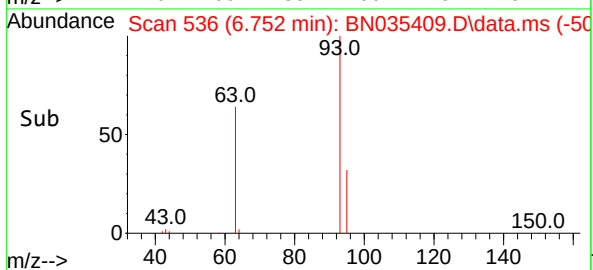
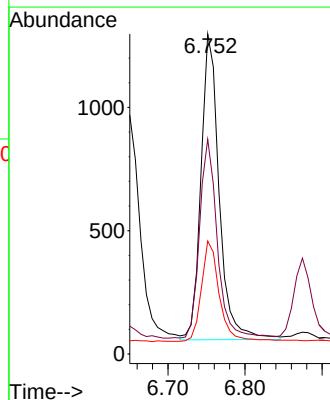
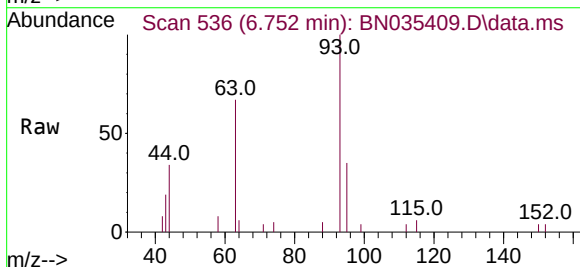
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

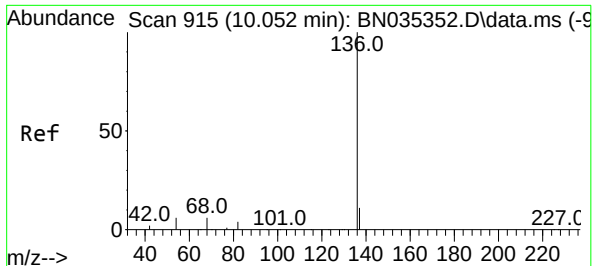
Tgt Ion	Ratio	Lower	Upper
99	100		
42	15.3	11.4	17.2
71	38.8	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.413 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	32.7	25.7	38.5

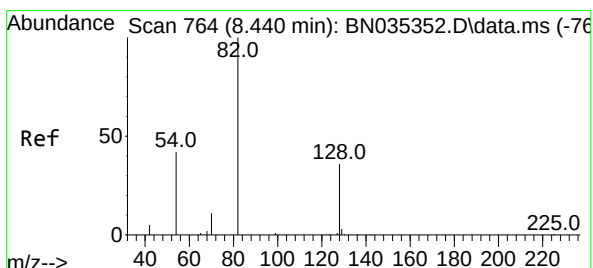
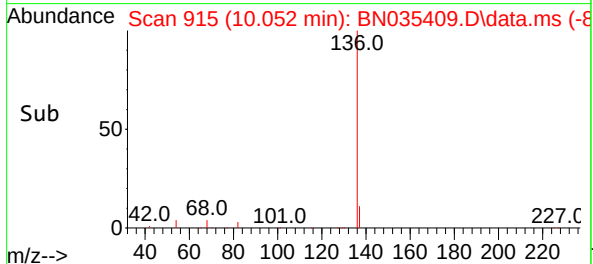
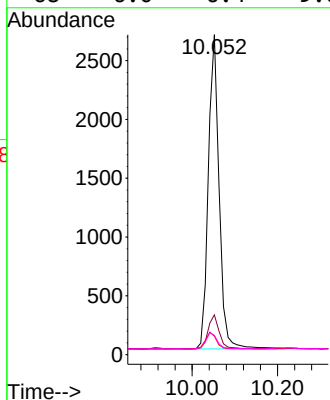
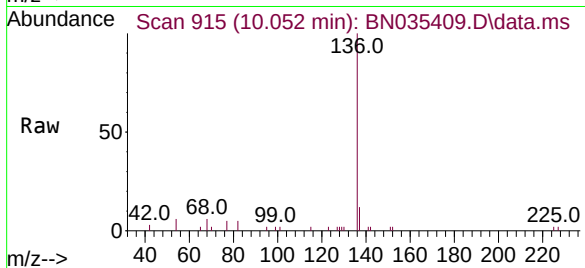




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

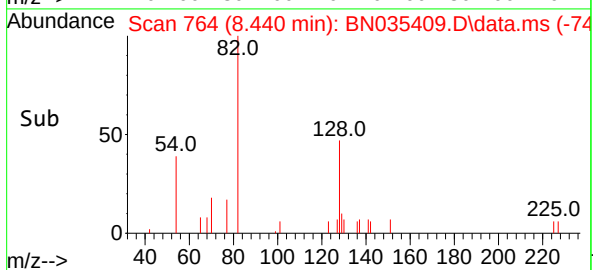
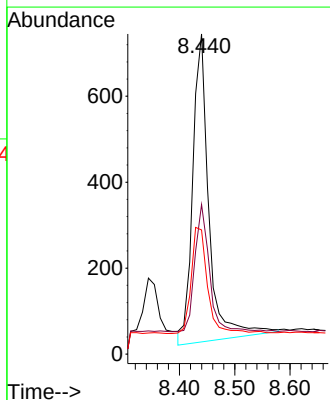
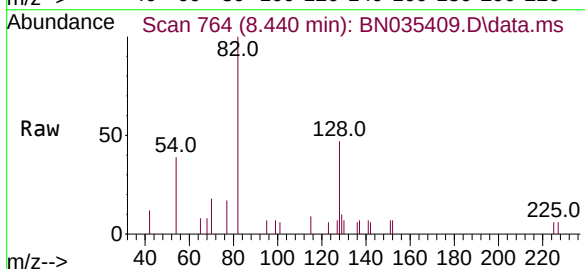
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

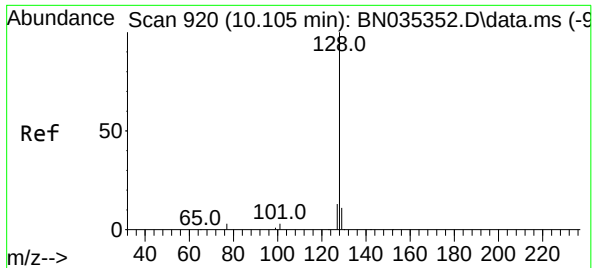
Tgt Ion:	136	Resp:	4691
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	5.7	6.1	9.1#
68	6.0	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.507 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:	82	Resp:	1454
Ion	Ratio	Lower	Upper
82	100		
128	46.7	33.4	50.0
54	38.8	36.7	55.1

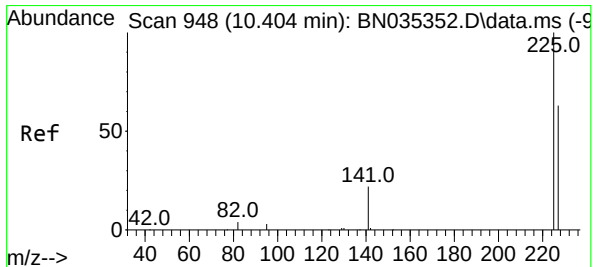
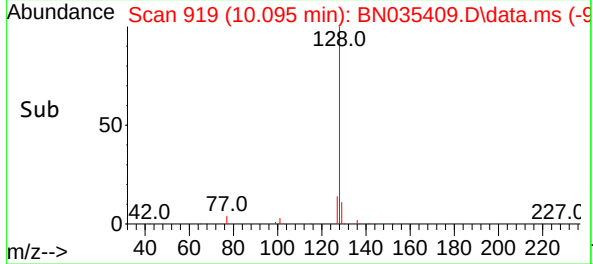
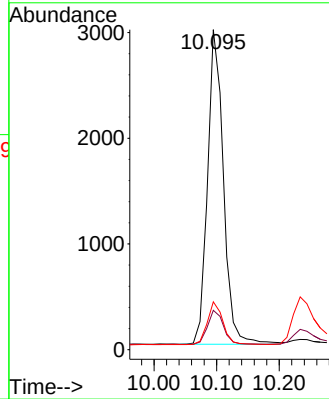
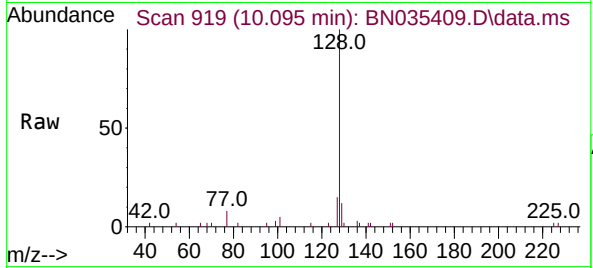




#9
Naphthalene
Concen: 0.423 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

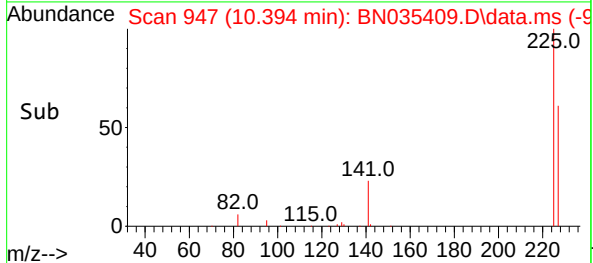
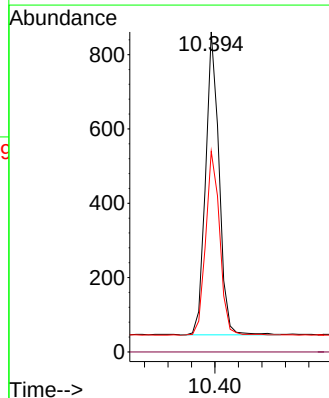
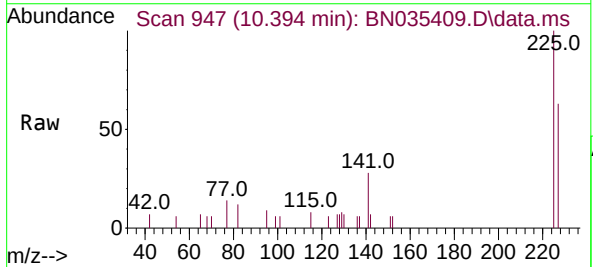
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

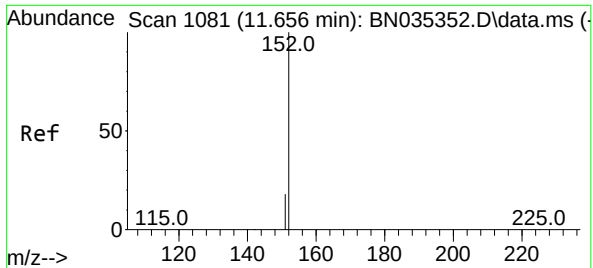
Tgt Ion:	128	Resp:	5234
Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.8	14.6
127	15.0	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.457 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:	225	Resp:	1303
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.3	76.9

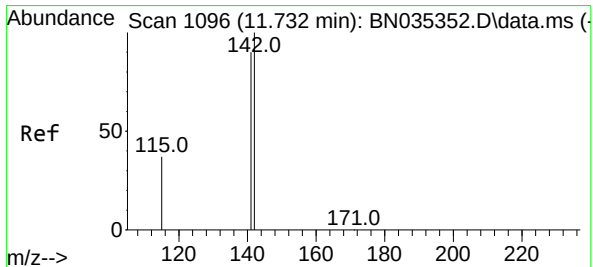
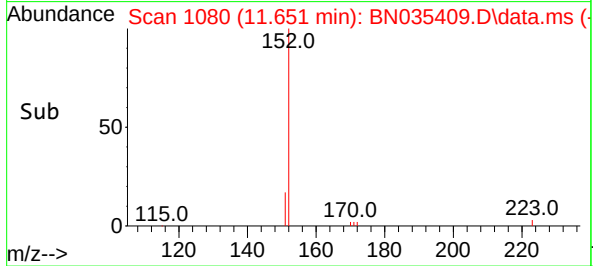
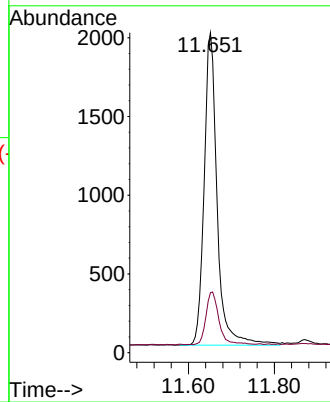
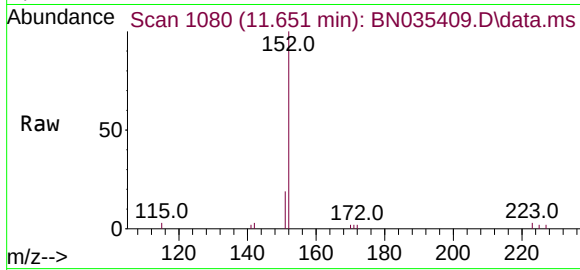




#11
2-Methylnaphthalene-d10
Concen: 0.567 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

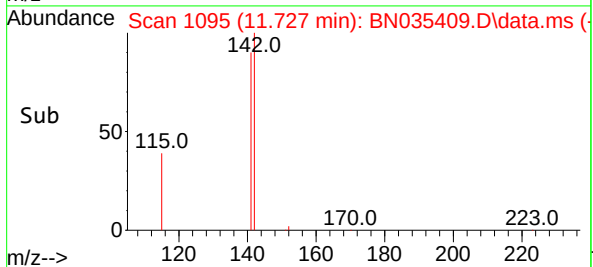
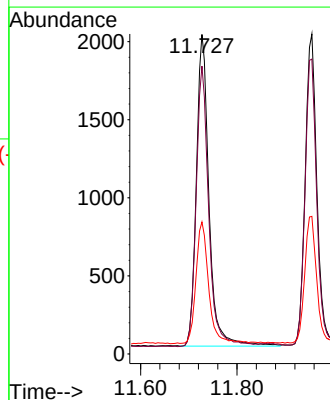
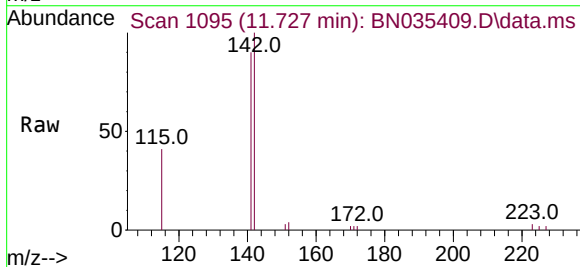
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

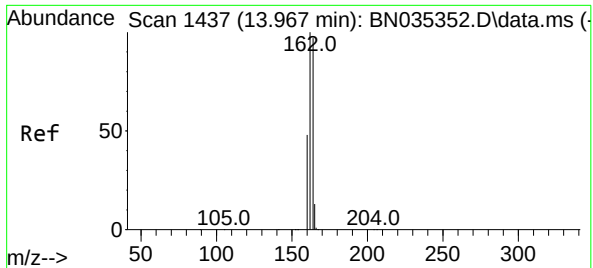
Tgt Ion:152 Resp: 4161
Ion Ratio Lower Upper
152 100
151 16.6 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.410 ng
RT: 11.727 min Scan# 1095
Delta R.T. -0.005 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:142 Resp: 3629
Ion Ratio Lower Upper
142 100
141 90.1 72.2 108.4
115 41.3 31.4 47.0

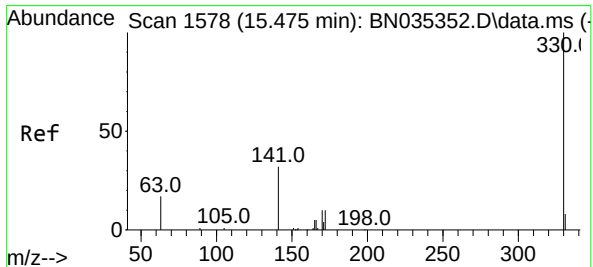
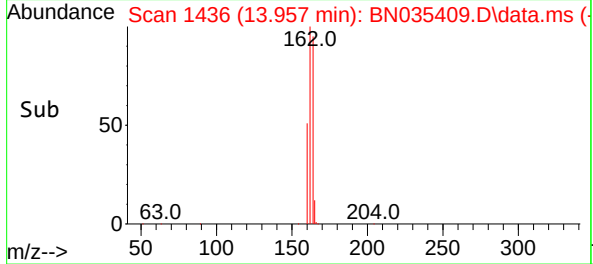
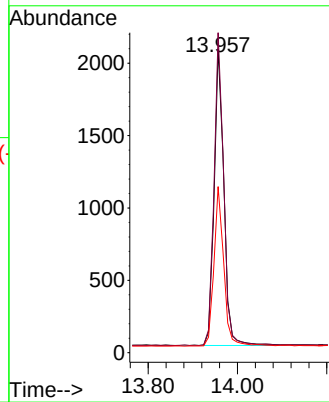
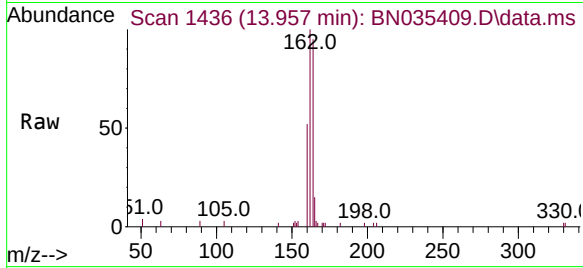




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

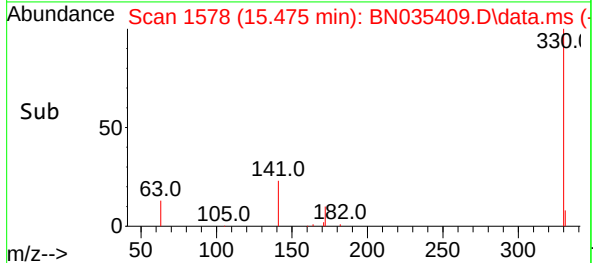
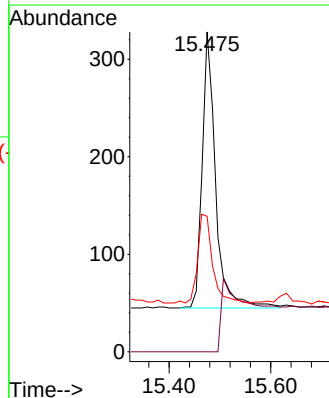
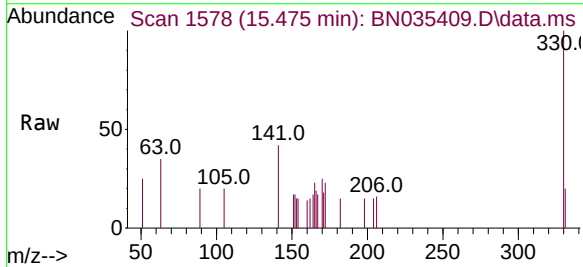
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

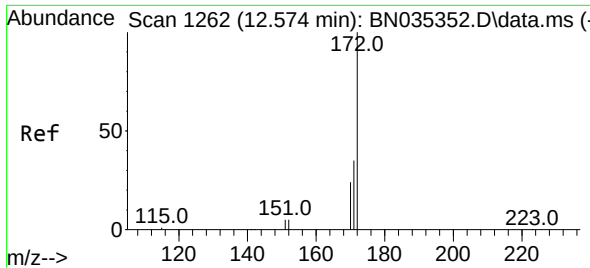
Tgt Ion:164 Resp: 3099
Ion Ratio Lower Upper
164 100
162 105.3 82.2 123.2
160 54.7 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.253 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:330 Resp: 556
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.7 26.6 40.0

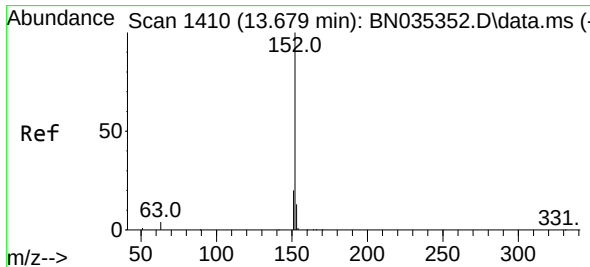
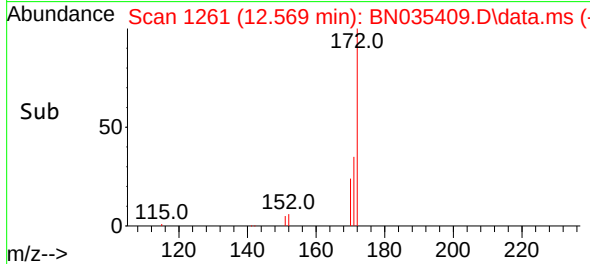
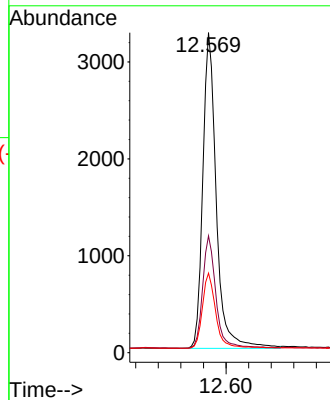
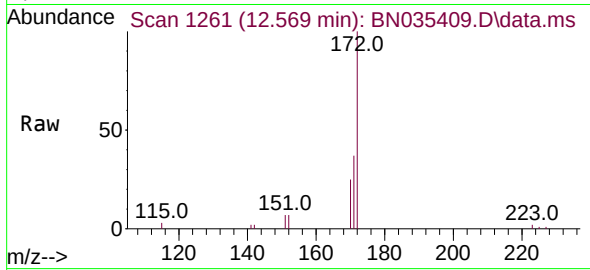




#15
2-Fluorobiphenyl
Concen: 0.461 ng
RT: 12.569 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

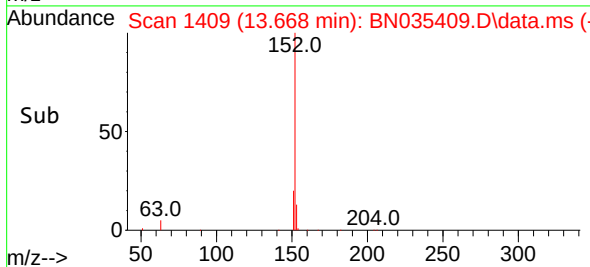
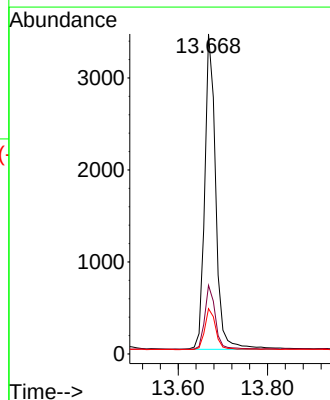
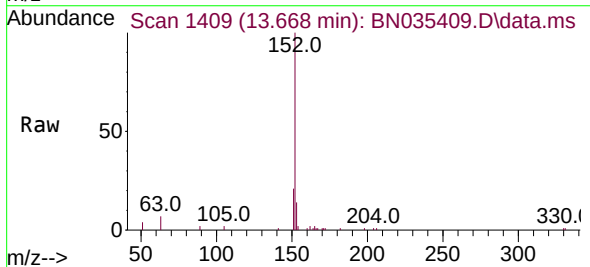
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

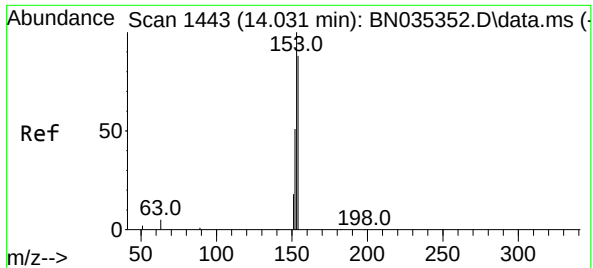
Tgt Ion:	172	Resp:	5400
Ion Ratio	Lower	Upper	
172	100		
171	36.5	29.0	43.4
170	24.8	19.8	29.8



#16
Acenaphthylene
Concen: 0.450 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:	152	Resp:	5859
Ion Ratio	Lower	Upper	
152	100		
151	19.5	16.2	24.2
153	13.2	10.4	15.6

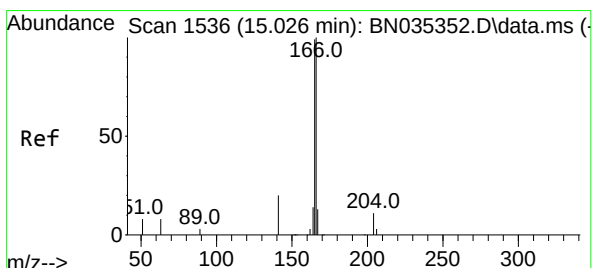
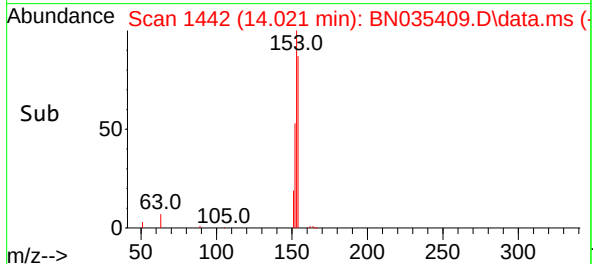
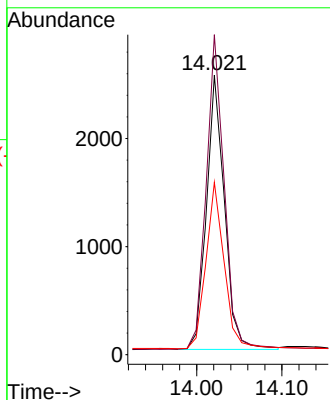
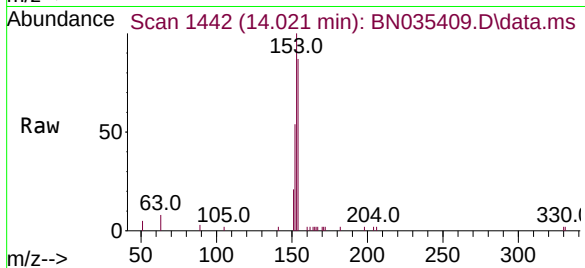




#17
Acenaphthene
Concen: 0.432 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

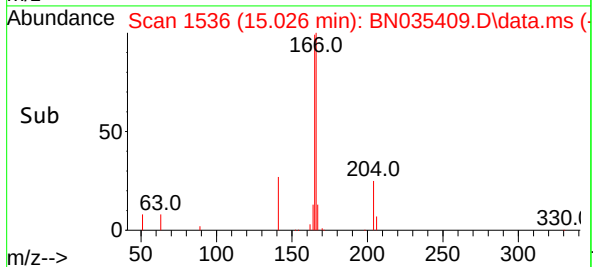
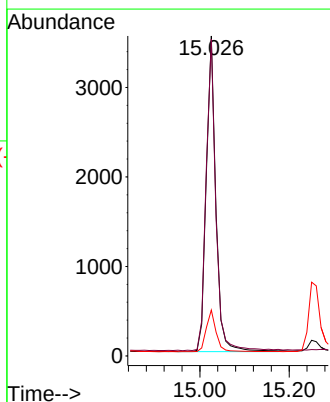
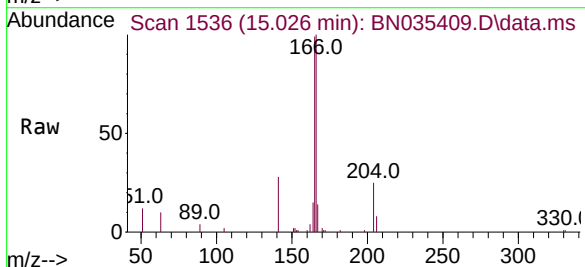
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

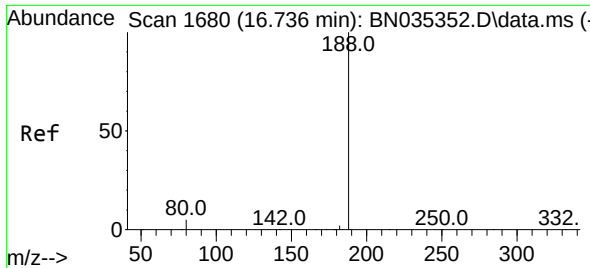
Tgt Ion:154 Resp: 3729
Ion Ratio Lower Upper
154 100
153 116.0 92.6 139.0
152 62.0 49.0 73.6



#18
Fluorene
Concen: 0.425 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:166 Resp: 5251
Ion Ratio Lower Upper
166 100
165 99.6 79.7 119.5
167 13.5 10.8 16.2

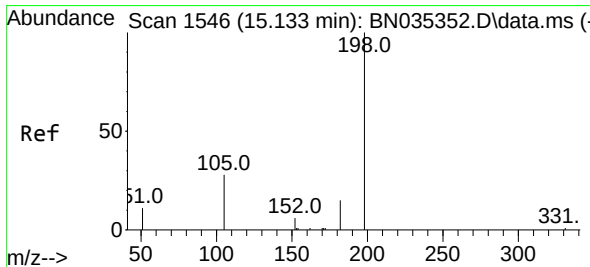
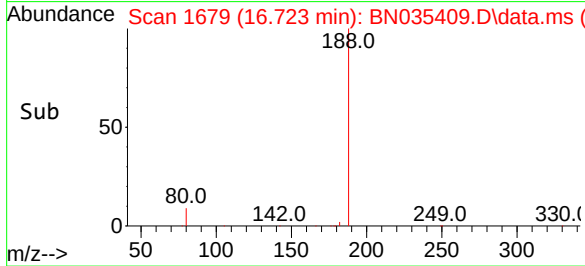
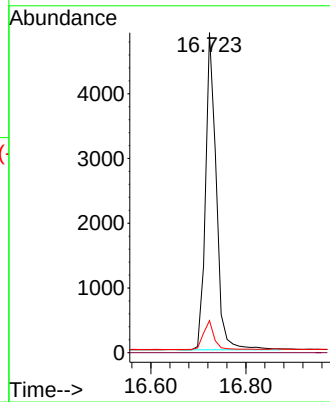
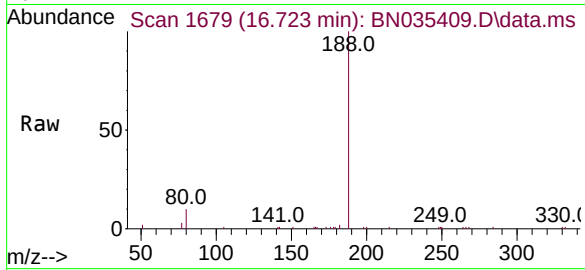




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

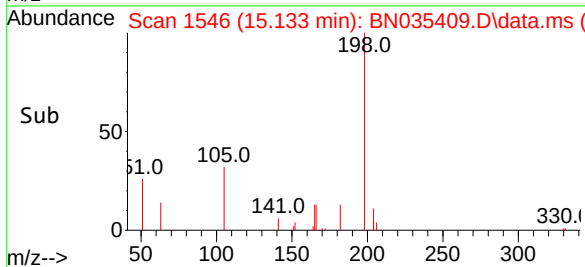
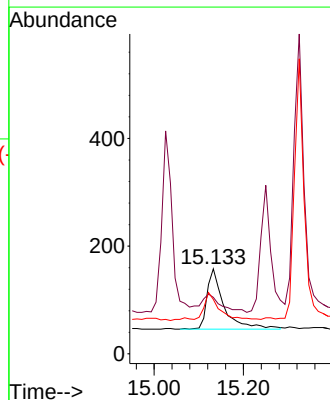
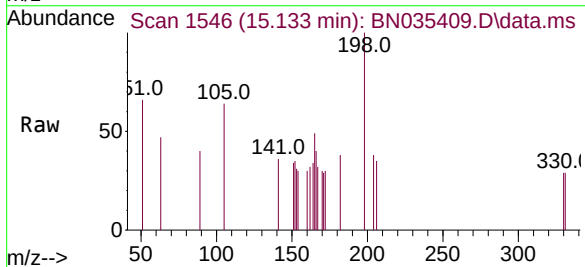
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

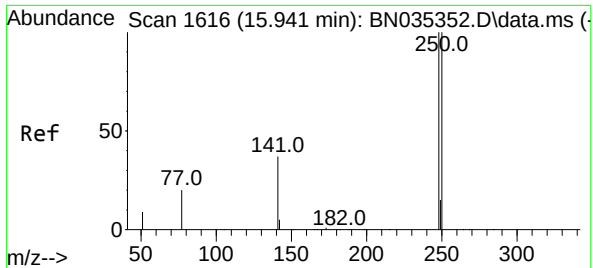
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.0	4.6	6.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.386 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion	Ratio	Lower	Upper
198	100		
51	66.5	46.5	69.7
105	63.9	45.3	67.9

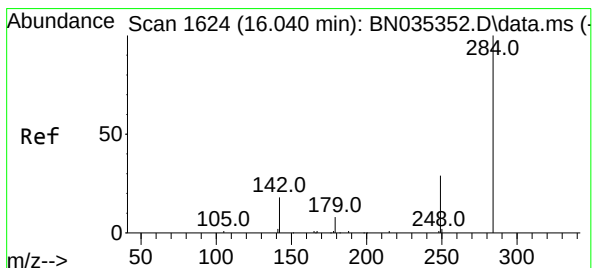
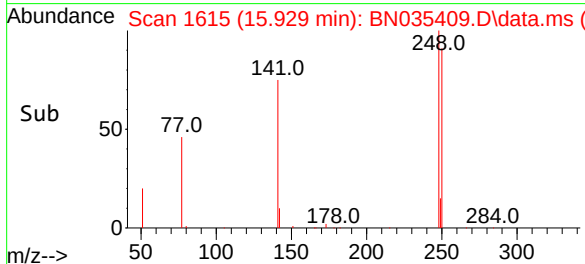
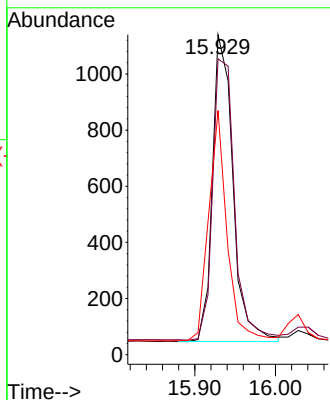
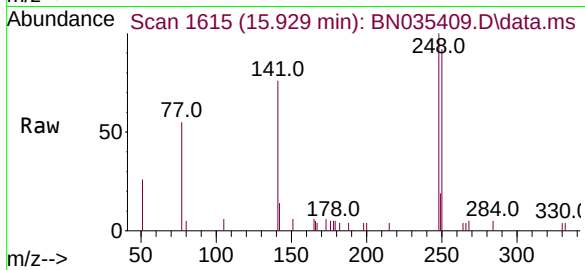




#21
4-Bromophenyl-phenylether
Concen: 0.427 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

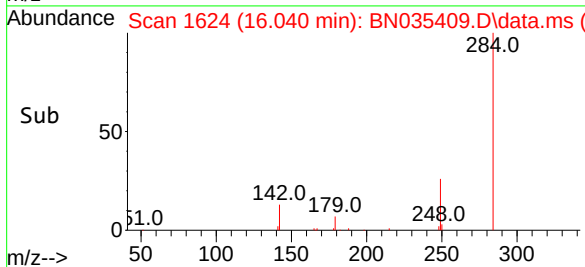
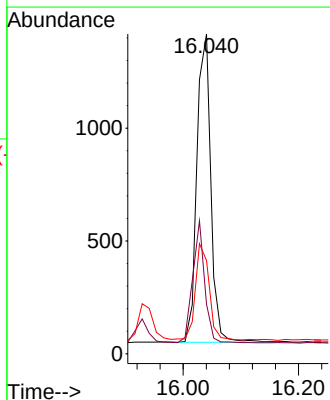
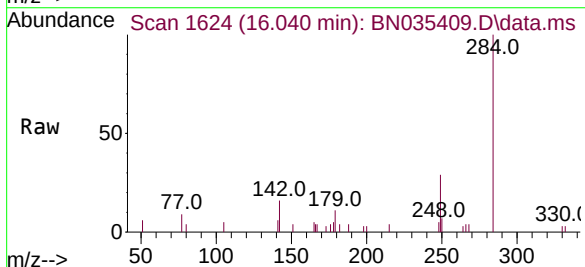
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

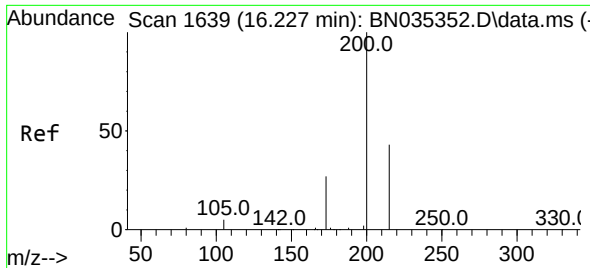
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.5	80.6	120.8
141	76.3	31.5	47.3



#22
Hexachlorobenzene
Concen: 0.434 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.8	24.6	36.8

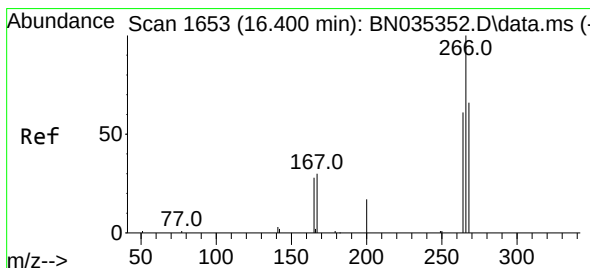
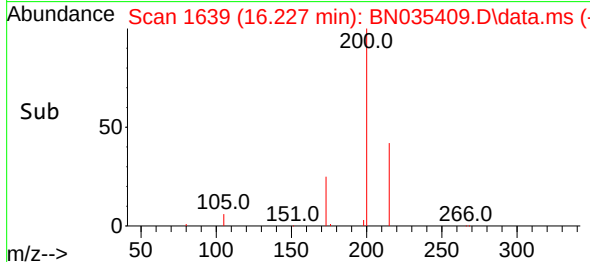
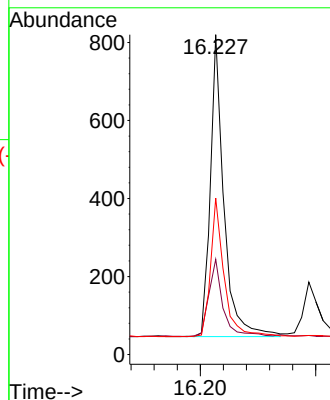
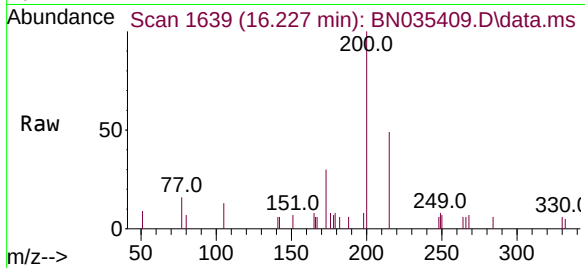




#23
Atrazine
Concen: 0.391 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

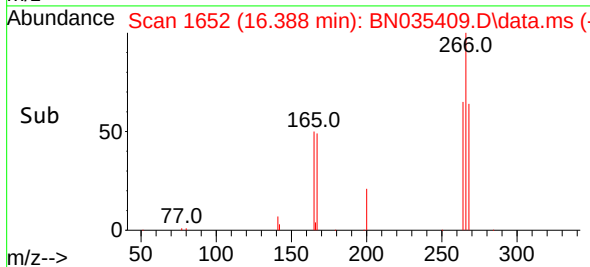
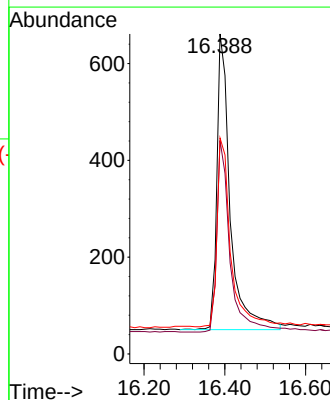
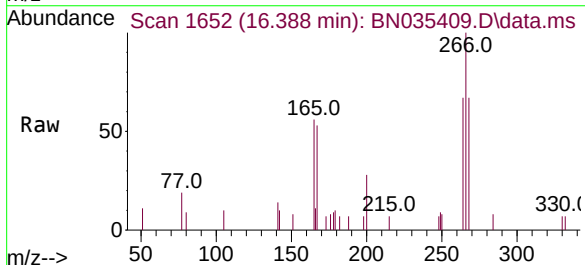
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

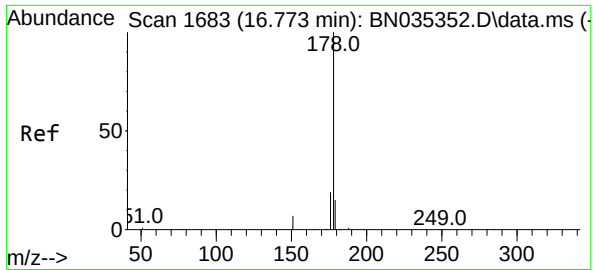
Tgt Ion:	200	Resp:	1258
Ion Ratio	Lower	Upper	
200	100		
173	29.8	24.1	36.1
215	48.9	36.9	55.3



#24
Pentachlorophenol
Concen: 0.610 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:	266	Resp:	1409
Ion Ratio	Lower	Upper	
266	100		
264	63.7	42.3	63.5#
268	64.9	43.3	64.9

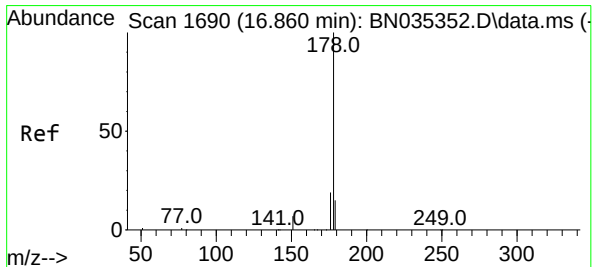
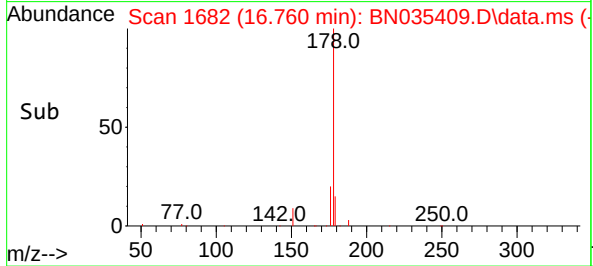
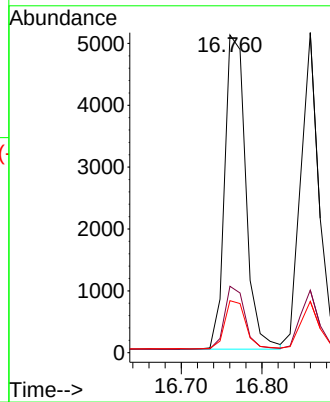
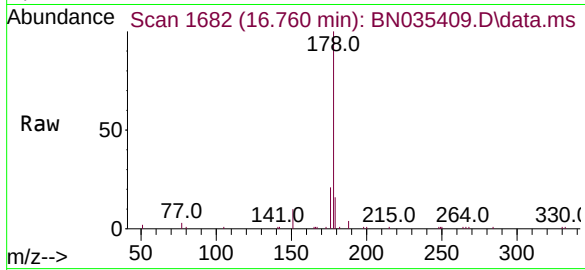




#25
Phenanthrene
Concen: 0.432 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

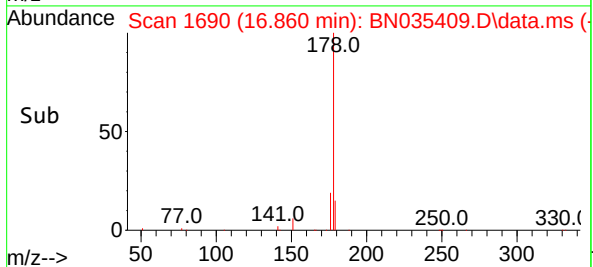
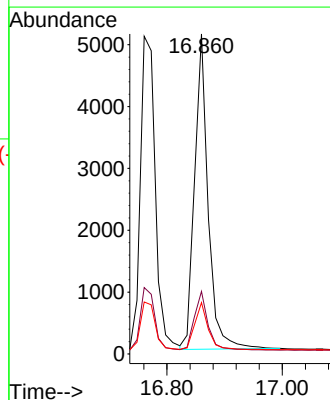
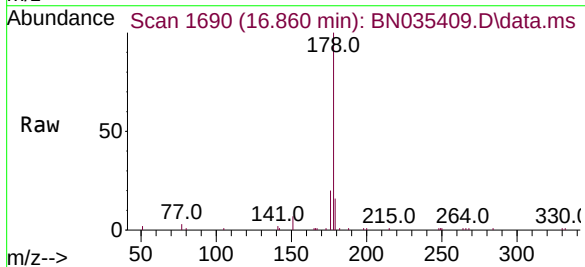
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

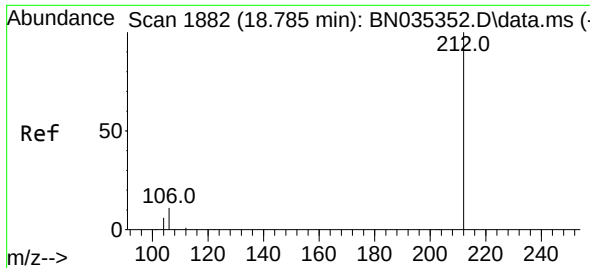
Tgt Ion:178 Resp: 9175
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.433 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:178 Resp: 8313
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.1 12.6 18.8

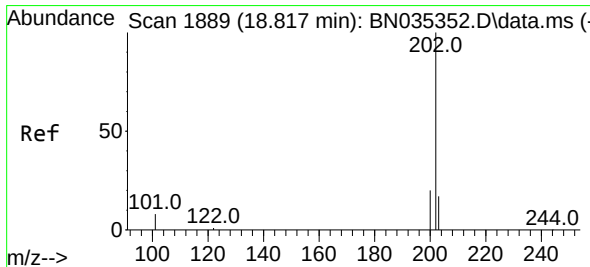
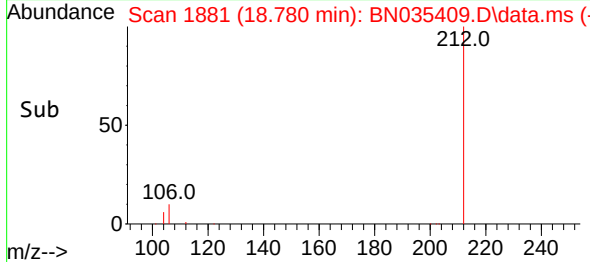
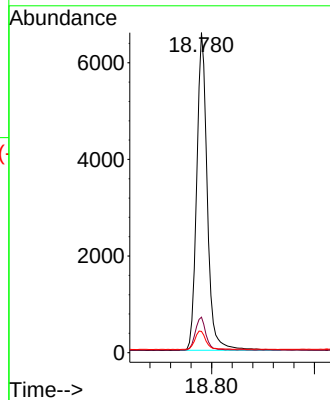
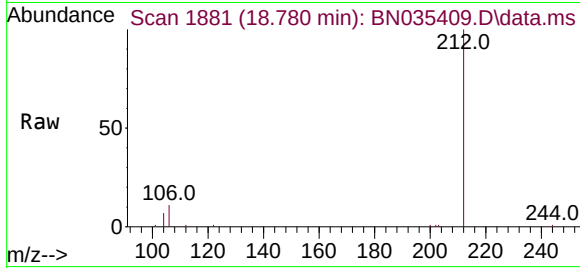




#27
Fluoranthene-d10
Concen: 0.431 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.005 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

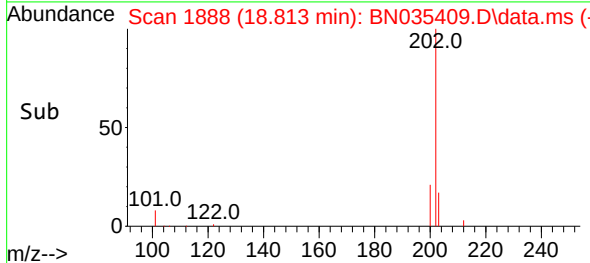
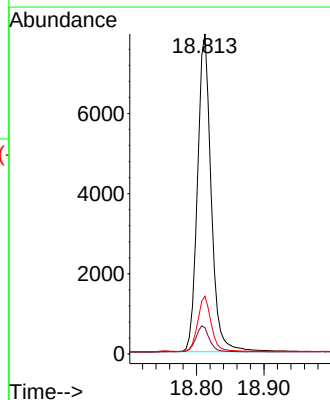
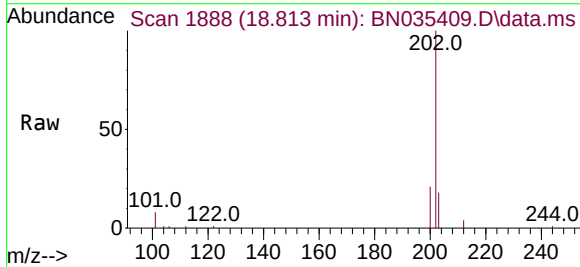
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

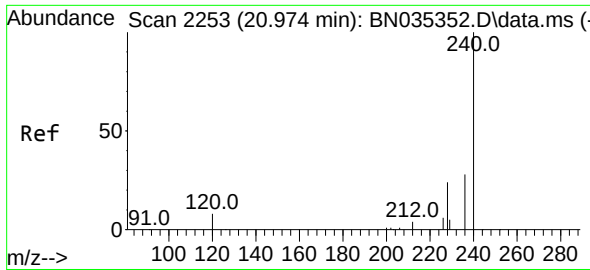
Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.4	9.2	13.8
104	6.1	5.3	7.9



#28
Fluoranthene
Concen: 0.390 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.4	7.4	11.0
203	17.0	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument :

BNA_N

ClientSampleId :

PB165348BSD

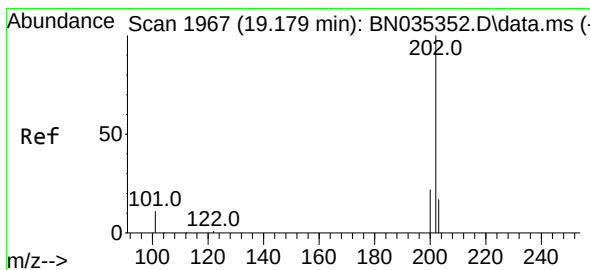
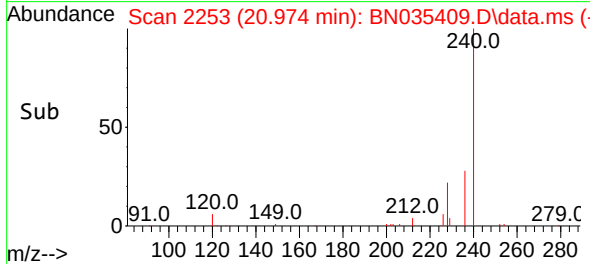
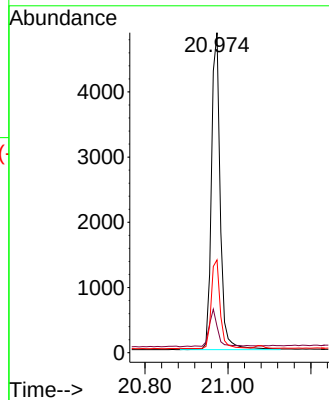
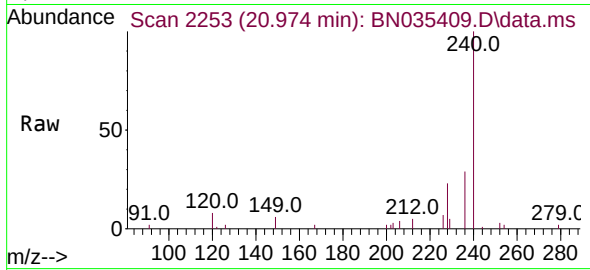
Tgt Ion:240 Resp: 7120

Ion Ratio Lower Upper

240 100

120 8.3 7.9 11.9

236 29.0 22.9 34.3



#30

Pyrene

Concen: 0.434 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

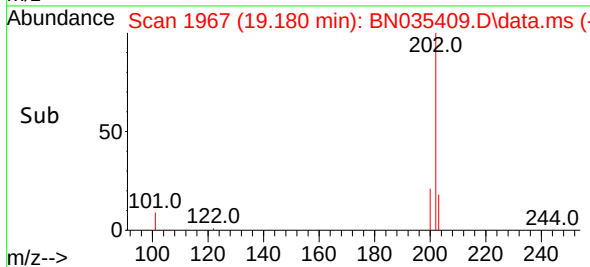
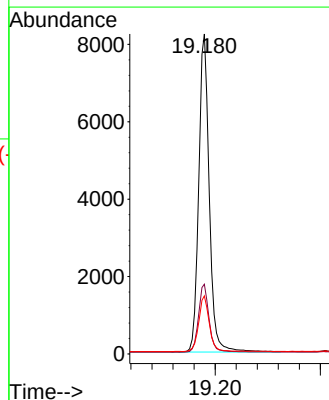
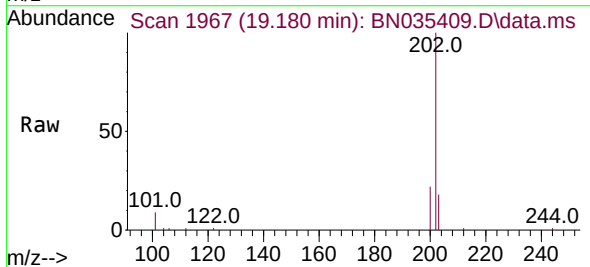
Tgt Ion:202 Resp: 11404

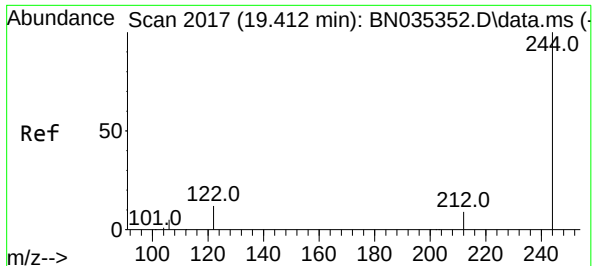
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.3 21.5

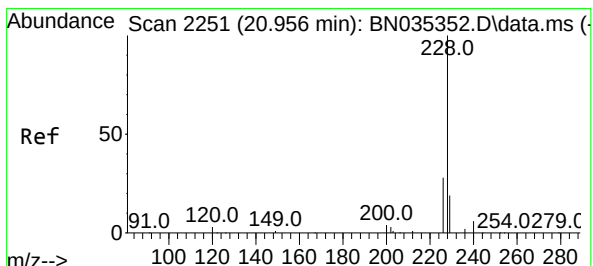
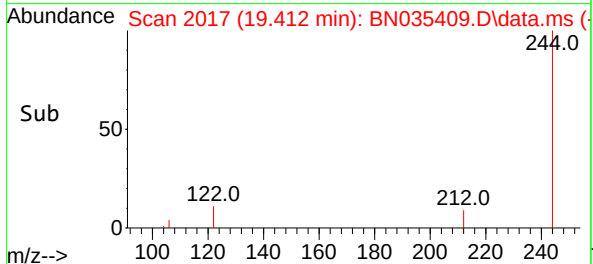
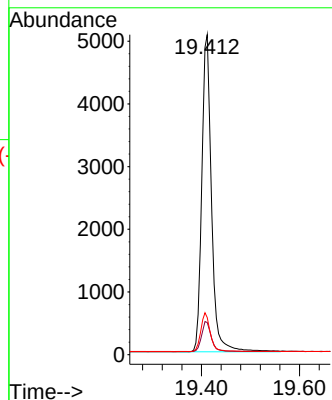
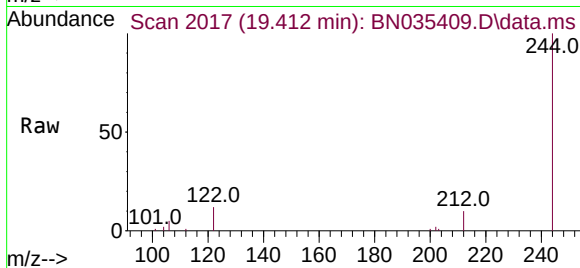




#31
Terphenyl-d14
Concen: 0.495 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

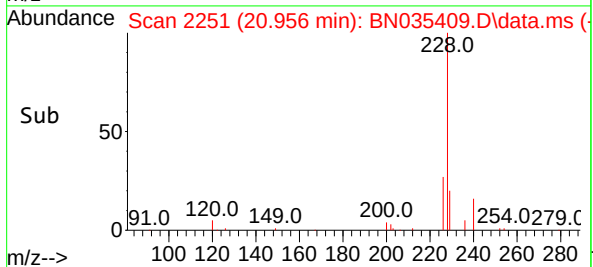
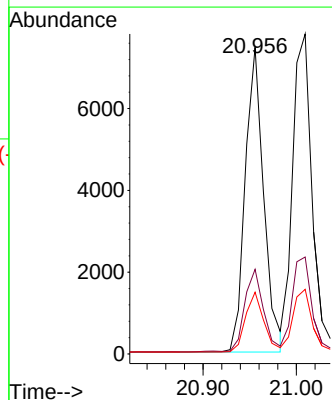
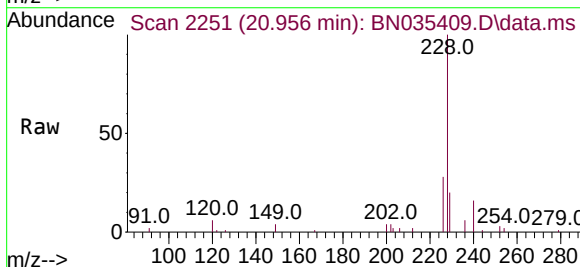
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

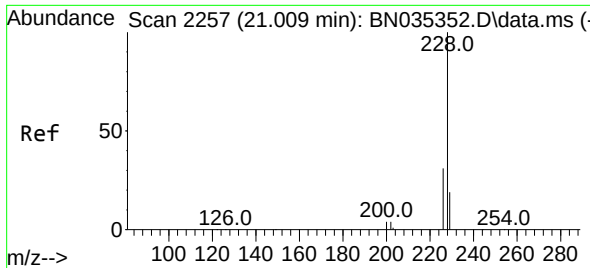
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.1	12.1
122	11.6	10.3	15.5



#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	20.1	15.8	23.8

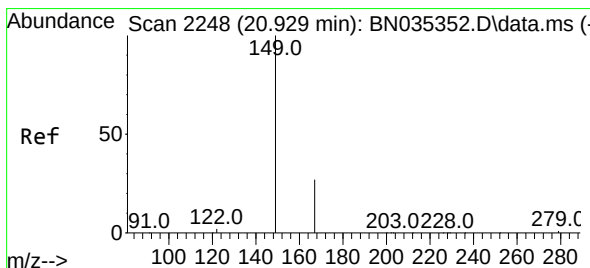
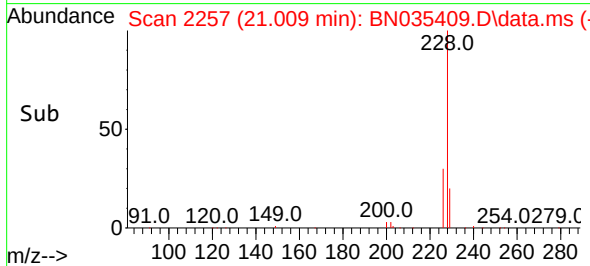
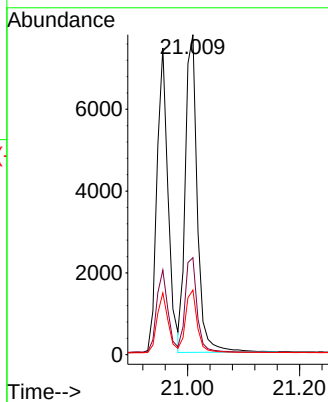
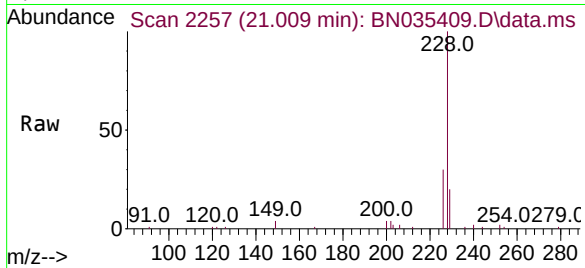




#33
Chrysene
Concen: 0.450 ng
RT: 21.009 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

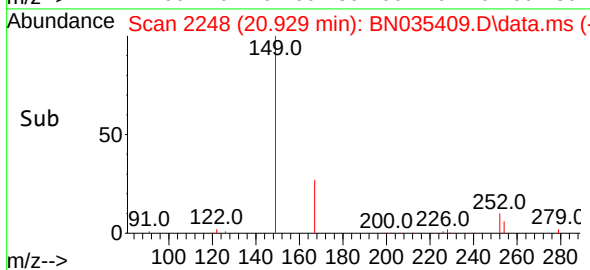
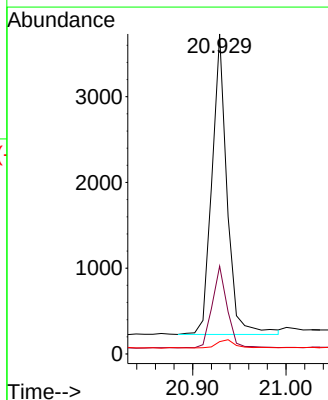
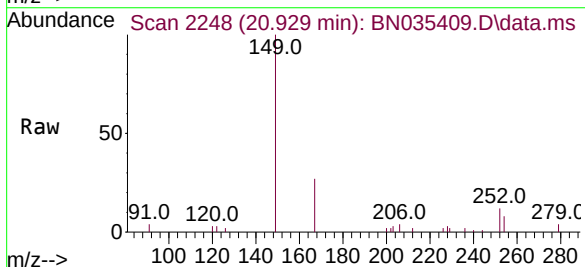
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

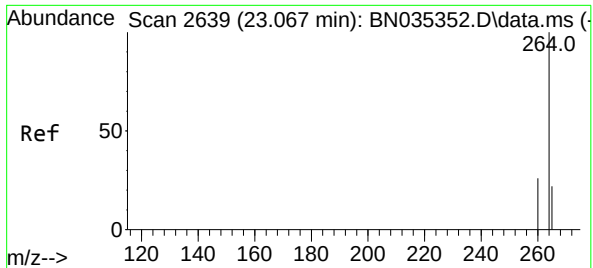
Tgt Ion:	228	Resp:	11567
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.6	37.0
229	20.2	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.400 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:	149	Resp:	3938
Ion Ratio	Lower	Upper	
149	100		
167	27.1	22.2	33.4
279	3.2	2.7	4.1

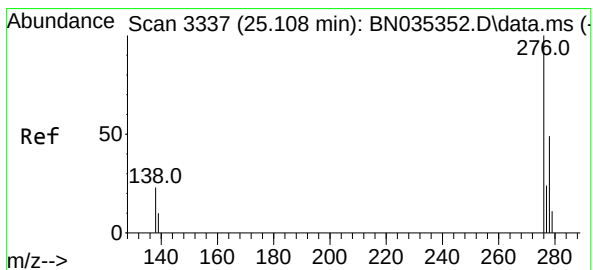
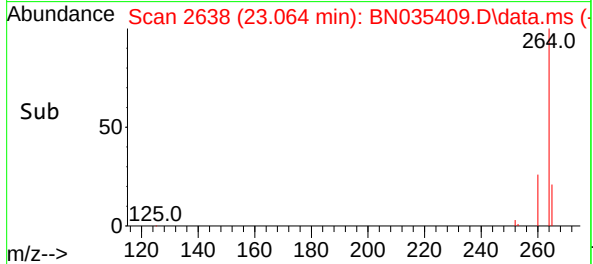
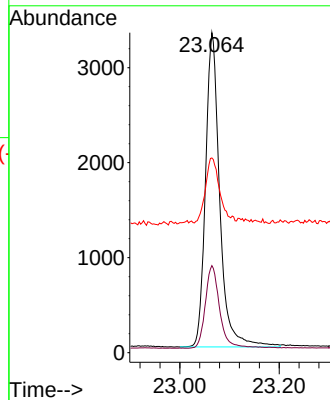
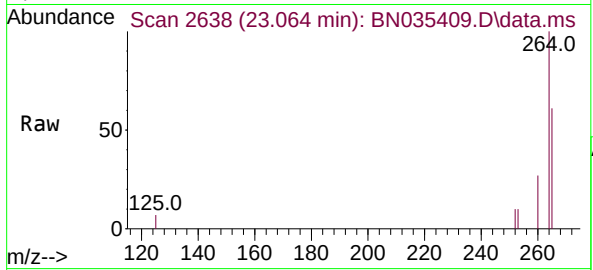




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.064 min Scan# 20
Delta R.T. -0.003 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

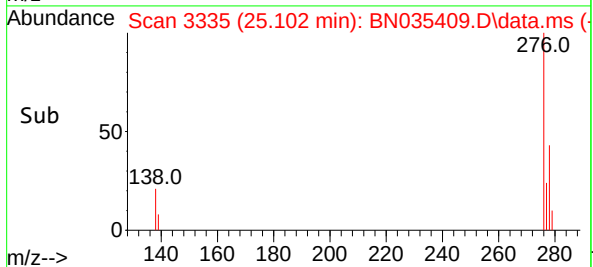
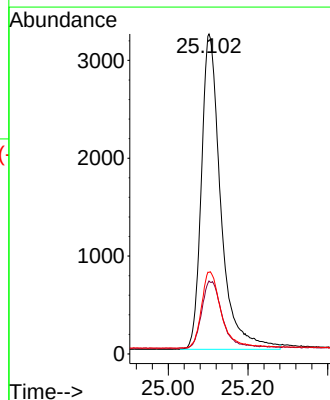
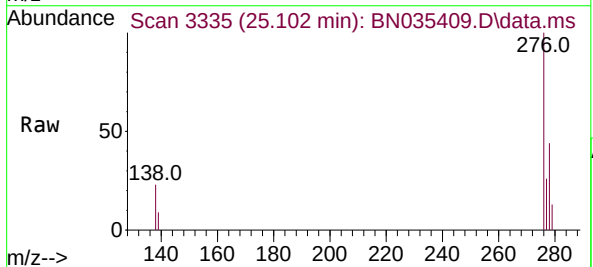
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

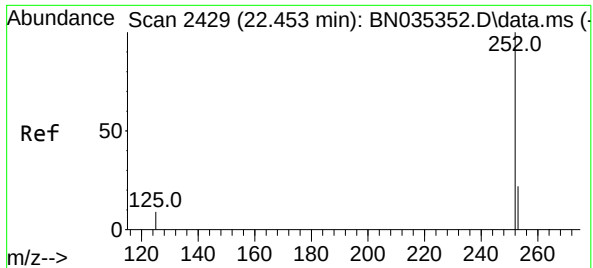
Tgt Ion:264 Resp: 6595
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 60.9 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.422 ng
RT: 25.102 min Scan# 3335
Delta R.T. -0.006 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:276 Resp: 10891
Ion Ratio Lower Upper
276 100
138 22.6 19.4 29.0
277 24.5 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.646 ng

RT: 22.451 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument :

BNA_N

ClientSampleId :

PB165348BSD

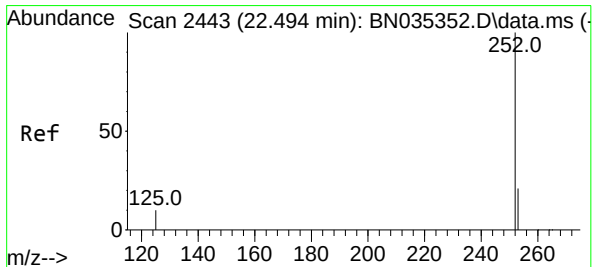
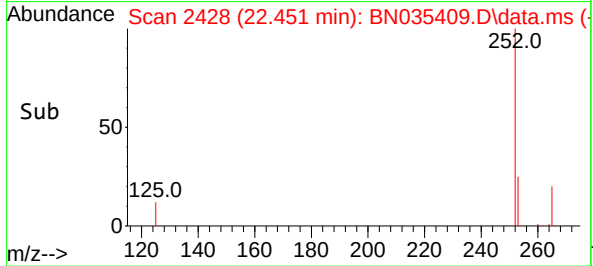
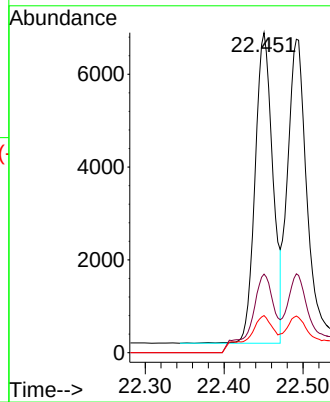
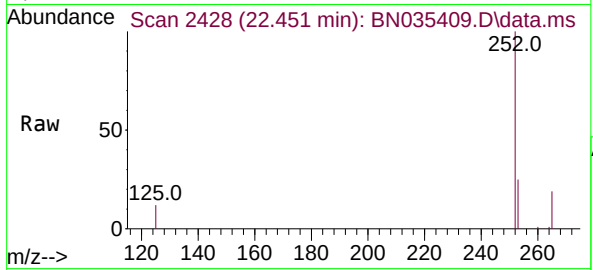
Tgt Ion:252 Resp: 15594

Ion Ratio Lower Upper

252 100

253 24.6 19.6 29.4

125 11.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.466 ng

RT: 22.491 min Scan# 2442

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

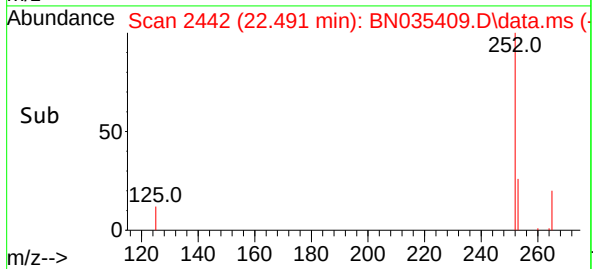
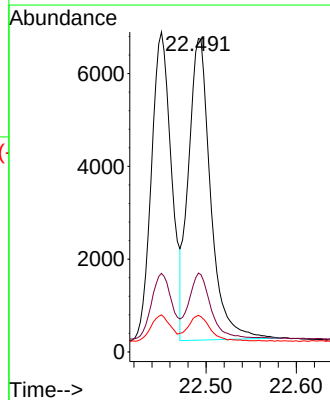
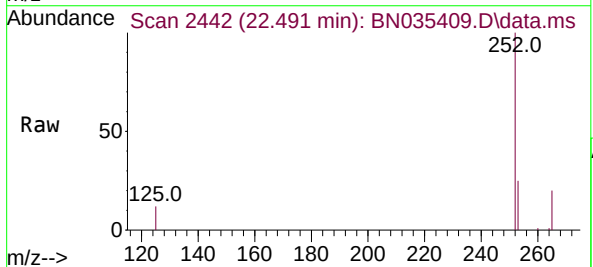
Tgt Ion:252 Resp: 11076

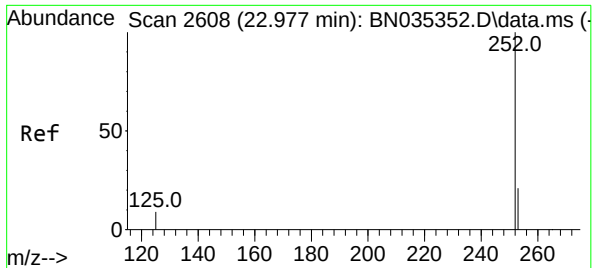
Ion Ratio Lower Upper

252 100

253 25.2 19.5 29.3

125 11.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.452 ng

RT: 22.974 min Scan# 20

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument :

BNA_N

ClientSampleId :

PB165348BSD

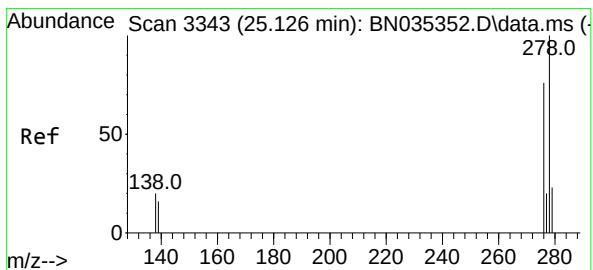
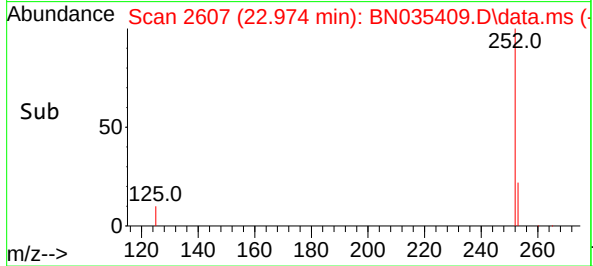
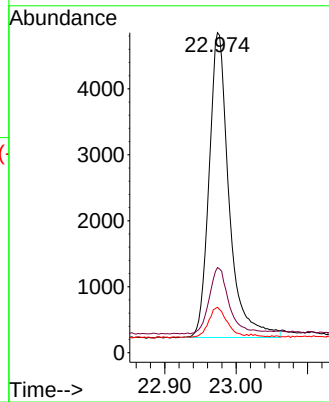
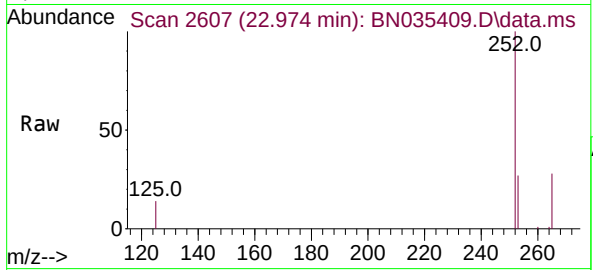
Tgt Ion:252 Resp: 8981

Ion Ratio Lower Upper

252 100

253 26.6 20.2 30.4

125 14.2 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.411 ng

RT: 25.123 min Scan# 3342

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

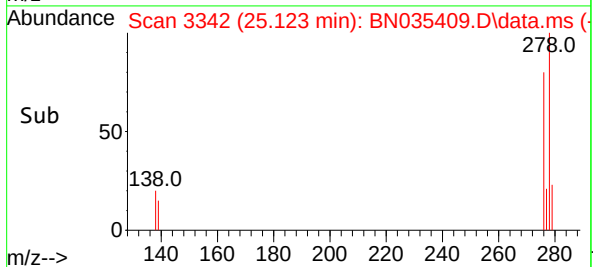
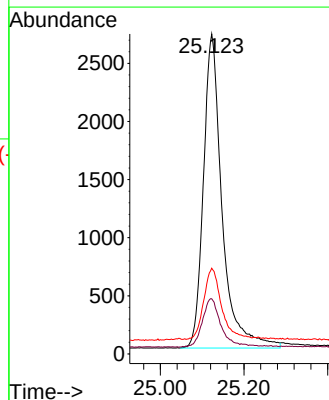
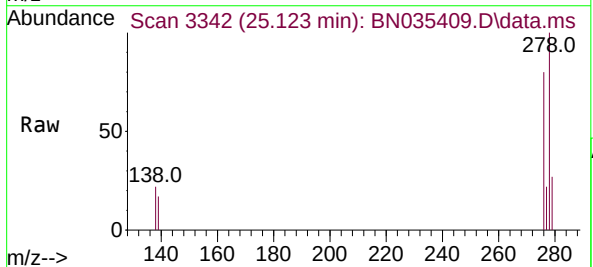
Tgt Ion:278 Resp: 8366

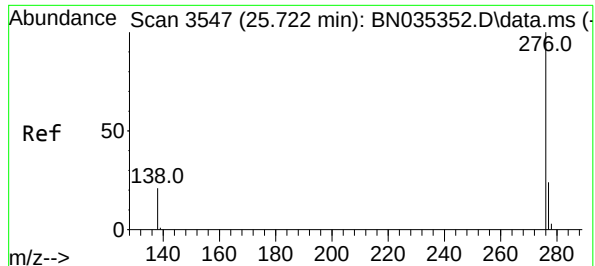
Ion Ratio Lower Upper

278 100

139 17.2 14.2 21.4

279 26.8 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 25.719 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035409.D

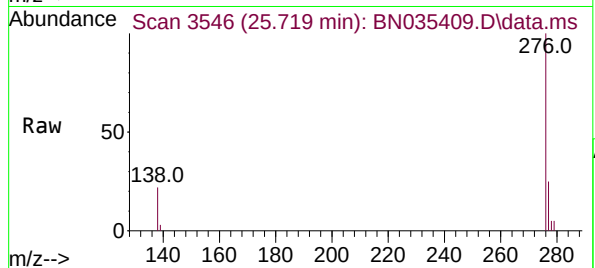
Acq: 03 Dec 2024 18:48

Instrument :

BNA_N

ClientSampleId :

PB165348BSD



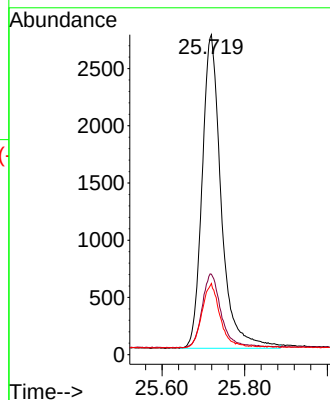
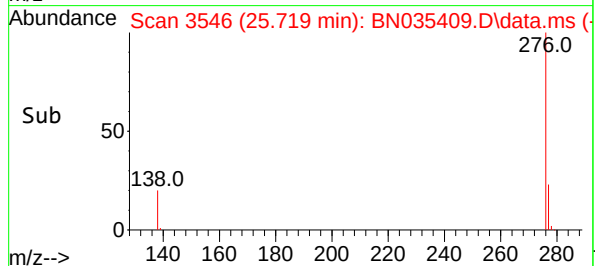
Tgt Ion:276 Resp: 8782

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

138 22.2 17.8 26.8



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

Manual Integration Report

Sequence:

BN120424

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035406.D	Nitrobenzene-d5	yogesh	12/5/2024 5:46:09 AM	mohammad	12/5/2024 6:08:14 AM	Peak Integrated by Software
P5065-04	BN035410.D	Nitrobenzene-d5	yogesh	12/5/2024 5:46:11 AM	mohammad	12/5/2024 6:08:14 AM	Peak Integrated by Software
P5065-05	BN035411.D	Nitrobenzene-d5	yogesh	12/5/2024 5:46:12 AM	mohammad	12/5/2024 6:08:14 AM	Peak Integrated by Software
SSTDCCC0.4	BN035413.D	Nitrobenzene-d5	yogesh	12/5/2024 5:46:14 AM	mohammad	12/5/2024 6:08:14 AM	Peak Integrated by Software

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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	SSTDIC0.1	BN035350.D	27 Nov 2024 15:34	RC/JU	Ok,M
3	SSTDIC0.2	BN035351.D	27 Nov 2024 16:10	RC/JU	Ok,M
4	SSTDIC0.4	BN035352.D	27 Nov 2024 16:46	RC/JU	Ok,M
5	SSTDIC0.8	BN035353.D	27 Nov 2024 17:21	RC/JU	Ok
6	SSTDIC1.6	BN035354.D	27 Nov 2024 17:57	RC/JU	Ok
7	SSTDIC3.2	BN035355.D	27 Nov 2024 18:33	RC/JU	Ok
8	SSTDIC5.0	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	SSTDIC0.4	BN035366.D	28 Nov 2024 02:20	RC/JU	Ok,M
19	DFTPP	BN035367.D	28 Nov 2024 03:35	RC/JU	Ok
20	SSTDIC0.4	BN035368.D	28 Nov 2024 04:51	RC/JU	Ok,M
21	PB165198BL	BN035369.D	28 Nov 2024 05:27	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN120424

Review By	Jagrut	Review On	12/4/2024 2:52:48 PM
Supervise By	mohammad	Supervise On	12/5/2024 6:08:14 AM
SubDirectory	BN120424	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	BN035405.D	03 Dec 2024 15:56	RC/JU	Ok
2	SSTDCCC0.4	BN035406.D	03 Dec 2024 16:35	RC/JU	Ok,M
3	PB165348BL	BN035407.D	03 Dec 2024 17:37	RC/JU	Ok
4	PB165348BS	BN035408.D	03 Dec 2024 18:13	RC/JU	Ok
5	PB165348BSD	BN035409.D	03 Dec 2024 18:48	RC/JU	Ok
6	P5065-04	BN035410.D	03 Dec 2024 19:24	RC/JU	Ok,M
7	P5065-05	BN035411.D	03 Dec 2024 20:00	RC/JU	Ok,M
8	P5065-06	BN035412.D	03 Dec 2024 20:36	RC/JU	Ok
9	SSTDCCC0.4	BN035413.D	03 Dec 2024 21:11	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN120424

Review By	Jagrut	Review On	12/4/2024 2:52:48 PM
Supervise By	mohammad	Supervise On	12/5/2024 6:08:14 AM
SubDirectory	BN120424	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	BN035405.D	03 Dec 2024 15:56		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035406.D	03 Dec 2024 16:35		RC/JU	Ok,M
3	PB165348BL	PB165348BL	BN035407.D	03 Dec 2024 17:37		RC/JU	Ok
4	PB165348BS	PB165348BS	BN035408.D	03 Dec 2024 18:13		RC/JU	Ok
5	PB165348BSD	PB165348BSD	BN035409.D	03 Dec 2024 18:48		RC/JU	Ok
6	P5065-04	RW7-SP200-20241202	BN035410.D	03 Dec 2024 19:24		RC/JU	Ok,M
7	P5065-05	RW7-SP201-20241202	BN035411.D	03 Dec 2024 20:00		RC/JU	Ok,M
8	P5065-06	RW7-SP300A-20241202	BN035412.D	03 Dec 2024 20:36		RC/JU	Ok
9	SSTDCCC0.4	SSTDCCC0.4EC	BN035413.D	03 Dec 2024 21:11		RC/JU	Ok,M

M : Manual Integration

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 Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 12/03/2024

Extraction Start Time : 12:30

Extraction End Date : 12/03/2024

Extraction End Time : 17:25

Concentration By: EH

Supervisor By : rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6606
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	E3829
Baked Na2SO4	N/A	EP2570
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

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/3/24	RP (Ext. Lab)	AC/SVOC
17:30	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 12/03/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165348BL	SBLK348	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			SEP-01
PB165348BS	SLCS348	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			2
PB165348BS D	SLCSD348	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			3
P5065-04	RW7-SP200-20241202	SVOC-SIMGrou p1	970	6	ritesh	rajesh	1			4
P5065-05	RW7-SP201-20241202	SVOC-SIMGrou p1	980	6	ritesh	rajesh	1			5
P5065-06	RW7-SP300A-20241202	SVOC-SIMGrou p1	990	6	ritesh	rajesh	1			6

* Extracts relinquished on the same date as received.

12/3/24

P5065-SVOC-SIMGroup1

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p5065 WorkList ID : 185929 Department : Extraction Date : 12-03-2024 12:27:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5065-04	RW7-SP200-20241202	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/02/2024	8270-Modified
P5065-05	RW7-SP201-20241202	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/02/2024	8270-Modified
P5065-06	RW7-SP300A-20241202	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/02/2024	8270-Modified

Date/Time 12/3/24 12:28
Raw Sample Received by: RS (Sat 143)
Raw Sample Relinquished by: 50 csm

Date/Time 12/3/24 12:50
Raw Sample Received by: JDCsm
Raw Sample Relinquished by: RSC (Sat 143)

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- 18

Prep Standard - Chemical Standard Summary

Order ID : P5065
Test : SVOC-SIMGroup1
Prepbatch ID : PB165348,
Sequence ID/Qc Batch ID: BN120424,

Standard ID :
EP2559,EP2565,EP2570,SP6527,SP6573,SP6606,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3759,E3768,E3788,E3791,E3817,E3818,E3828,E3829,M5173,S10103,S10247,S 11011,S11074,S11097,S11494,S11771,S11831,S12029,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2570	12/02/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/02/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed
								08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 +
99.85840ml of E3788 = Final Quantity: 100.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/03/2024

FROM SOURCE
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE 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	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

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)	24J0862003	05/18/2025	11/18/2024 / Rajesh	11/04/2024 / Rajesh	E3829

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

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	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

[CS 4978-2]

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 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, CH ₂ Cl ₂ , 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, CH ₂ Cl ₂ , 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 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]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[CS 4978-1]

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]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

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]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

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

Page 1 of 1

Catalog No.: Z-112090 **Lot No.:** 440246 **Storage:** $\leq -10^{\circ}\text{C}$ **Solvent:** Methylene Chloride **Exp. Date:** 2/16/2026 **Description:** CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 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

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 gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG

Sheet 511096
to
511099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

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
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 gravimetrically.

Certificate of Analysis

Page 4 of 4

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
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 gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

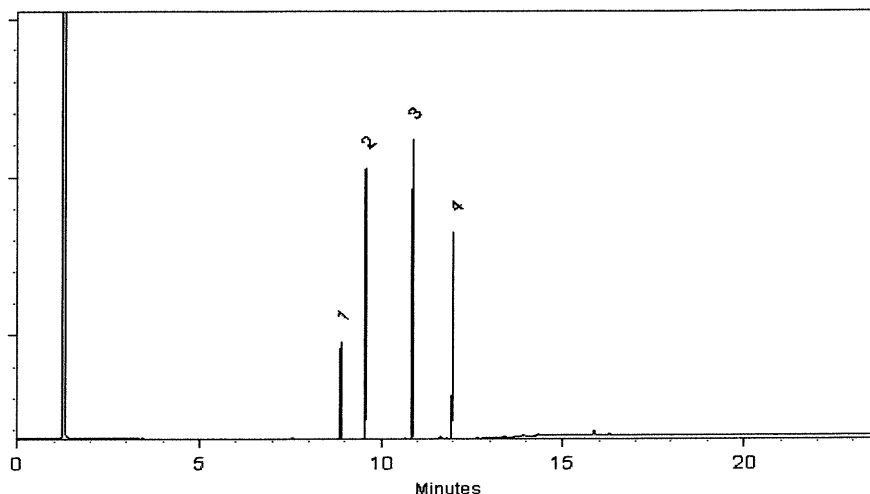
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene 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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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
02/08/23

b1

CG

S 11071

to

S 11075

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 CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 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:

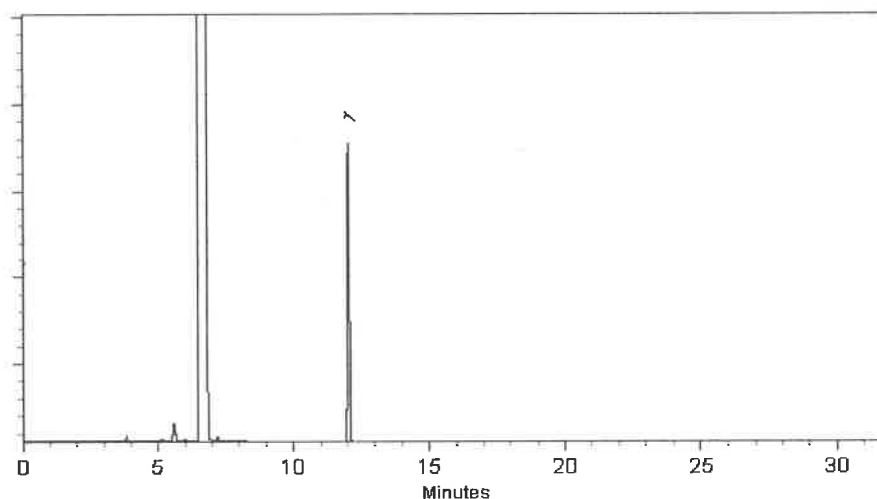
200°C

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



110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

Received on
01/13/23
by
CG
S11011
+0
S11015

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

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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
QUÍMICOS
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 ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO 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 foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



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:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

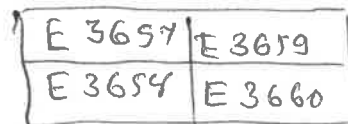
This document has been electronically produced and is valid without a signature.

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.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

J. Croak
Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 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

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Page 1 of 1

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



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) ₂ CO) (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
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



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 ₂ Cl 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
Titration 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

J. Croak

Janie 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

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Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantors



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) ₂ CO) (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
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 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

J. Croak

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™



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)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

11/6/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

 **avantors™**

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)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3829



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

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


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



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

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	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 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

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 gravimetrically.

Certified By: _____
Clint Tipton
Chemist



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



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:

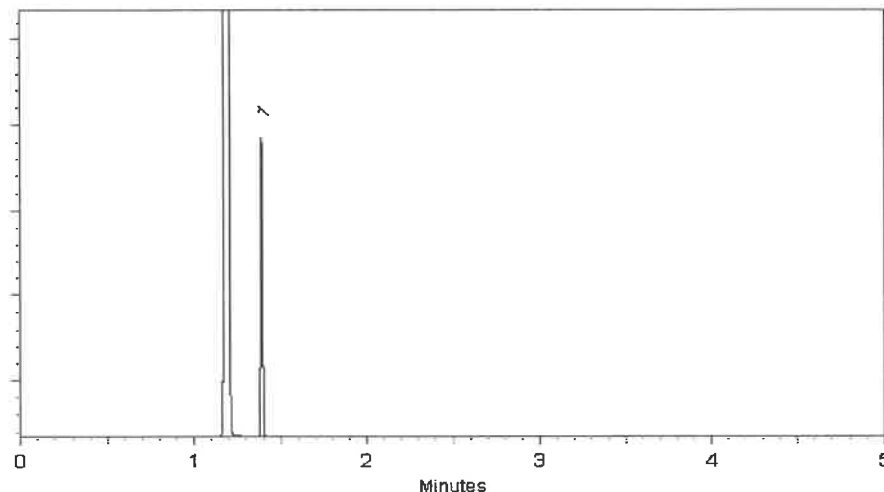
FID

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
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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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



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
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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:

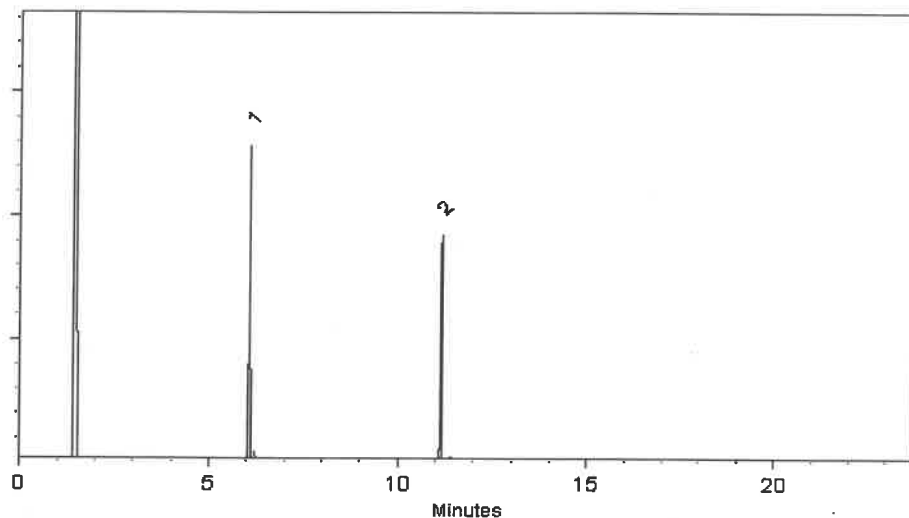
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

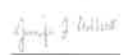


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0201320

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

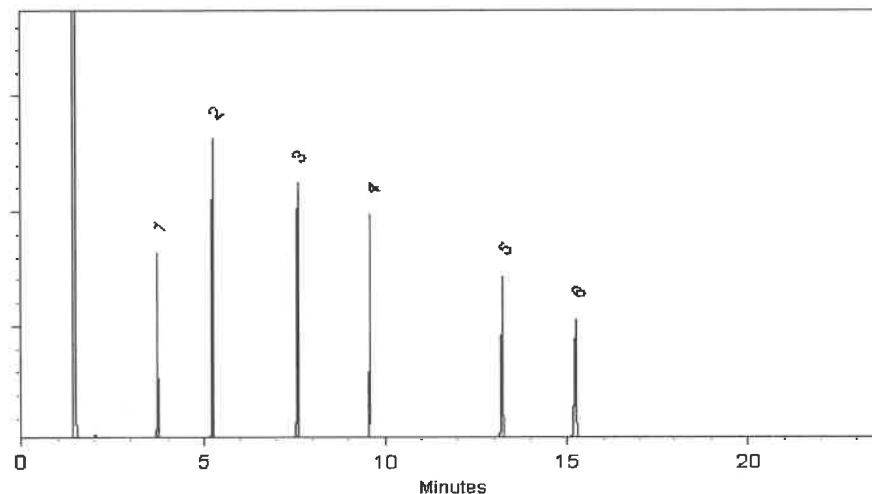
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



5580 Skylane Blvd
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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 } RC
↓
S12079 } 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 gravimetrically.



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Page 1 of 1

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 } RC
↓
S12079 } 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 gravimetrically.



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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

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 : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

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%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Page 1 of 1

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

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

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 gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

512117 } RC/
↓ 03/18/24
512146 }

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	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
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	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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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

512117 } RC/
↓ 03/18/24
512146 }

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	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
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	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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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

512187 } RC/
↓
512206 } 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:

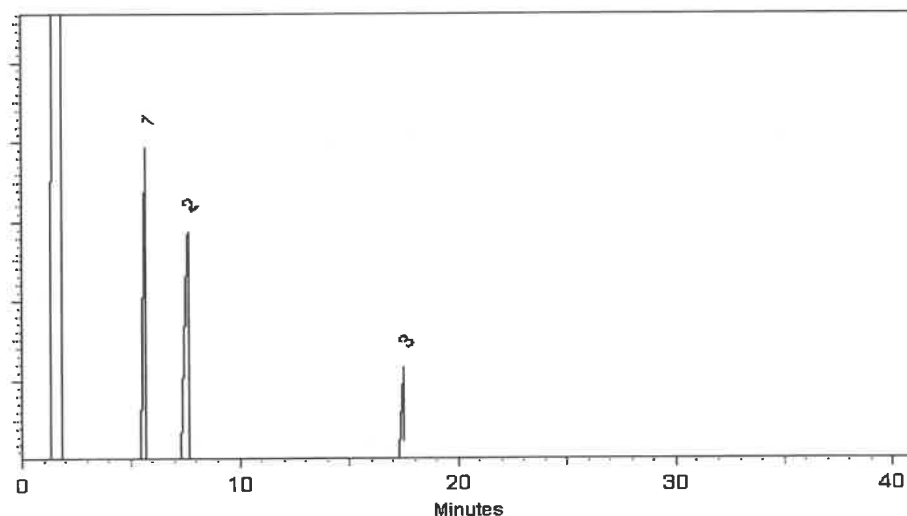
FID

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 A. Riglin

Penelope Riglin - Operations Tech I

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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 } RC/
↓
S12221 } 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-S (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:

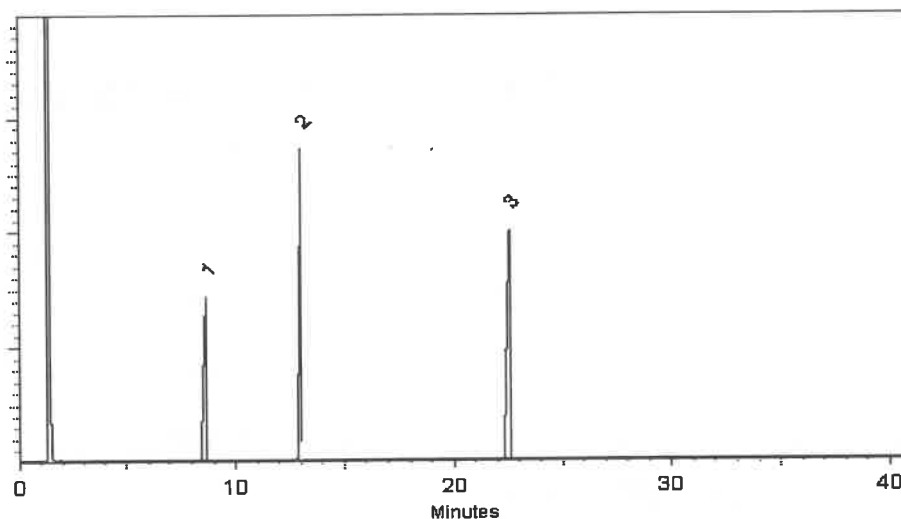
FID

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
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 } RC/
↓
S12221 } 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-S (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:

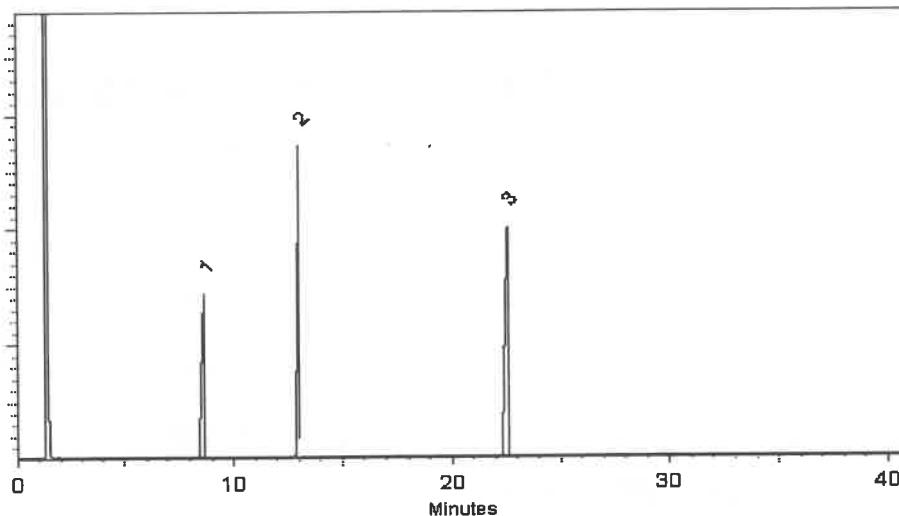
FID

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

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** 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

S12312 } RC/
↓ 05/30/24
S12331

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:

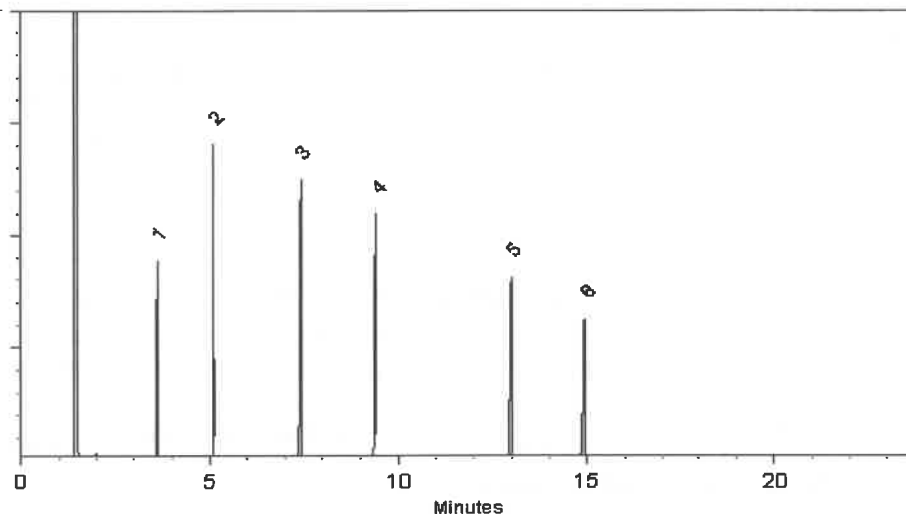
FID

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
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** 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

S12312 } RC/
↓ 05/30/24
S12331

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:

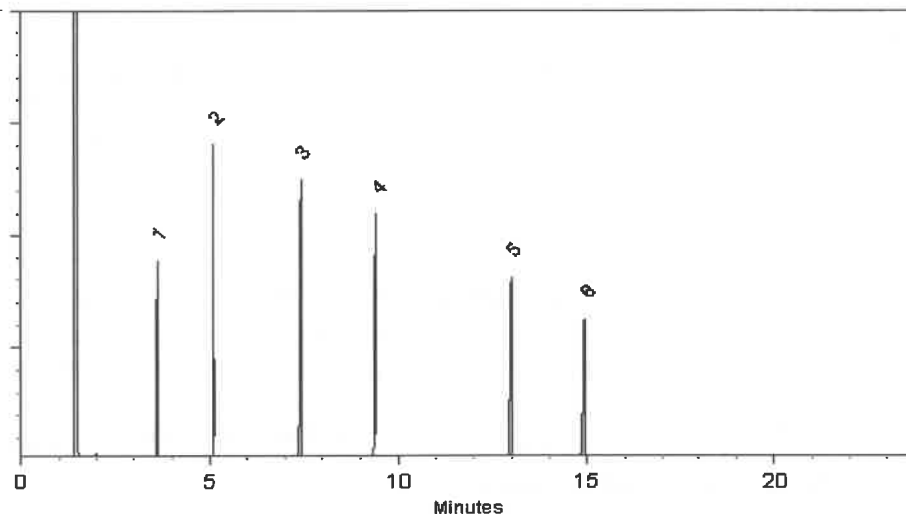
FID

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
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



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 } RC/
↓
S12508 } 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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 } RC/
↓
S12568 } 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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

- 1
- 2
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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: P5065	
				COC Number:	
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: PO#	
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: RW7B		ADDRESS:	
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:	
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION: PHONE:	
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148			
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS	
FAX: _____ 48 hrs _____ DAYS* HARD COPY: _____ 48 hrs _____ DAYS* EDD _____ 48 hrs _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		1,4-Dioxane SW646 8270 SM	
				PRESERVATIVES	
				COMMENTS	
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP GRAB	SAMPLE COLLECTION DATE TIME	# of Bottles
1.	RW7-SP200-20241202	GW		12/2/24 14:25	1
2.	RW7-SP201-20241202	GW		12/2/24 14:27	1
3.	RW7-SP300A-20241202	GW		12/2/24 14:29	1
4.					
5.					
6.					
7.					
8.					
9.					
10.					

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.1°C MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler? YES Comments:		
1.	12/4/24/15	1.			
RELINQUISHED BY	DATE/TIME	RECEIVED BY			
2.	9:50	2.	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight		
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY			
3.	12-3-24	3.	Page _____ of _____		
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	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

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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

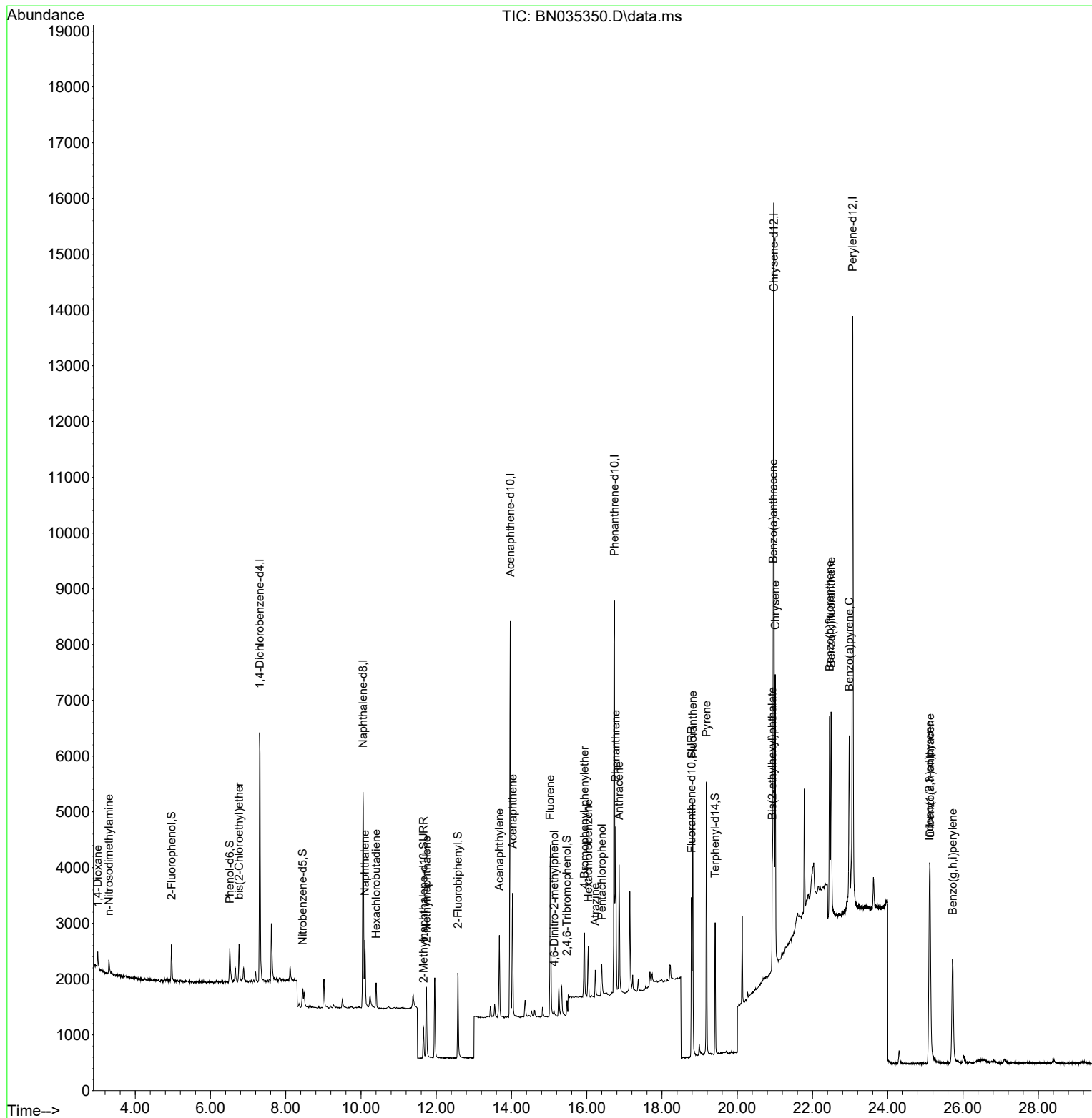
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng	0.00
29) Chrysene-d12	20.974	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						
2) 1,4-Dioxane	3.003	88	227	0.112	ng	Qvalue 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

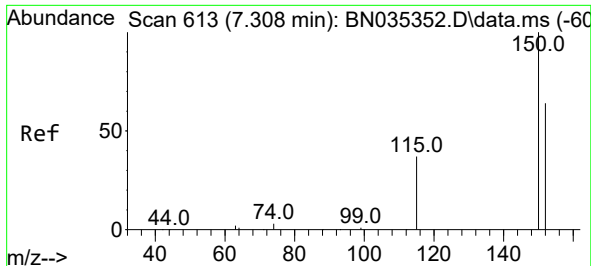
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

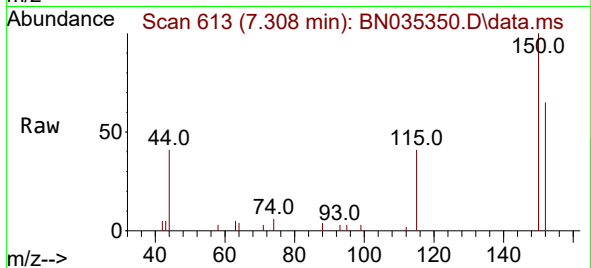
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



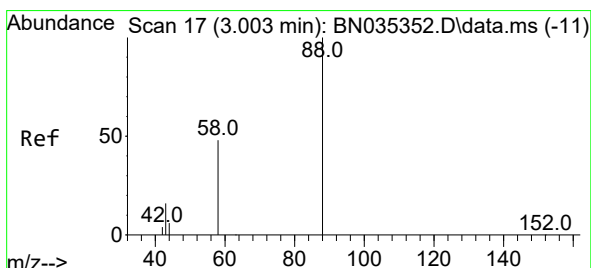
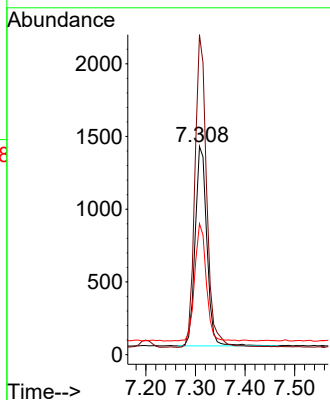
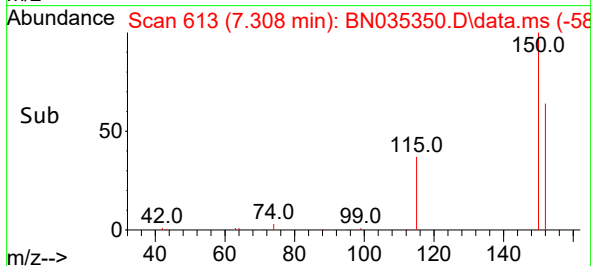


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

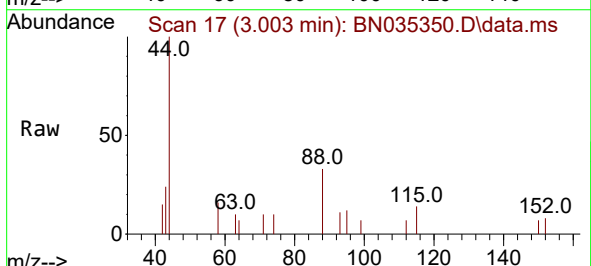
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



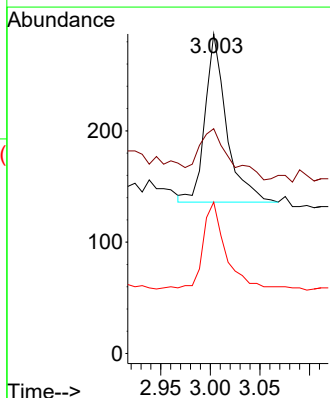
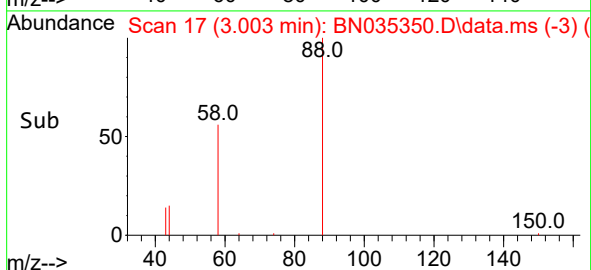
Tgt Ion:152 Resp: 2237
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.8 49.6 74.4

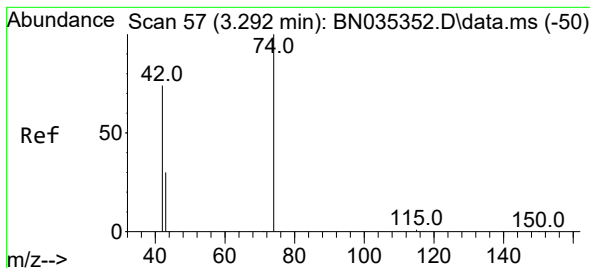


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



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

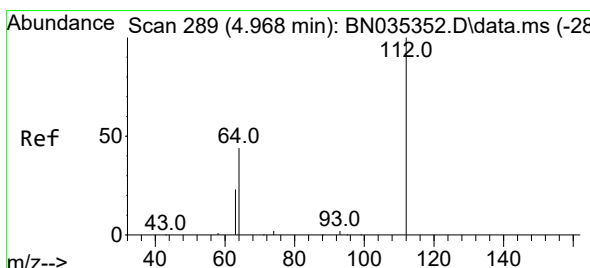
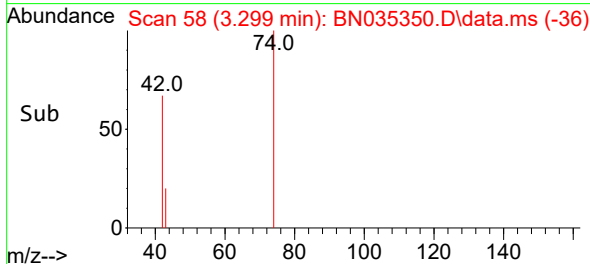
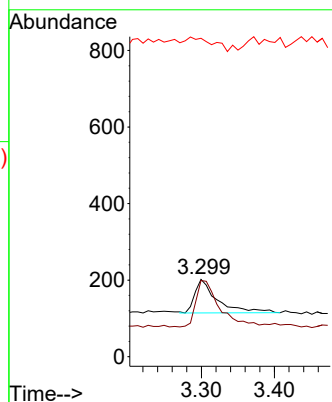
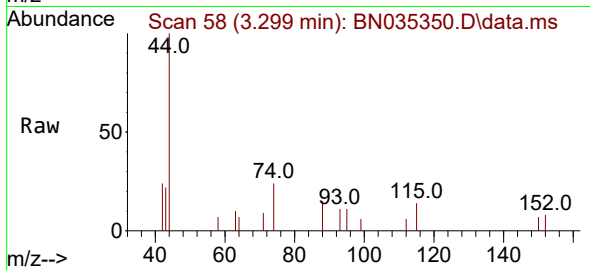




#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

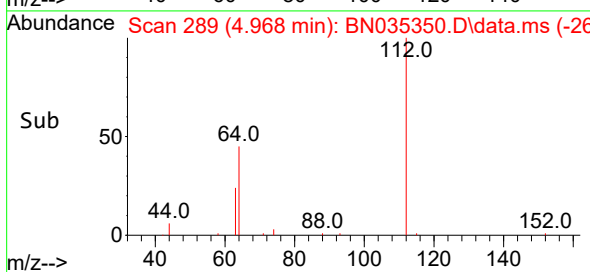
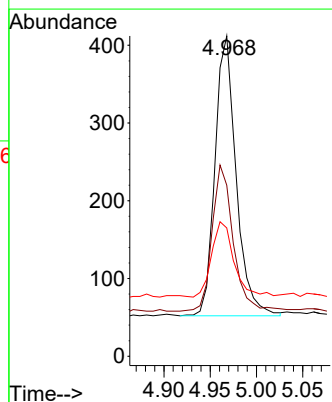
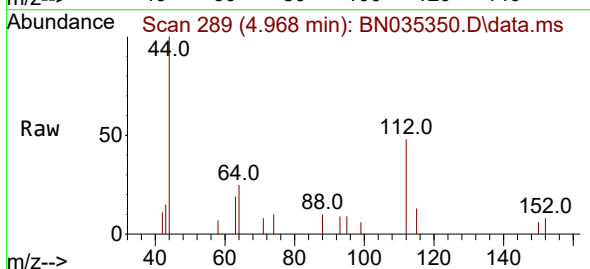
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

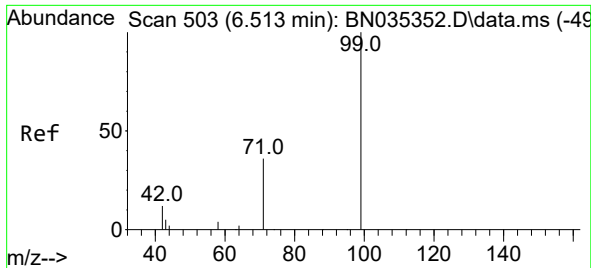
Tgt Ion: 42 Resp: 187
Ion Ratio Lower Upper
42 100
74 146.5 124.9 187.3
44 51.9 2.2 3.4#



#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

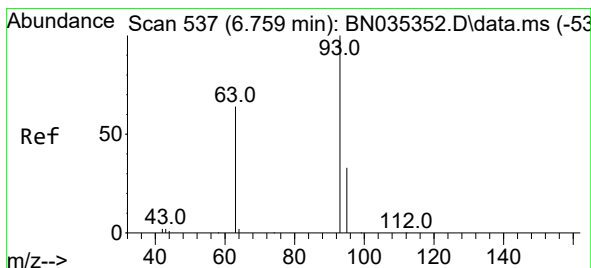
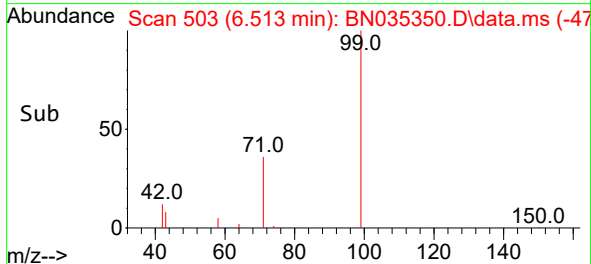
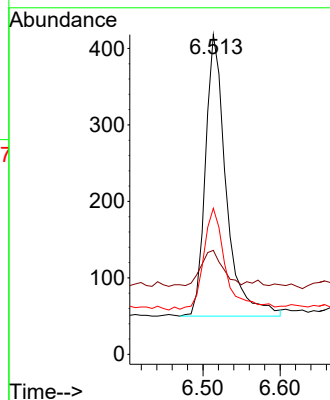
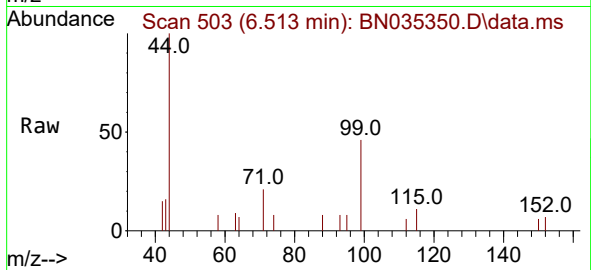




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

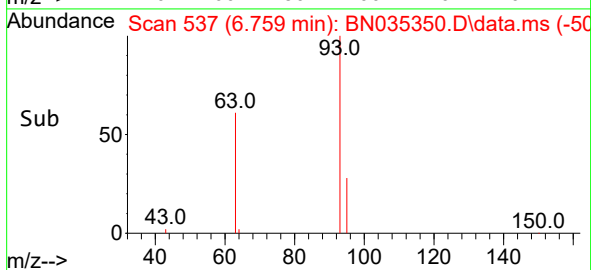
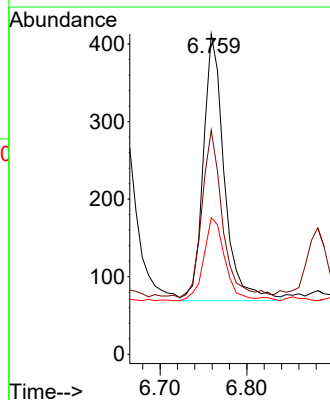
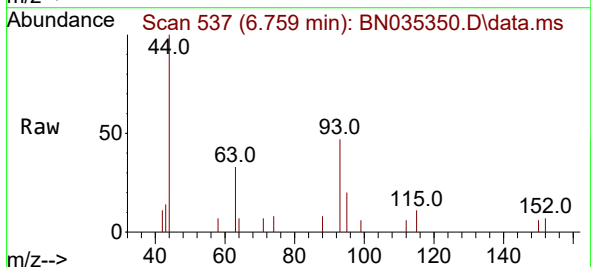
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

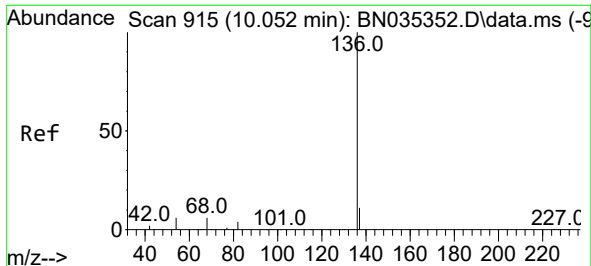
Tgt Ion:	99	Resp:	686
Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9



#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

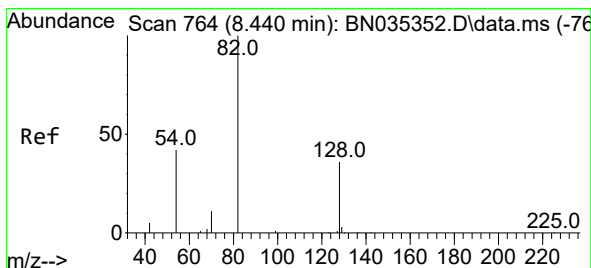
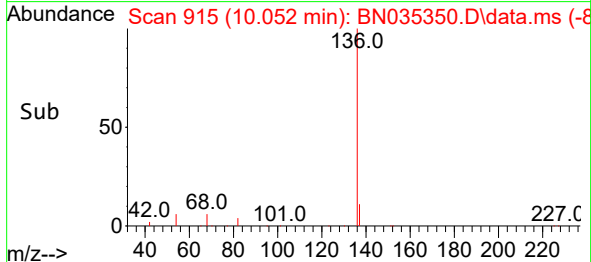
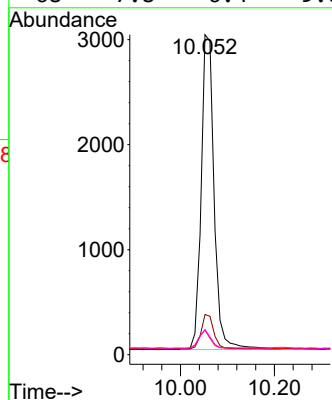
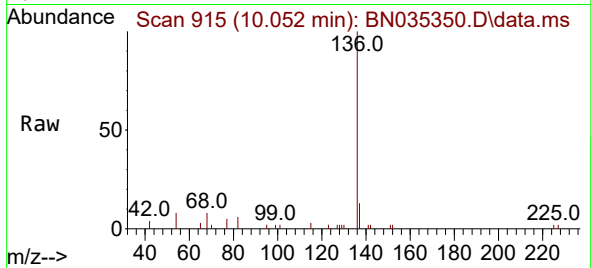




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

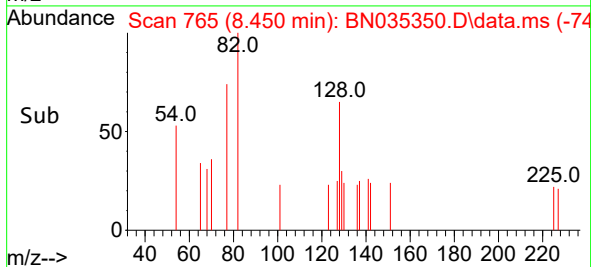
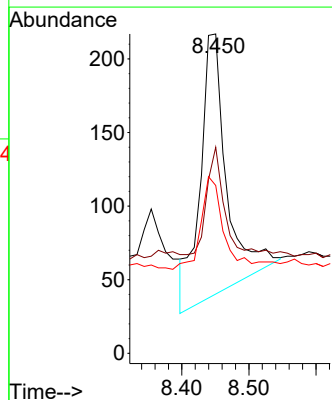
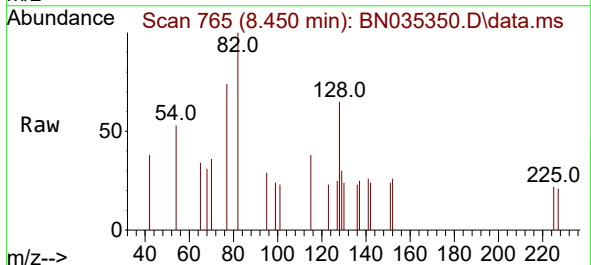
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

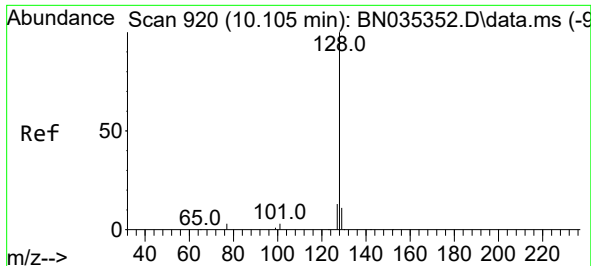
Tgt Ion:	136	Resp:	5753
Ion Ratio	Lower	Upper	
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6



#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

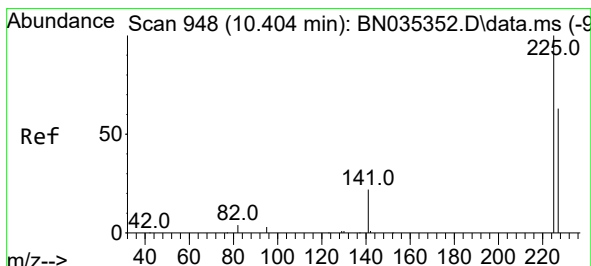
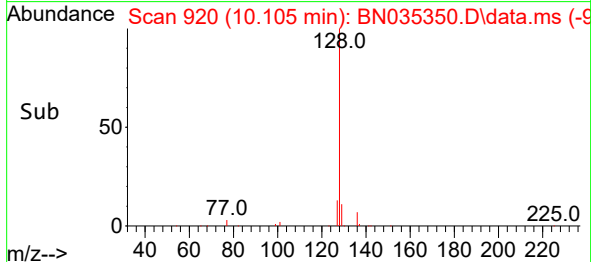
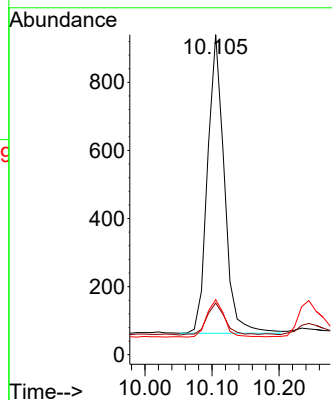
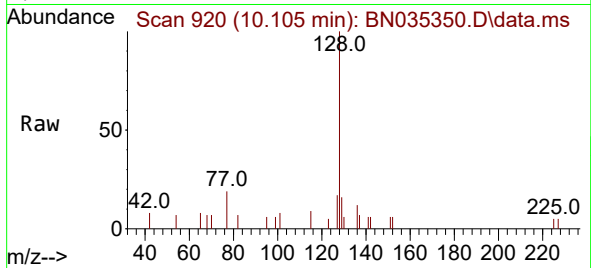




#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 912
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

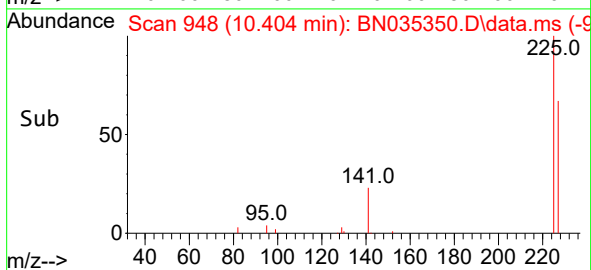
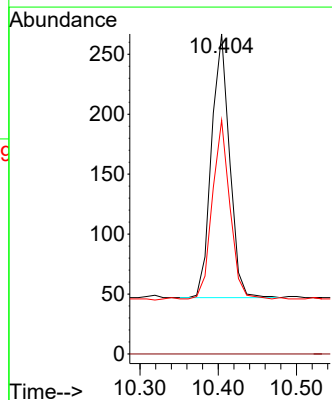
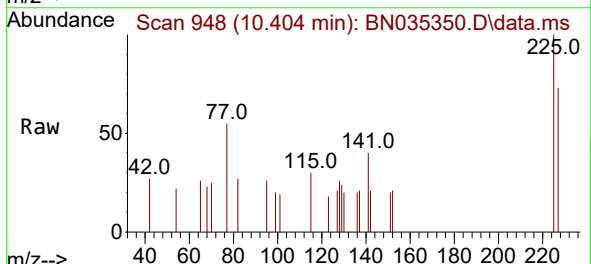
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

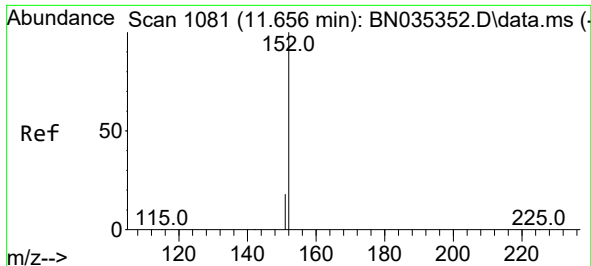
Tgt Ion:128 Resp: 1527
Ion Ratio Lower Upper
128 100
129 16.2 9.8 14.6#
127 17.2 11.4 17.2#



#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

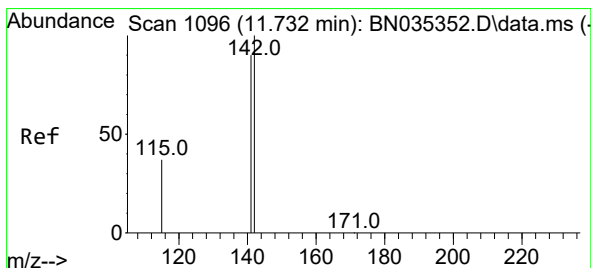
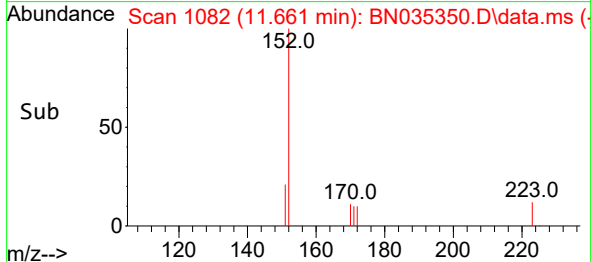
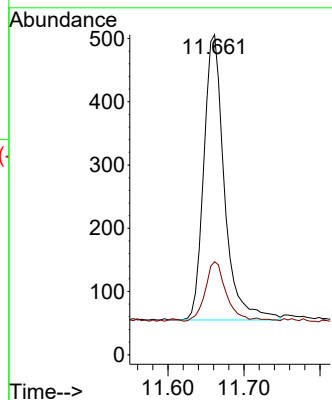
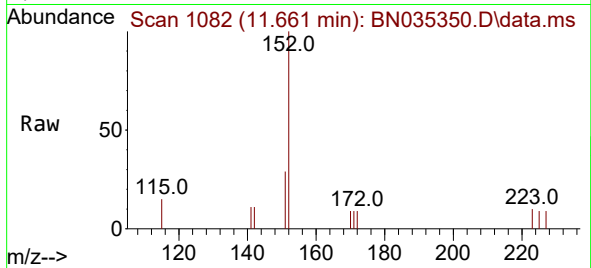




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1082
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

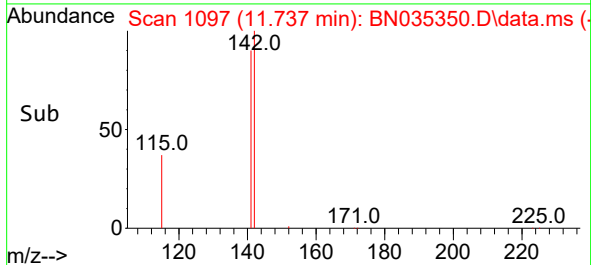
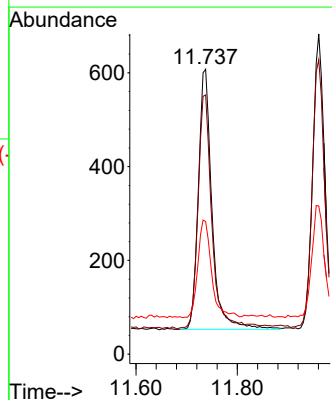
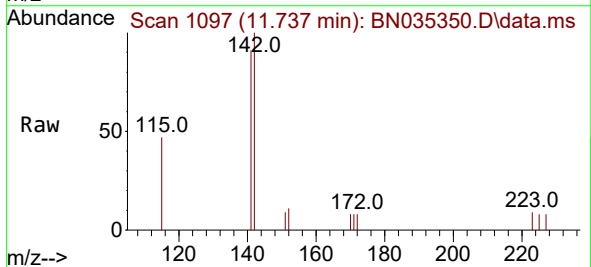
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

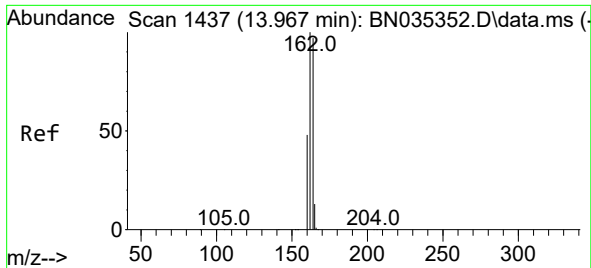
Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0



#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

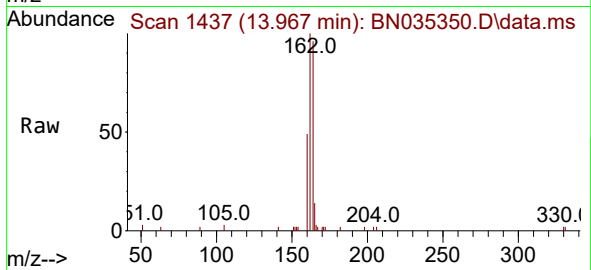
Tgt Ion:142 Resp: 1042
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 46.5 31.4 47.0



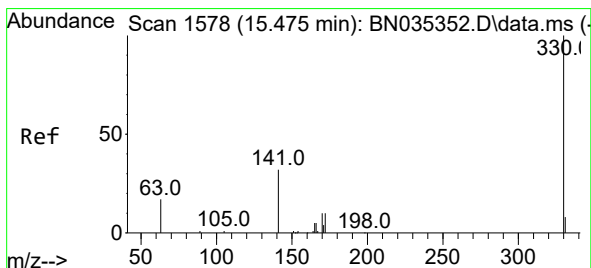
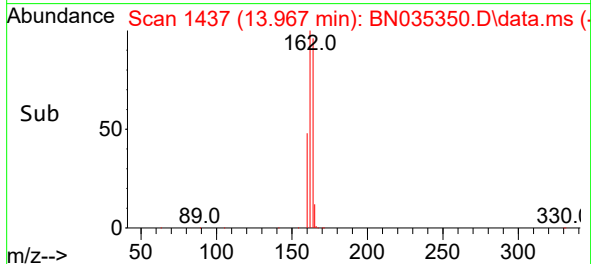
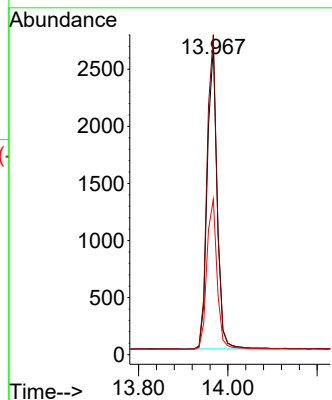


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

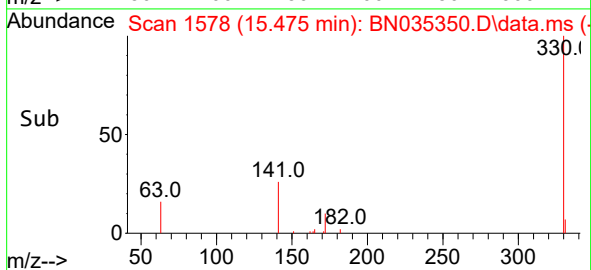
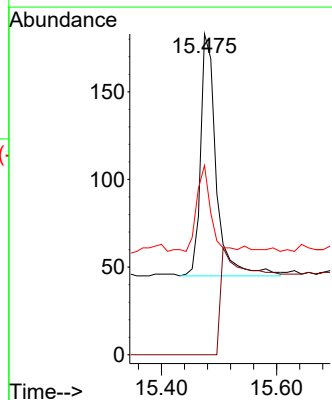
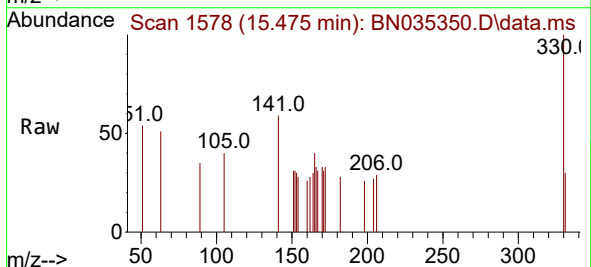


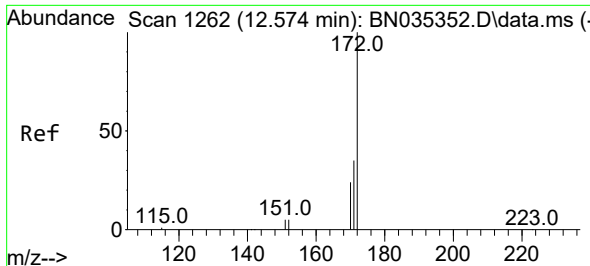
Tgt Ion:164 Resp: 4077
Ion Ratio Lower Upper
164 100
162 103.9 82.2 123.2
160 50.4 40.1 60.1



#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

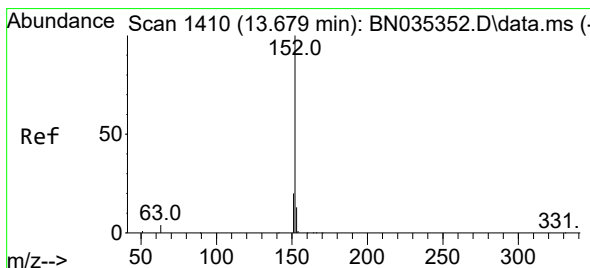
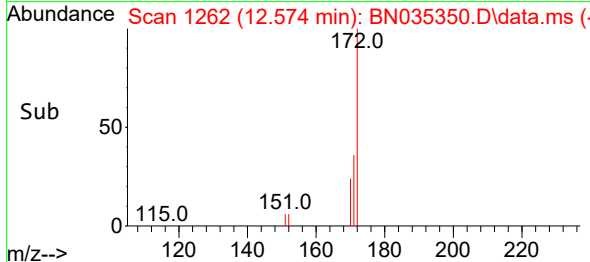
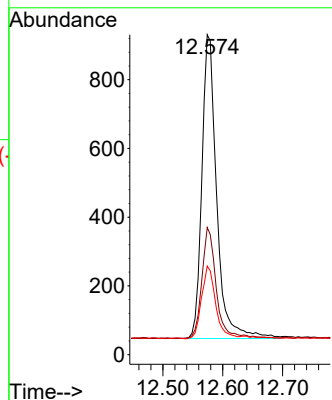
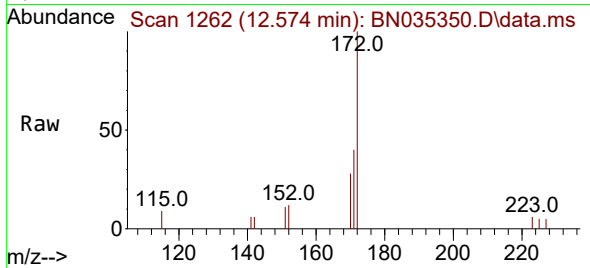




#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

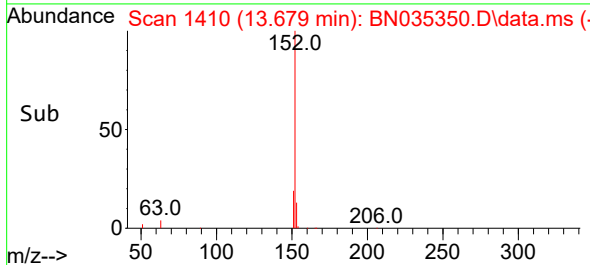
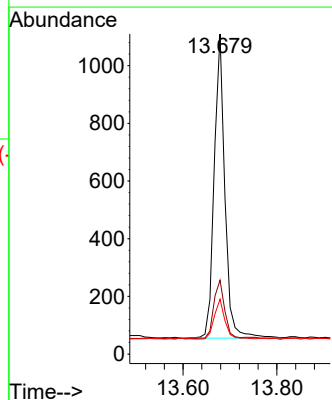
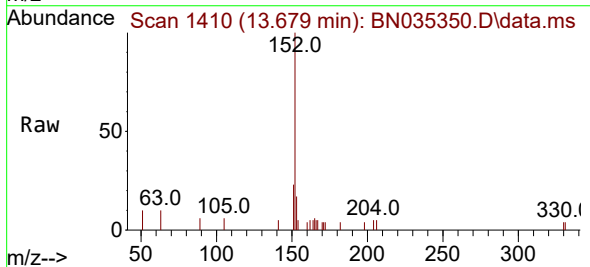
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

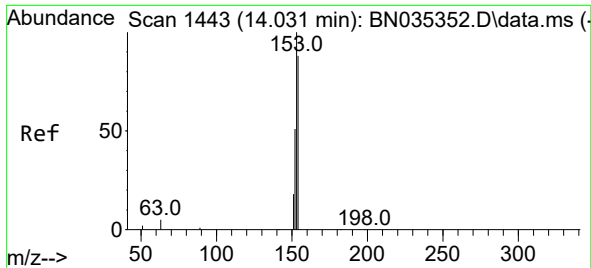
Tgt Ion:172	Resp:	1518
Ion Ratio	Lower	Upper
172	100	
171	39.7	29.0 43.4
170	27.7	19.8 29.8



#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

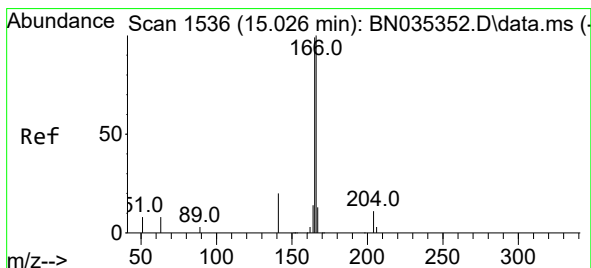
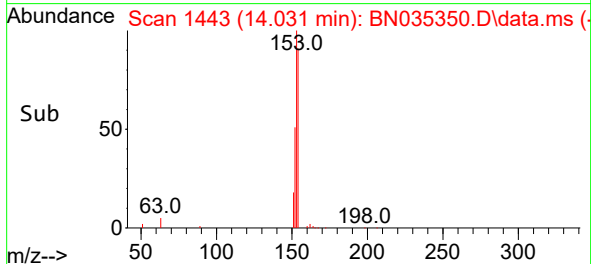
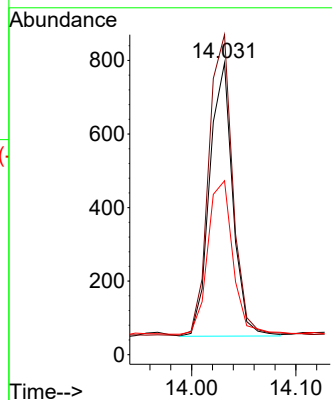
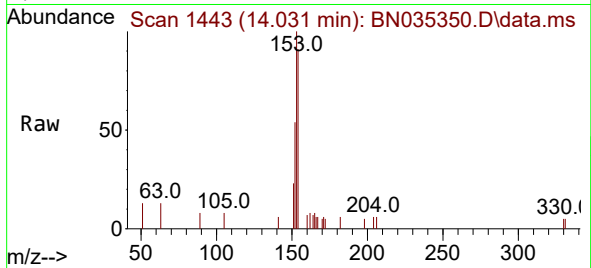




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

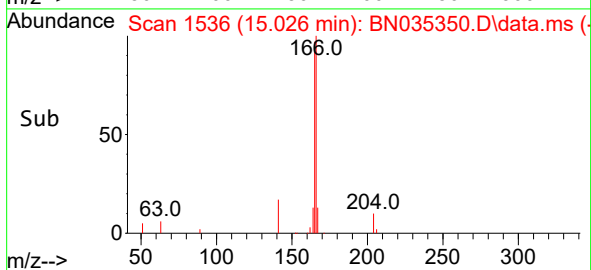
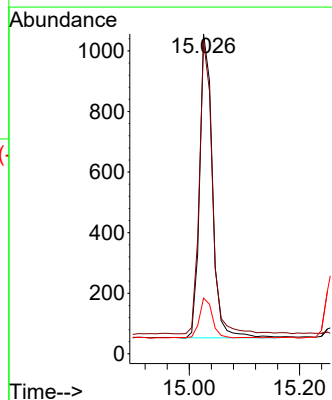
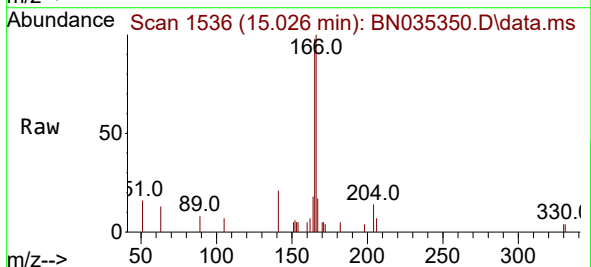
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

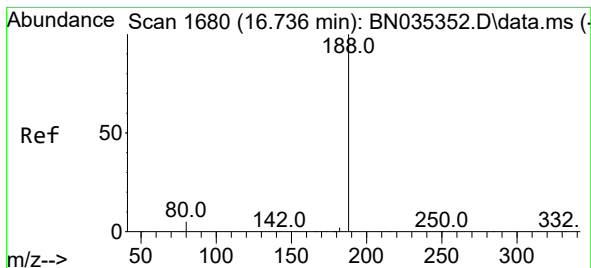
Tgt Ion:154 Resp: 1143
Ion Ratio Lower Upper
154 100
153 115.0 92.6 139.0
152 60.9 49.0 73.6



#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

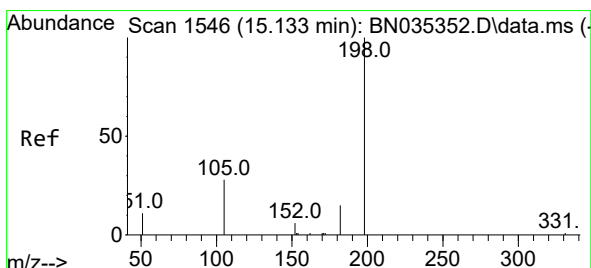
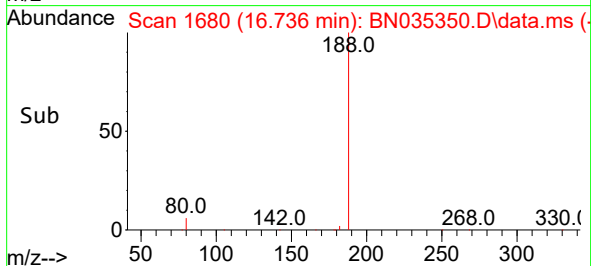
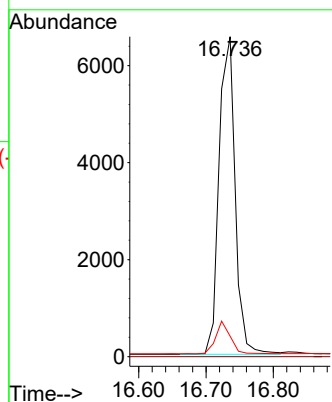
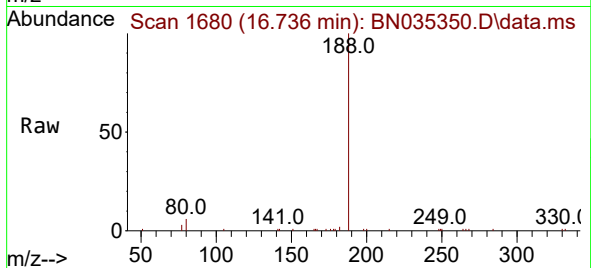
Tgt Ion:188 Resp: 10855

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

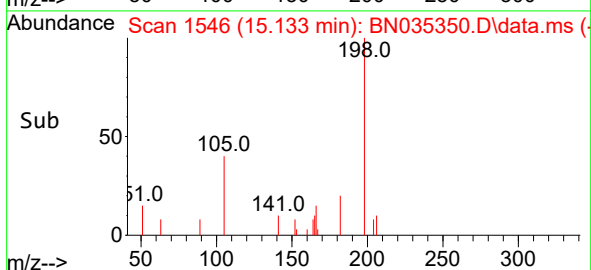
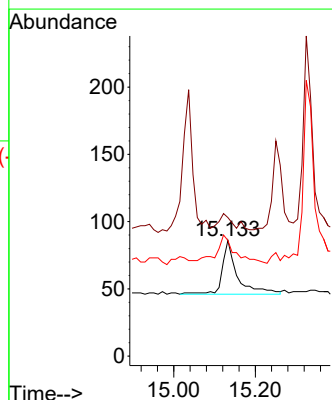
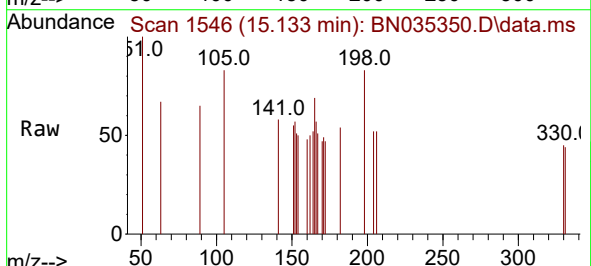
Tgt Ion:198 Resp: 103

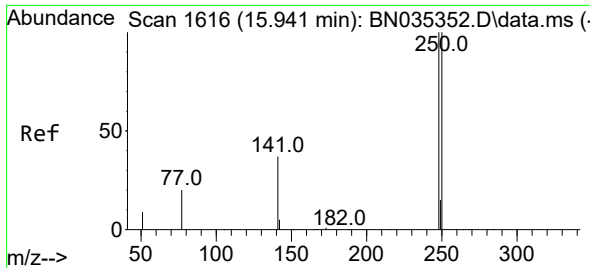
Ion Ratio Lower Upper

198 100

51 119.8 46.5 69.7#

105 100.0 45.3 67.9#

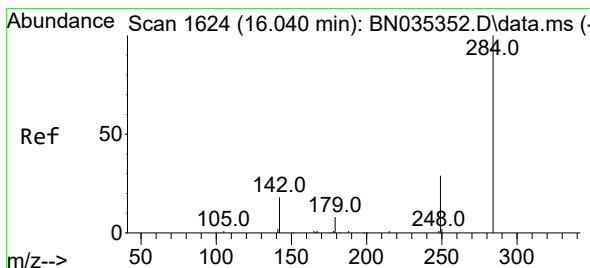
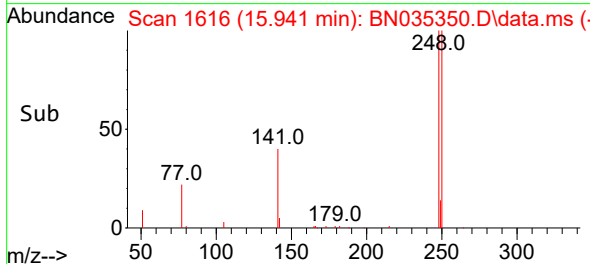
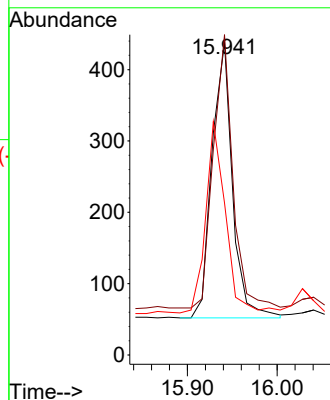
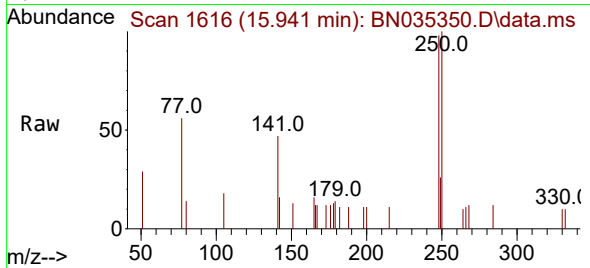




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

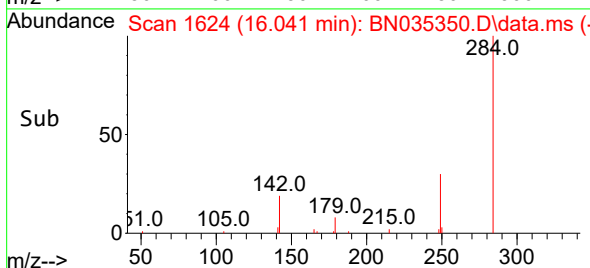
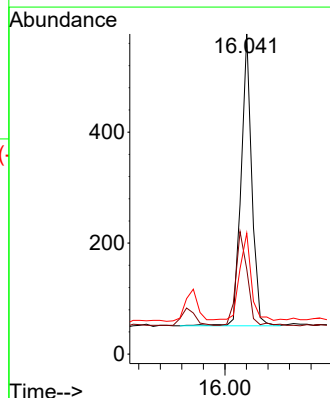
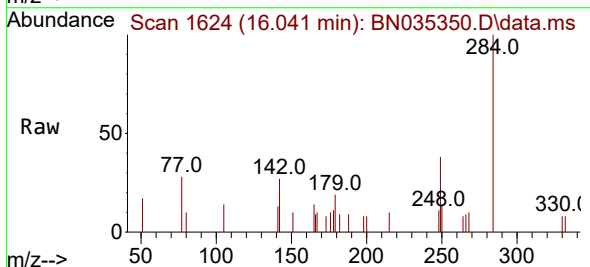
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

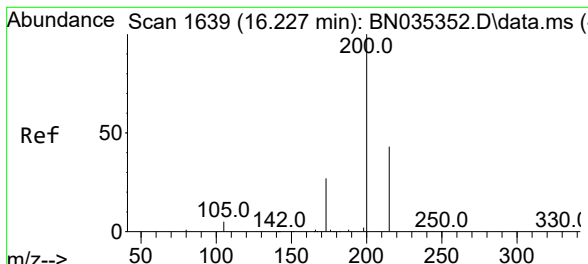
Tgt Ion:	248	Resp:	612
Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.6	120.8
141	48.6	31.5	47.3#



#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

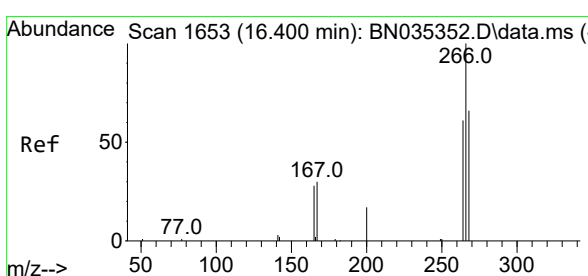
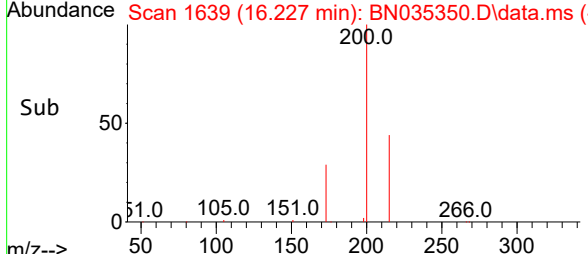
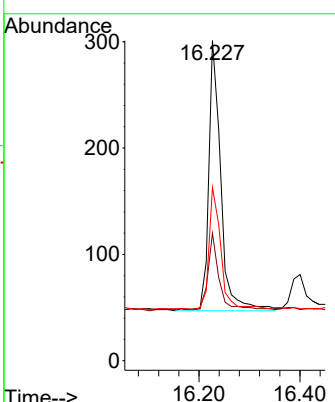
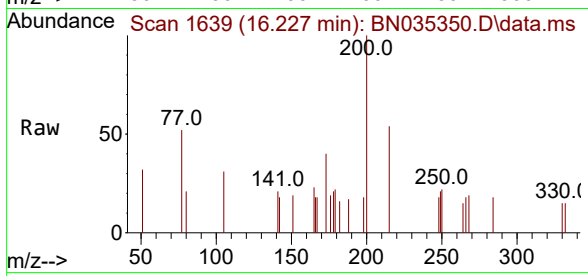




#23
 Atrazine
 Concen: 0.068 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

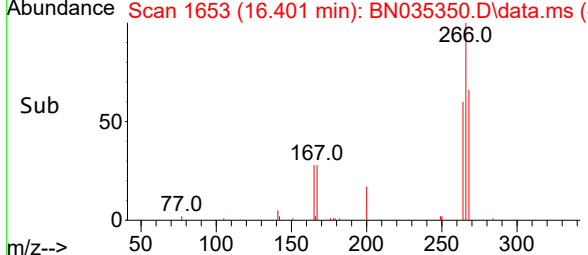
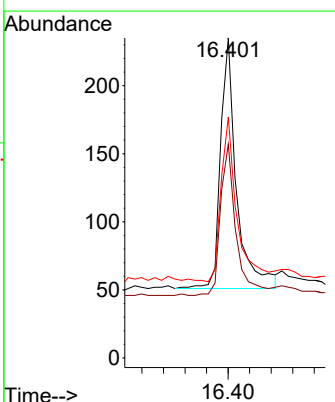
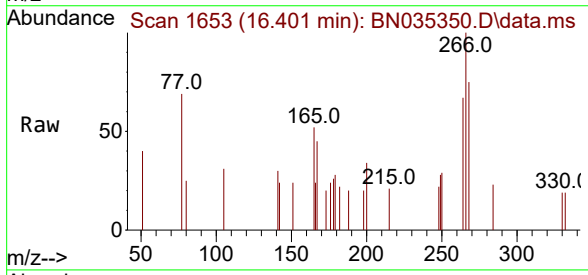
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

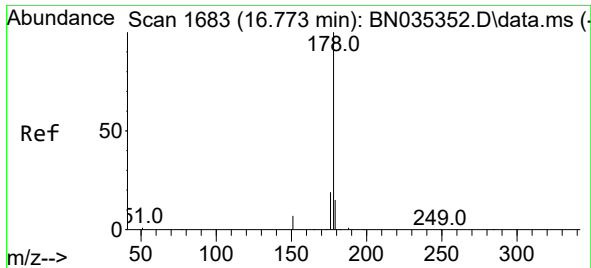
Tgt Ion:	200	Resp:	421
Ion Ratio	Lower	Upper	
200	100		
173	39.9	24.1	36.1
215	54.2	36.9	55.3



#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

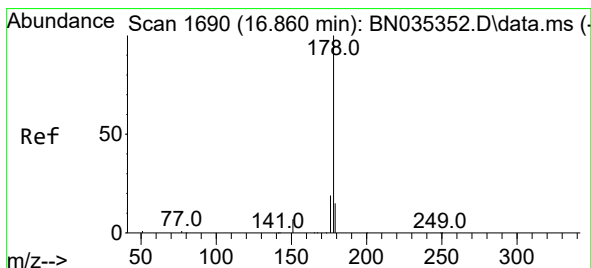
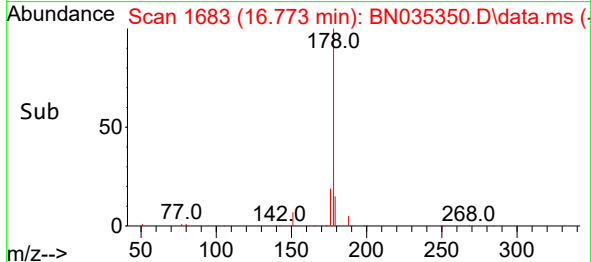
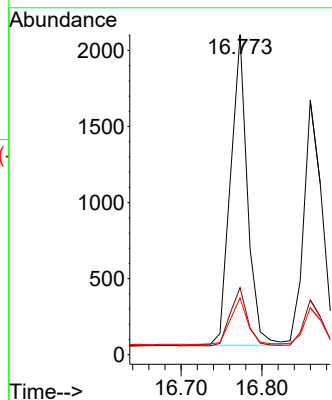
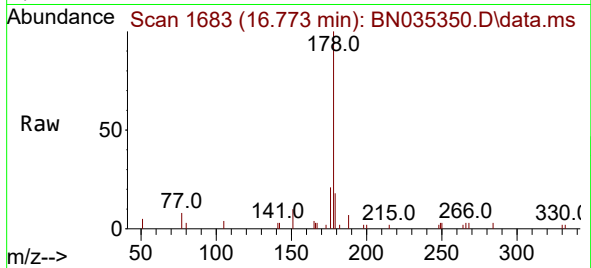




#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

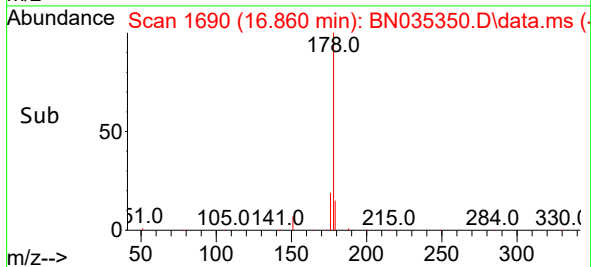
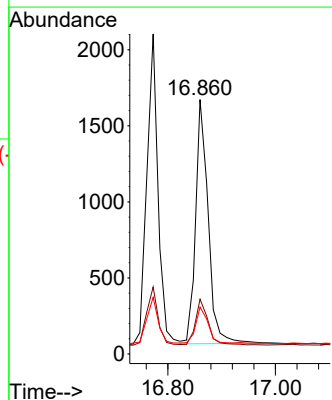
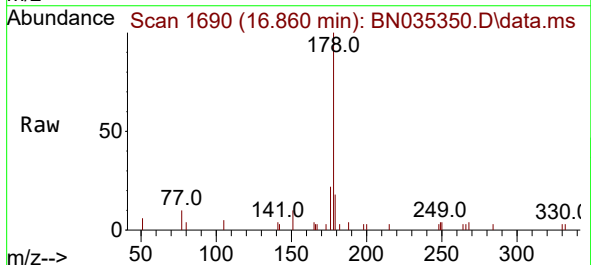
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

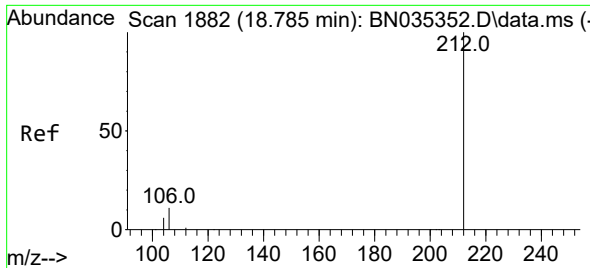
Tgt Ion:178 Resp: 2963
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.6 12.3 18.5



#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

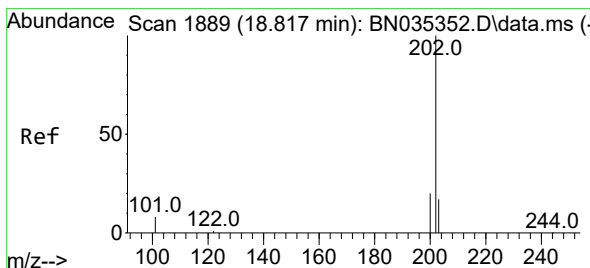
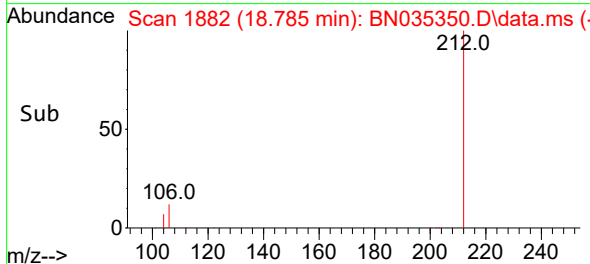
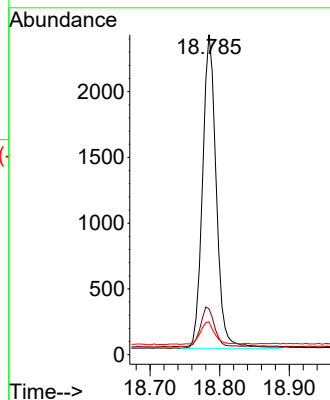
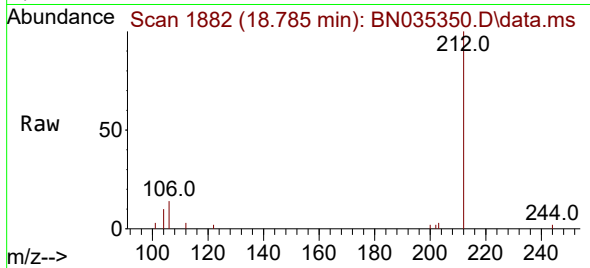




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

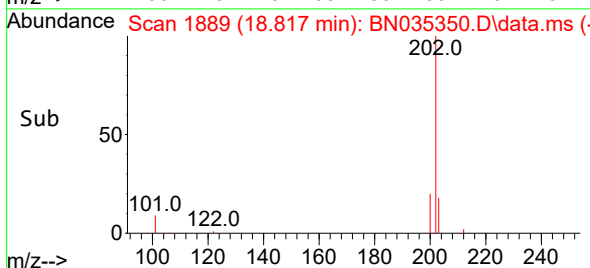
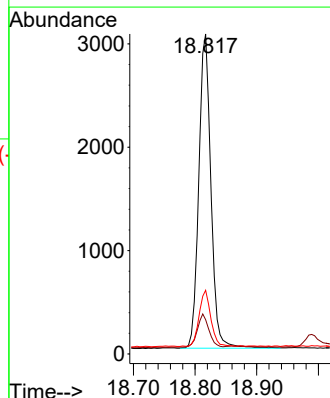
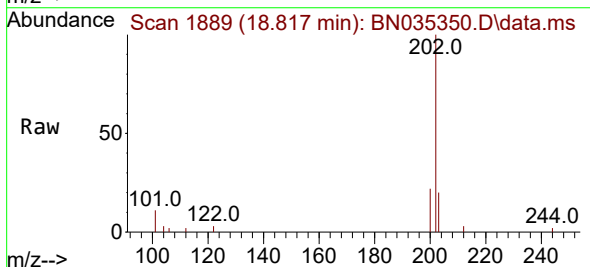
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

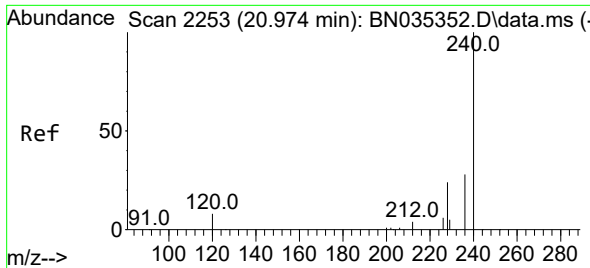
Tgt Ion:212 Resp: 3265
Ion Ratio Lower Upper
212 100
106 12.8 9.2 13.8
104 7.6 5.3 7.9



#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

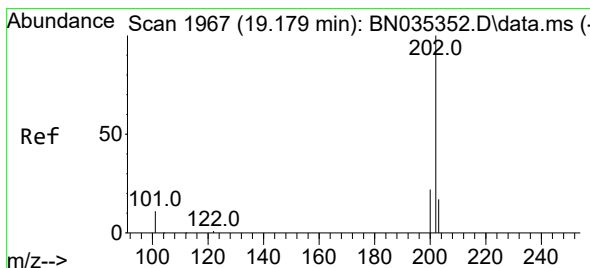
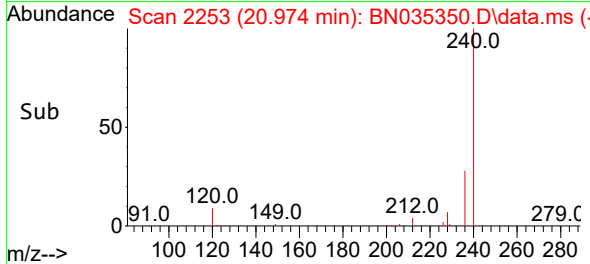
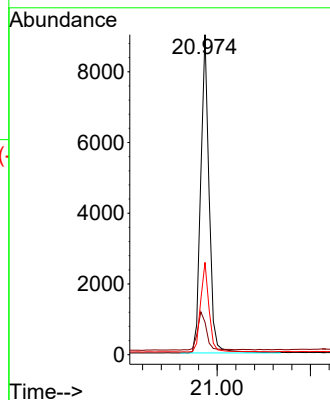
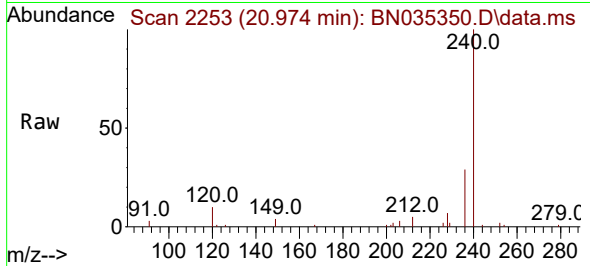




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

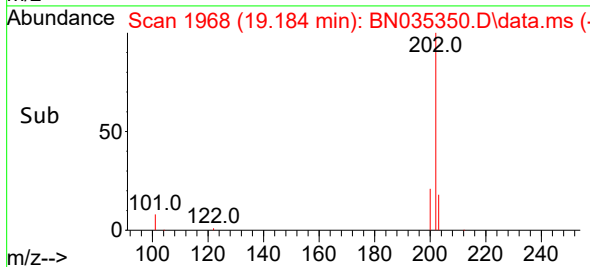
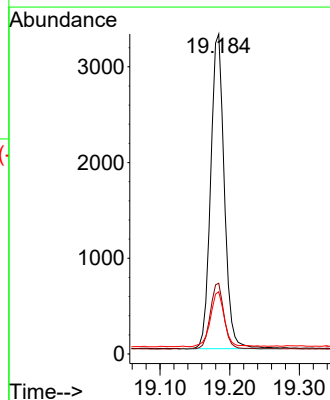
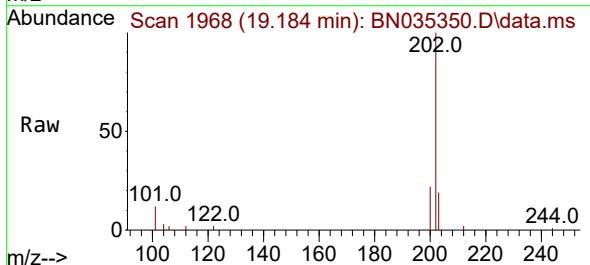
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

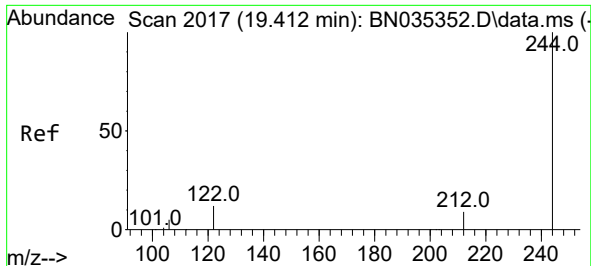
Tgt Ion:240 Resp: 11269
Ion Ratio Lower Upper
240 100
120 10.1 7.9 11.9
236 28.8 22.9 34.3



#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

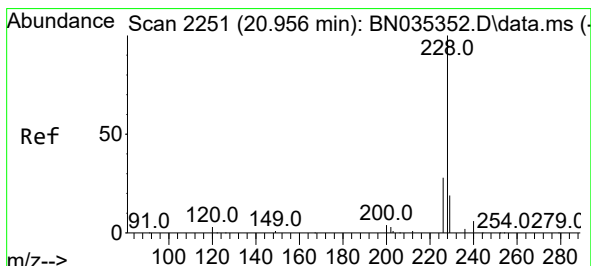
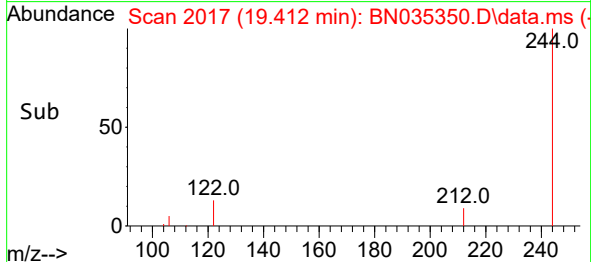
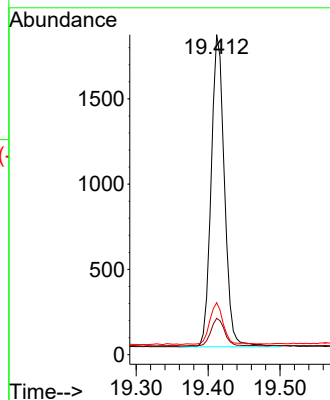
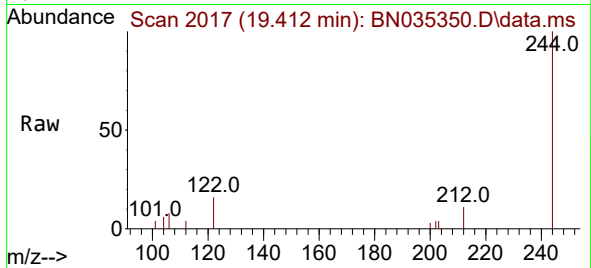




#31
 Terphenyl-d14
 Concen: 0.099 ng
 RT: 19.412 min Scan# 2017
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

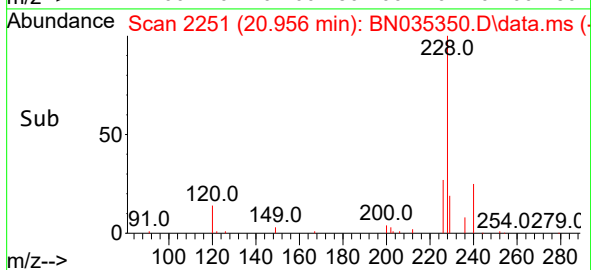
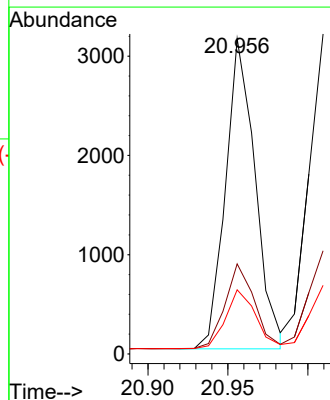
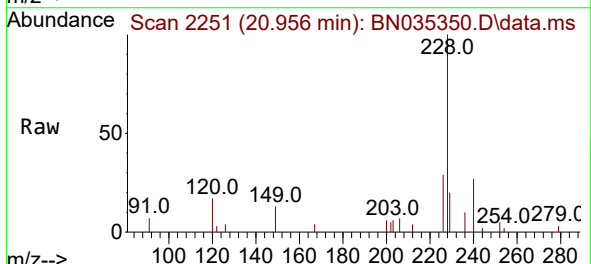
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

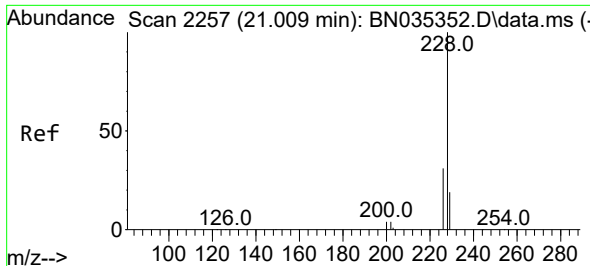
Tgt Ion:244 Resp: 2344
 Ion Ratio Lower Upper
 244 100
 212 11.4 8.1 12.1
 122 16.3 10.3 15.5#



#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

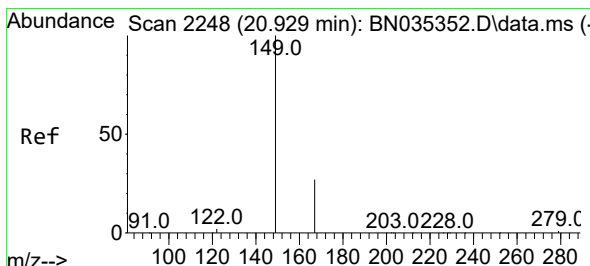
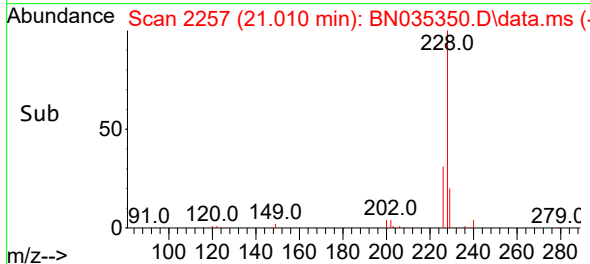
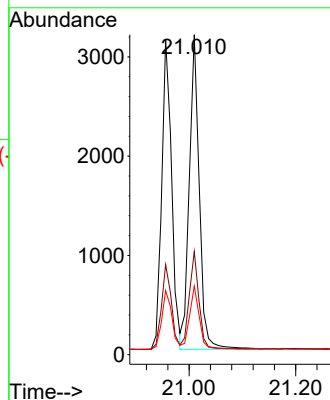
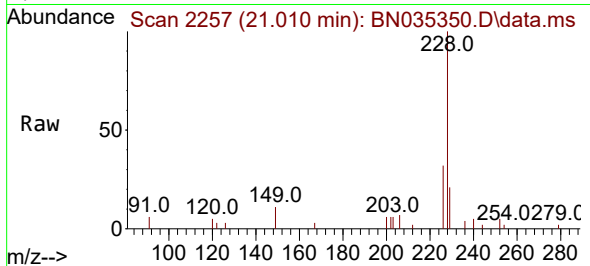




#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

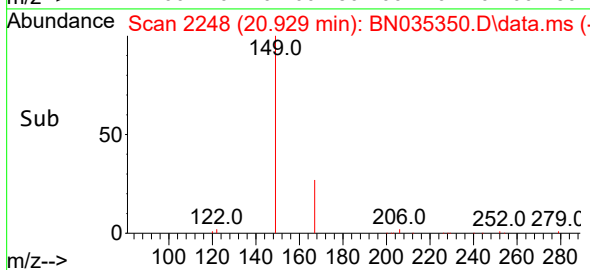
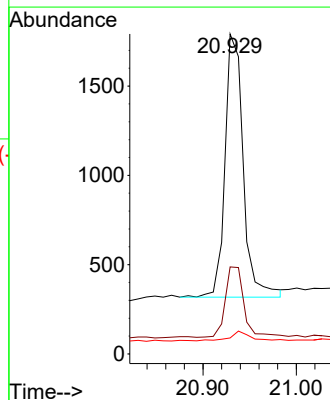
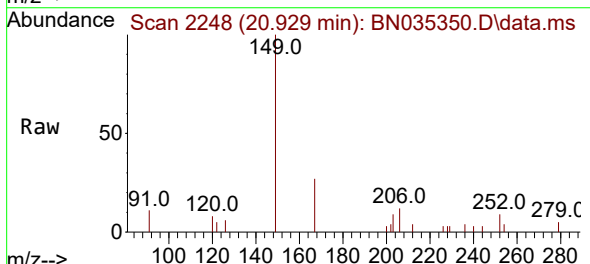
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

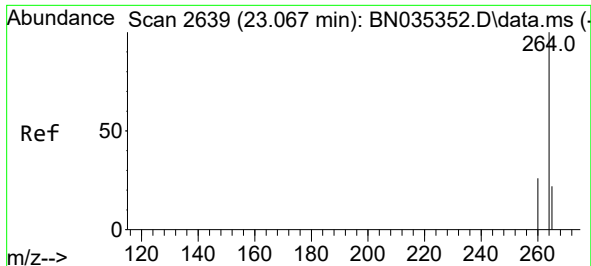
Tgt Ion:228 Resp: 4123
Ion Ratio Lower Upper
228 100
226 32.3 24.6 37.0
229 21.5 15.9 23.9



#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

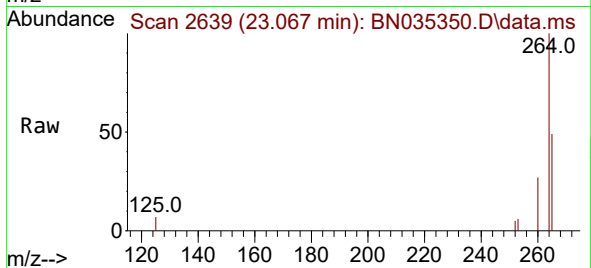
Tgt Ion:149 Resp: 1999
Ion Ratio Lower Upper
149 100
167 27.5 22.2 33.4
279 3.6 2.7 4.1



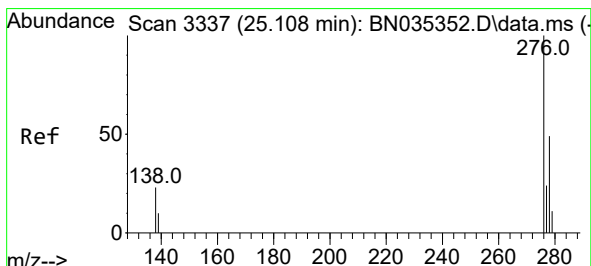
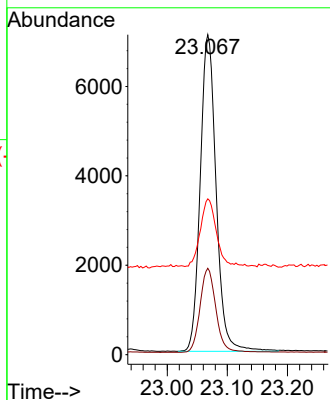
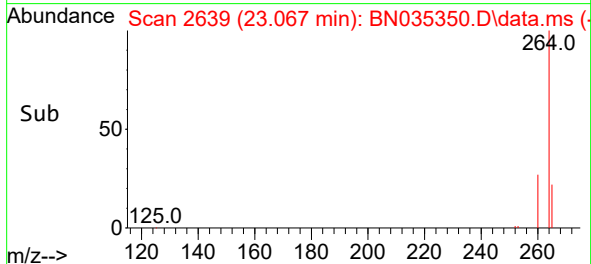


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

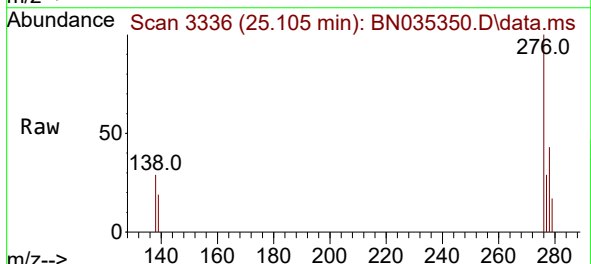
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



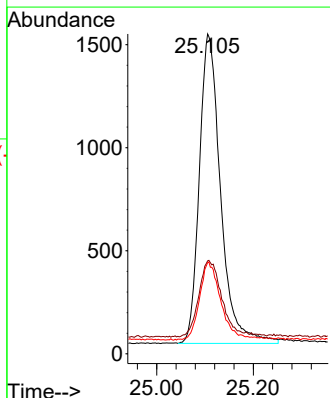
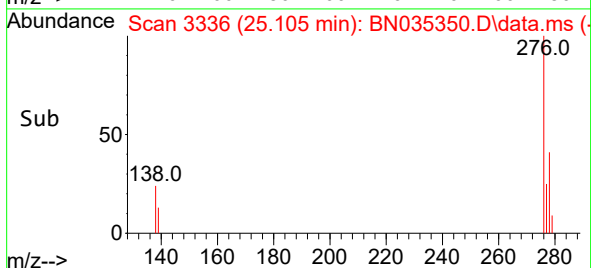
Tgt Ion:264 Resp: 13004
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.2
265 48.7 40.2 60.4

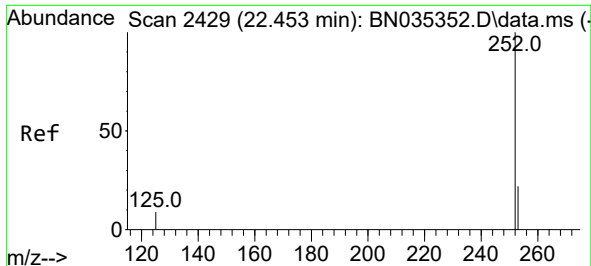


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



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

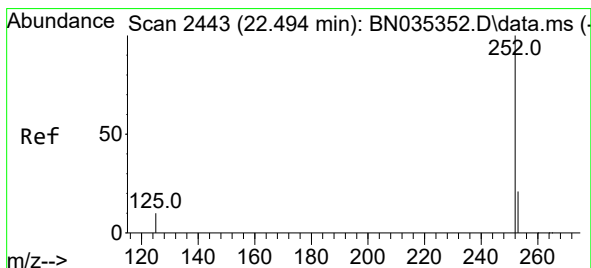
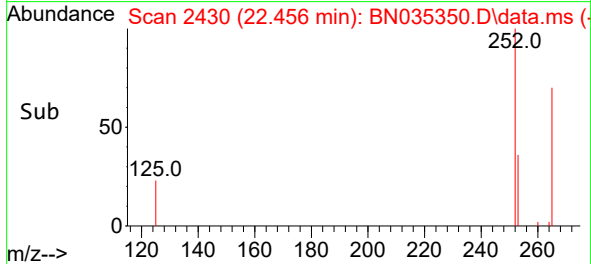
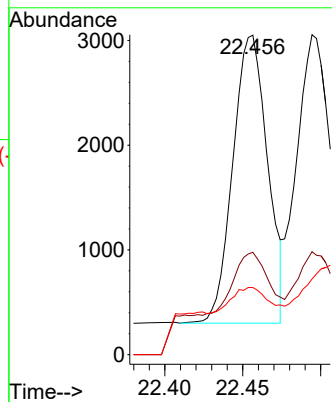
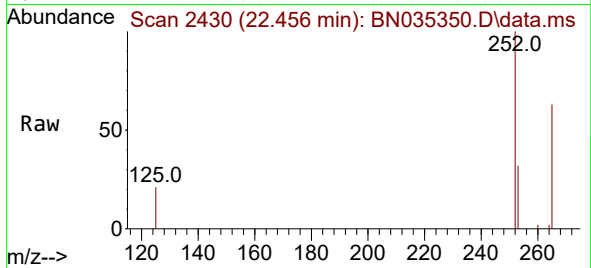




#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

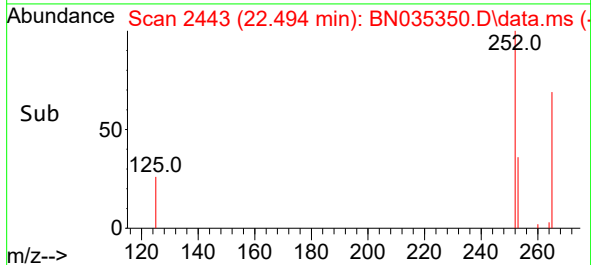
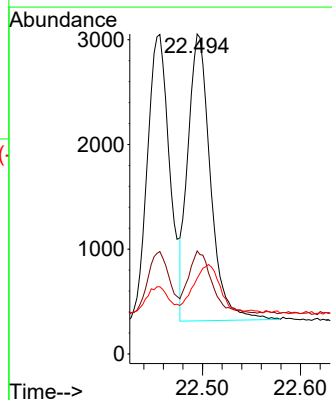
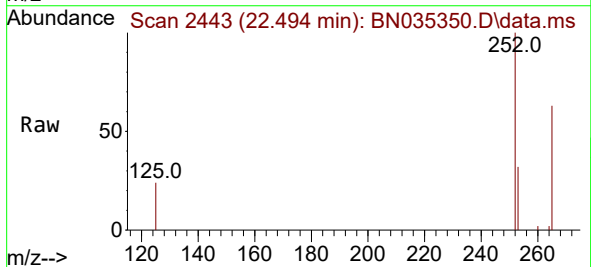
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

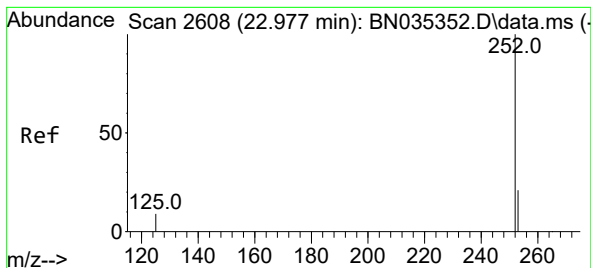
Tgt Ion:252 Resp: 4243
Ion Ratio Lower Upper
252 100
253 32.1 19.6 29.4#
125 21.0 9.6 14.4#



#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# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

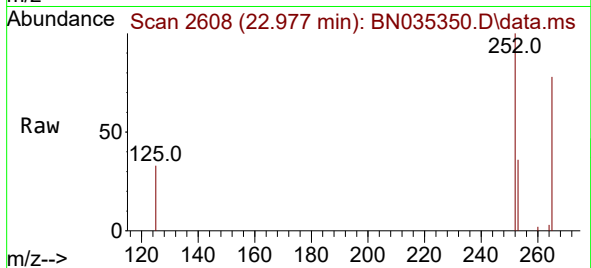
Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



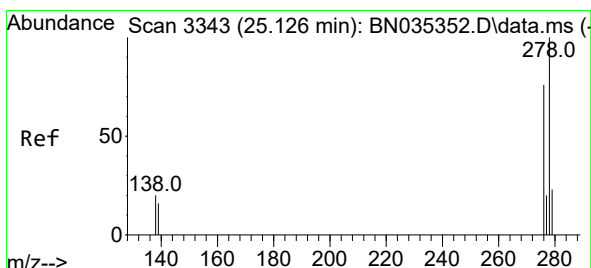
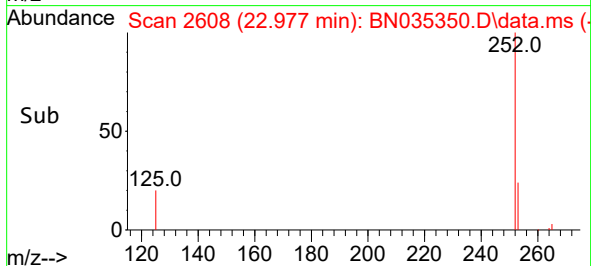
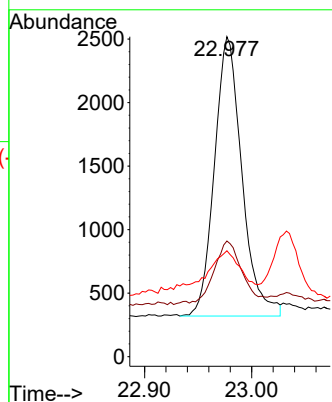
Tgt Ion:252 Resp: 3913

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

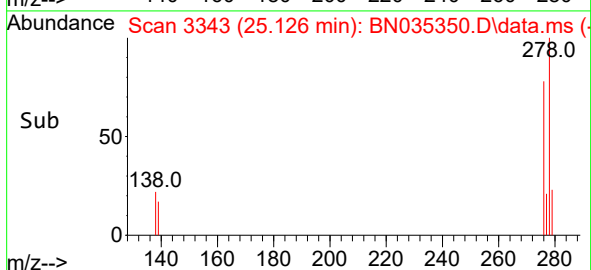
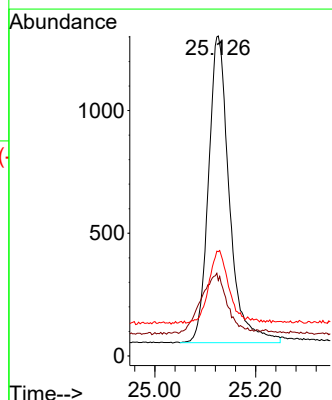
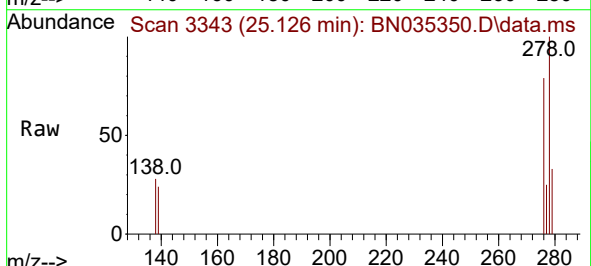
Tgt Ion:278 Resp: 3588

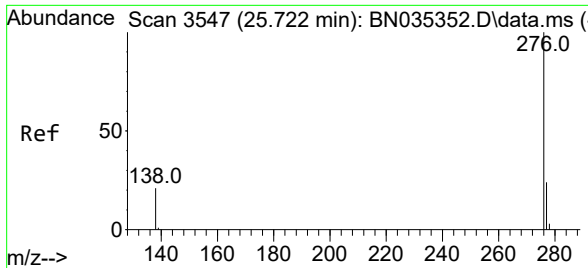
Ion Ratio Lower Upper

278 100

139 23.6 14.2 21.4#

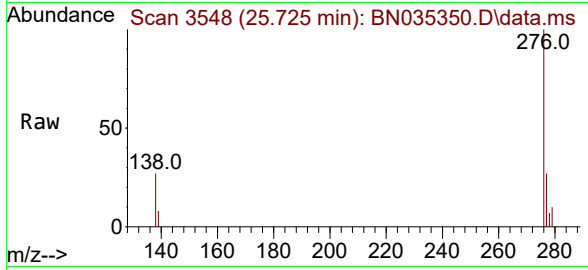
279 32.6 20.5 30.7#



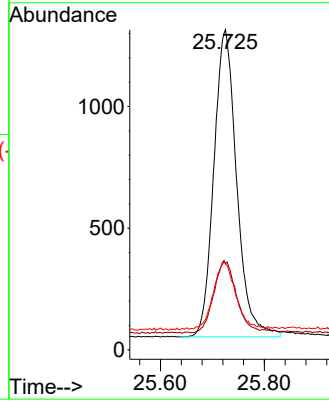
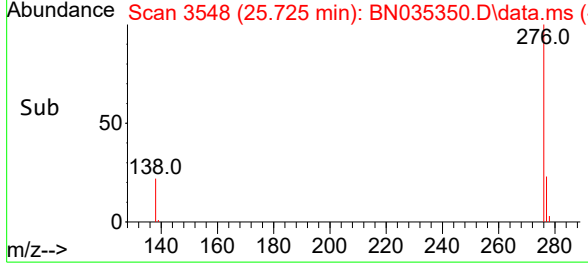


#41
 Benzo(g,h,i)perylene
 Concen: 0.088 ng
 RT: 25.725 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

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#



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

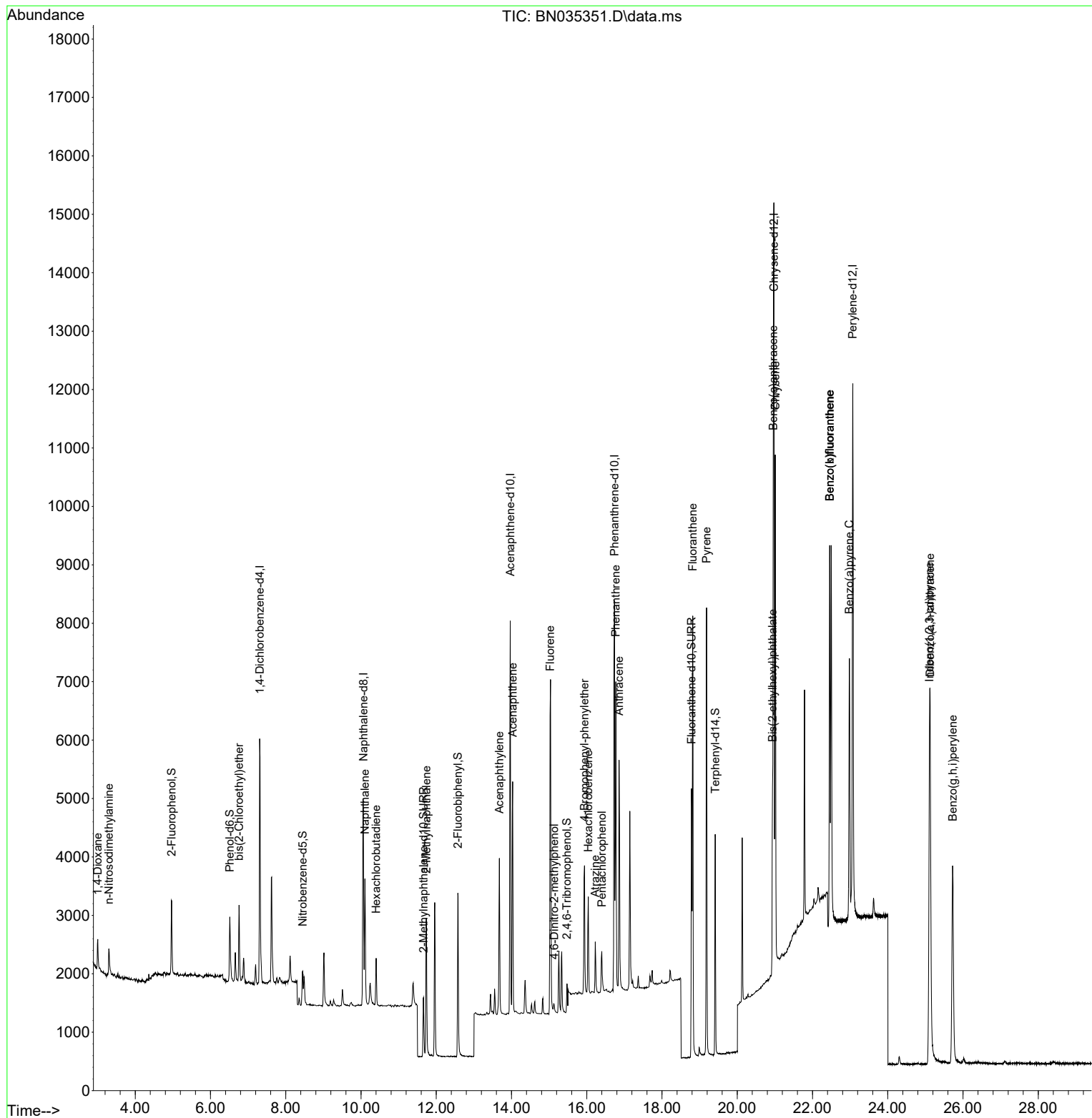
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	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						
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...	21.938	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

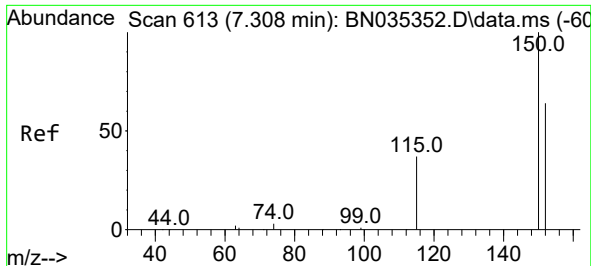
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

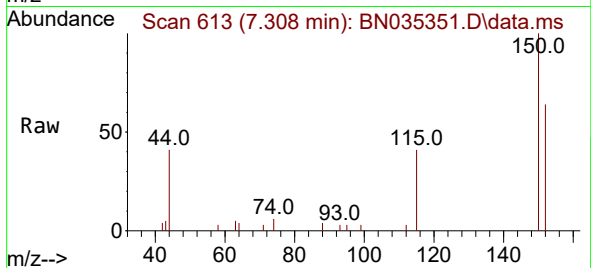
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





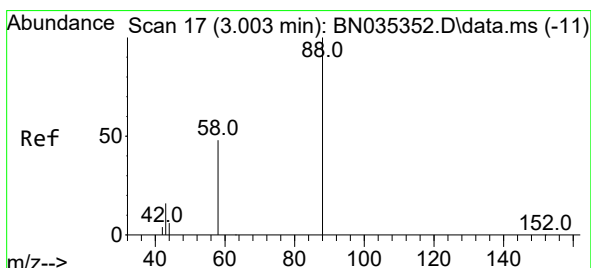
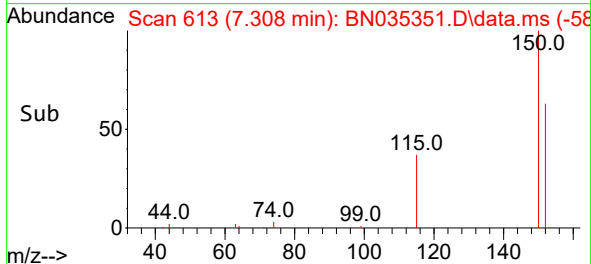
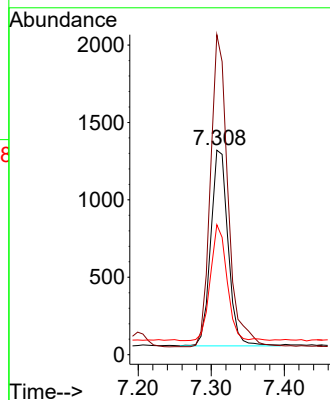
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion:152 Resp: 2084

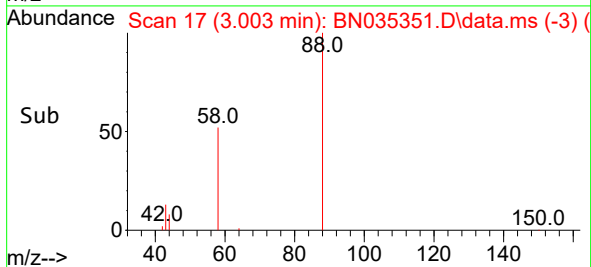
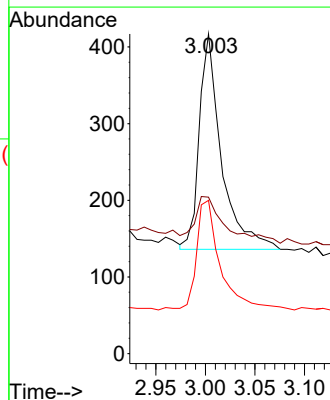
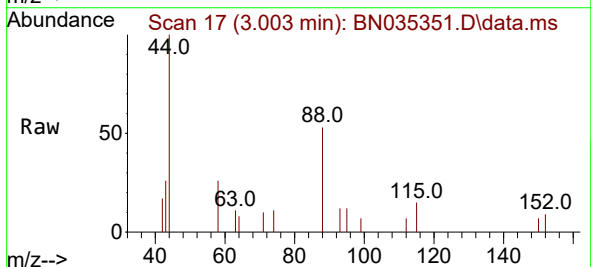
Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4

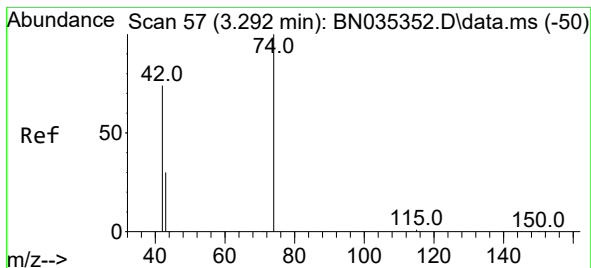


#2
 1,4-Dioxane
 Concen: 0.230 ng
 RT: 3.003 min Scan# 17
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

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

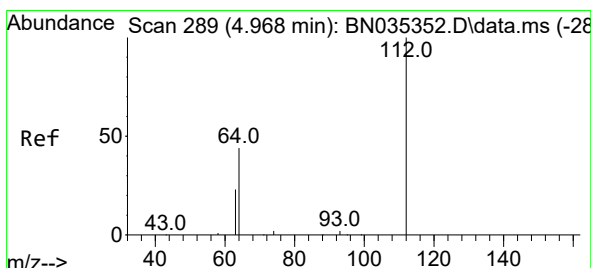
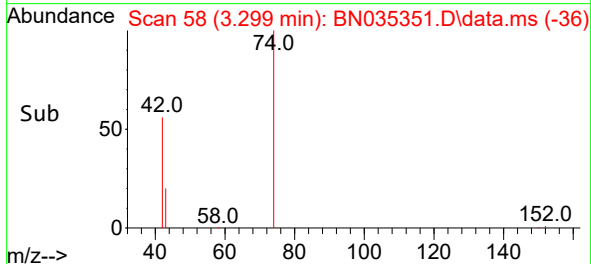
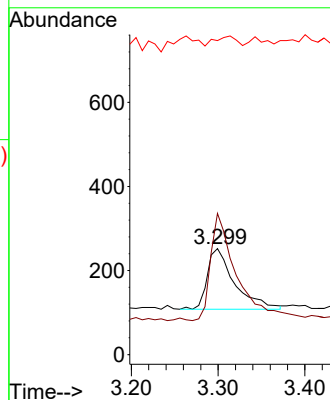
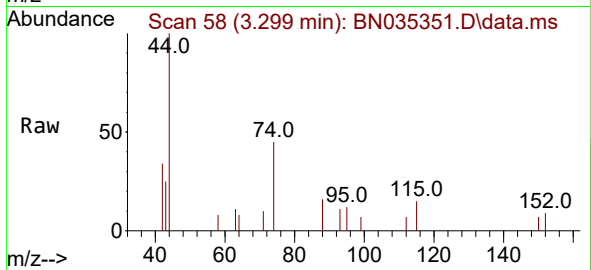




#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

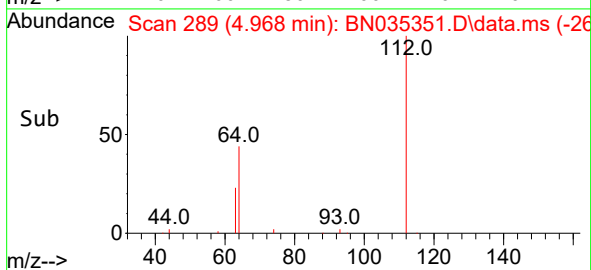
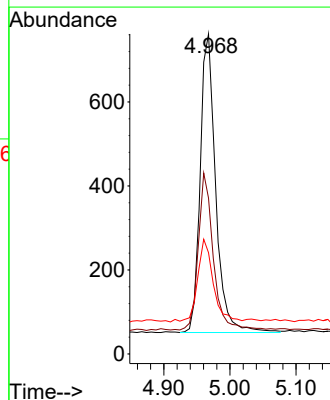
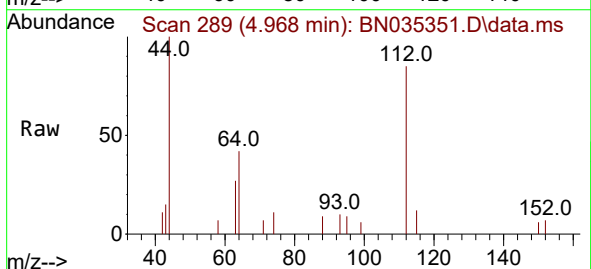
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

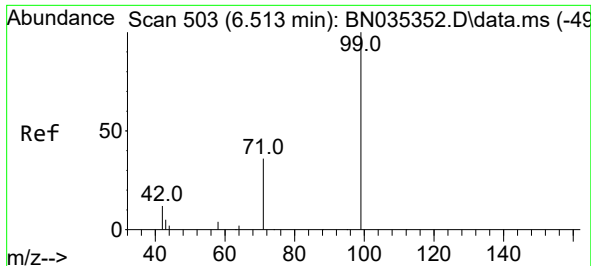
Tgt Ion: 42 Resp: 315
Ion Ratio Lower Upper
42 100
74 172.4 124.9 187.3
44 16.2 2.2 3.4#



#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

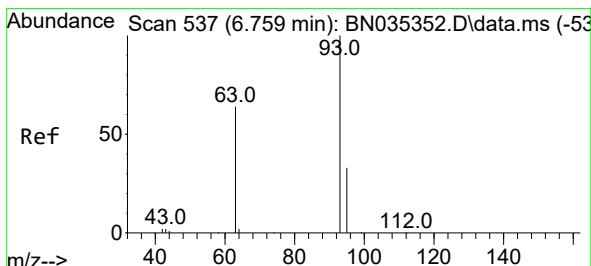
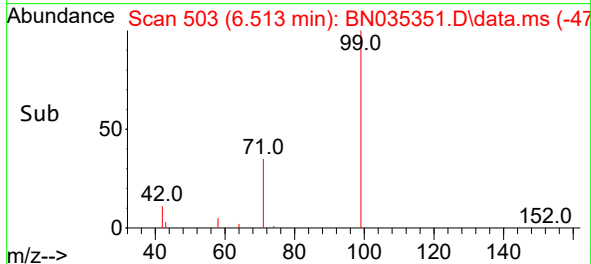
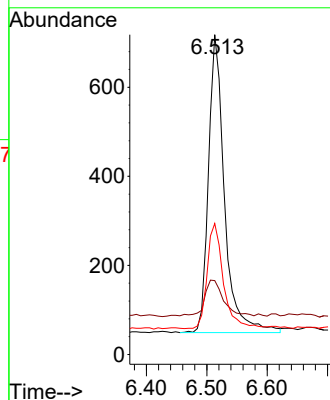
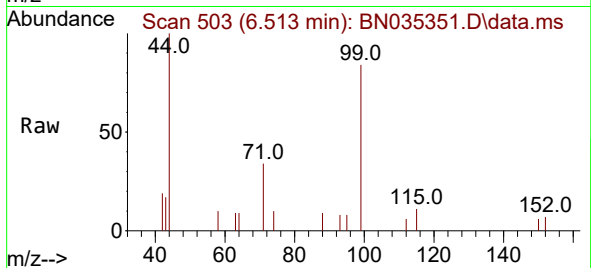




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

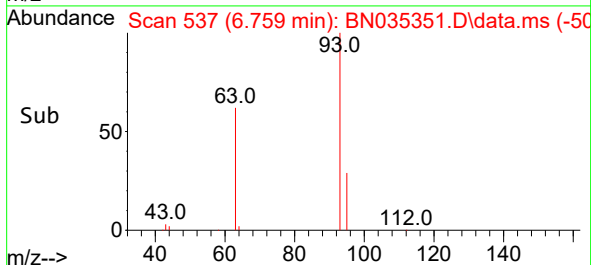
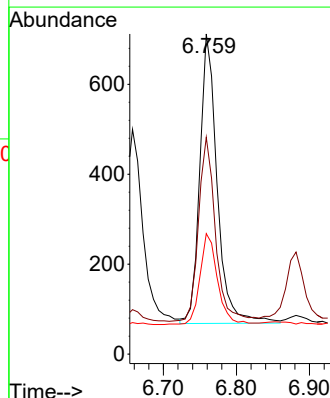
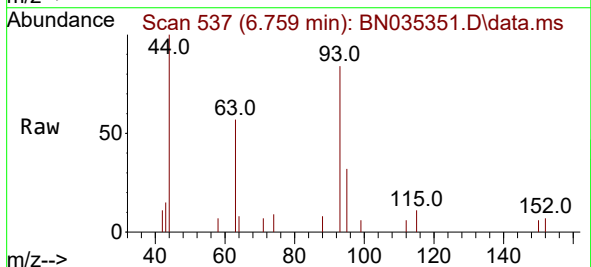
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

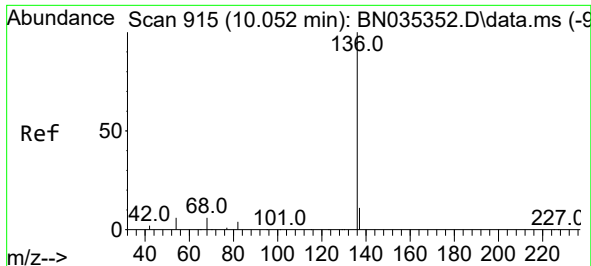
Tgt Ion:	99	Resp:	1236
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



#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

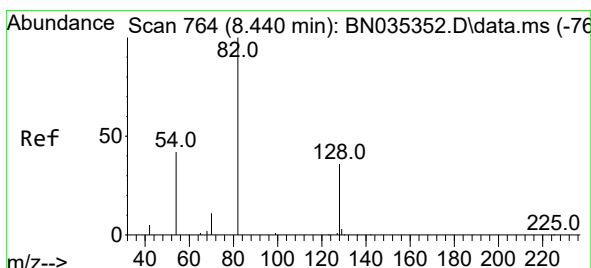
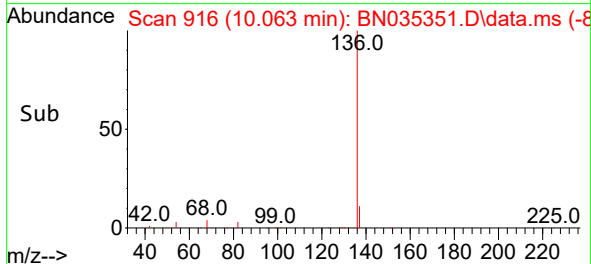
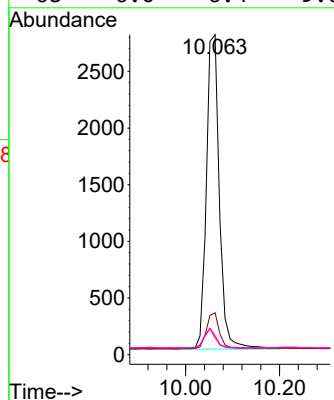
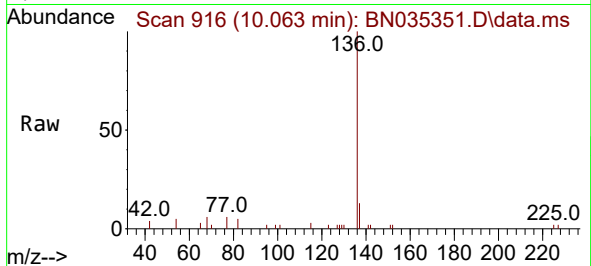




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 915
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

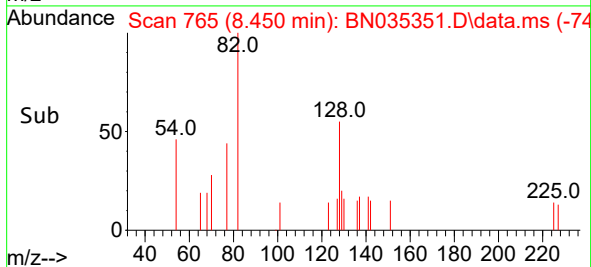
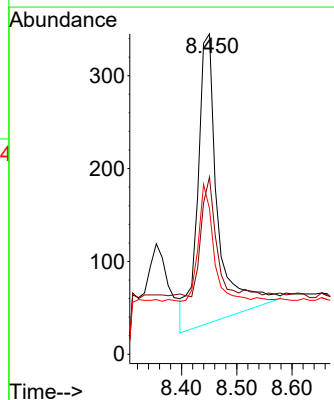
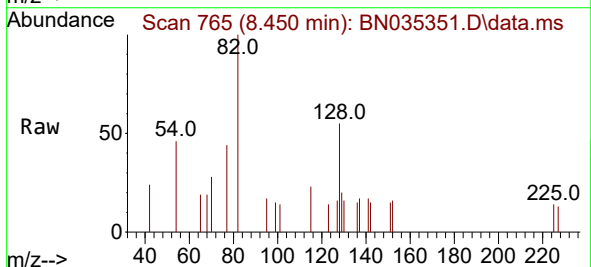
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

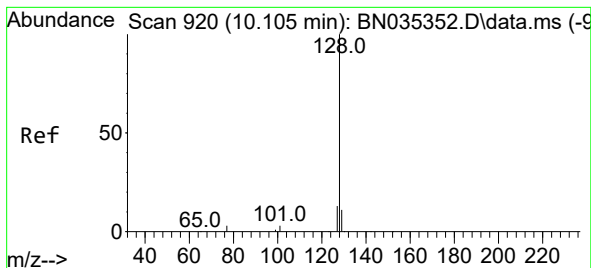
Tgt Ion:	136	Resp:	5334
Ion Ratio	Lower	Upper	
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#



#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# 91

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

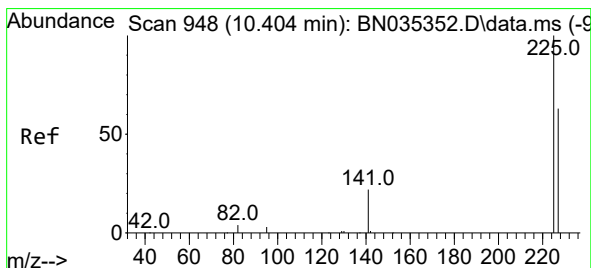
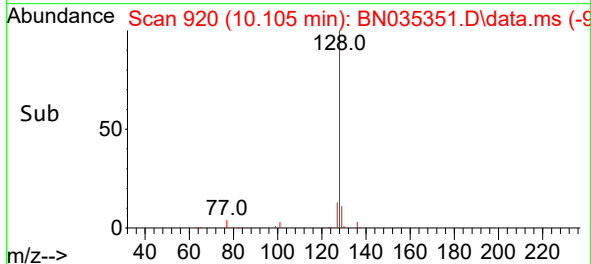
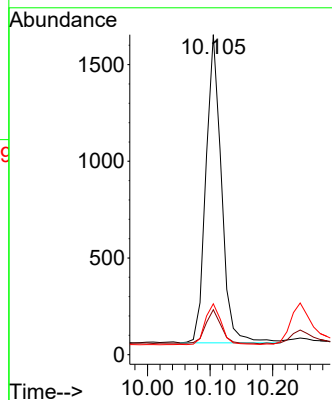
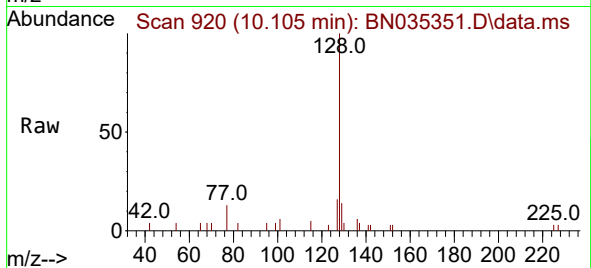
Tgt Ion:128 Resp: 2744

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

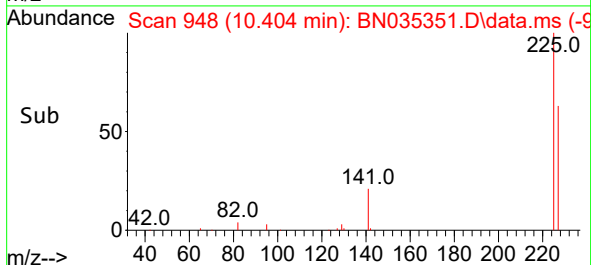
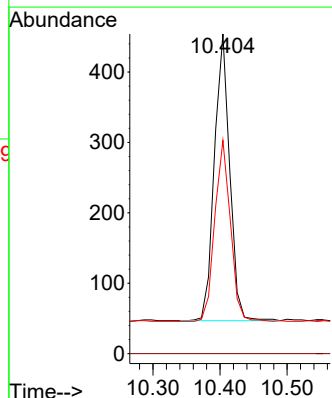
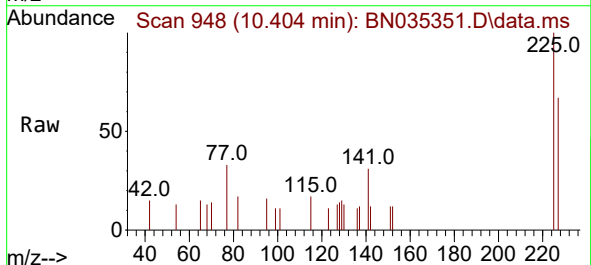
Tgt Ion:225 Resp: 646

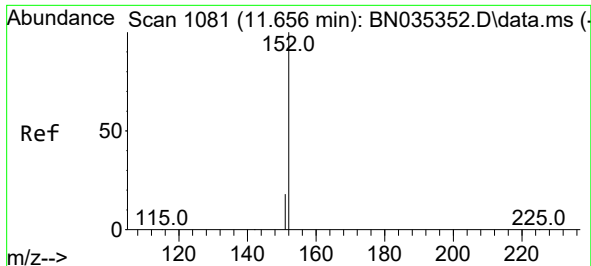
Ion Ratio Lower Upper

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# 1082

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

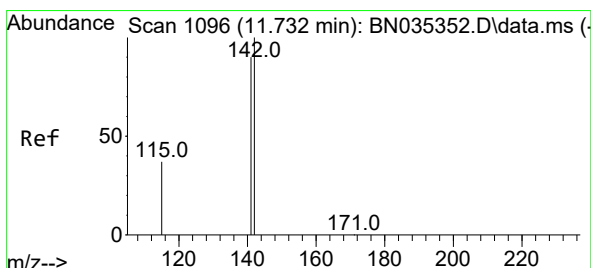
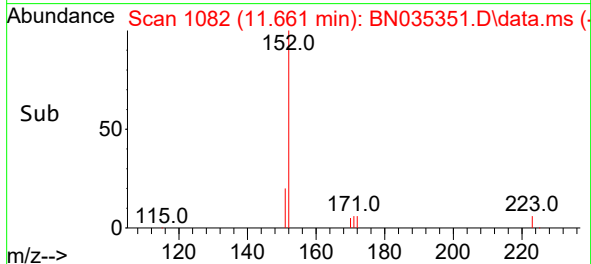
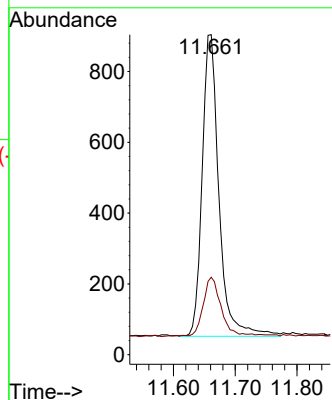
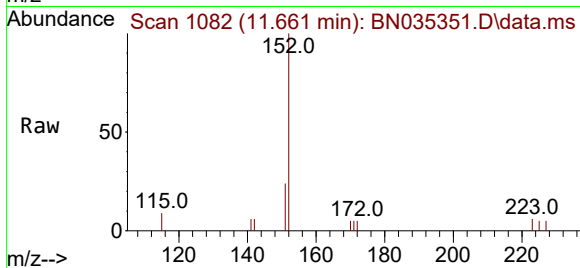
SSTDICC0.2

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

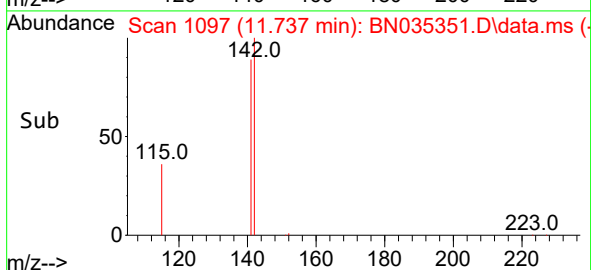
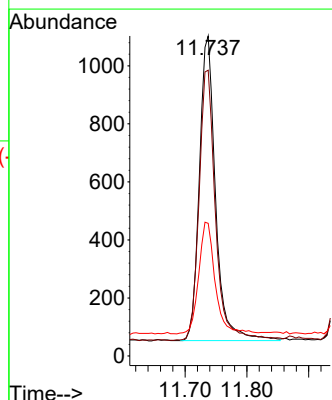
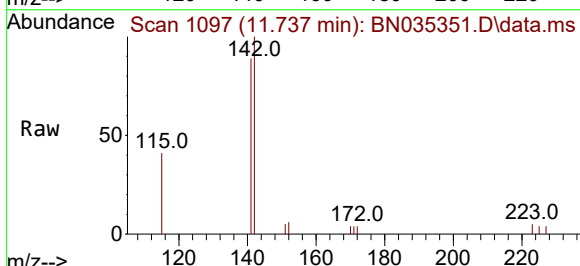
Tgt Ion:142 Resp: 1910

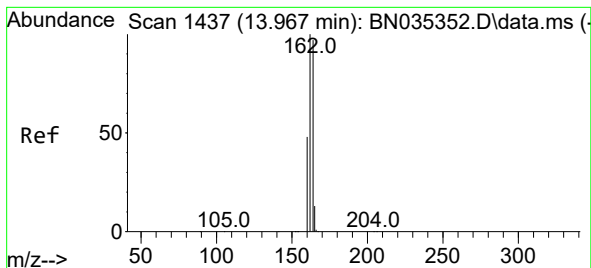
Ion Ratio Lower Upper

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

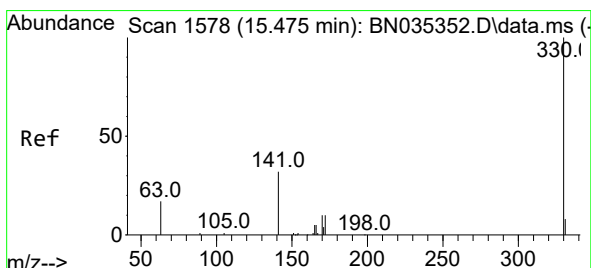
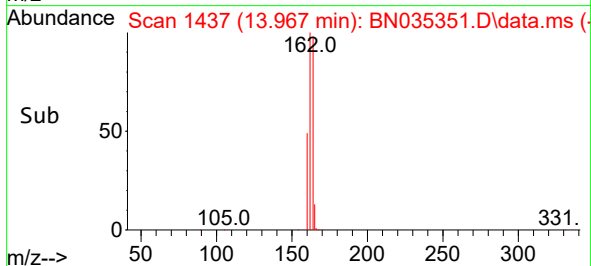
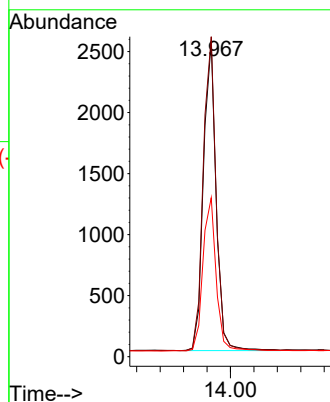
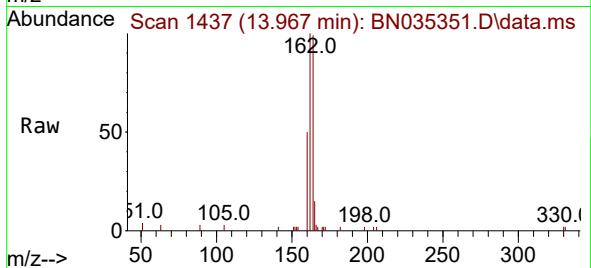
Tgt Ion:164 Resp: 3808

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

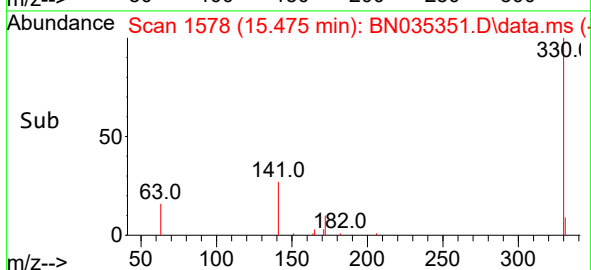
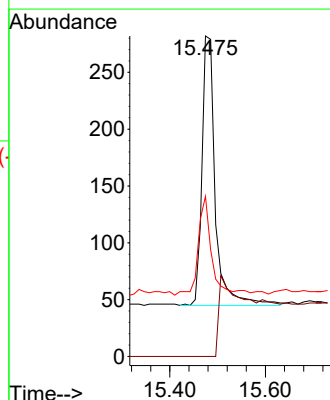
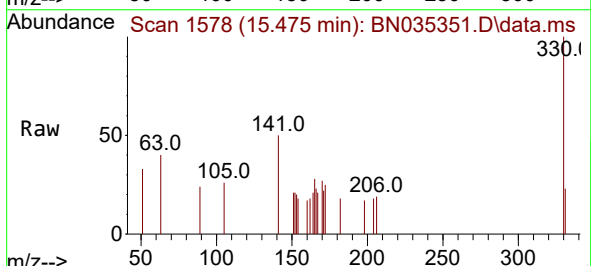
Tgt Ion:330 Resp: 492

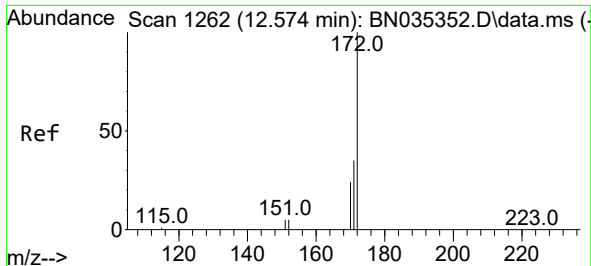
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 37.2 26.6 40.0

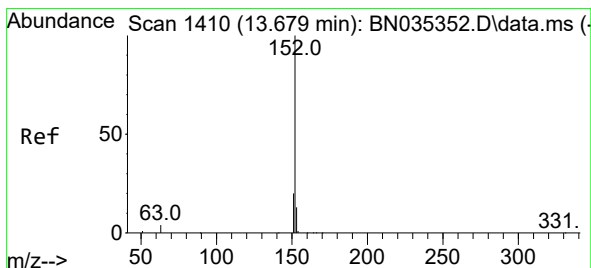
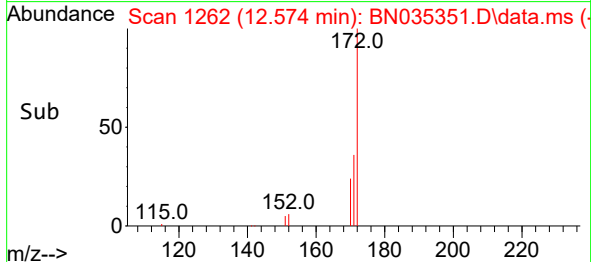
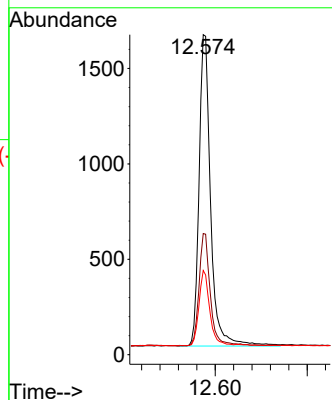
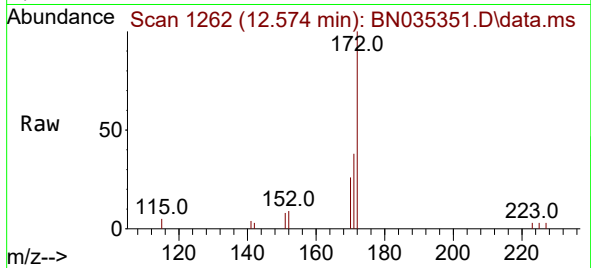




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1262
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

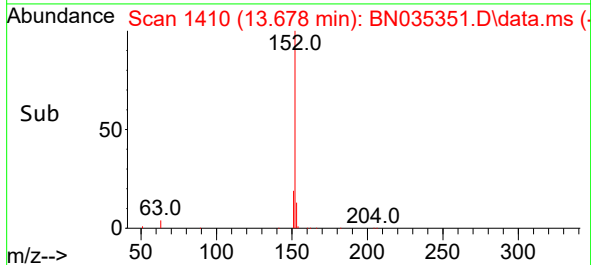
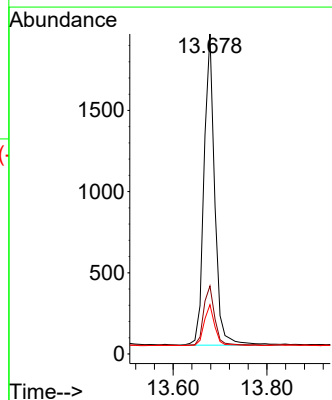
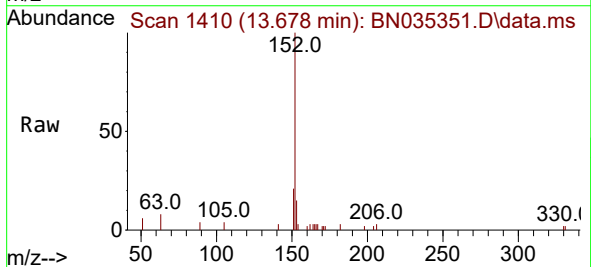
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

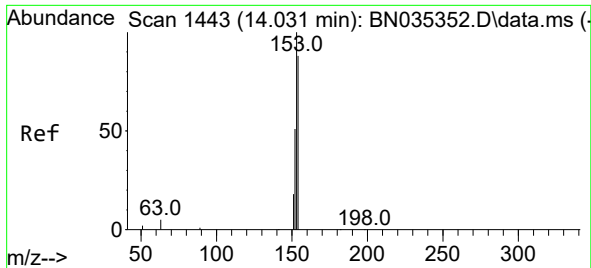
Tgt Ion:	172	Resp:	2838
Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8



#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

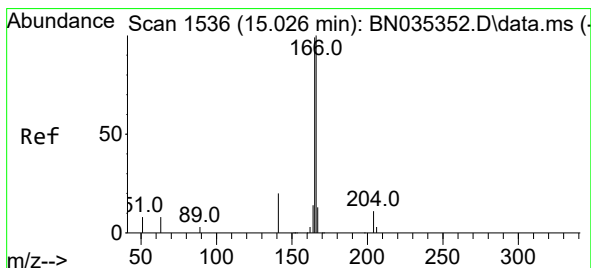
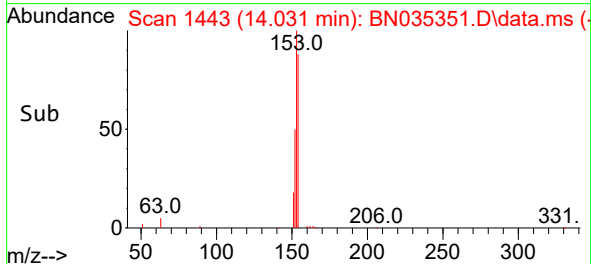
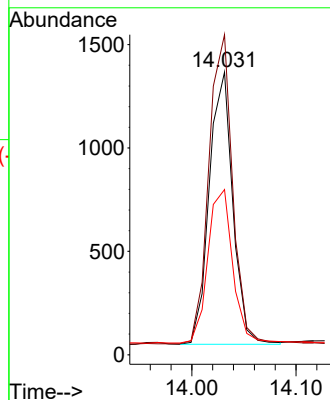
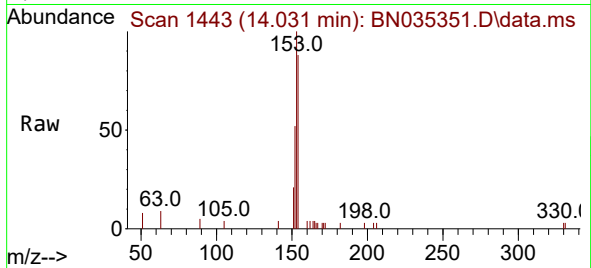




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

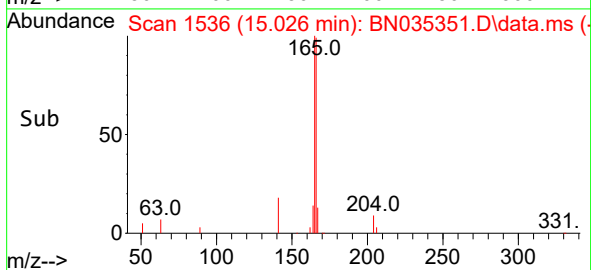
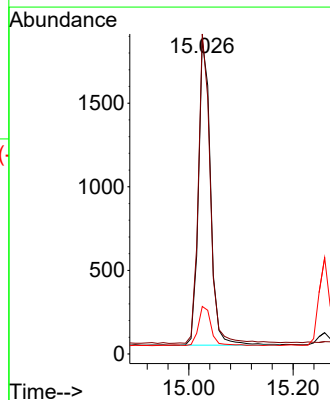
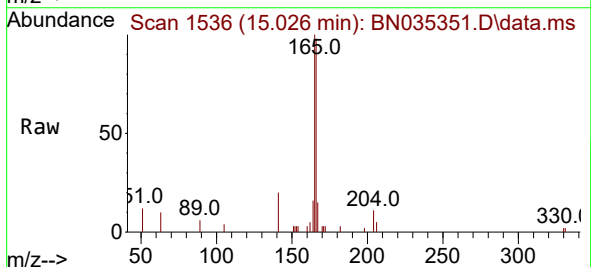
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

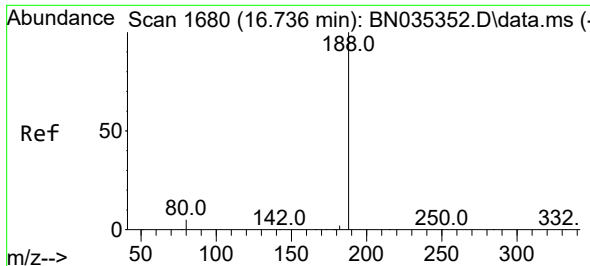
Tgt Ion:154	Resp:	2064
Ion Ratio	Lower	Upper
154	100	
153	115.2	92.6 139.0
152	60.7	49.0 73.6



#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

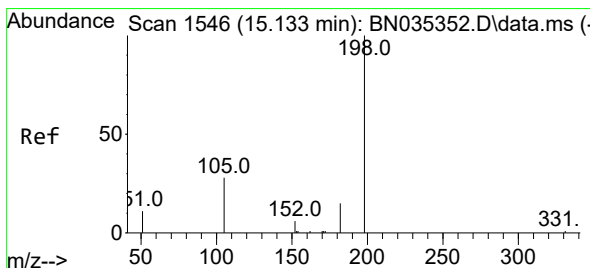
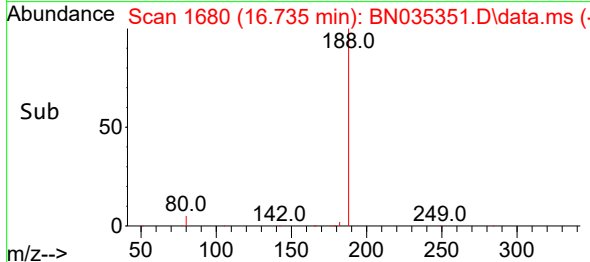
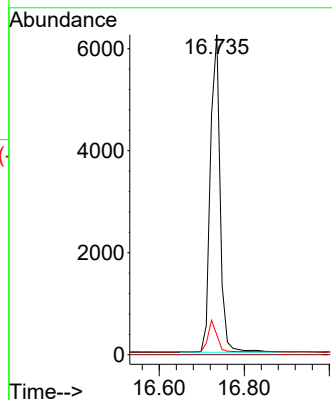
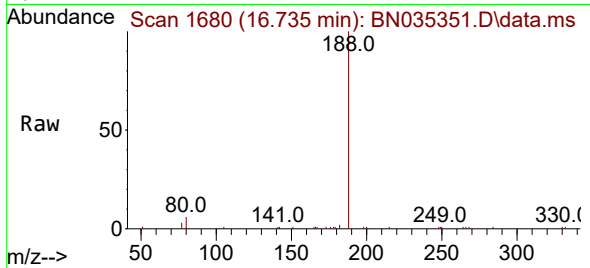




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

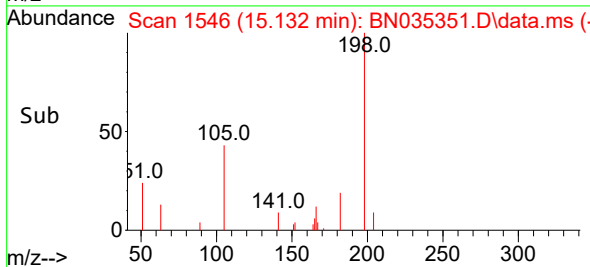
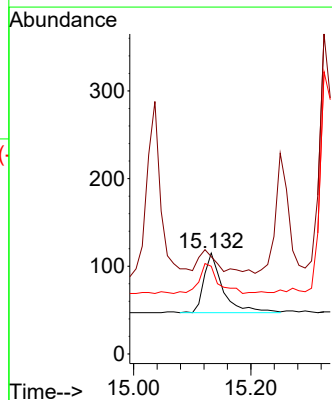
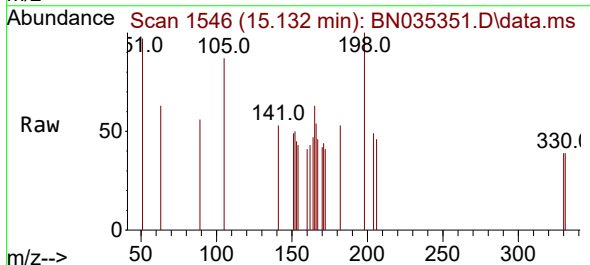
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

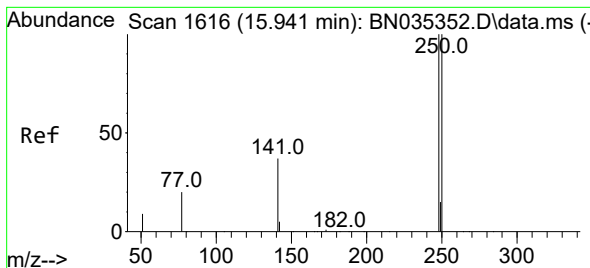
Tgt Ion:188 Resp: 9904
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.2 4.6 6.8



#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#

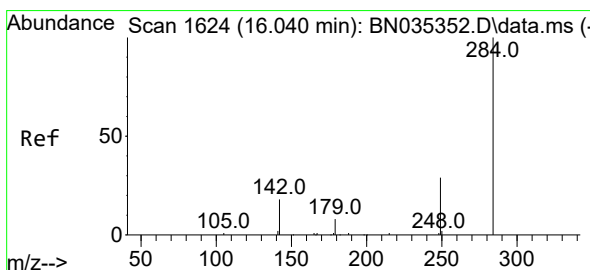
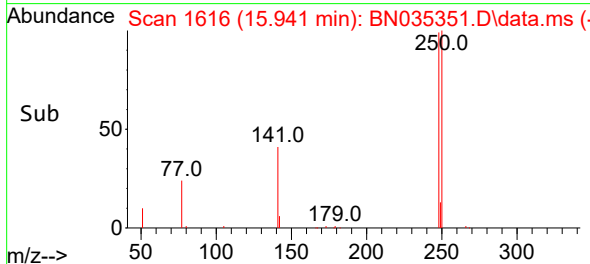
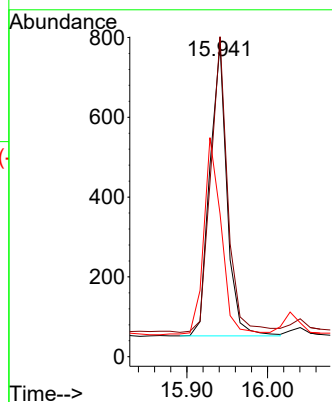
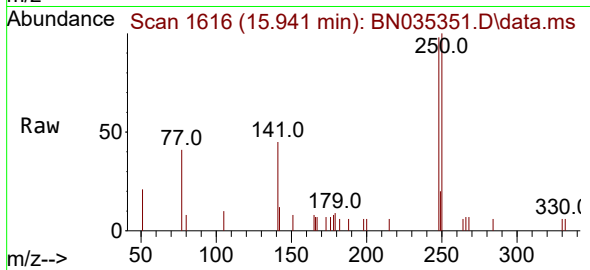




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

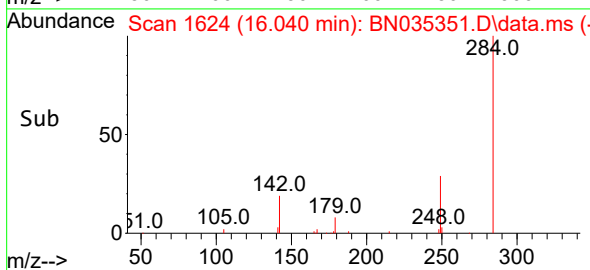
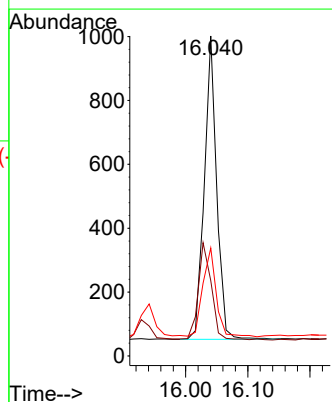
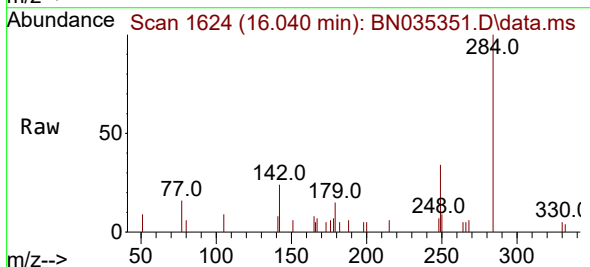
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

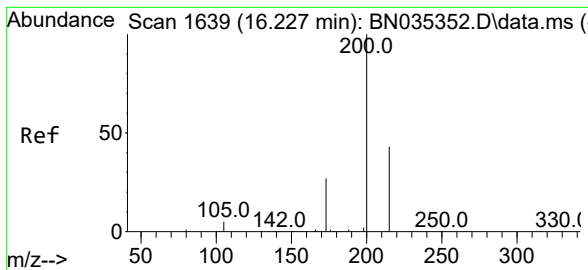
Tgt Ion:	248	Resp:	1081
Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3



#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

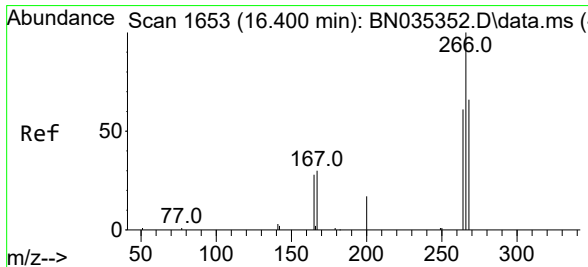
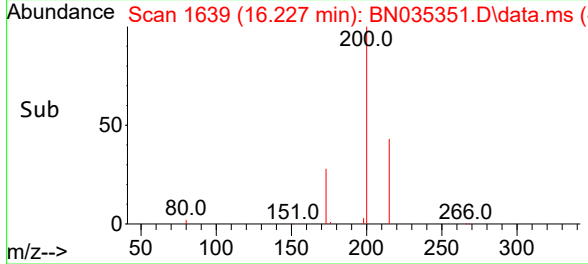
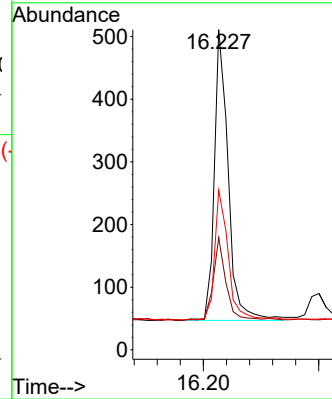
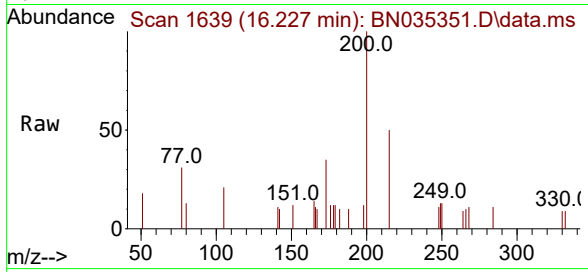




#23
 Atrazine
 Concen: 0.136 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

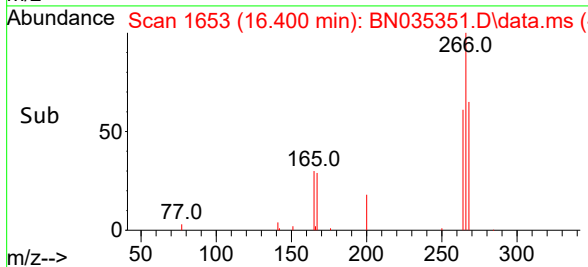
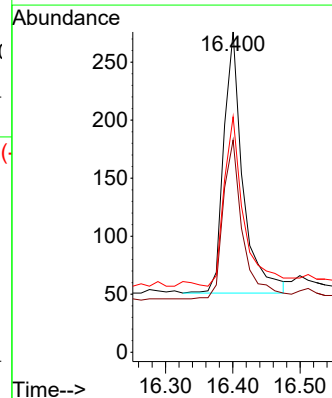
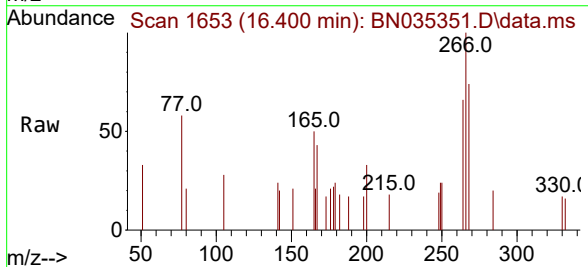
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

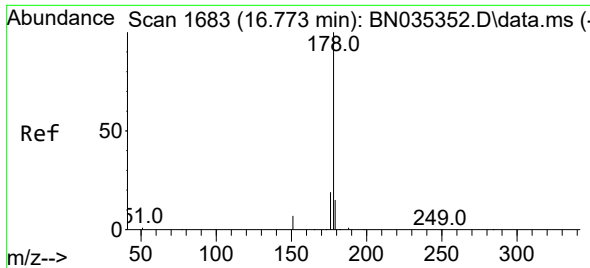
Tgt Ion:	200	Resp:	770
Ion Ratio	Lower	Upper	
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3



#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

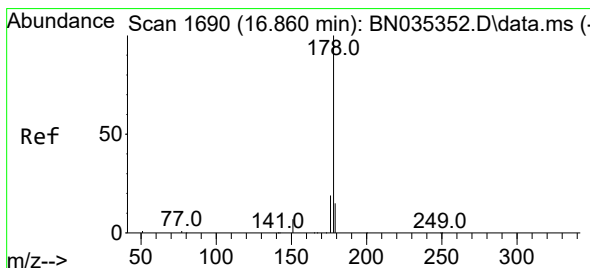
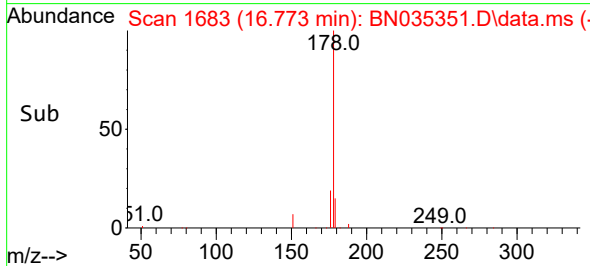
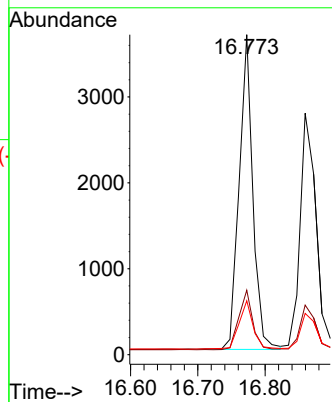
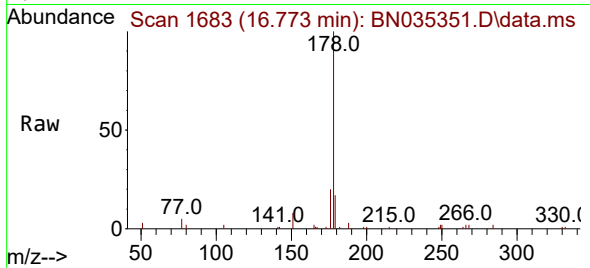




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

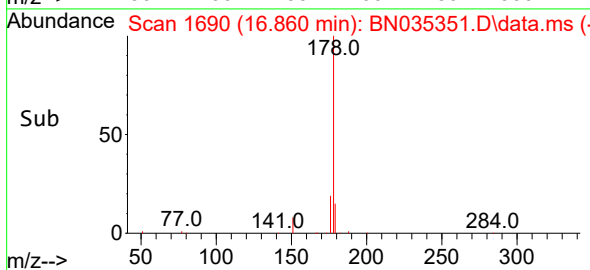
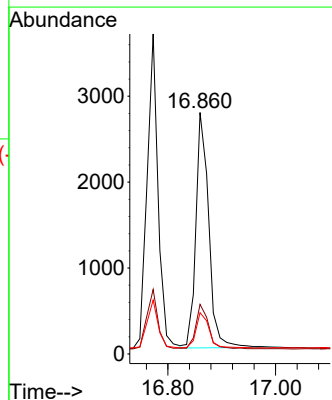
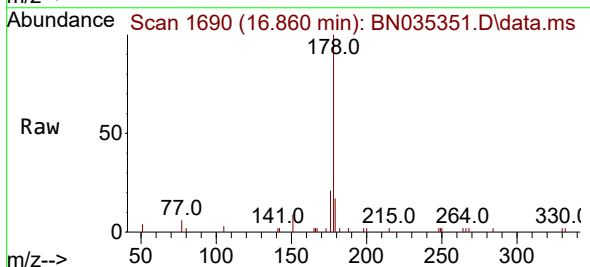
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

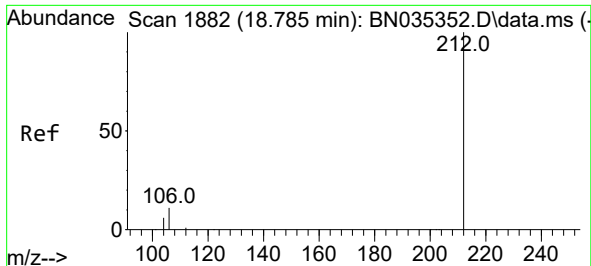
Tgt Ion:178 Resp: 5182
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.9 12.3 18.5



#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

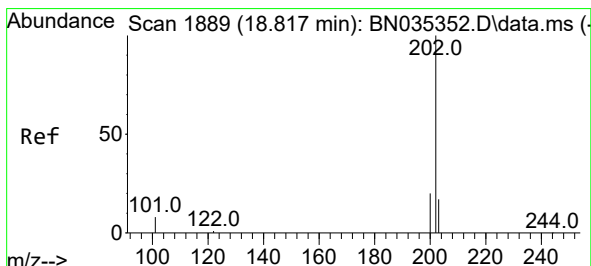
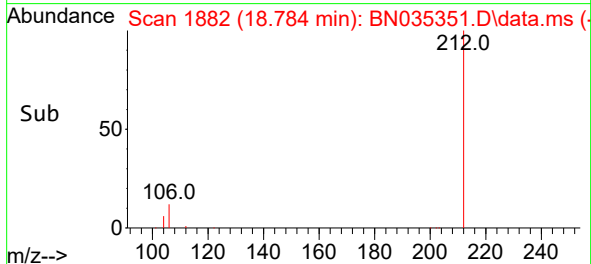
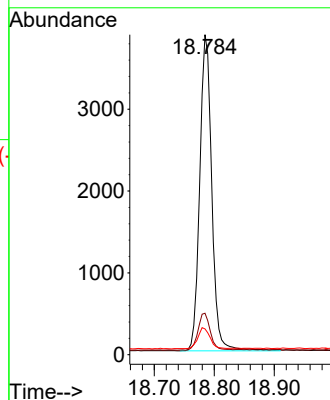
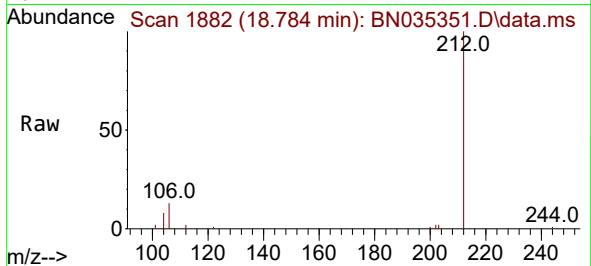




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

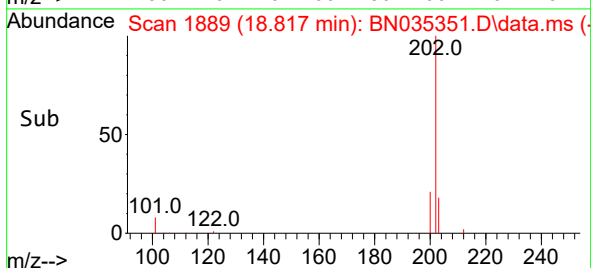
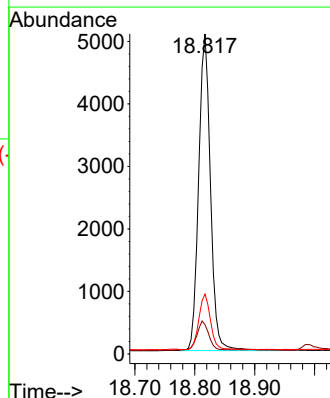
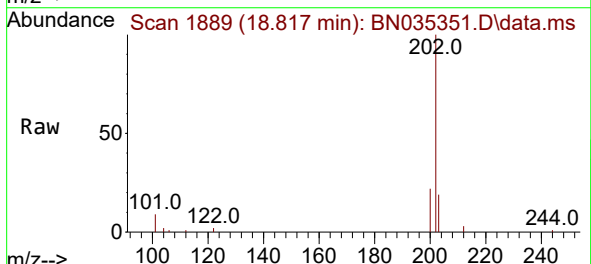
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

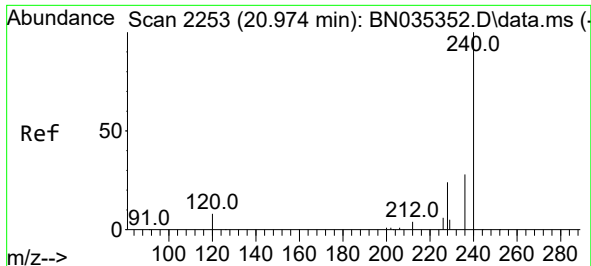
Tgt Ion:212 Resp: 5379
Ion Ratio Lower Upper
212 100
106 11.8 9.2 13.8
104 6.9 5.3 7.9



#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# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

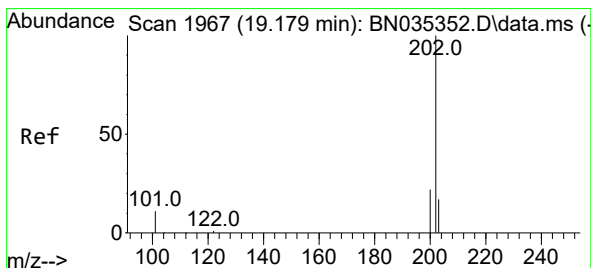
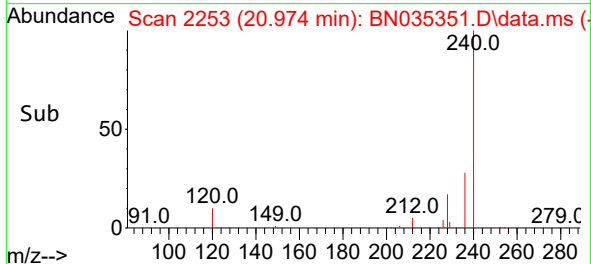
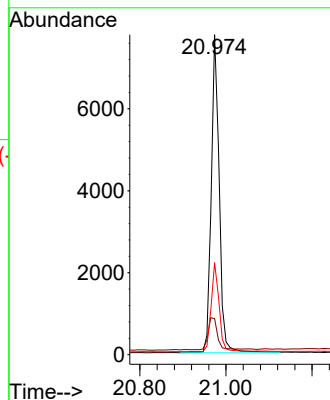
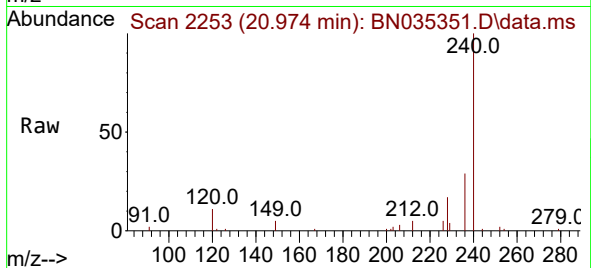
Tgt Ion:240 Resp: 9963

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

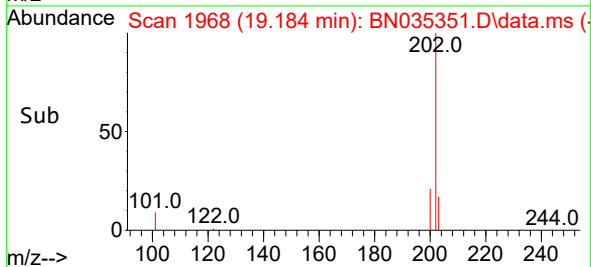
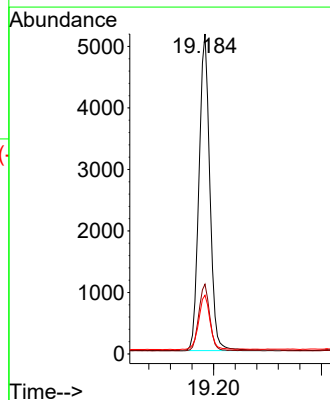
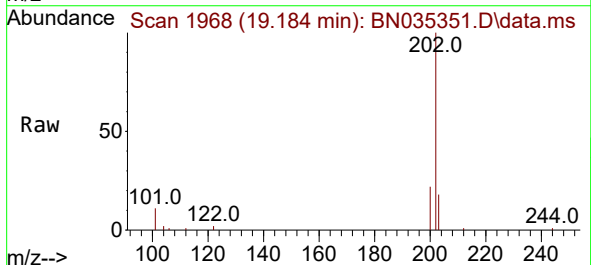
Tgt Ion:202 Resp: 7198

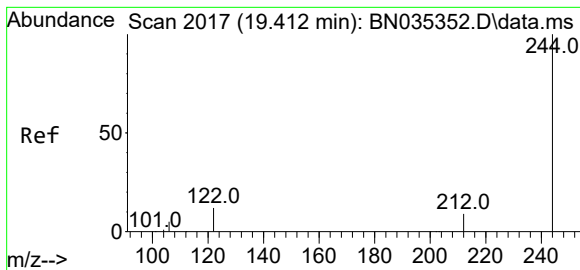
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 18.0 14.3 21.5

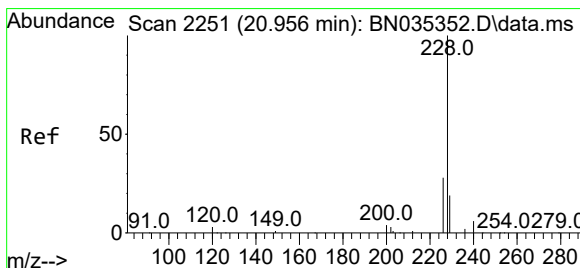
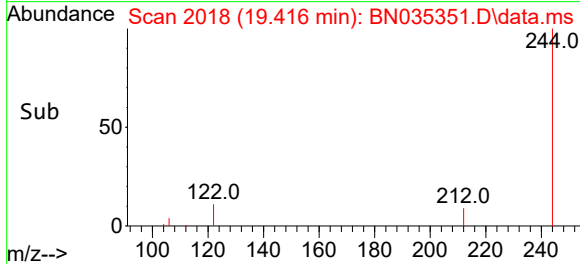
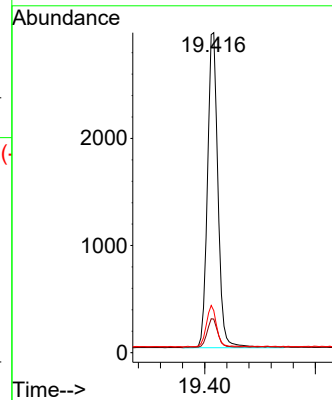
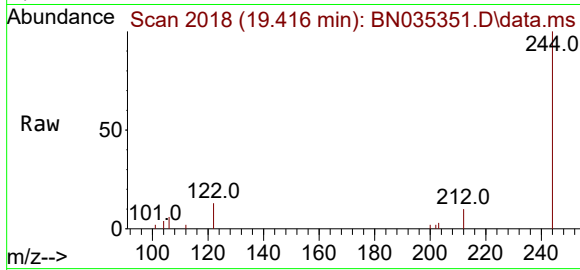




#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2017
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

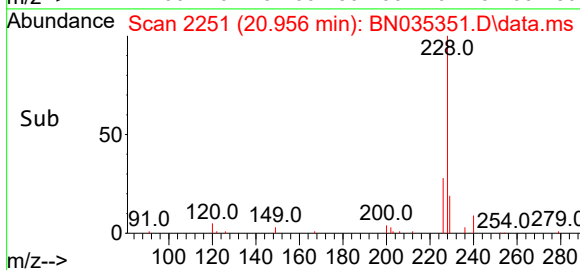
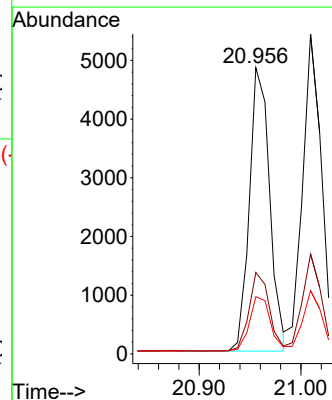
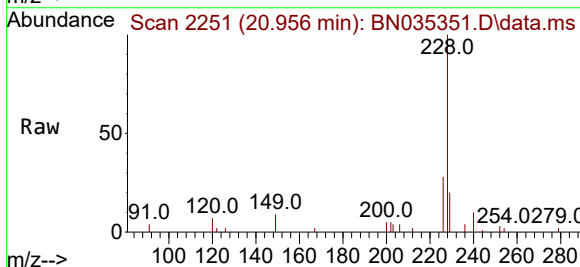
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

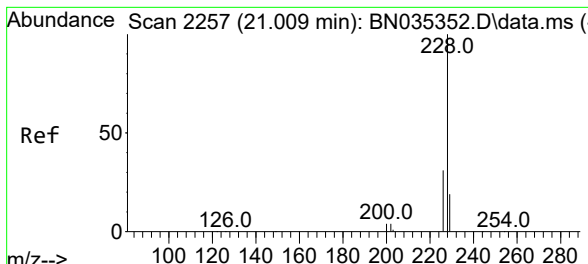
Tgt Ion:244 Resp: 3871
Ion Ratio Lower Upper
244 100
212 10.5 8.1 12.1
122 13.1 10.3 15.5



#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



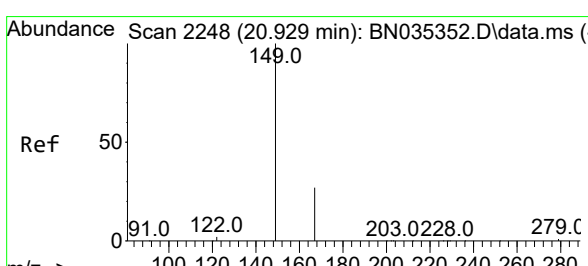
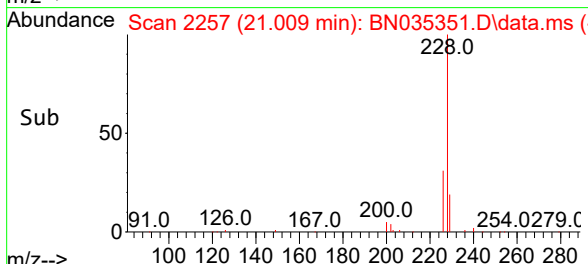
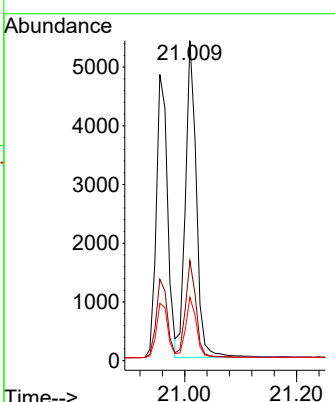
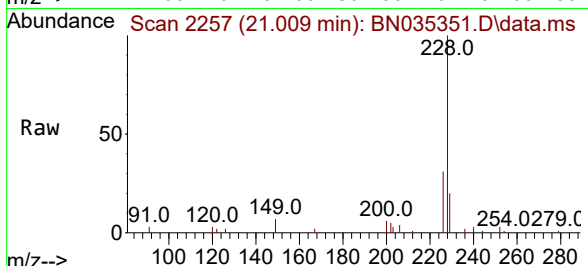


#33
 Chrysene
 Concen: 0.211 ng
 RT: 21.009 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Tgt Ion:228 Resp: 7234

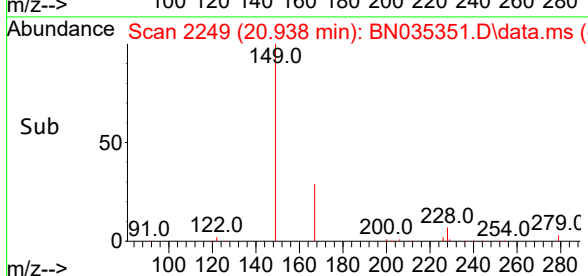
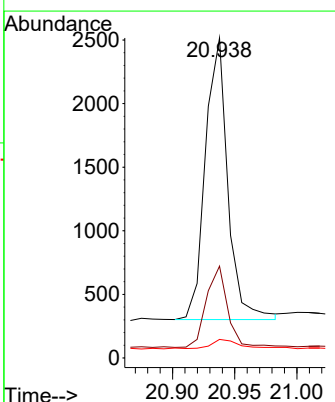
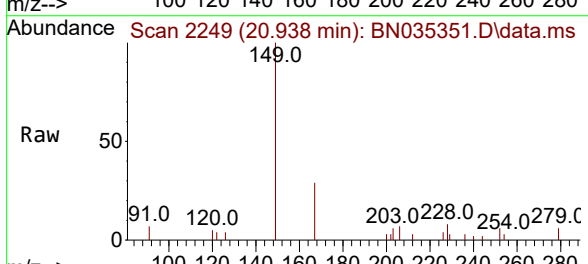
Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9

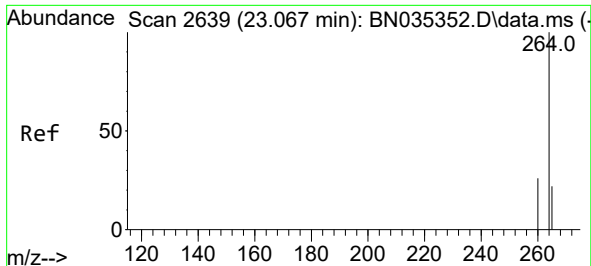


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.153 ng
 RT: 20.938 min Scan# 2249
 Delta R.T. 0.009 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

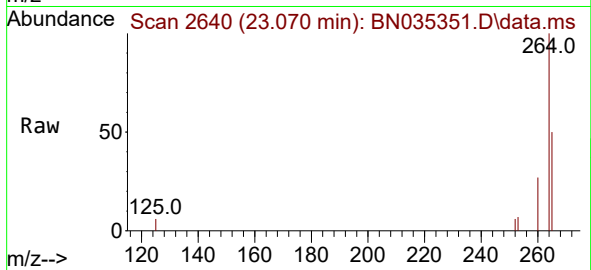
Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1



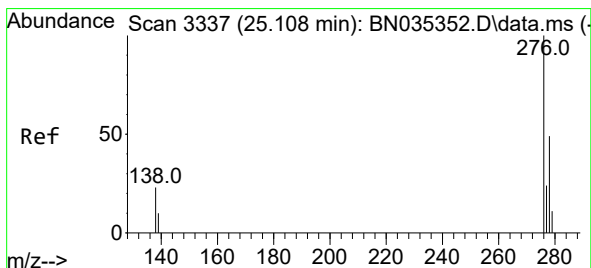
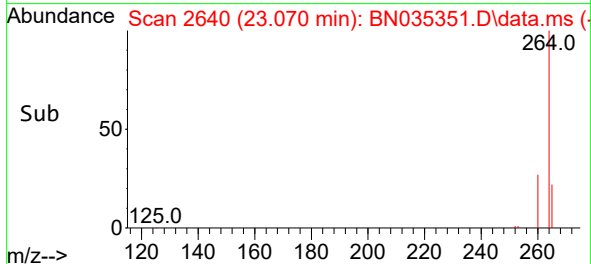
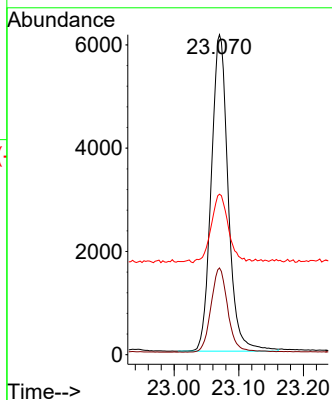


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2640
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

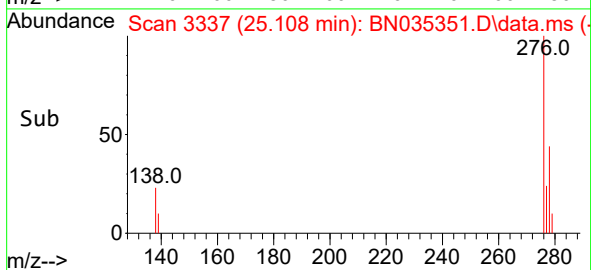
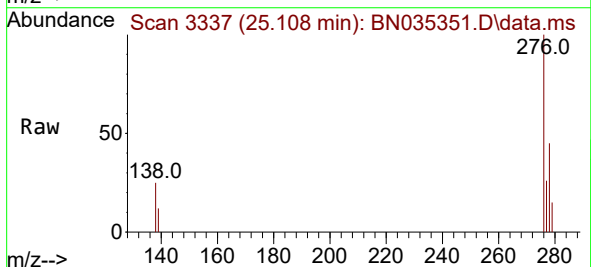
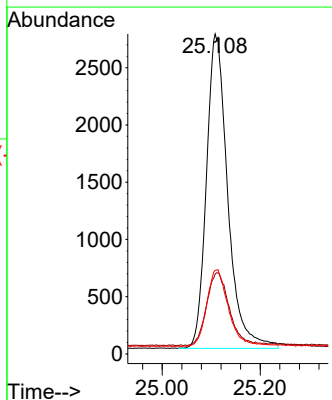


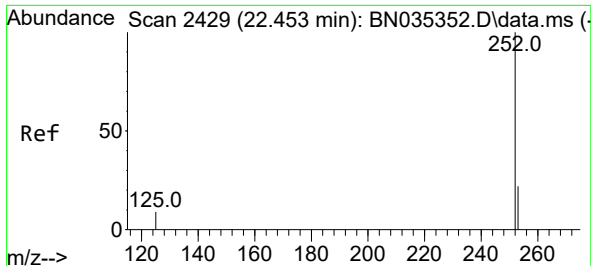
Tgt Ion:264 Resp: 11158
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 50.2 40.2 60.4



#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

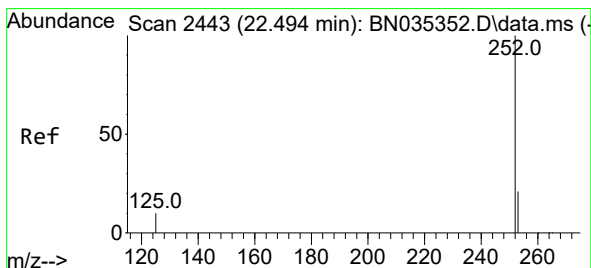
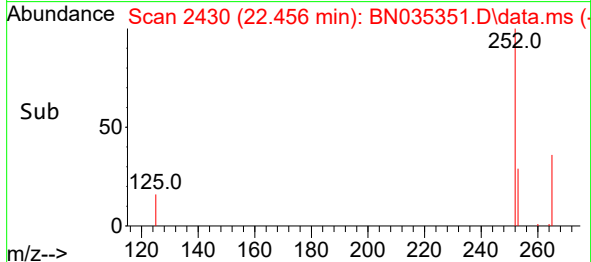
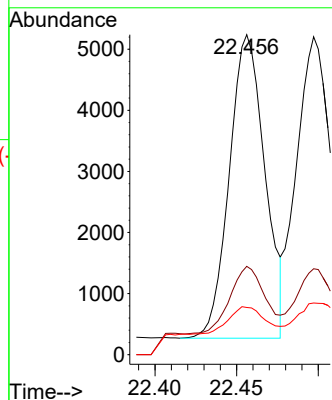
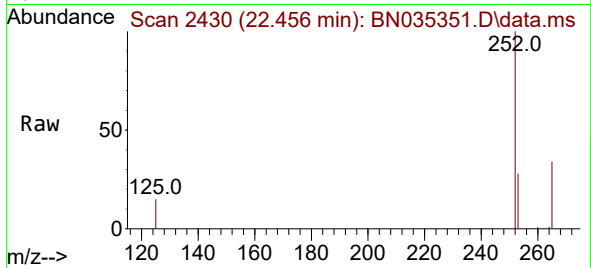




#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

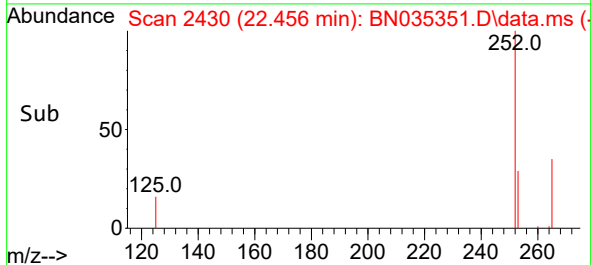
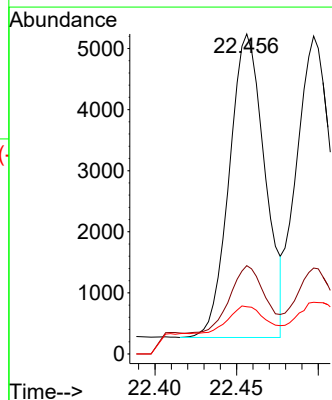
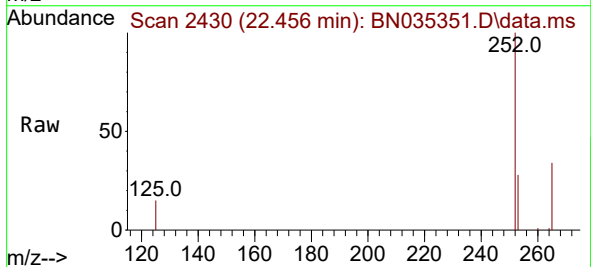
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

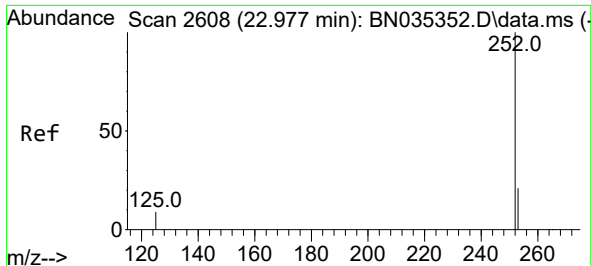
Tgt Ion:252 Resp: 7522
Ion Ratio Lower Upper
252 100
253 27.6 19.6 29.4
125 14.8 9.6 14.4#



#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# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

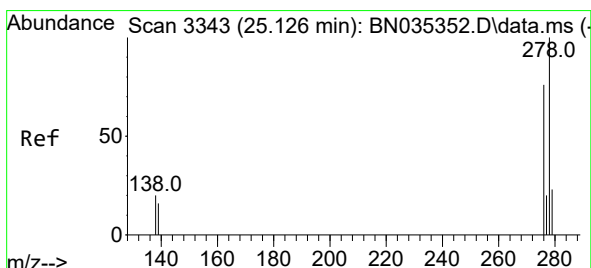
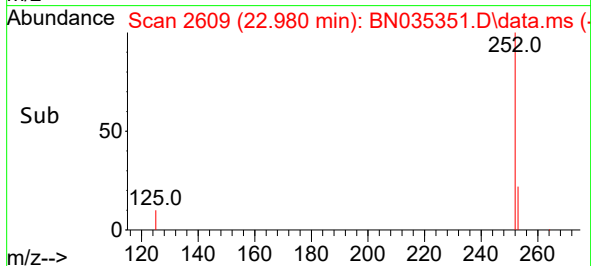
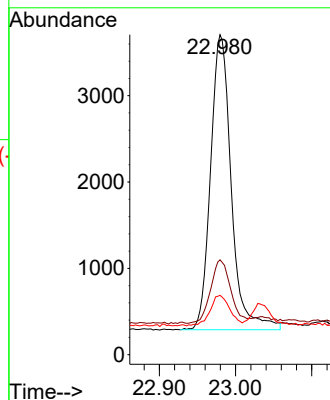
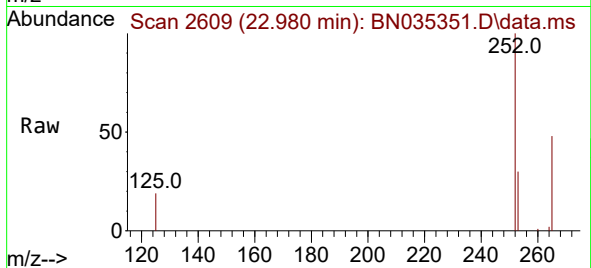
Tgt Ion:252 Resp: 6450

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

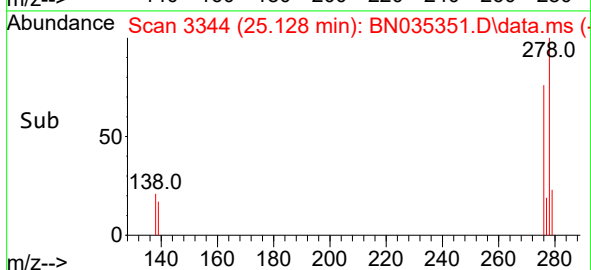
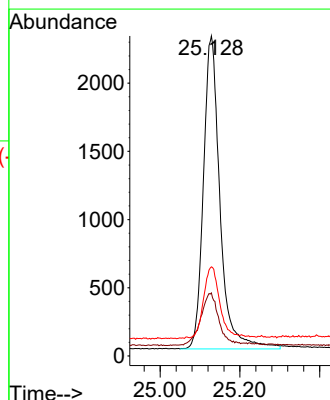
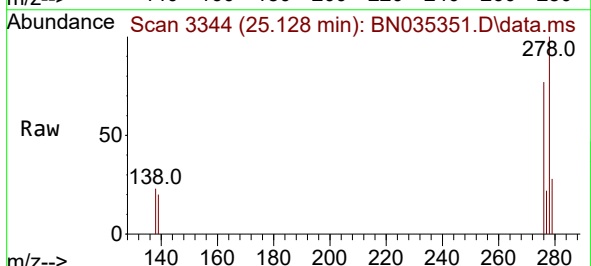
Tgt Ion:278 Resp: 6620

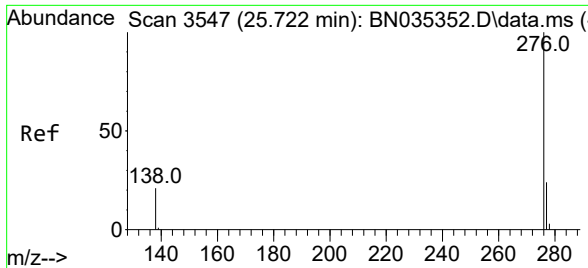
Ion Ratio Lower Upper

278 100

139 19.7 14.2 21.4

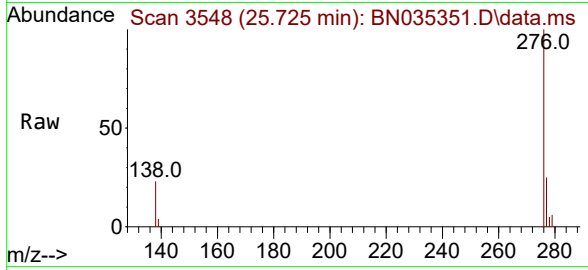
279 27.9 20.5 30.7



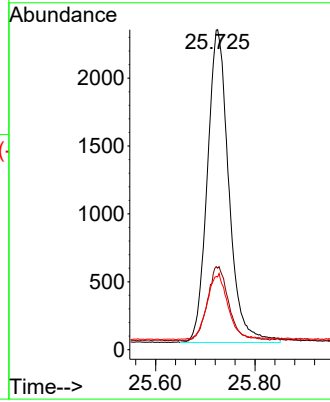
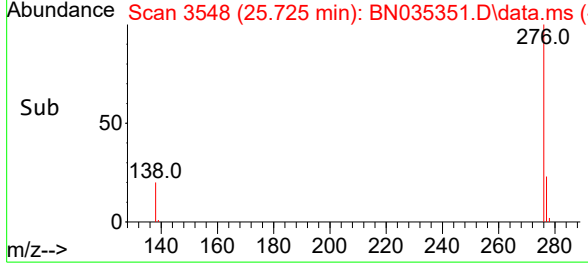


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



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

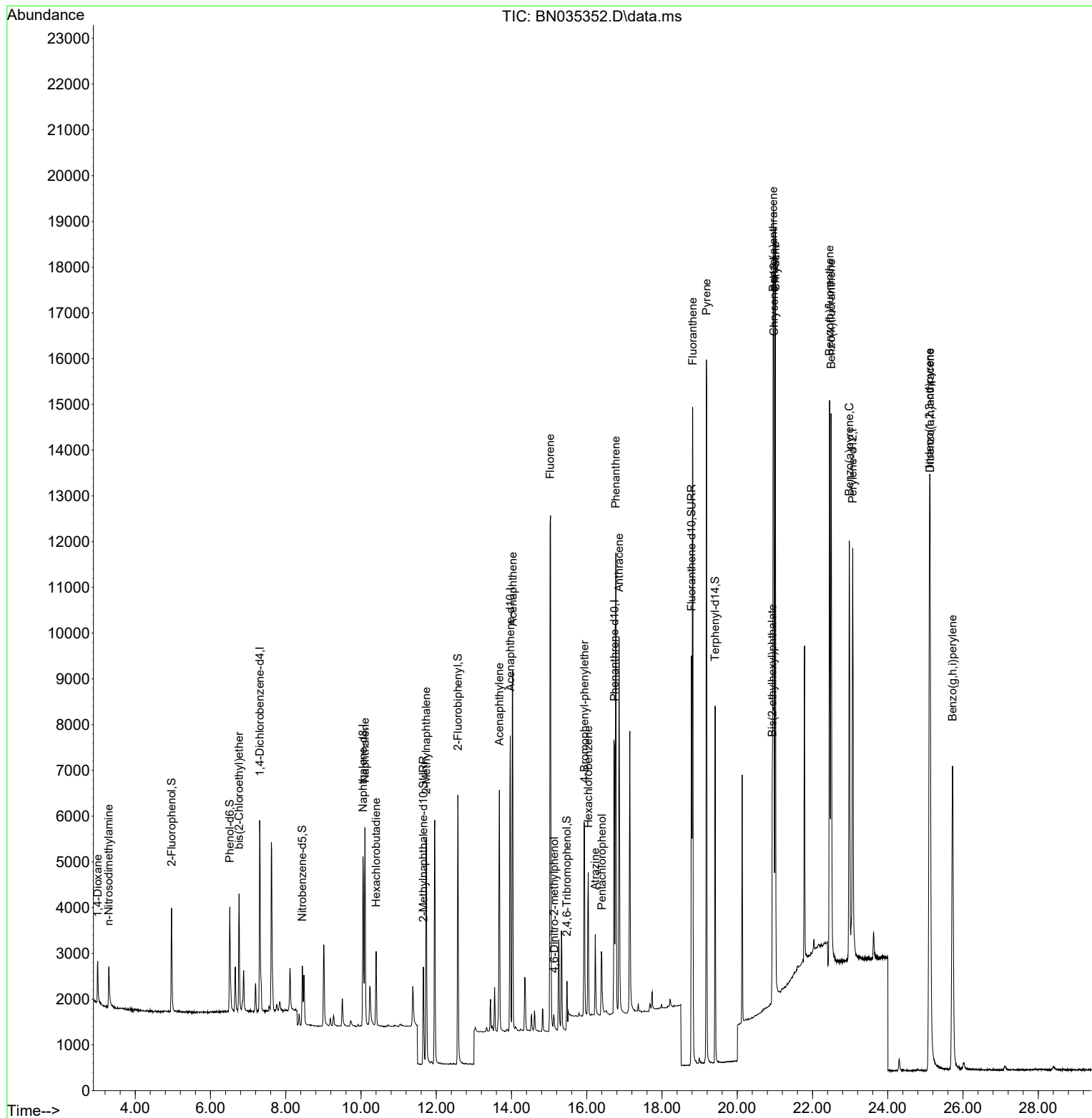
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng	0.00
29) Chrysene-d12	20.974	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

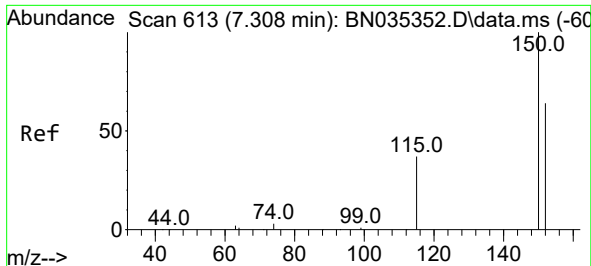
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

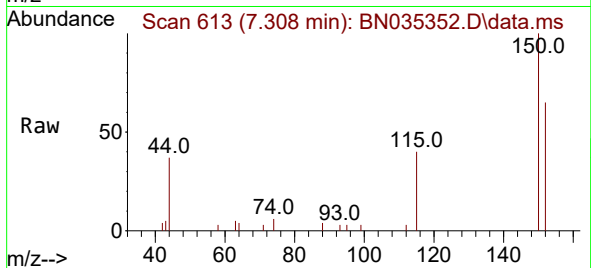
Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration





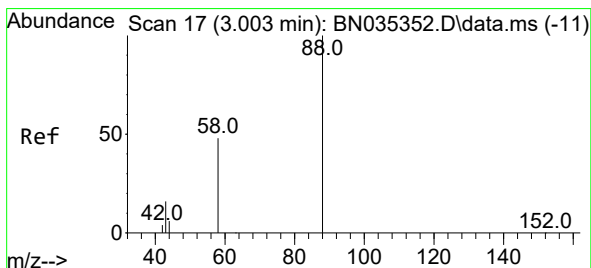
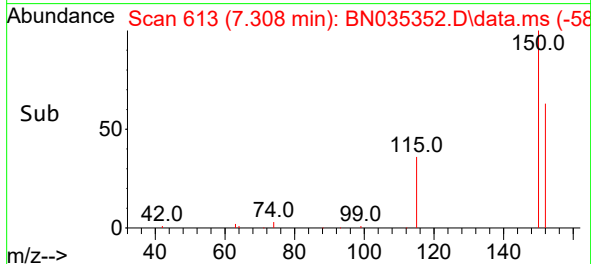
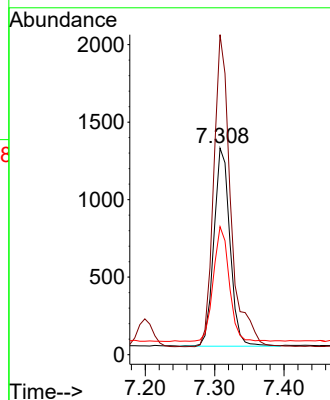
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 613
 Delta R.T. -0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.4



Tgt Ion: 152 Resp: 2048

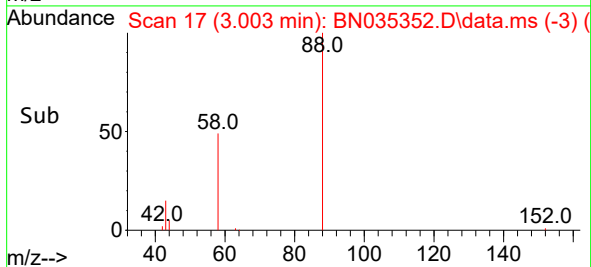
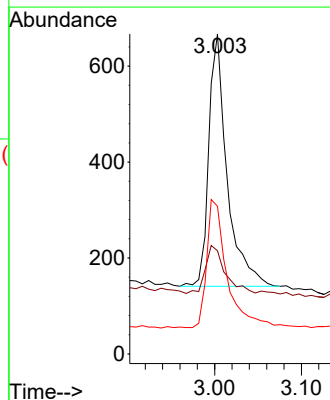
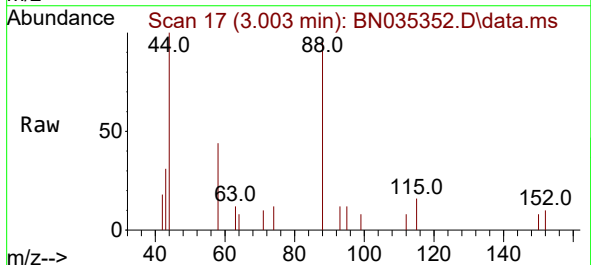
Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4

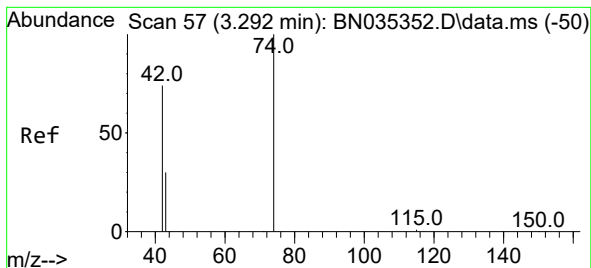


#2
 1,4-Dioxane
 Concen: 0.414 ng
 RT: 3.003 min Scan# 17
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

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# 51

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

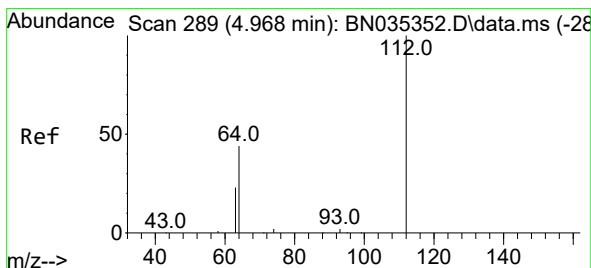
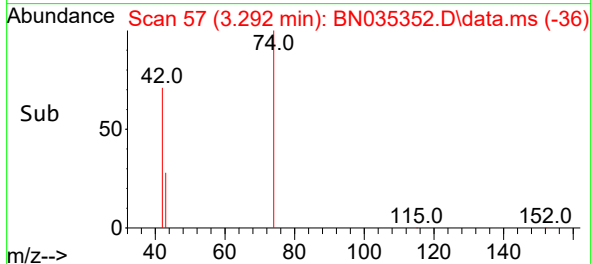
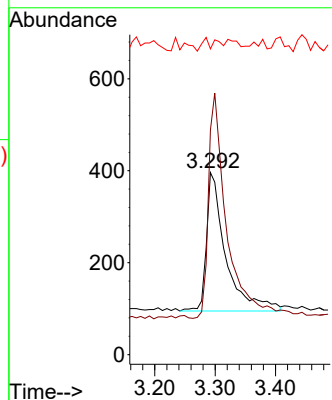
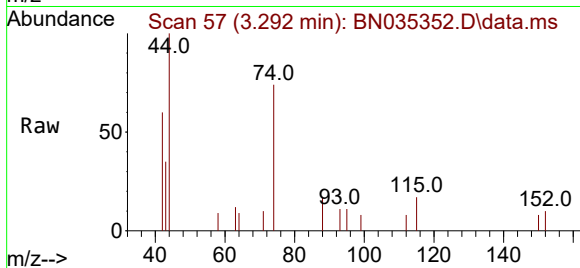
Tgt Ion: 42 Resp: 668

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

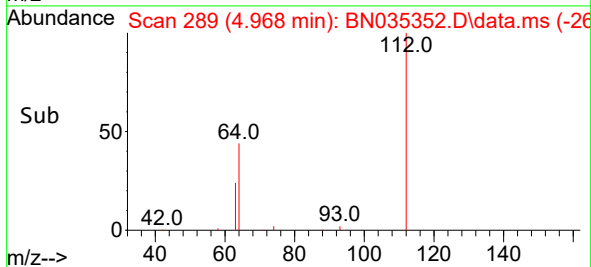
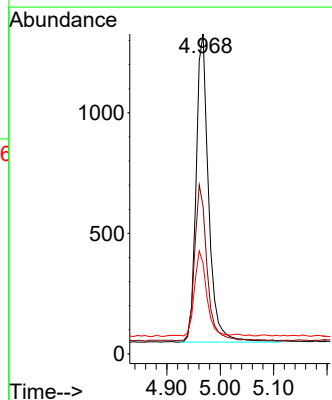
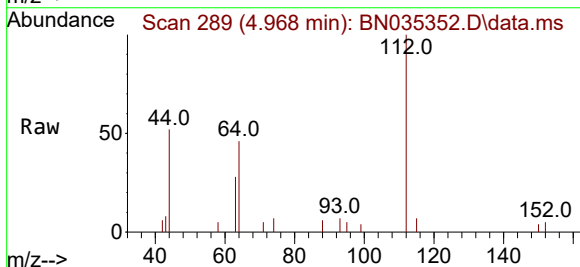
Tgt Ion: 112 Resp: 2085

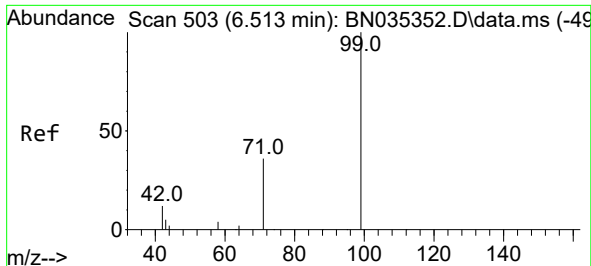
Ion Ratio Lower Upper

112 100

64 49.8 39.8 59.8

63 26.3 21.0 31.6

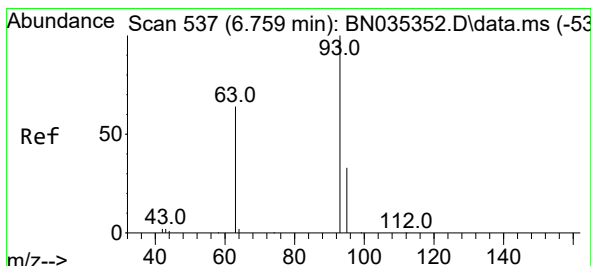
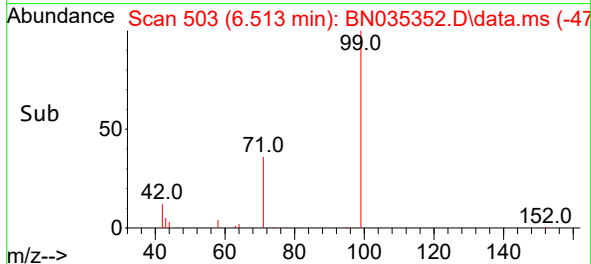
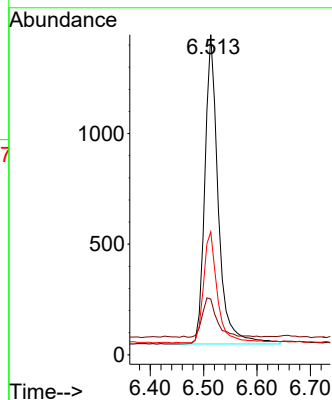
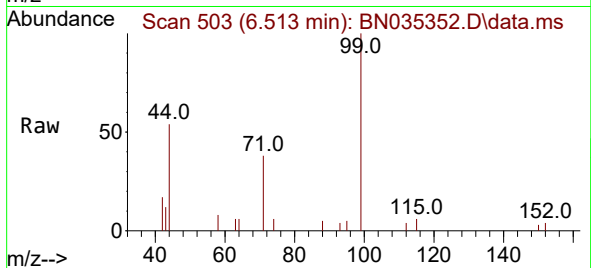




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

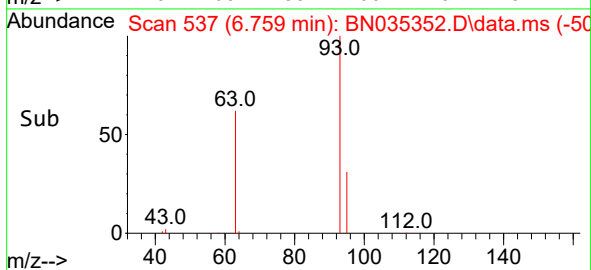
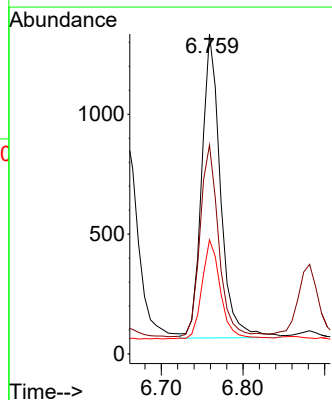
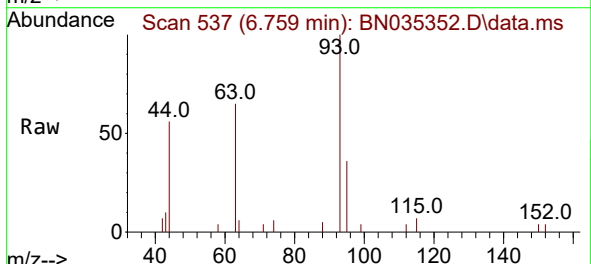
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

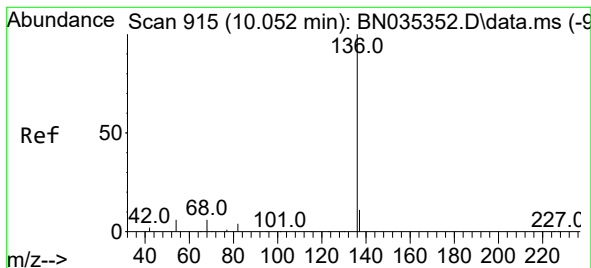
Tgt Ion: 99 Resp: 2444
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.2
71 36.6 29.3 43.9



#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

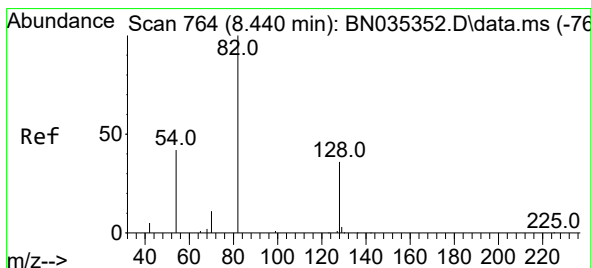
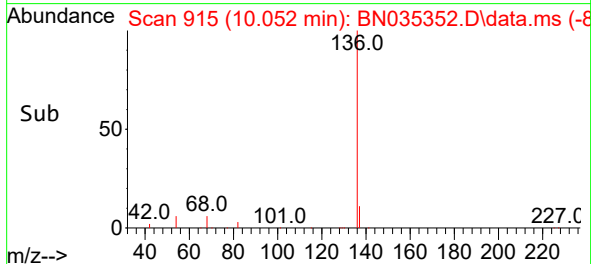
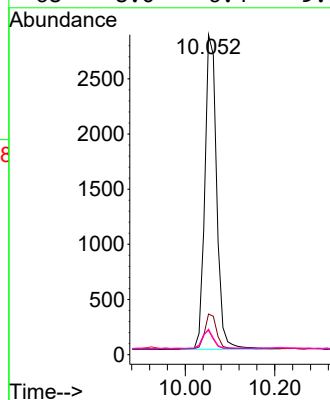
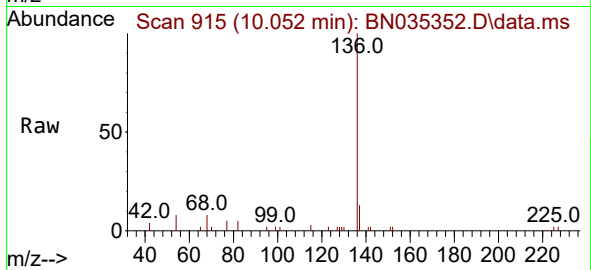




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

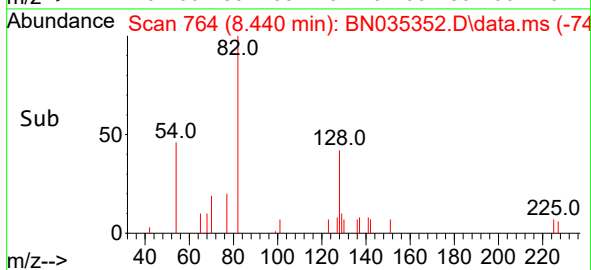
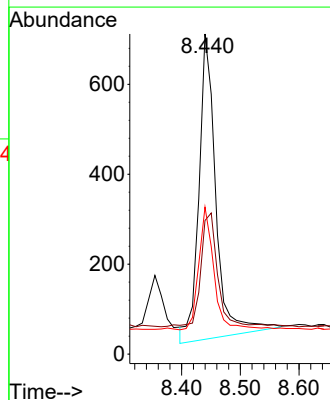
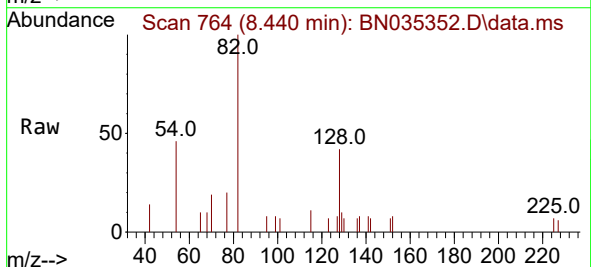
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

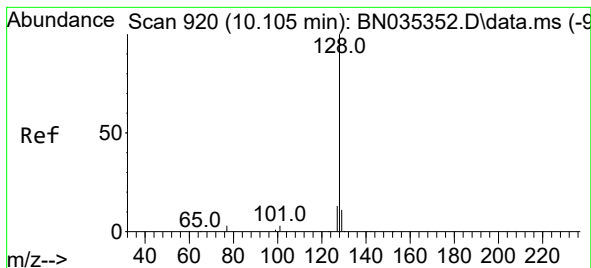
Tgt Ion:	136	Resp:	5229
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6



#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# 91

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

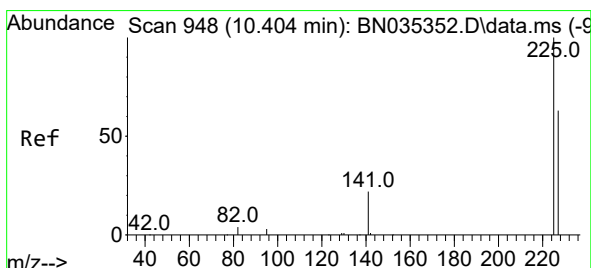
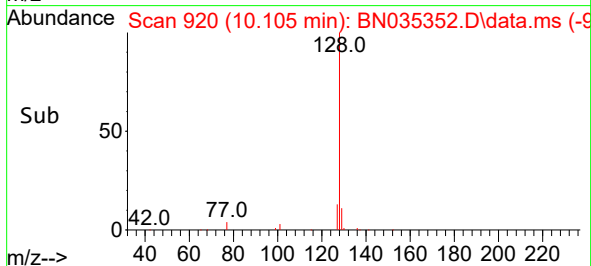
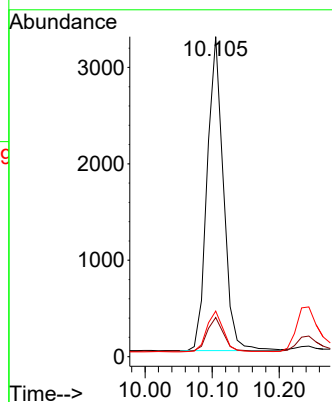
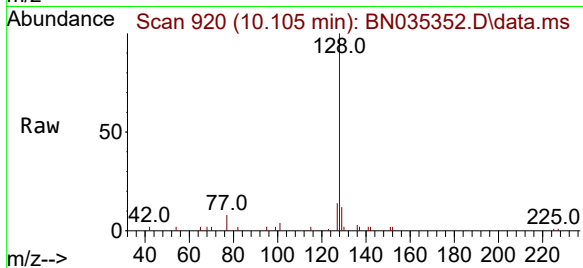
Tgt Ion:128 Resp: 5475

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

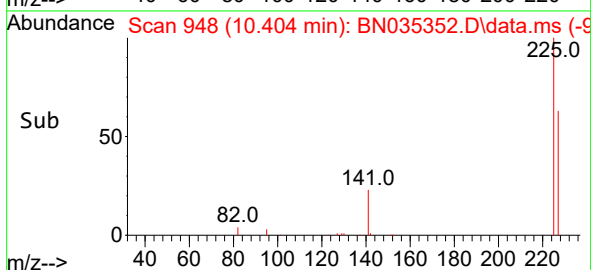
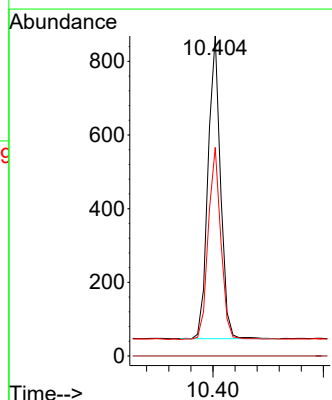
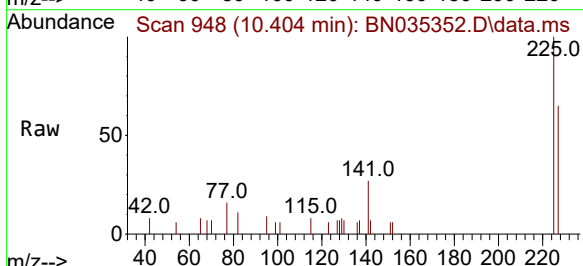
Tgt Ion:225 Resp: 1292

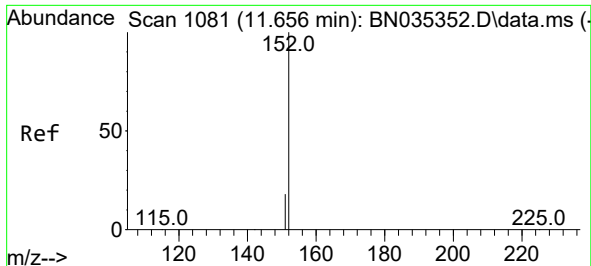
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

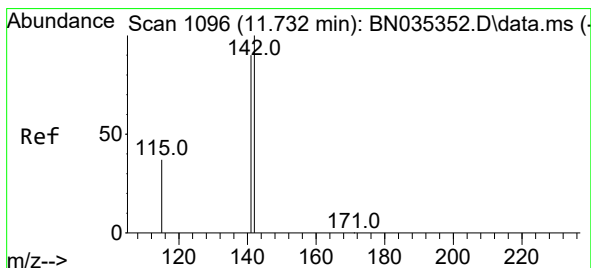
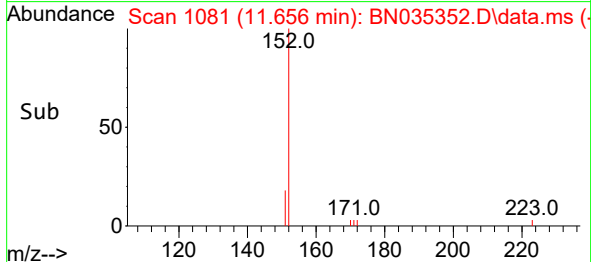
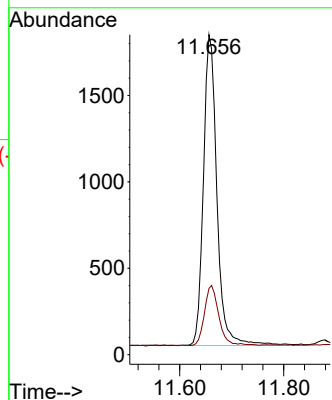
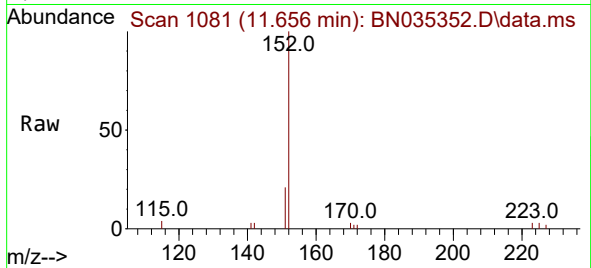




#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

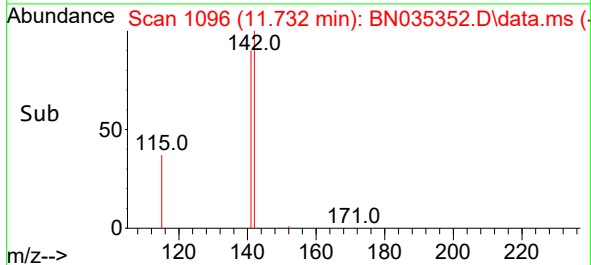
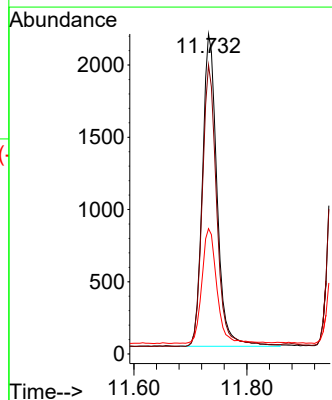
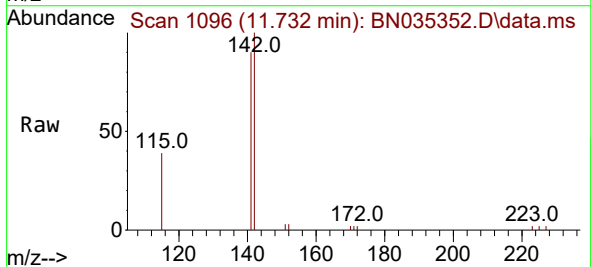
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

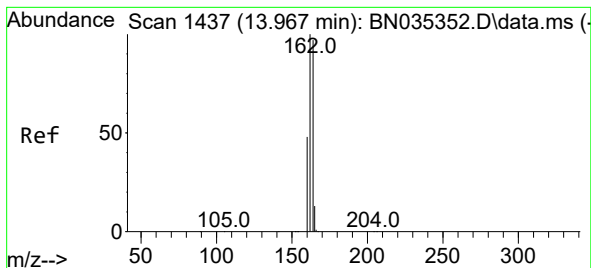
Tgt Ion:152 Resp: 3237
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#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# 1437

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

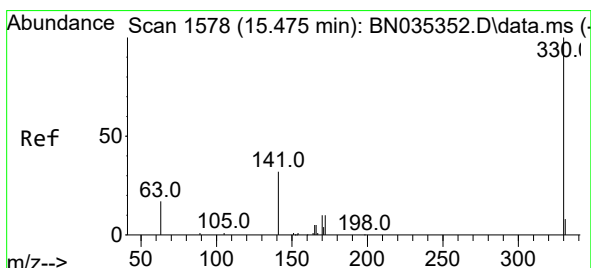
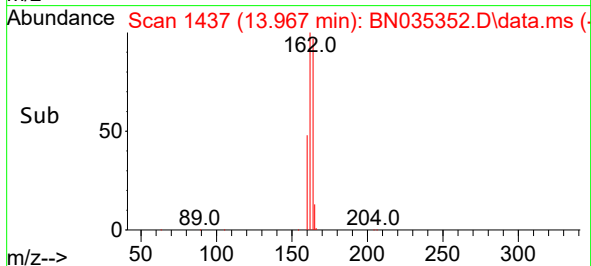
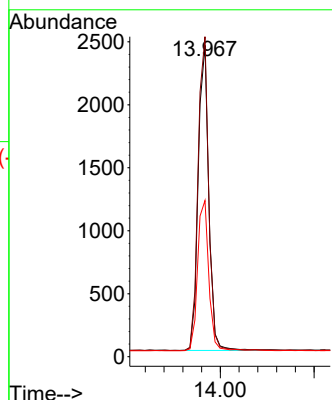
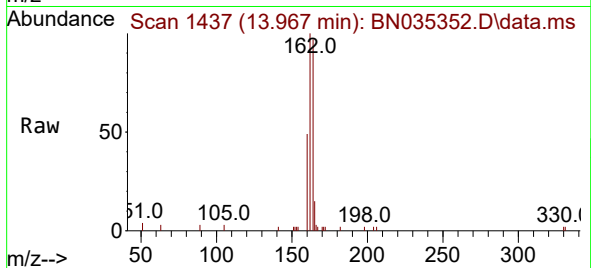
Tgt Ion:164 Resp: 3799

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

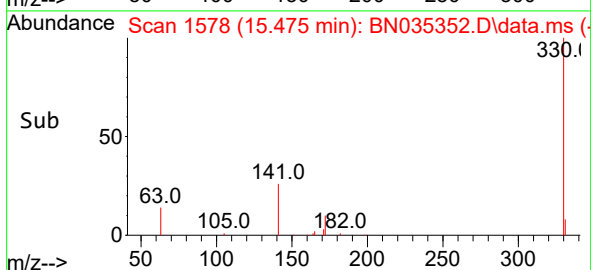
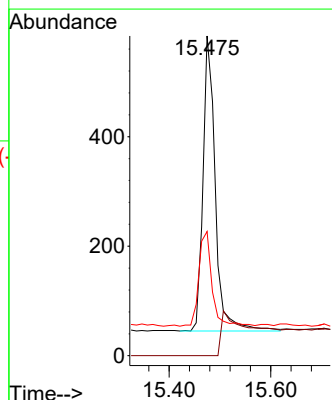
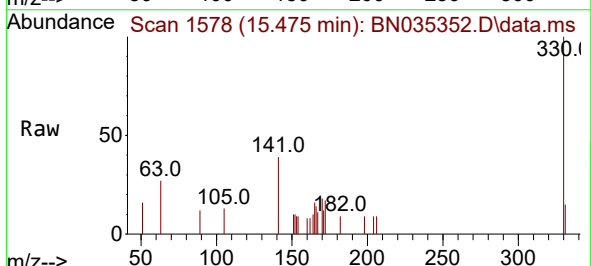
Tgt Ion:330 Resp: 975

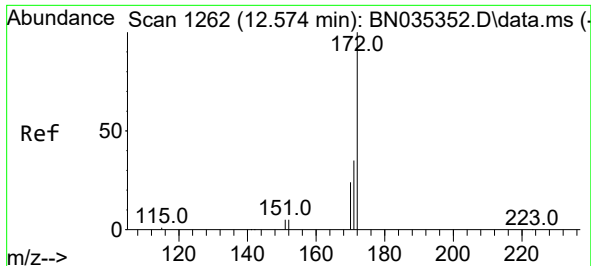
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 33.3 26.6 40.0

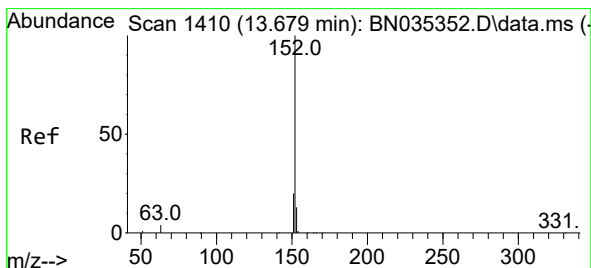
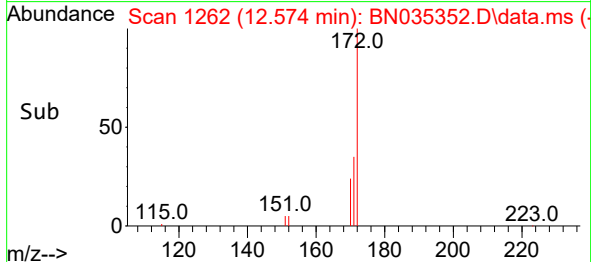
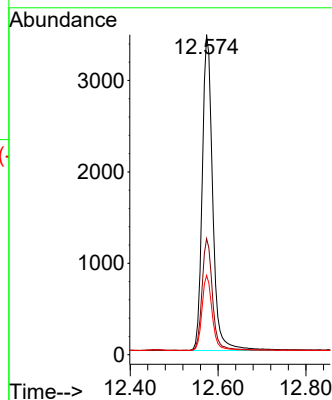
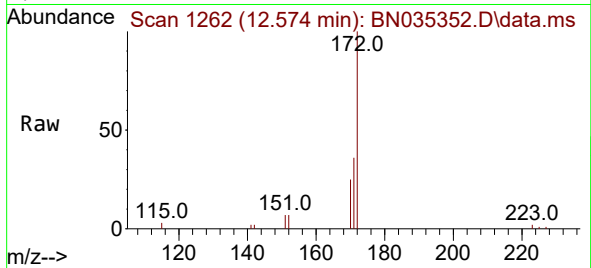




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

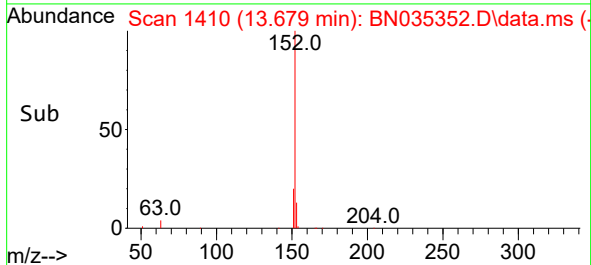
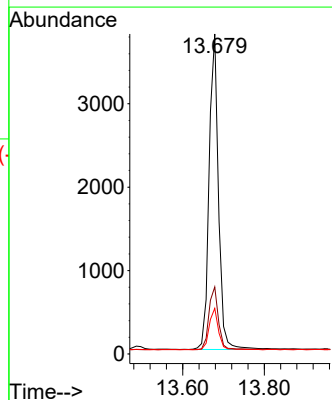
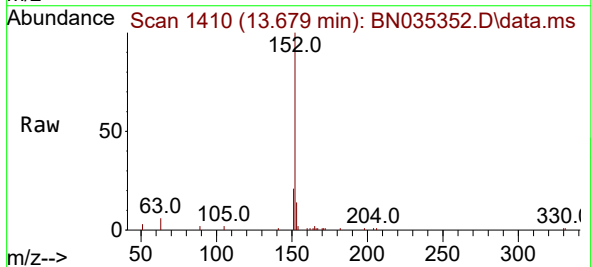
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

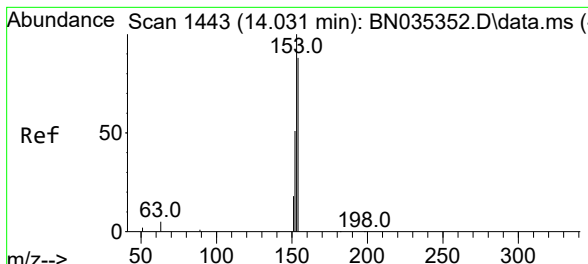
Tgt Ion:172	Resp:	5735
Ion Ratio	Lower	Upper
172	100	
171	36.2	29.0 43.4
170	24.8	19.8 29.8



#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

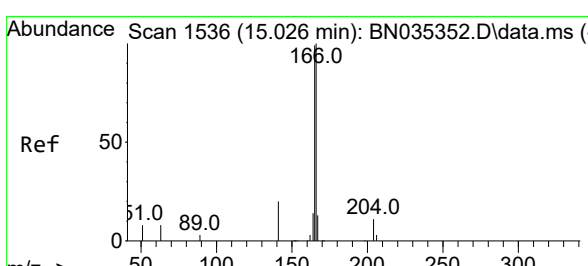
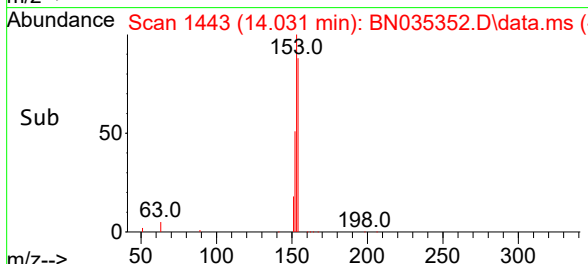
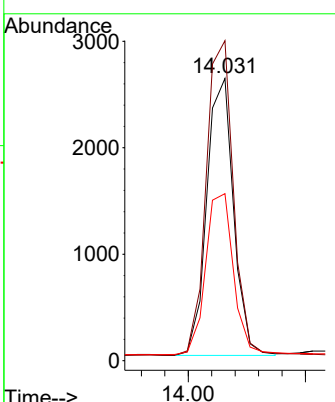
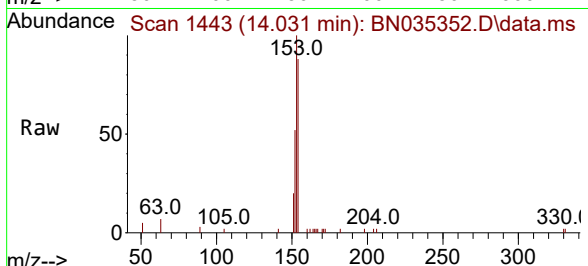




#17
 Acenaphthene
 Concen: 0.388 ng
 RT: 14.031 min Scan# 1443
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

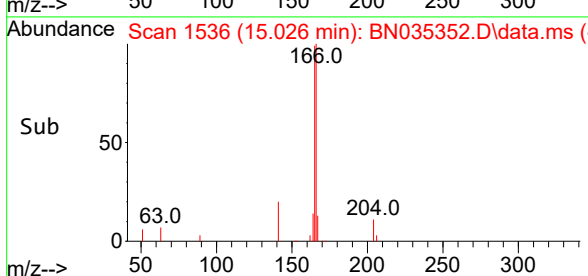
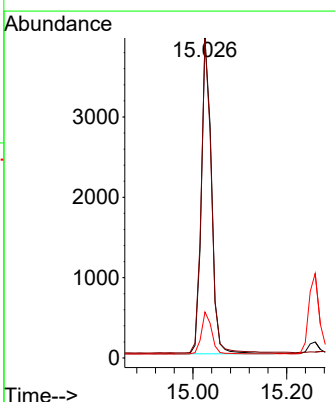
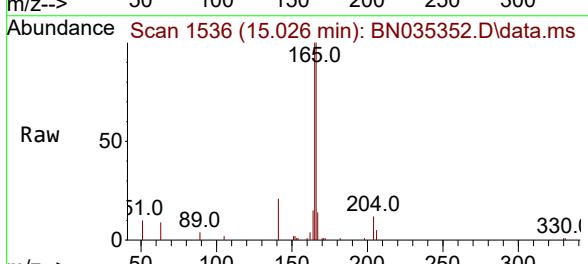
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

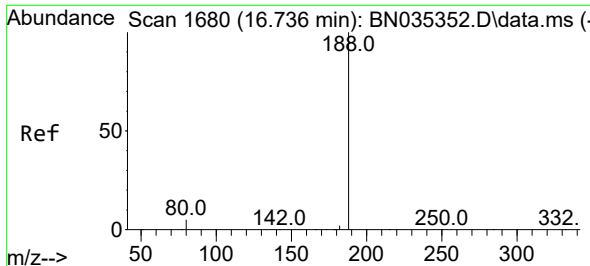
Tgt Ion:	154	Resp:	4125
Ion Ratio	Lower	Upper	
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6



#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

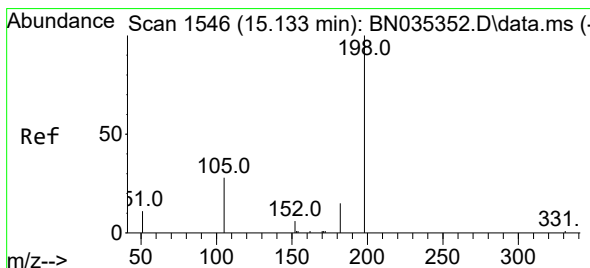
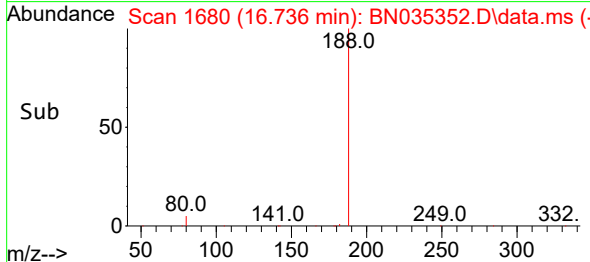
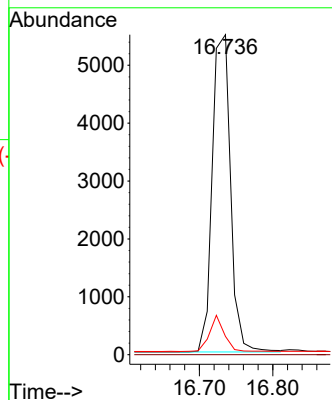
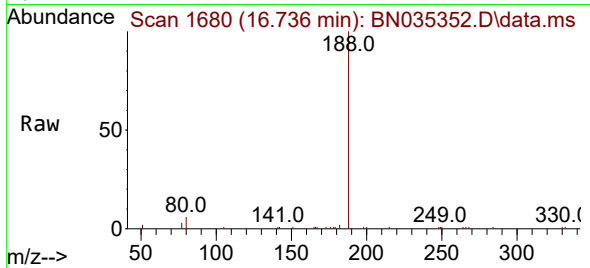




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

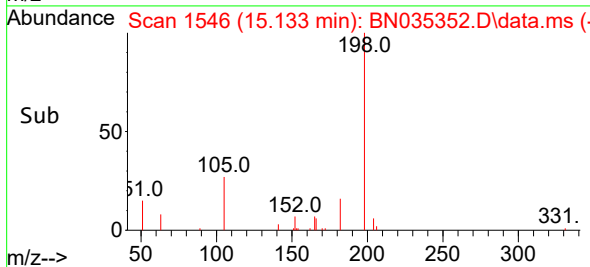
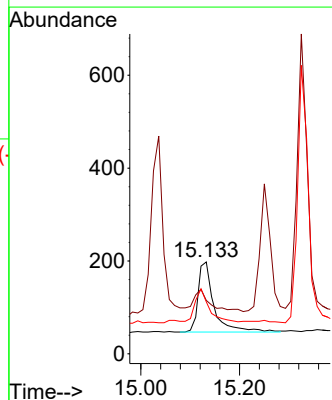
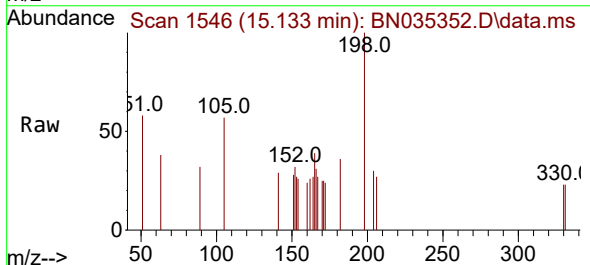
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

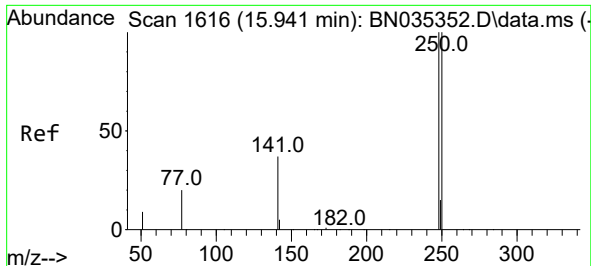
Tgt Ion:188 Resp: 9490
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.7 4.6 6.8



#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

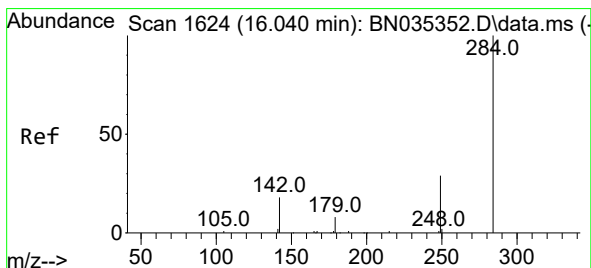
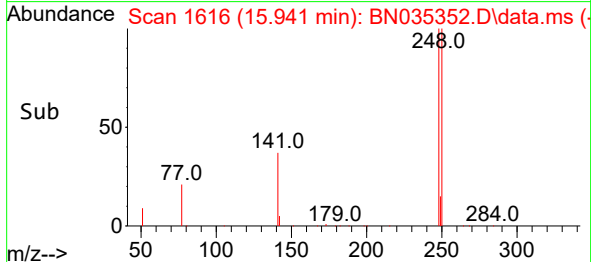
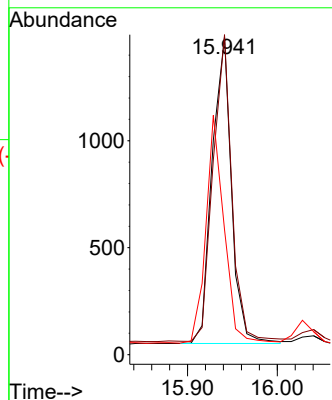
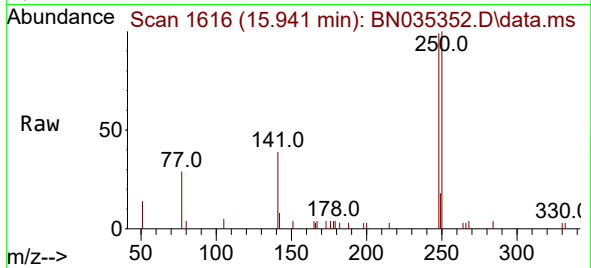




#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

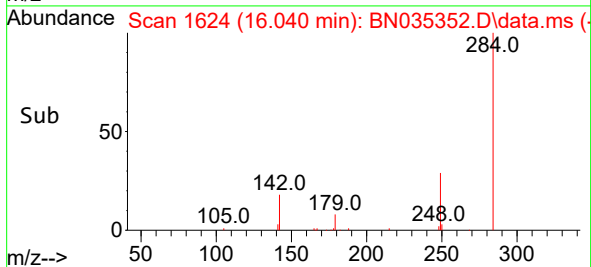
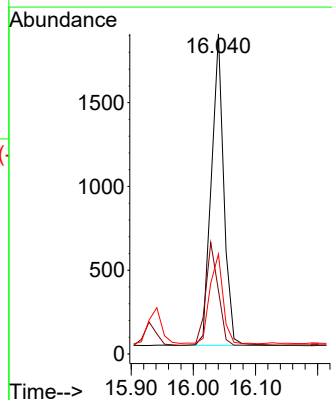
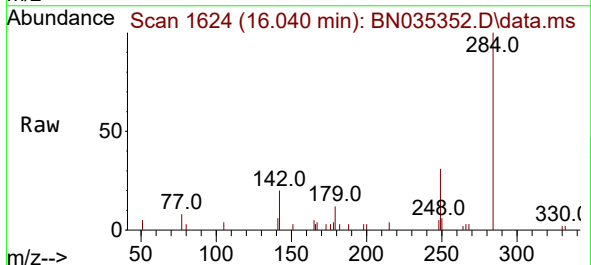
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

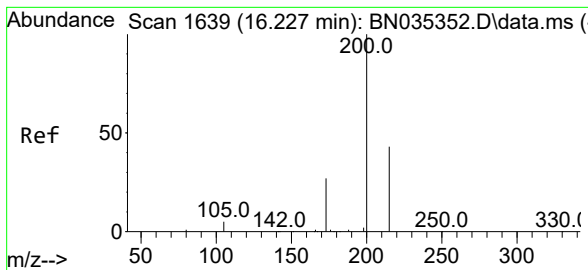
Tgt Ion:248 Resp: 2146
Ion Ratio Lower Upper
248 100
250 100.7 80.6 120.8
141 39.4 31.5 47.3



#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

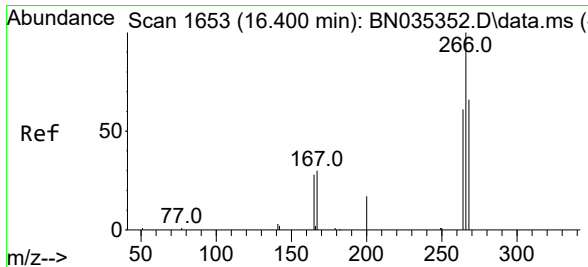
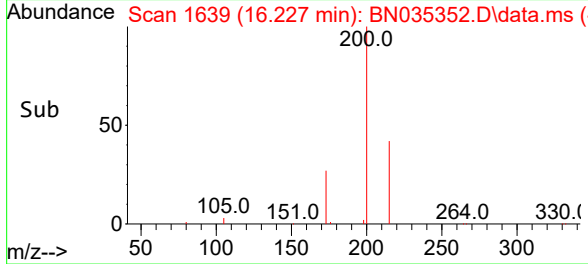
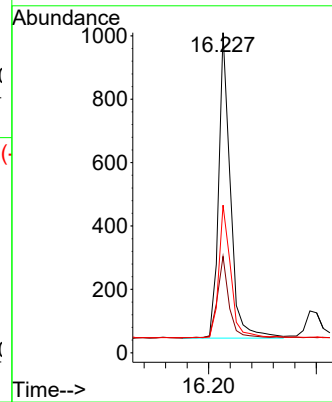
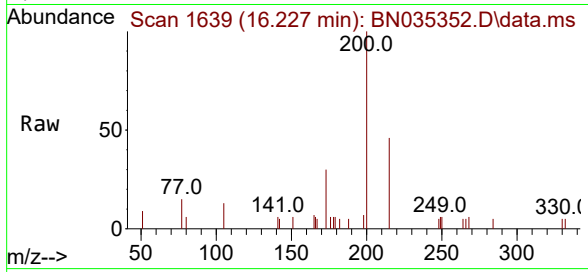




#23
Atrazine
 Concen: 0.269 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

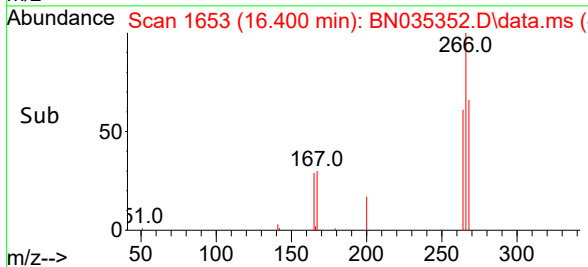
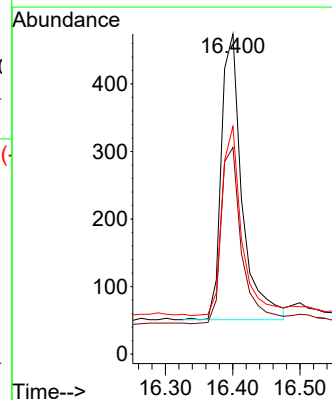
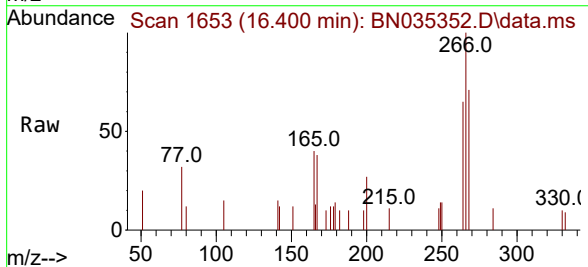
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.4

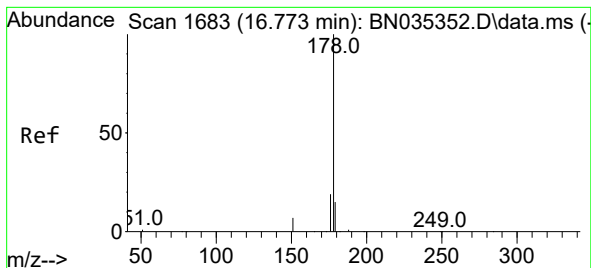
Tgt Ion:	200	Resp:	1461
Ion Ratio	Lower	Upper	
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3



#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# 1683

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

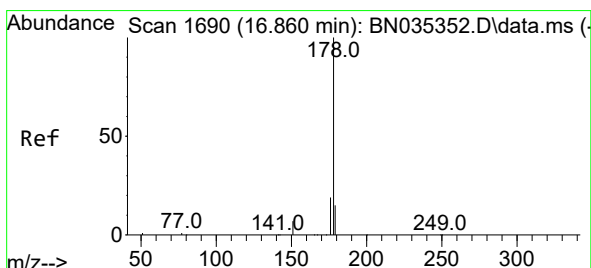
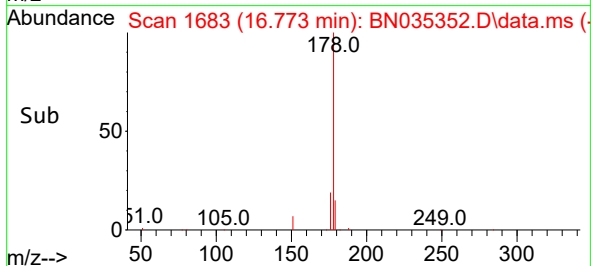
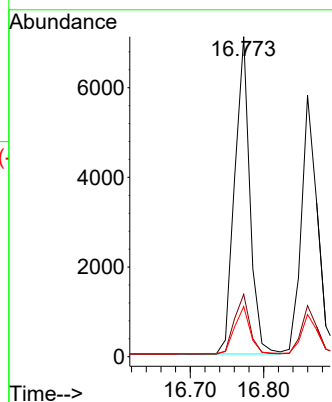
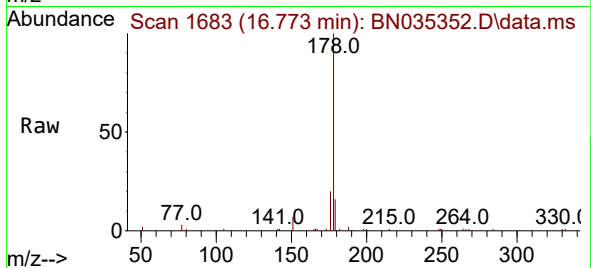
Tgt Ion:178 Resp: 10127

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

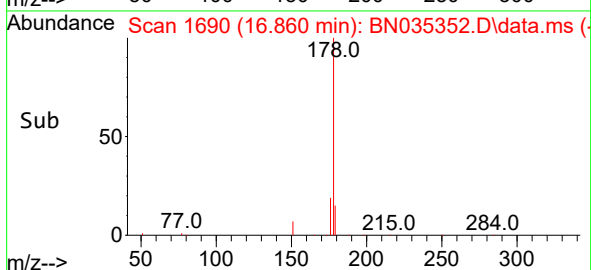
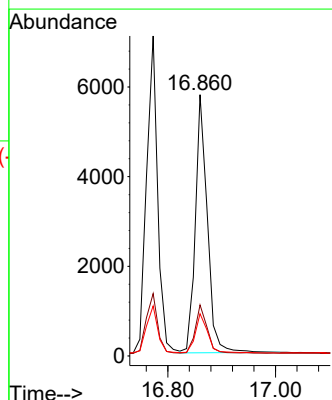
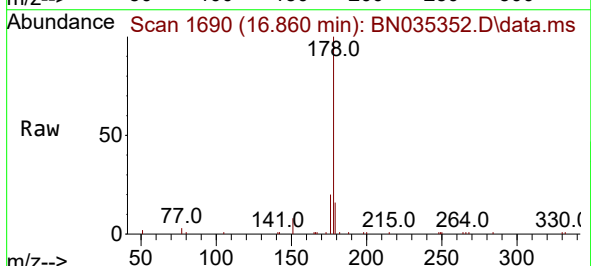
Tgt Ion:178 Resp: 8921

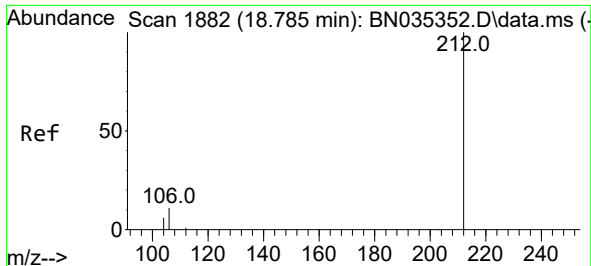
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.7 12.6 18.8

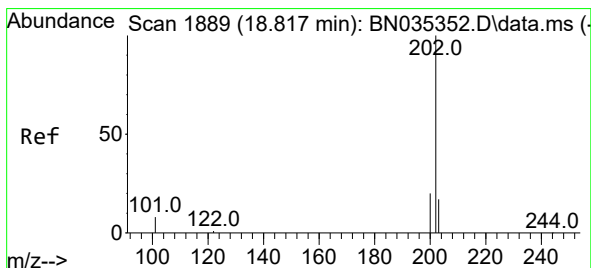
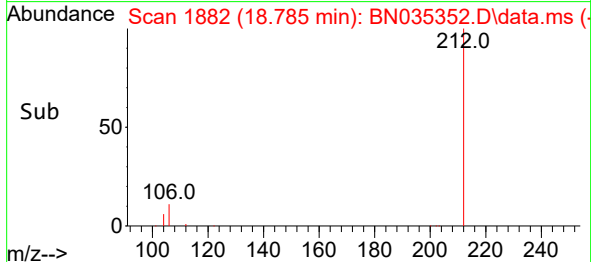
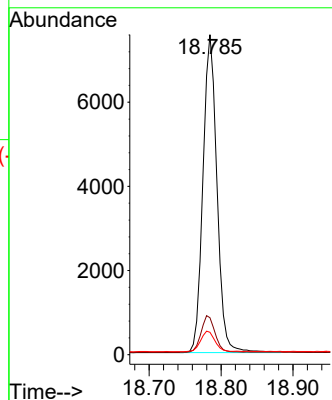
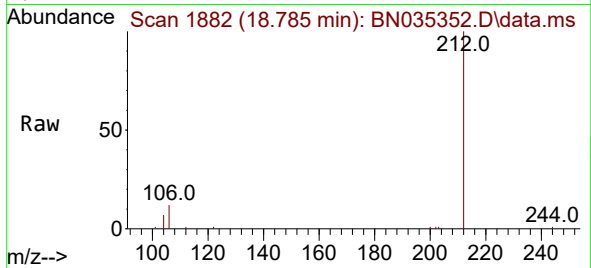




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

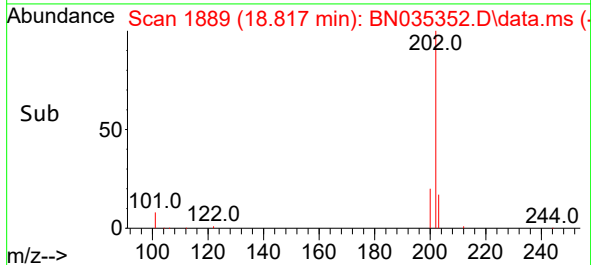
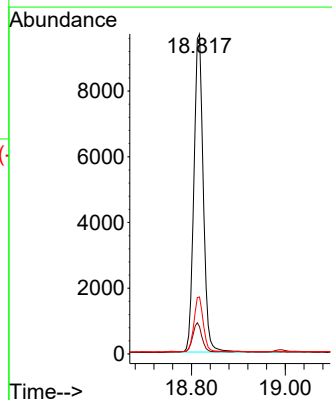
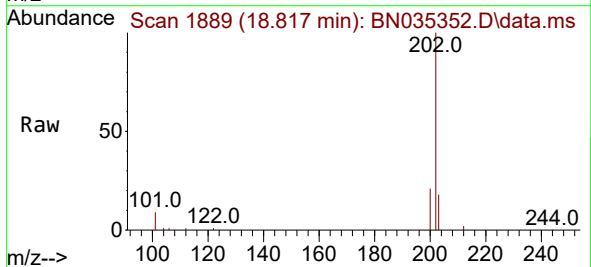
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

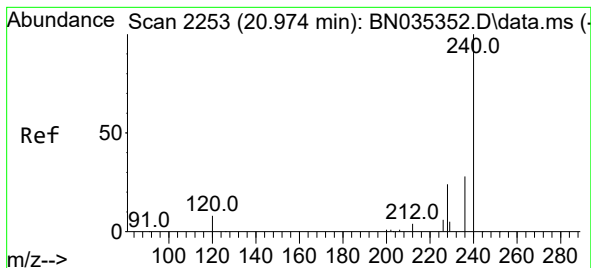
Tgt Ion:212 Resp: 10223
Ion Ratio Lower Upper
212 100
106 11.5 9.2 13.8
104 6.6 5.3 7.9



#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# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

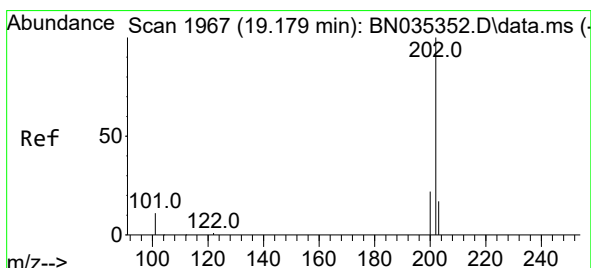
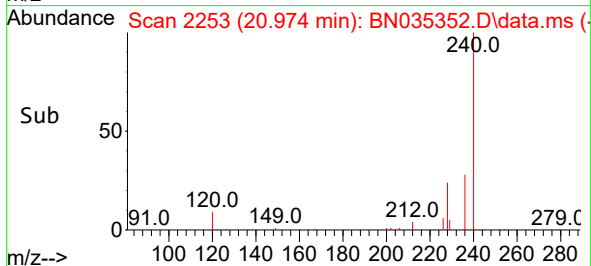
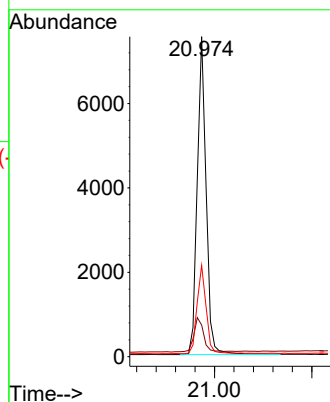
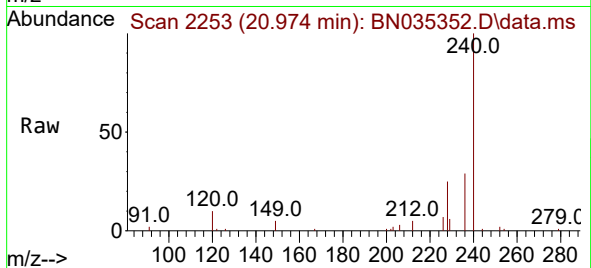
Tgt Ion:240 Resp: 9527

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

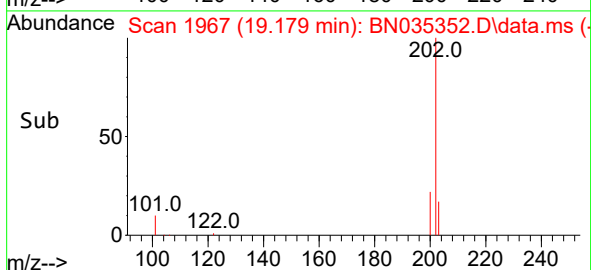
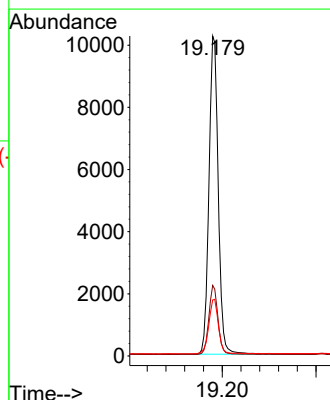
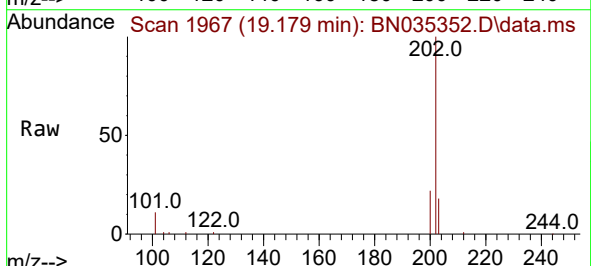
Tgt Ion:202 Resp: 14053

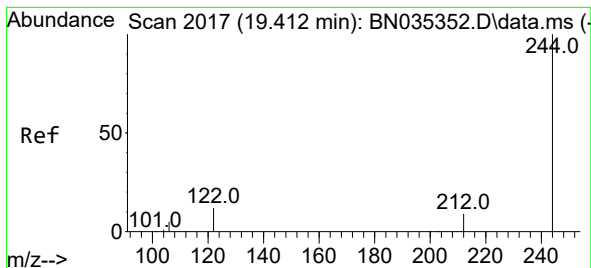
Ion Ratio Lower Upper

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# 2017

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

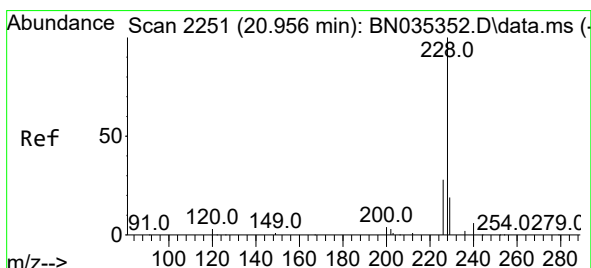
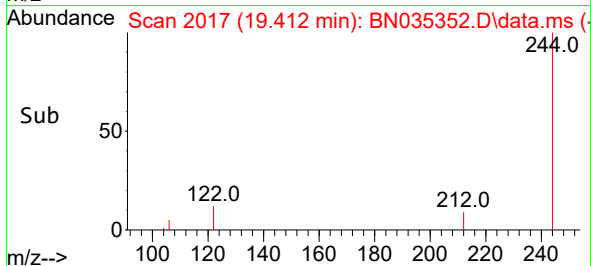
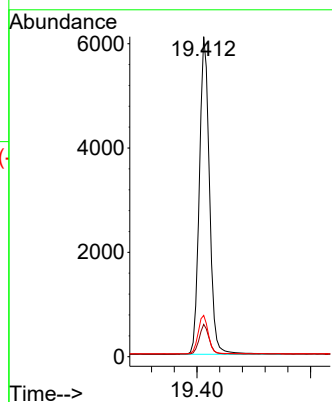
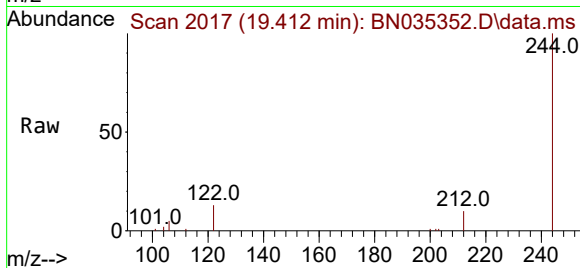
Tgt Ion:244 Resp: 7533

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

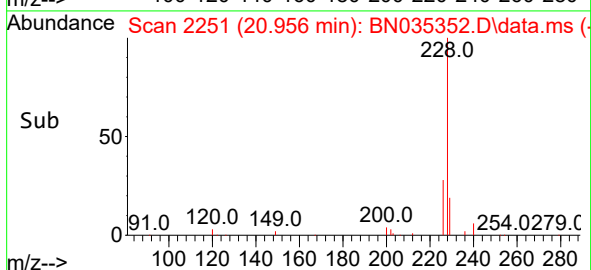
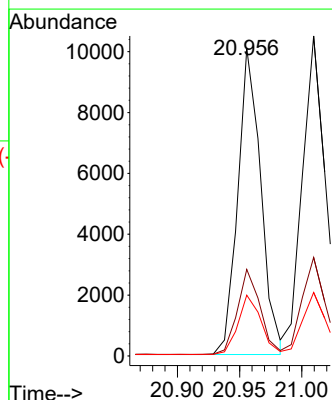
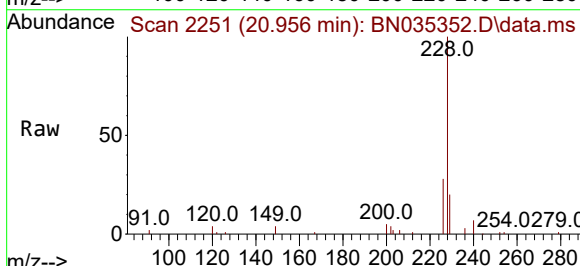
Tgt Ion:228 Resp: 12908

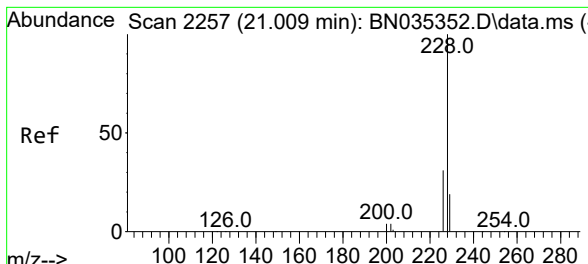
Ion Ratio Lower Upper

228 100

226 28.1 22.5 33.7

229 19.8 15.8 23.8

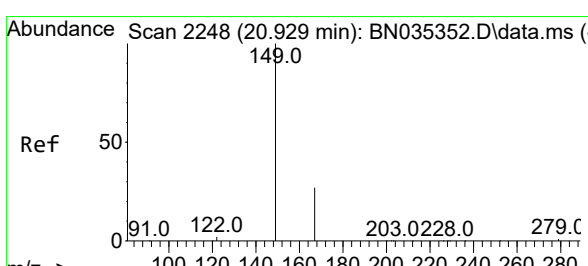
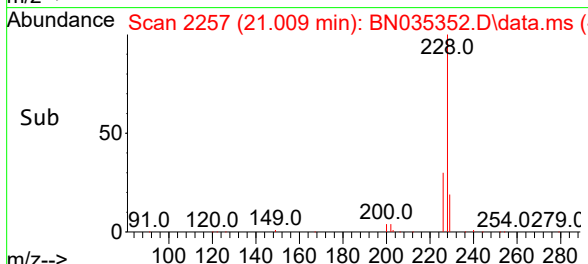
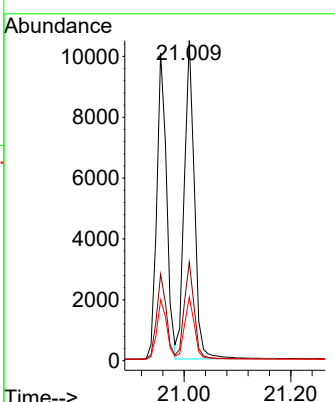
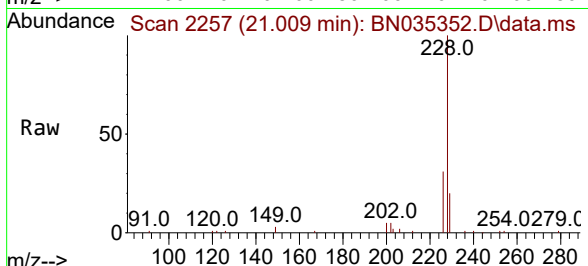




#33
 Chrysene
 Concen: 0.418 ng
 RT: 21.009 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

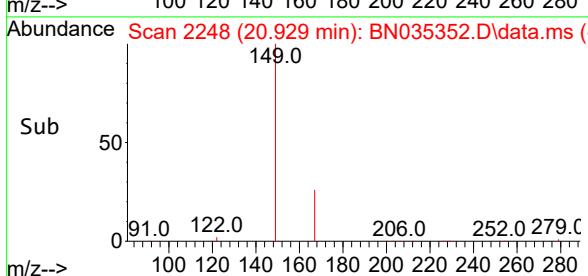
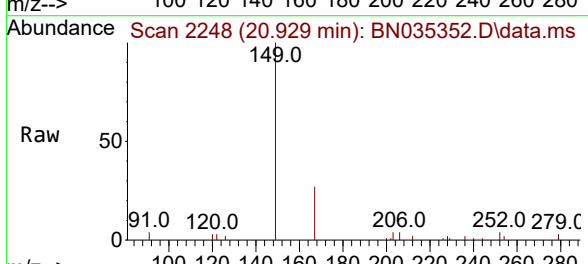
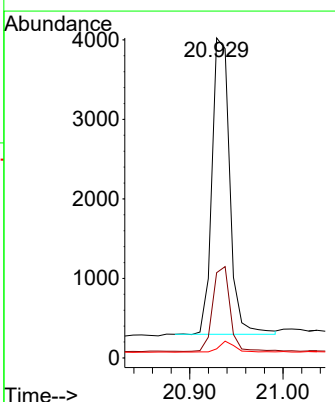
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

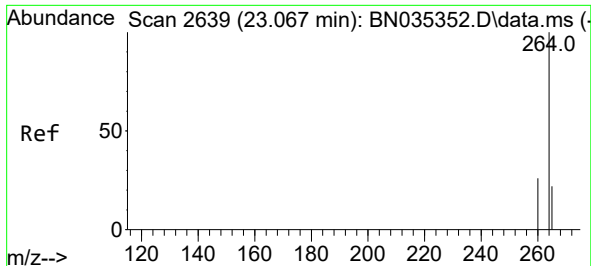
Tgt Ion:	228	Resp:	13729
Ion Ratio	Lower	Upper	
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9



#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

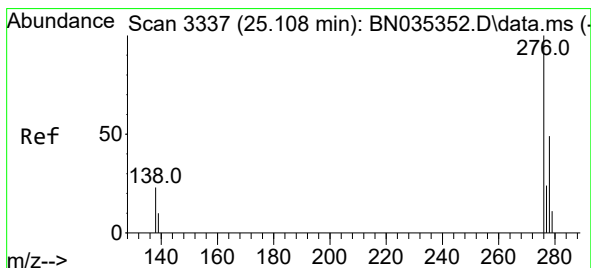
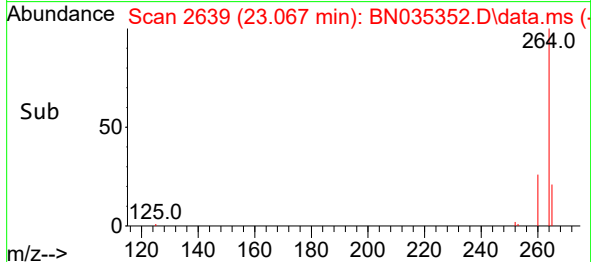
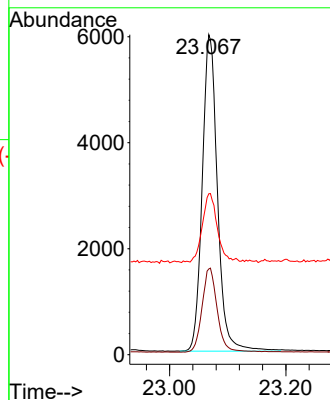
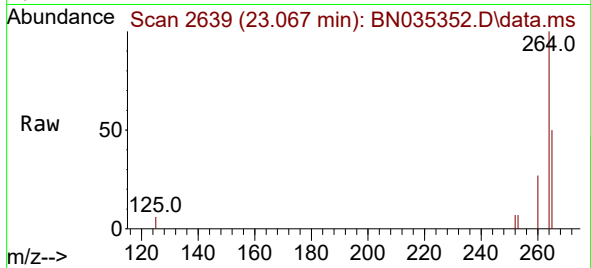




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

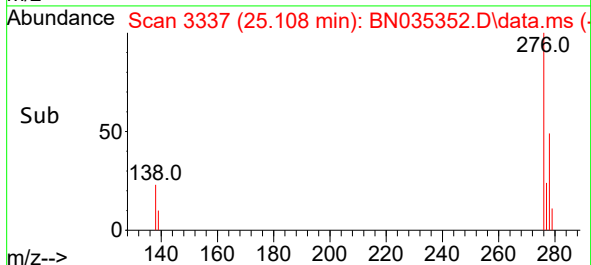
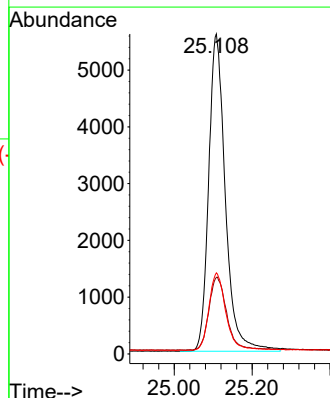
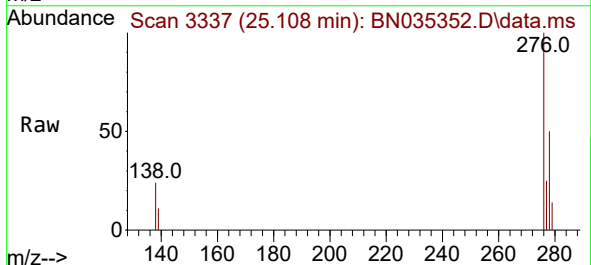
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

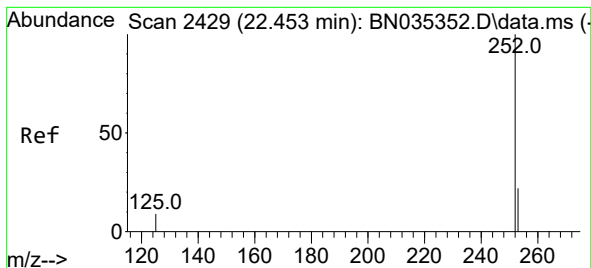
Tgt Ion:264 Resp: 10842
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 50.3 40.2 60.4



#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# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

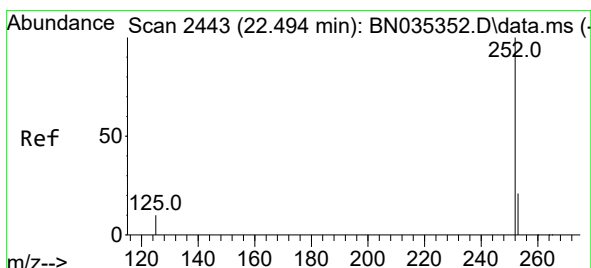
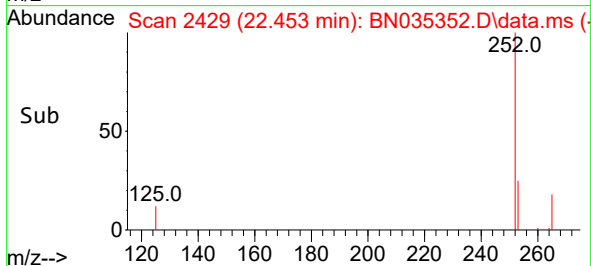
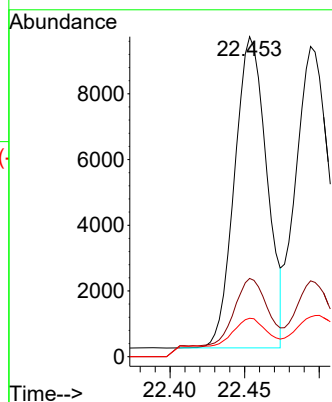
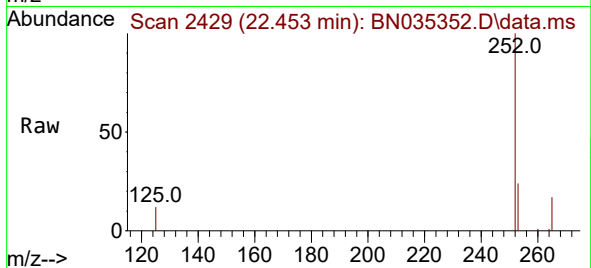
Tgt Ion:252 Resp: 14235

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

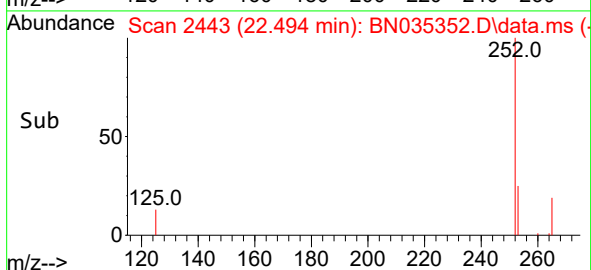
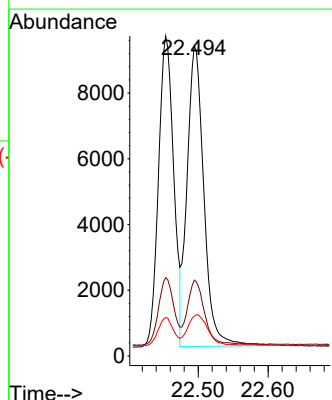
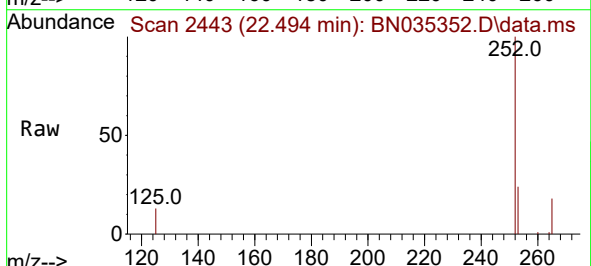
Tgt Ion:252 Resp: 15199

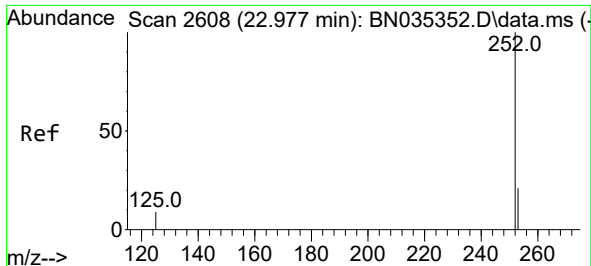
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 12.8 10.2 15.4

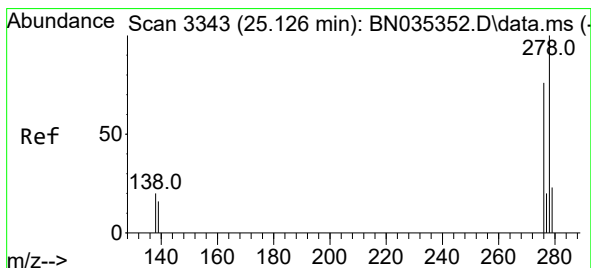
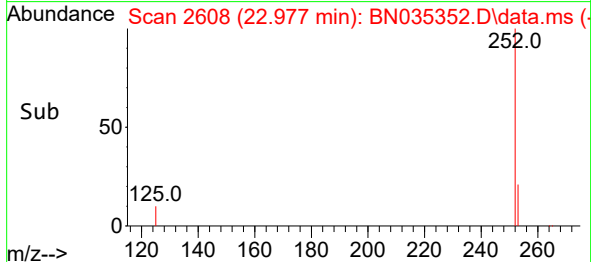
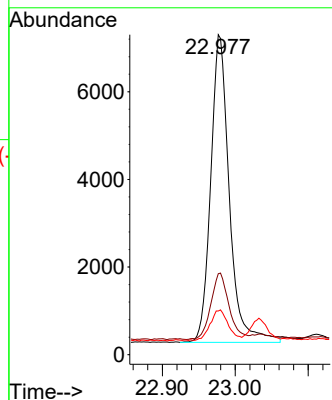
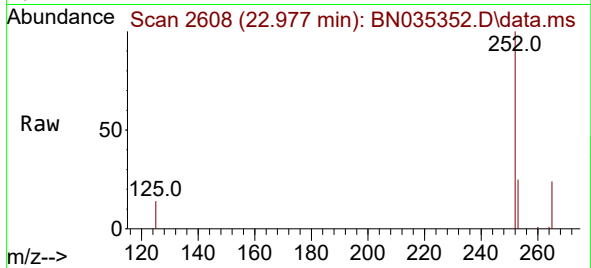




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

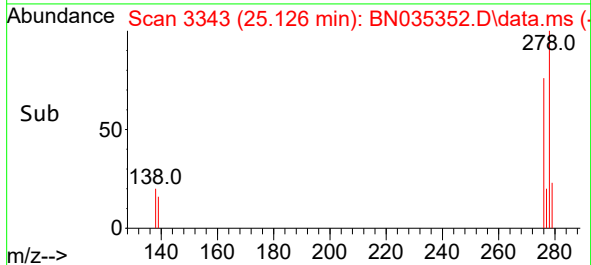
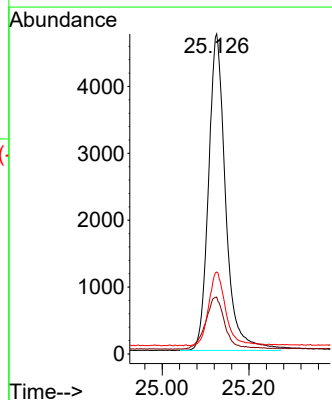
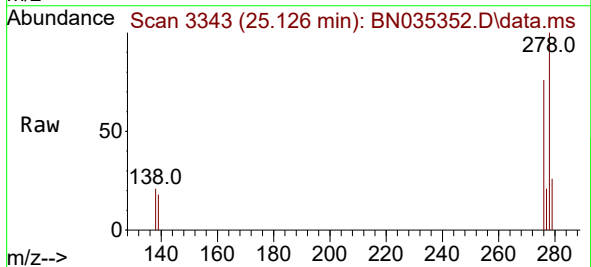
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

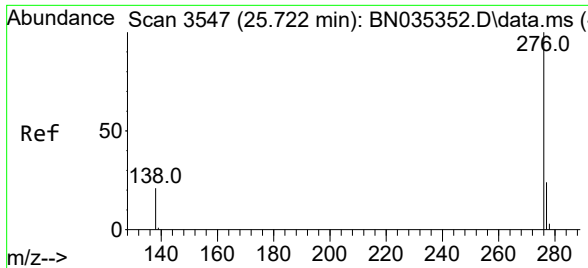
Tgt Ion:	252	Resp:	12425
Ion Ratio	Lower	Upper	
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3



#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

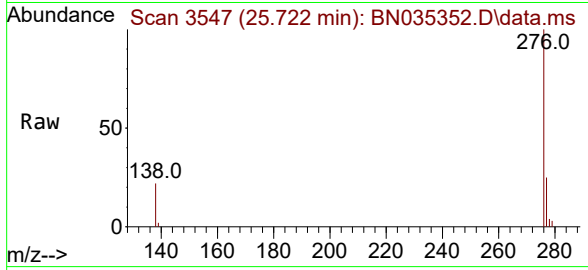
Tgt Ion:	278	Resp:	12948
Ion Ratio	Lower	Upper	
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7



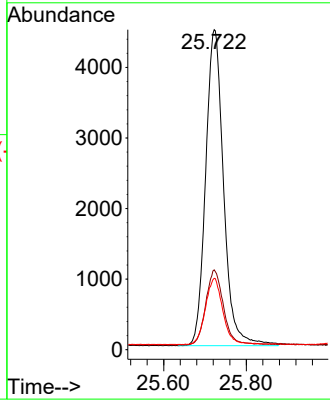
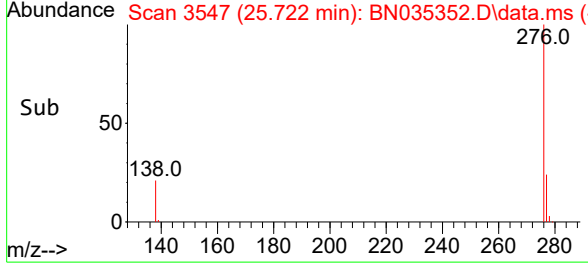


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



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

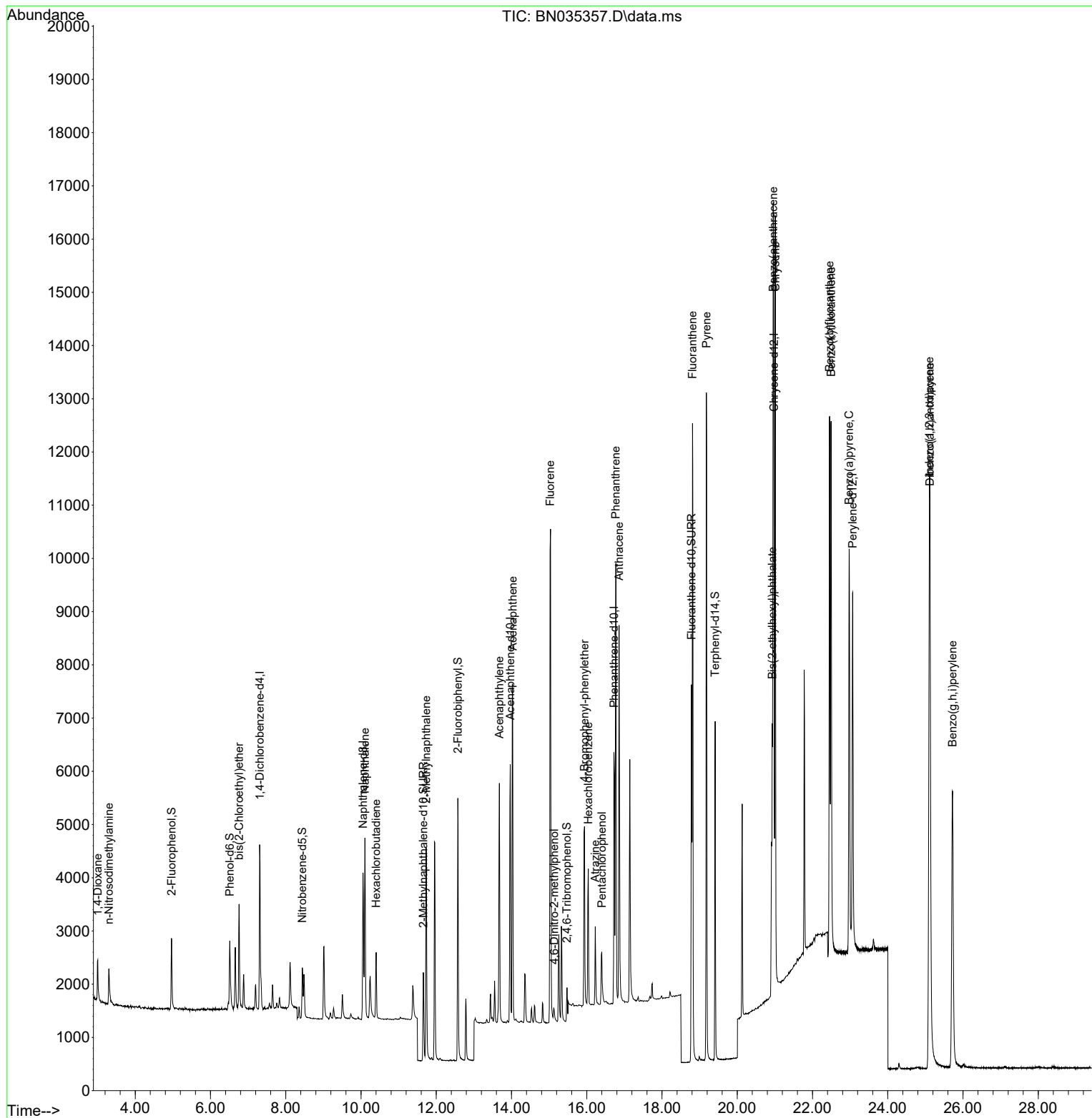
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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						
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

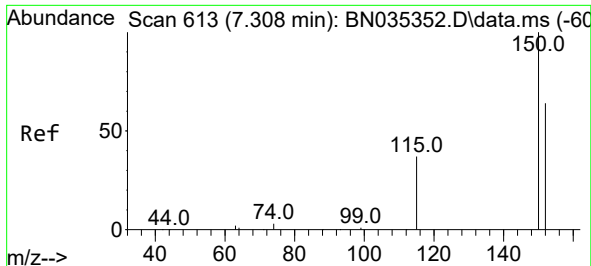
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

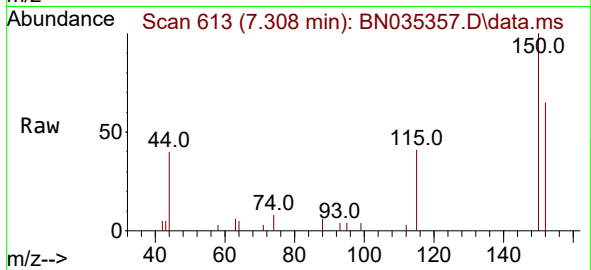
Quant Time: Nov 27 23:06:03 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



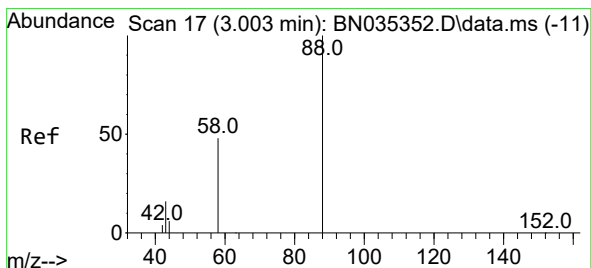
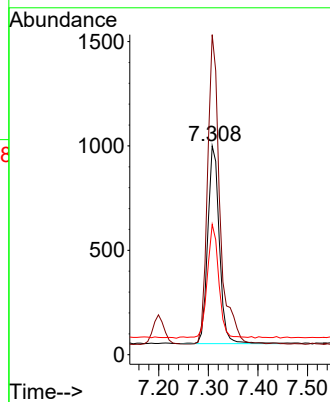
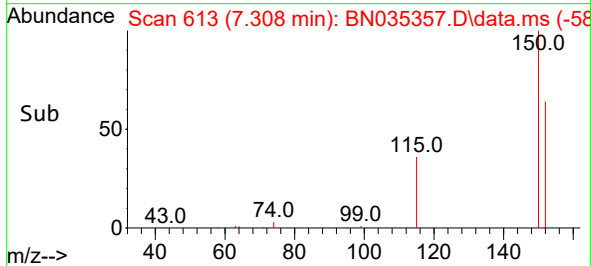


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

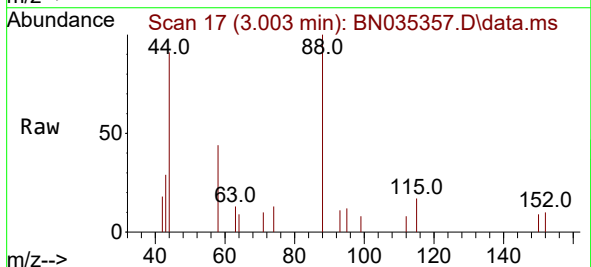
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724



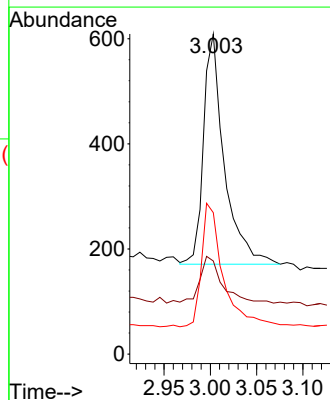
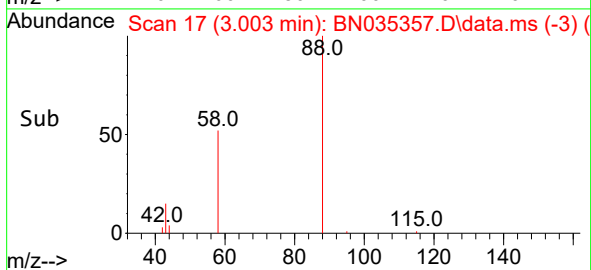
Tgt Ion:152 Resp: 1540
 Ion Ratio Lower Upper
 152 100
 150 153.3 124.0 186.0
 115 62.4 49.6 74.4

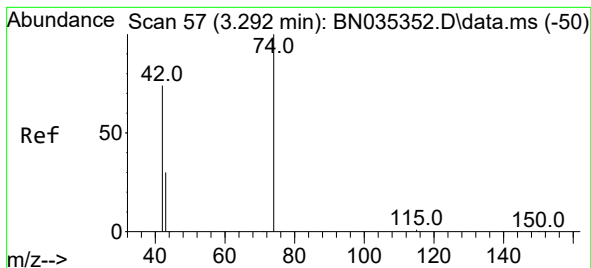


#2
 1,4-Dioxane
 Concen: 0.465 ng
 RT: 3.003 min Scan# 17
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21



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# 51

Delta R.T. 0.007 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

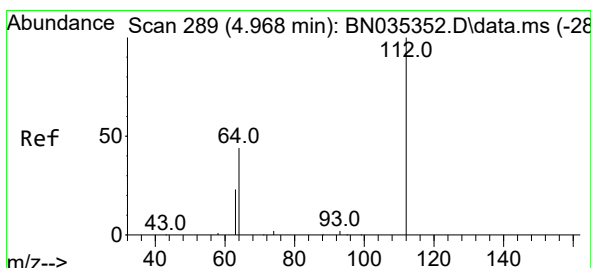
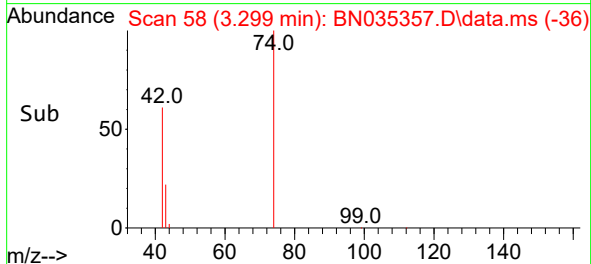
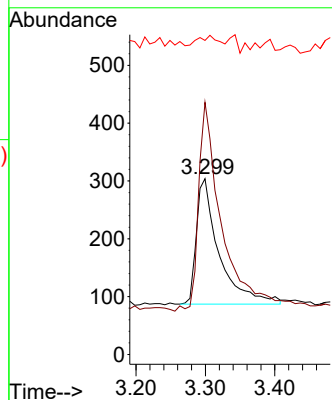
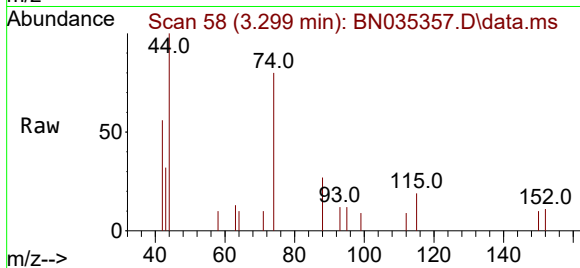
Tgt Ion: 42 Resp: 495

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

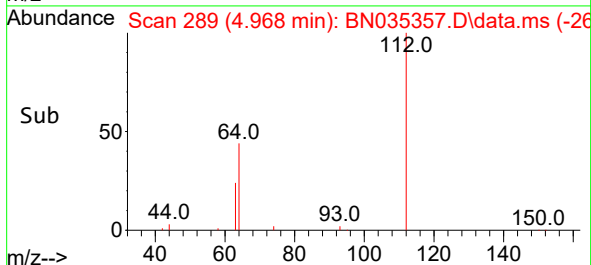
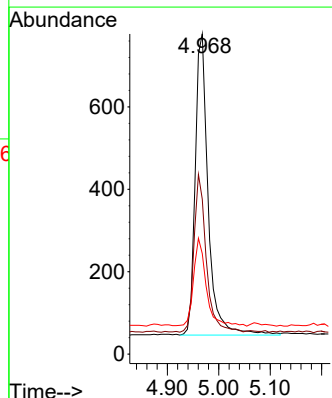
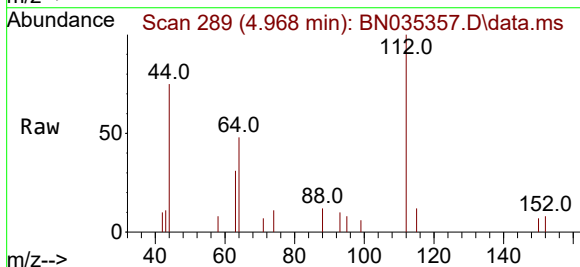
Tgt Ion: 112 Resp: 1280

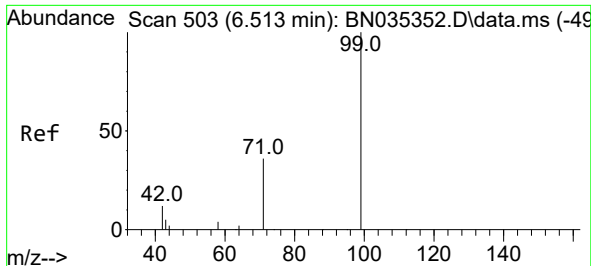
Ion Ratio Lower Upper

112 100

64 49.0 39.8 59.8

63 28.4 21.0 31.6

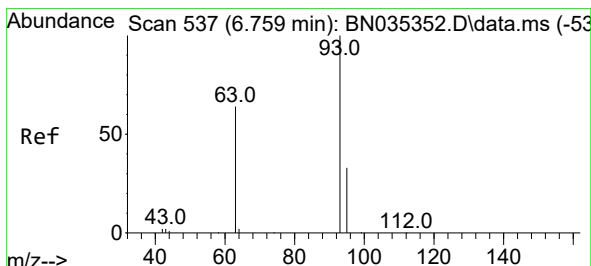
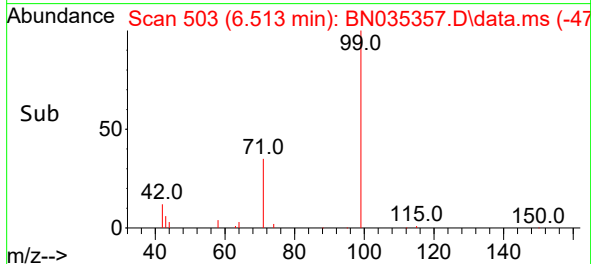
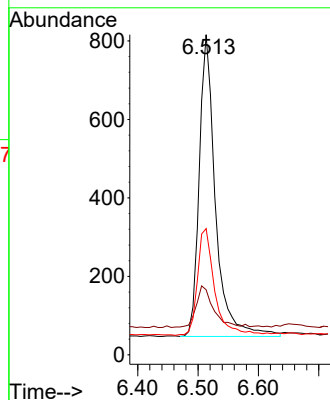
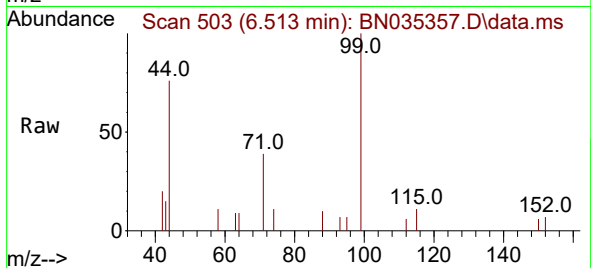




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

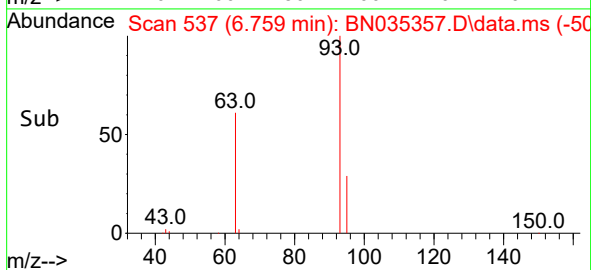
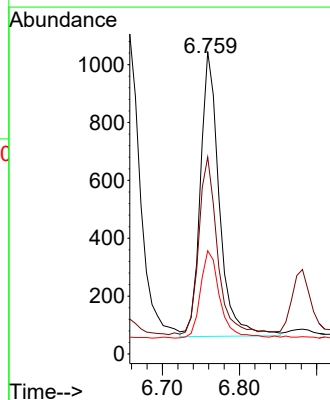
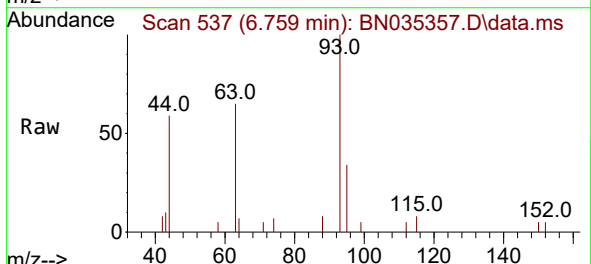
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

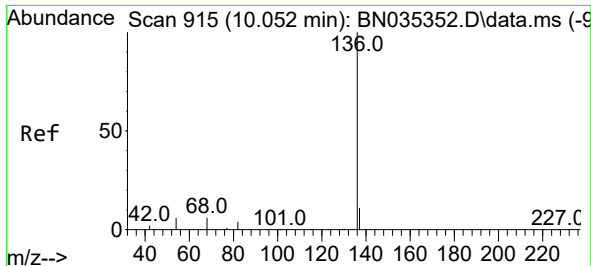
Tgt Ion:	99	Resp:	1437
Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9



#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

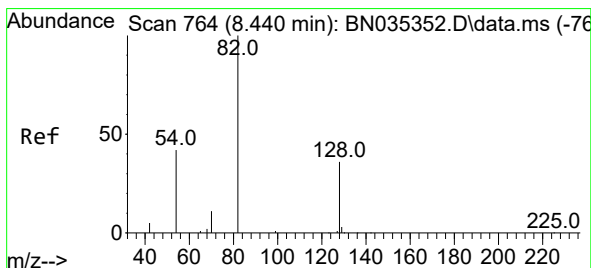
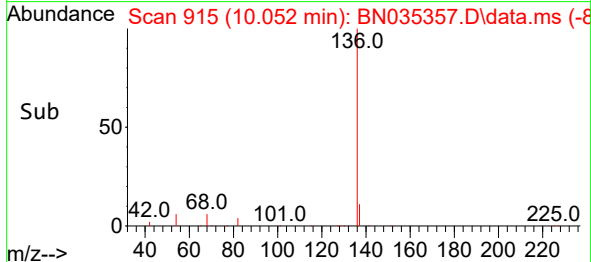
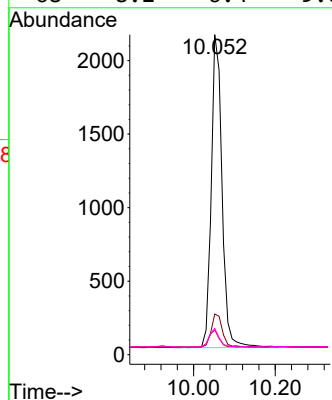
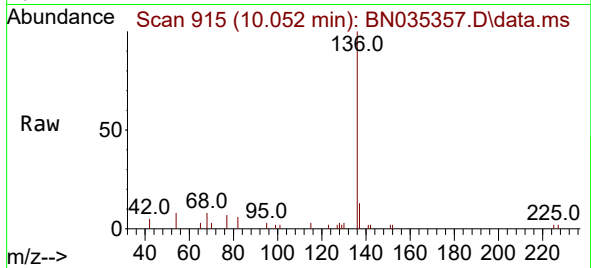




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

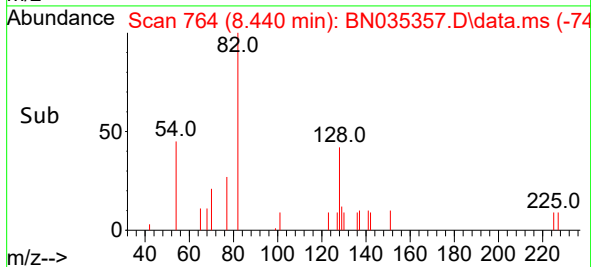
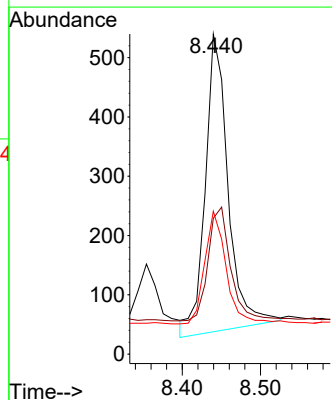
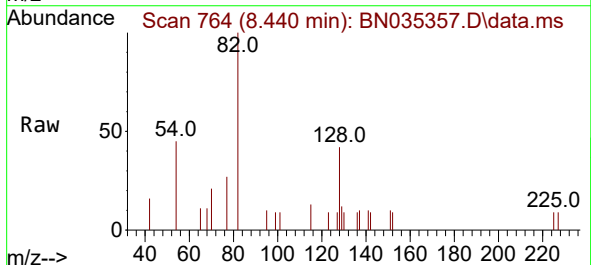
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

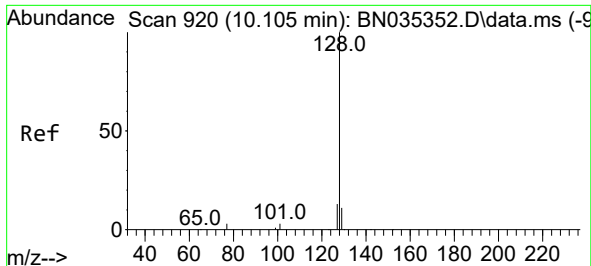
Tgt Ion:	136	Resp:	3904
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



#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

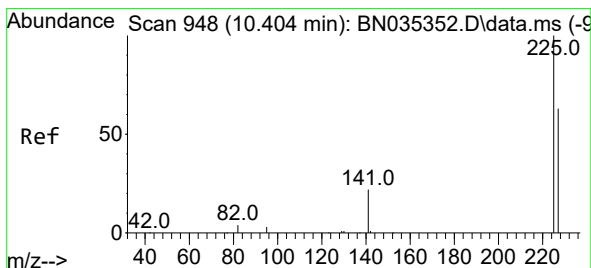
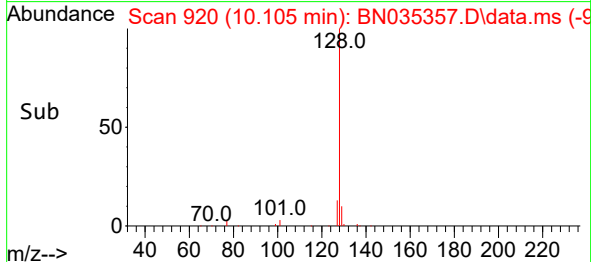
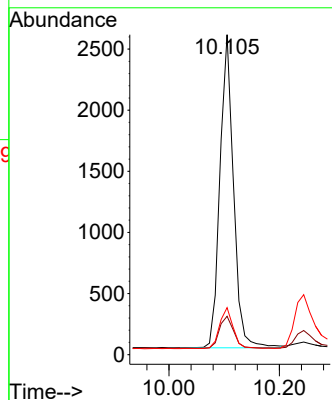
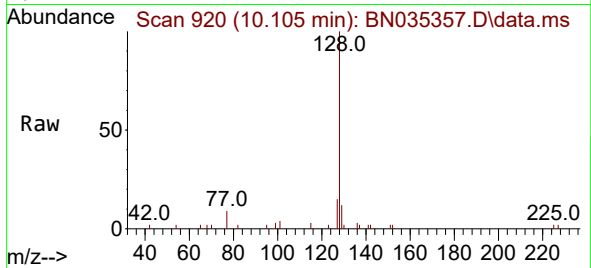




#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

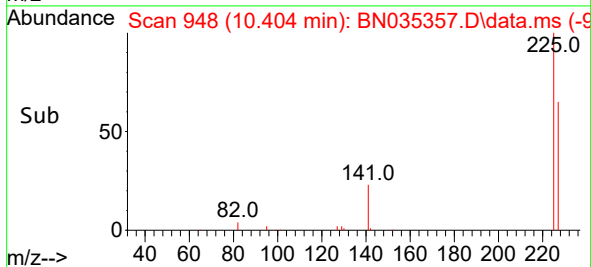
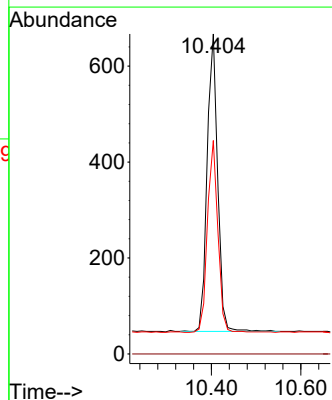
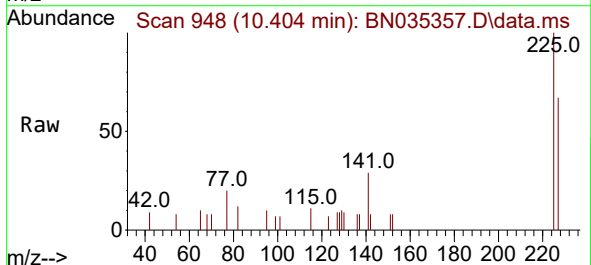
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BNA_N
ClientSampleId :
ICVBN112724

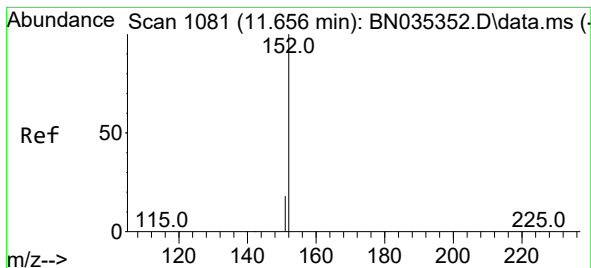
Tgt Ion:128 Resp: 4364
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.7 11.4 17.2



#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

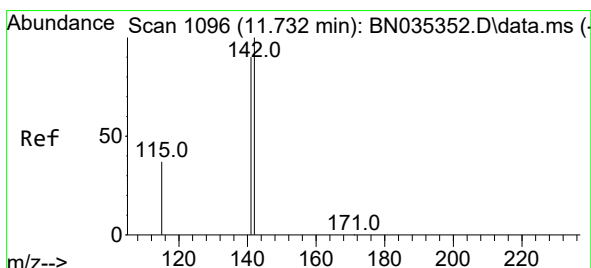
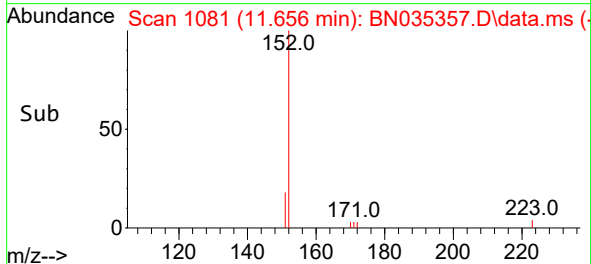
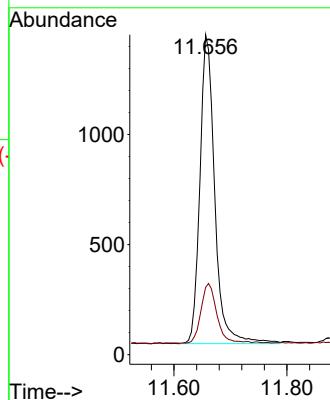
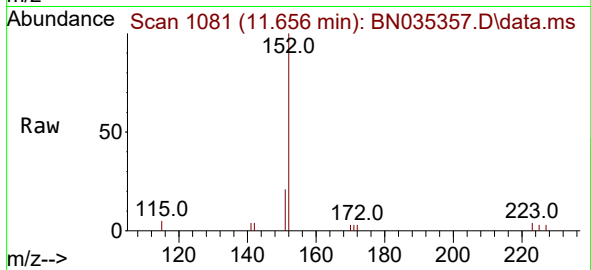




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

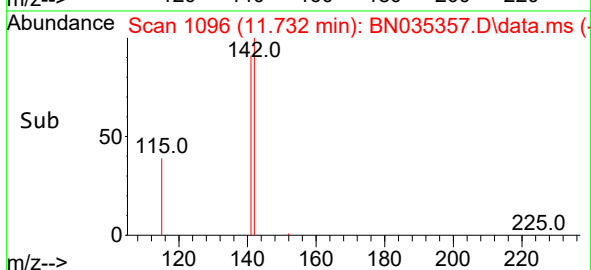
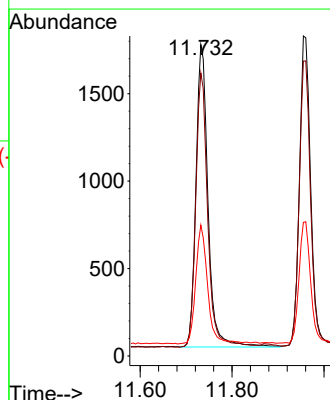
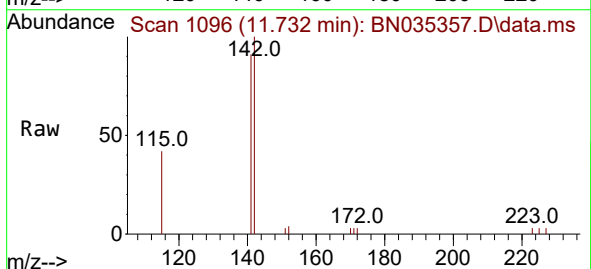
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

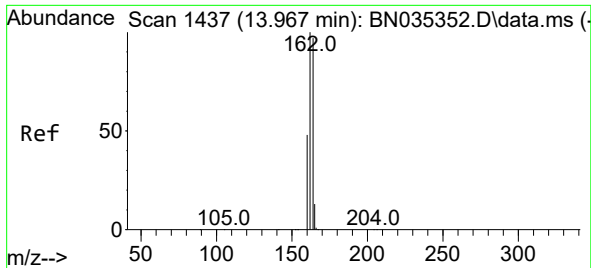
Tgt Ion:152 Resp: 2565
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



#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

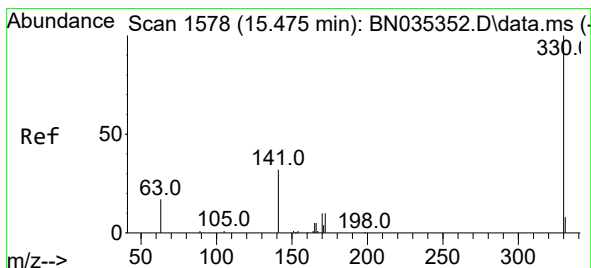
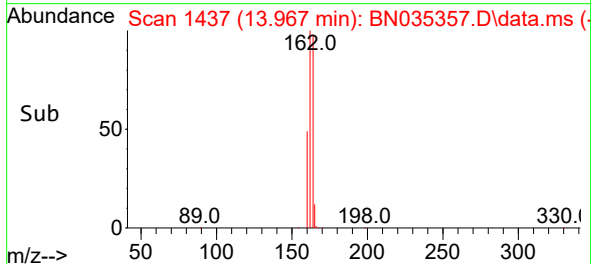
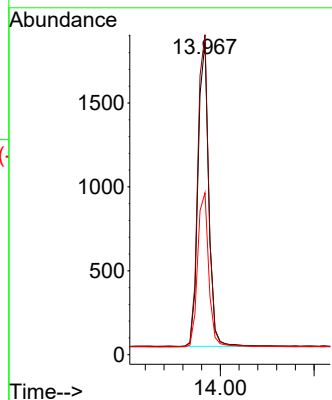
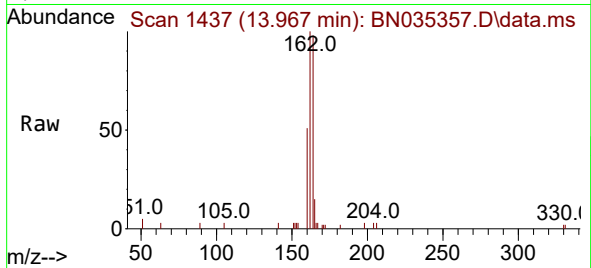




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

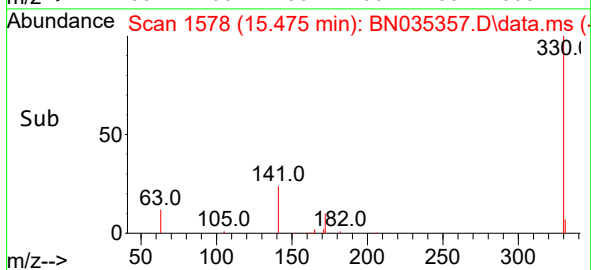
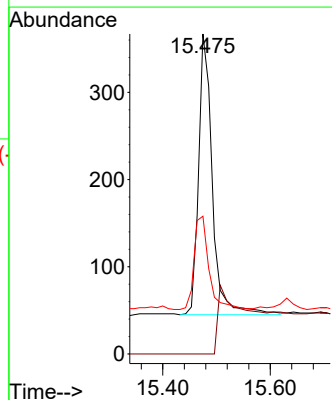
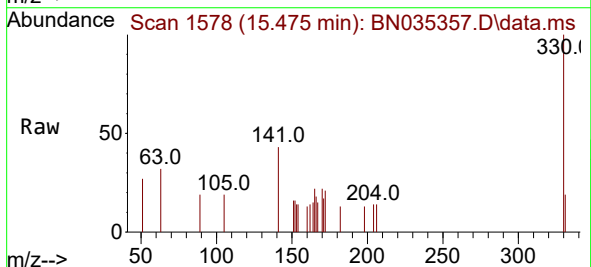
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

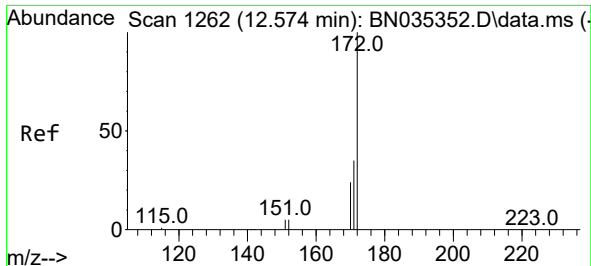
Tgt Ion:164 Resp: 2879
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.8 40.1 60.1



#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

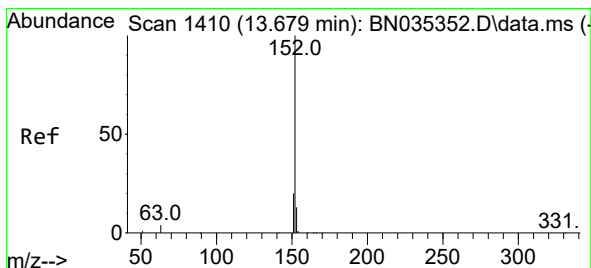
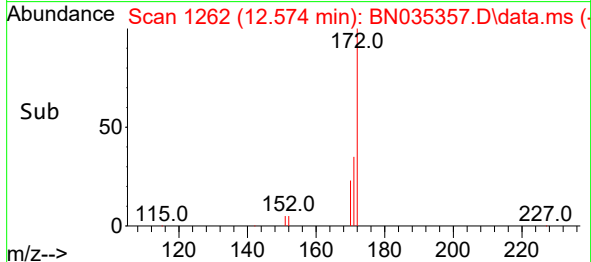
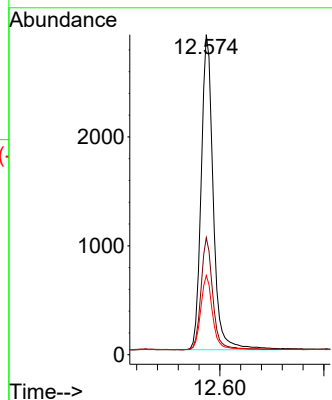
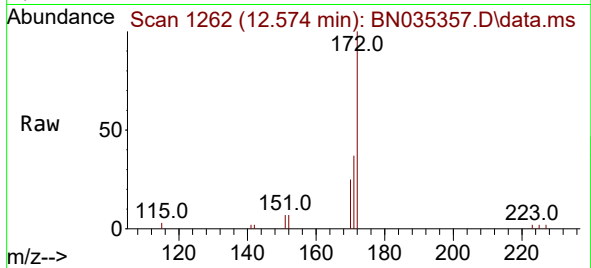




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

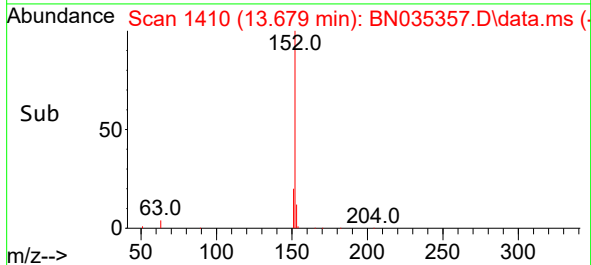
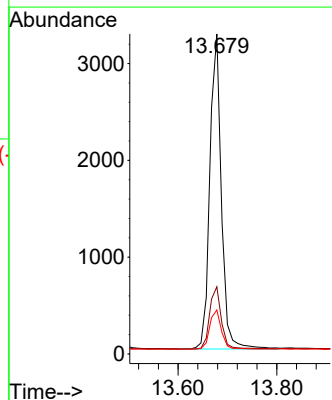
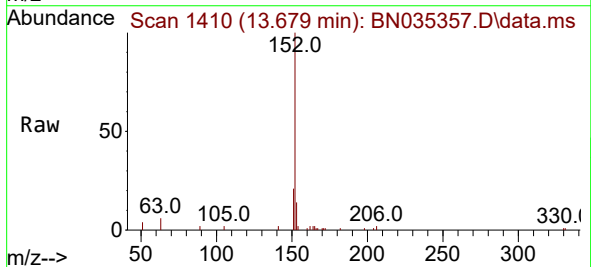
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

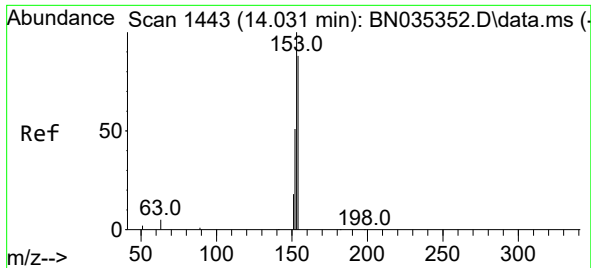
Tgt Ion:	172	Resp:	4647
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



#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

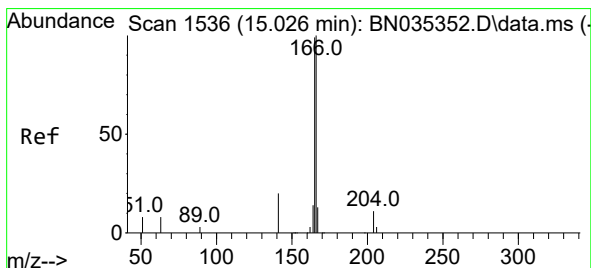
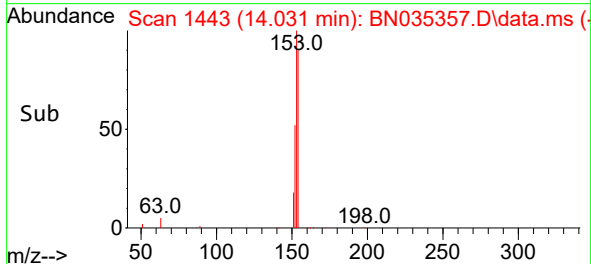
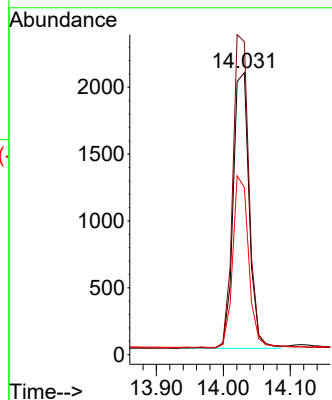
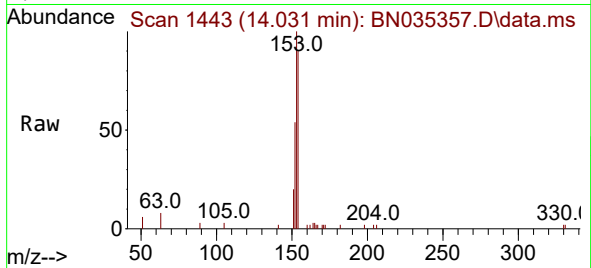




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

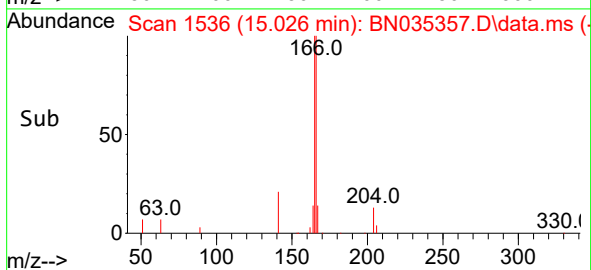
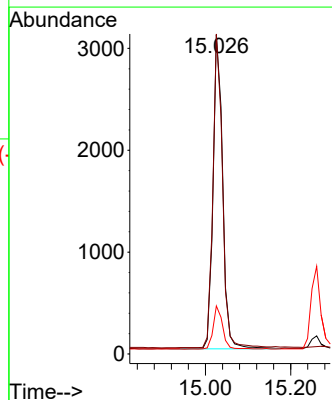
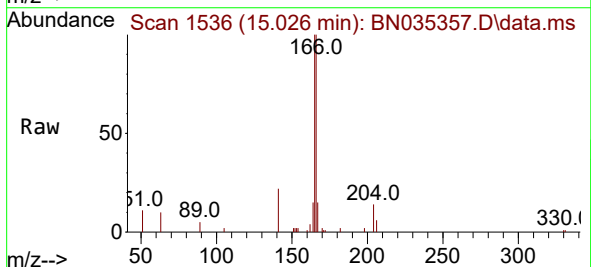
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

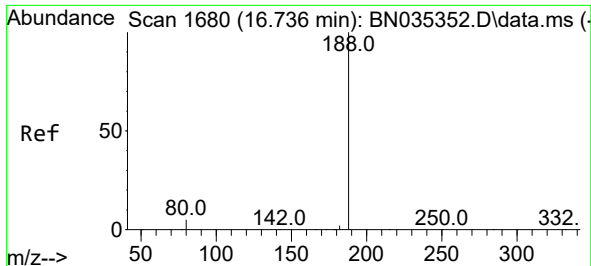
Tgt Ion:154 Resp: 3421
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 61.9 49.0 73.6



#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

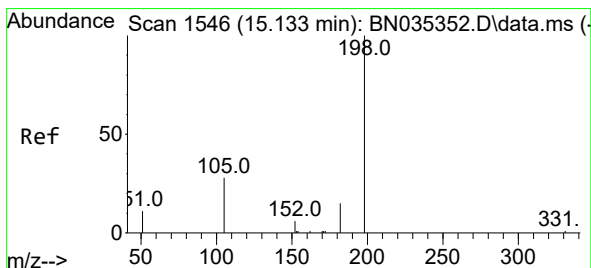
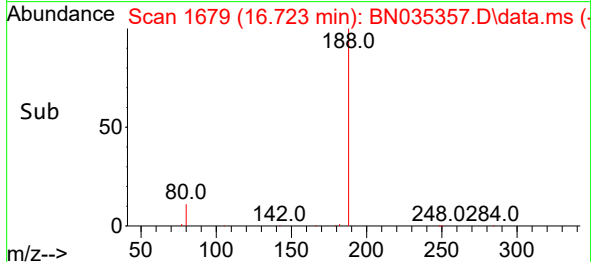
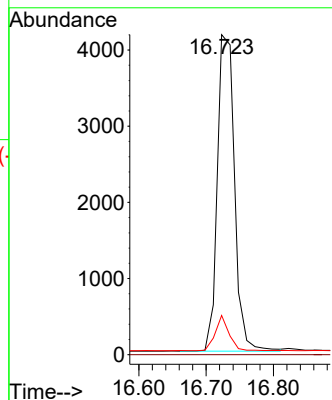
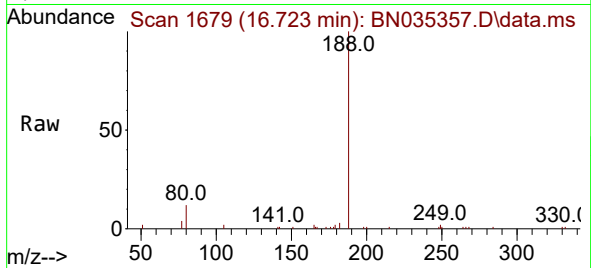




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

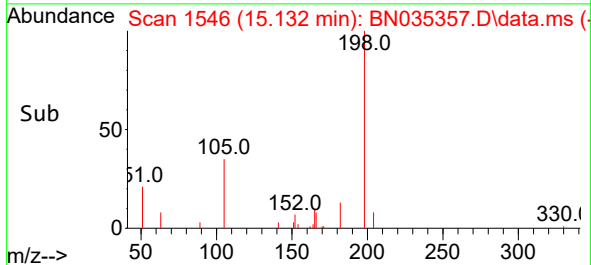
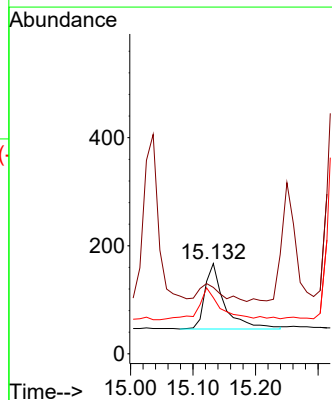
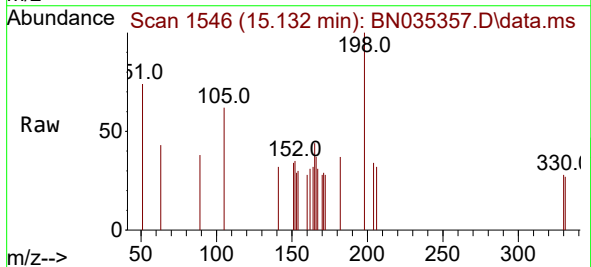
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

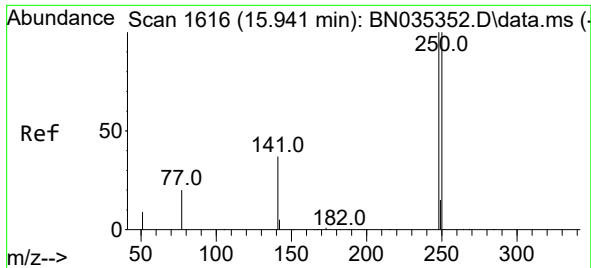
Tgt Ion:188 Resp: 7350
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.2 4.6 6.8#



#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

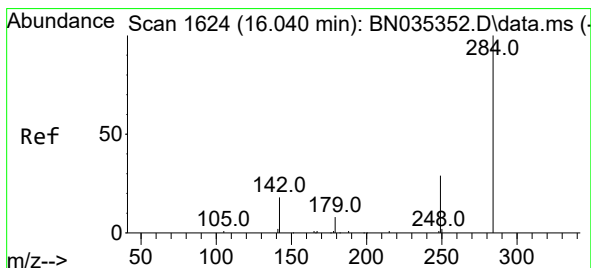
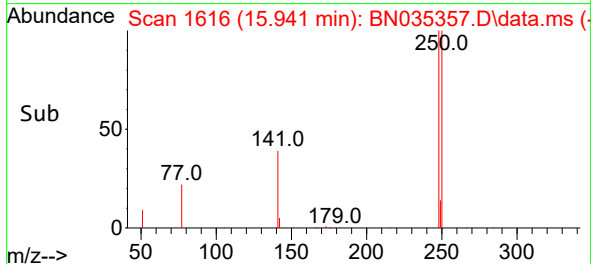
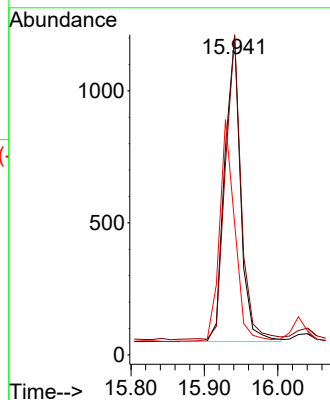
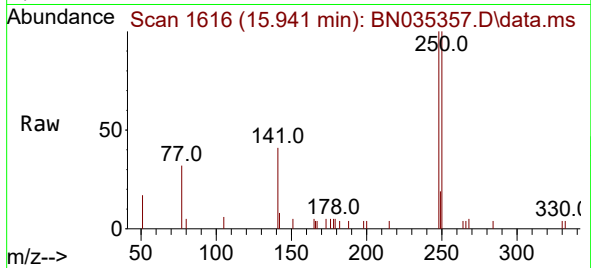




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

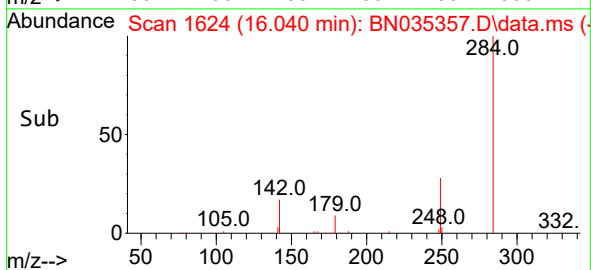
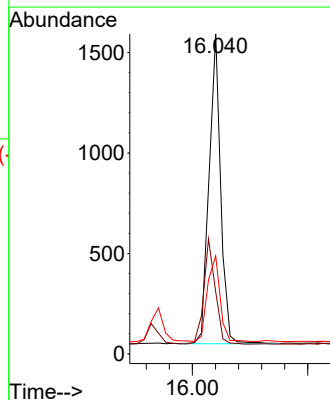
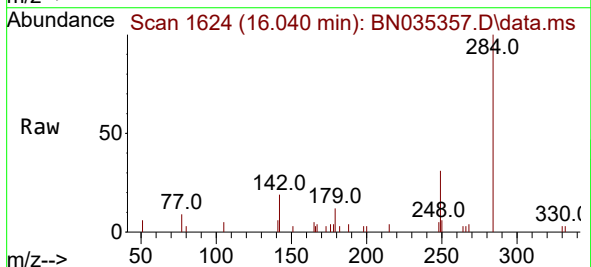
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

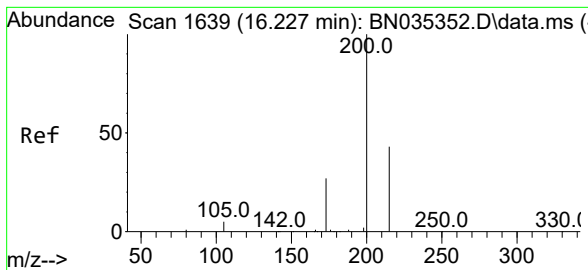
Tgt Ion: 248 Resp: 1742
Ion Ratio Lower Upper
248 100
250 100.3 80.6 120.8
141 41.2 31.5 47.3



#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

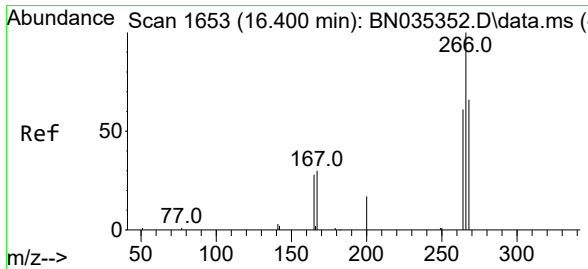
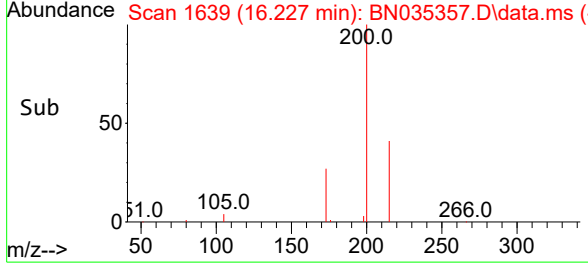
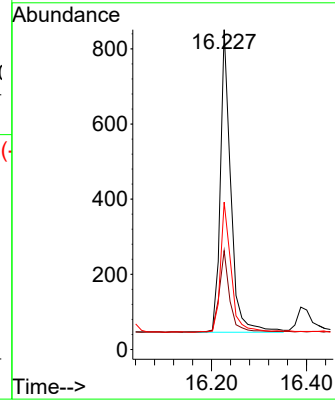
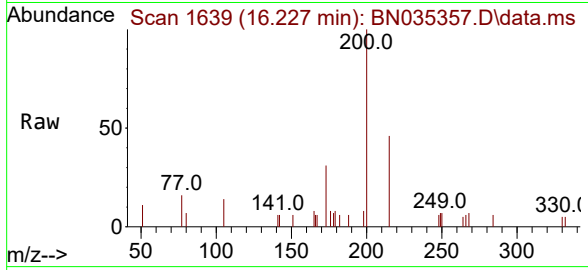




#23
 Atrazine
 Concen: 0.401 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

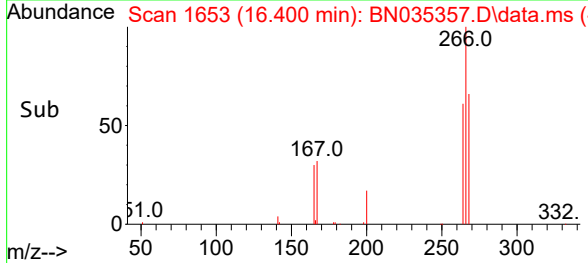
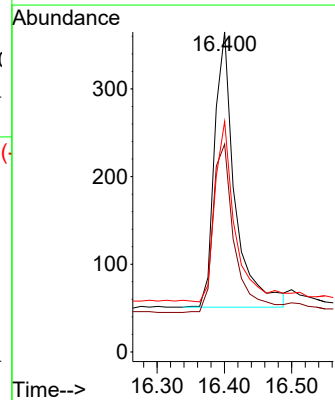
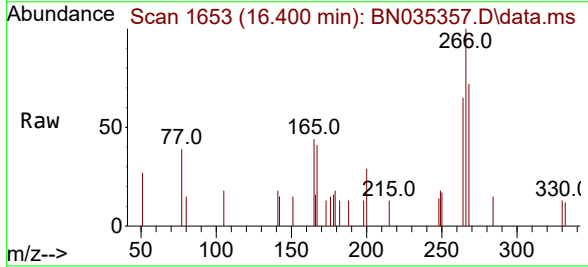
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

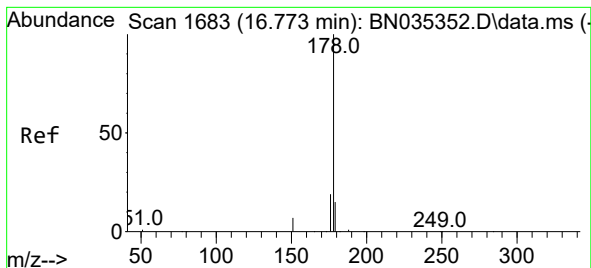
Tgt Ion:	200	Resp:	1227
Ion Ratio	Lower	Upper	
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3



#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# 1683

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

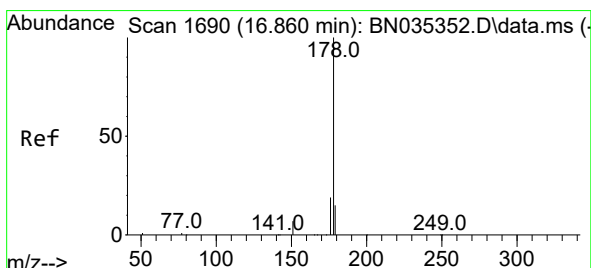
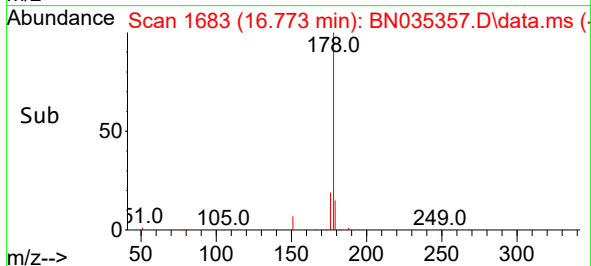
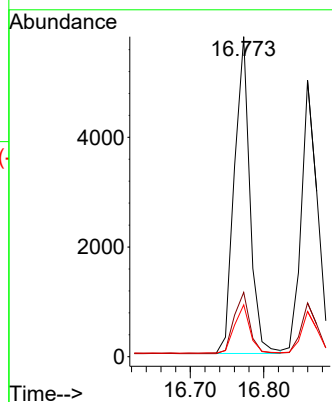
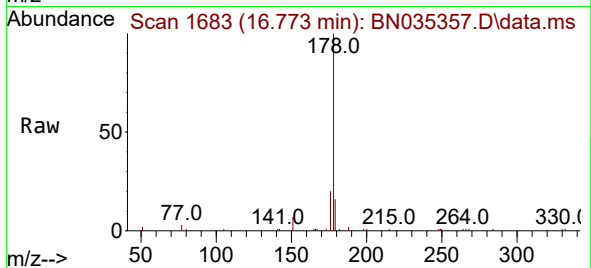
Tgt Ion:178 Resp: 8509

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

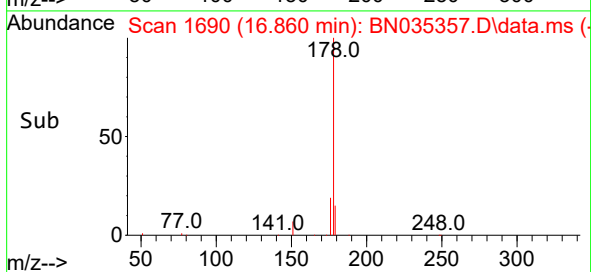
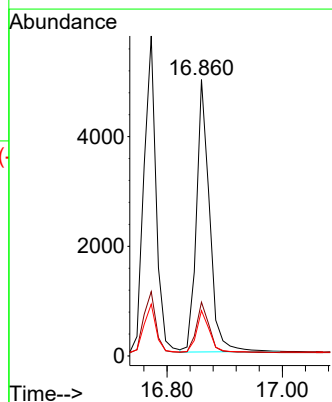
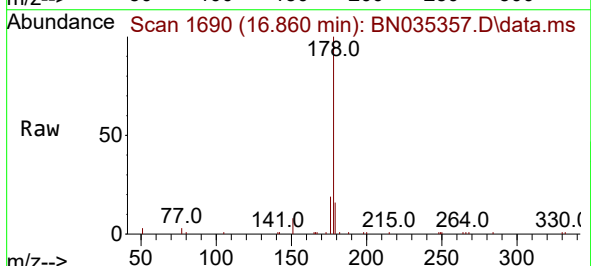
Tgt Ion:178 Resp: 7849

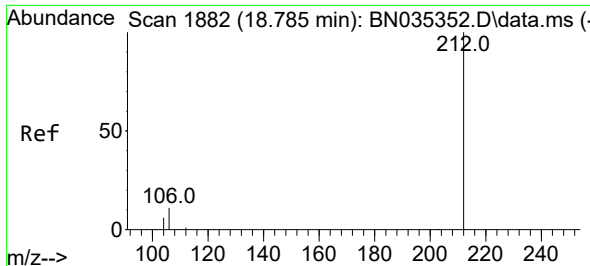
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.3 12.6 18.8

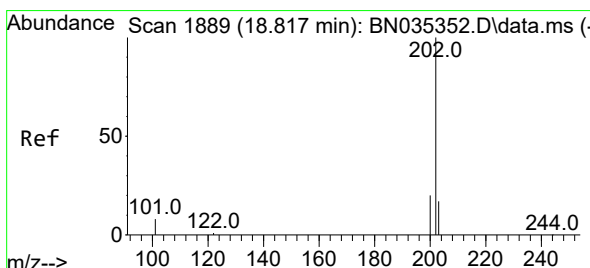
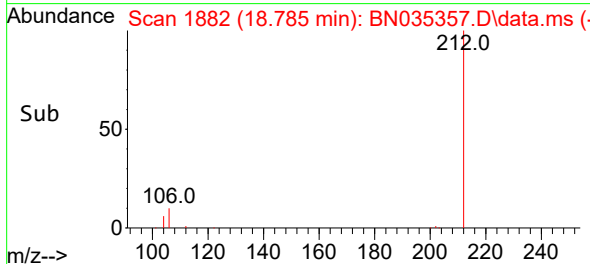
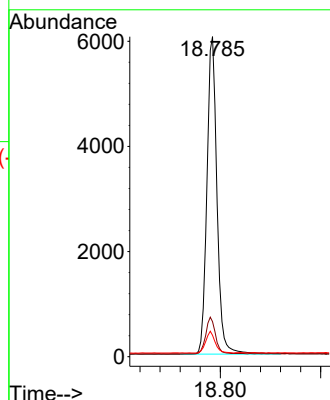
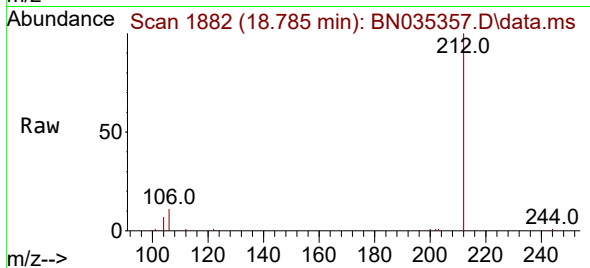




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

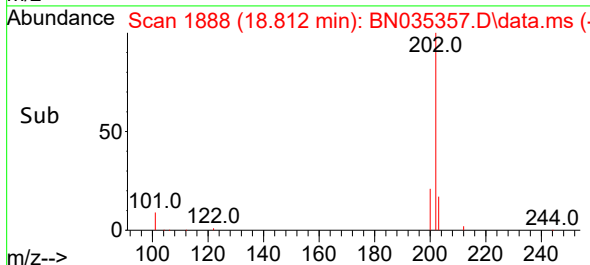
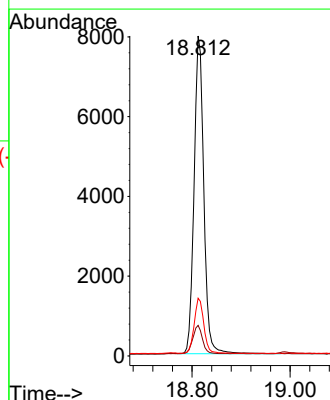
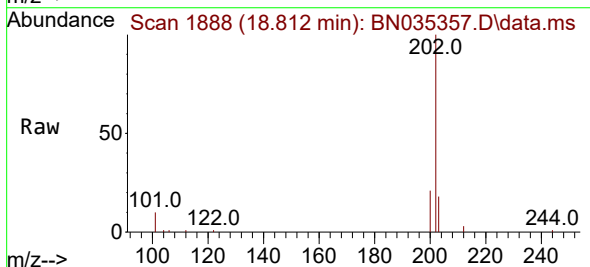
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

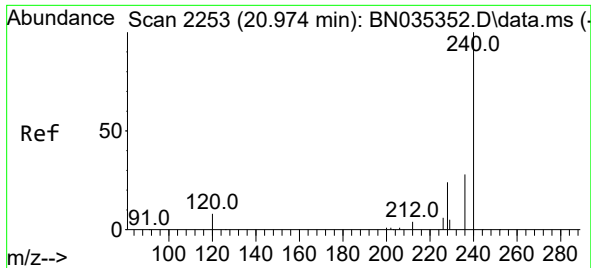
Tgt Ion:212	Resp:	8415
Ion Ratio	Lower	Upper
212	100	
106	11.3	9.2 13.8
104	6.4	5.3 7.9



#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

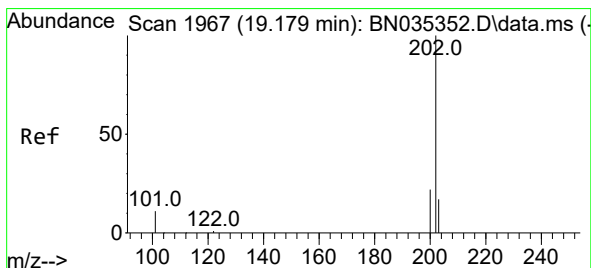
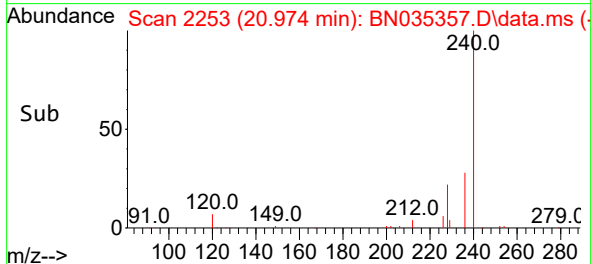
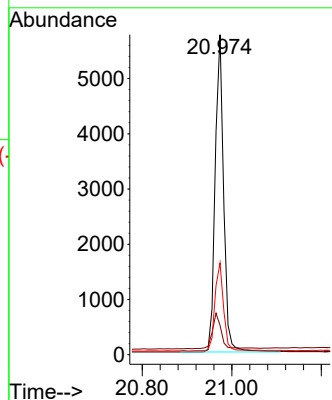
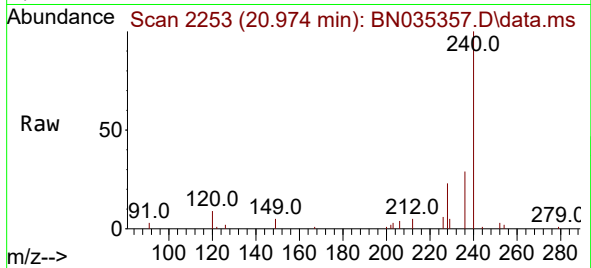




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

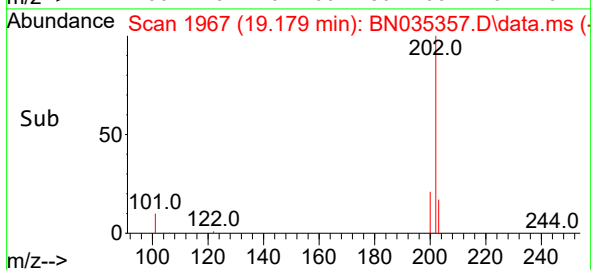
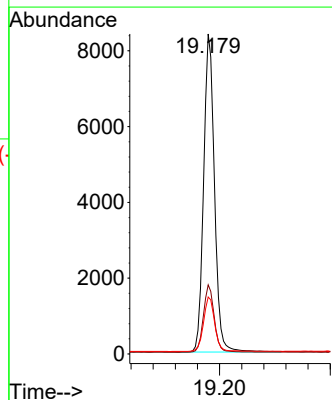
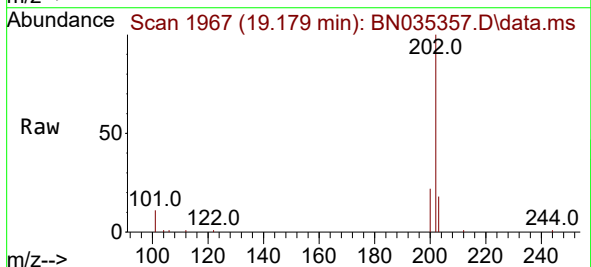
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

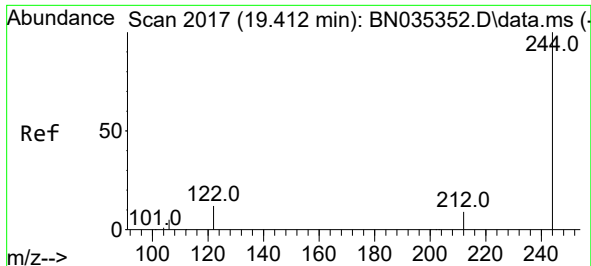
Tgt Ion:240 Resp: 7576
Ion Ratio Lower Upper
240 100
120 9.1 7.9 11.9
236 28.7 22.9 34.3



#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

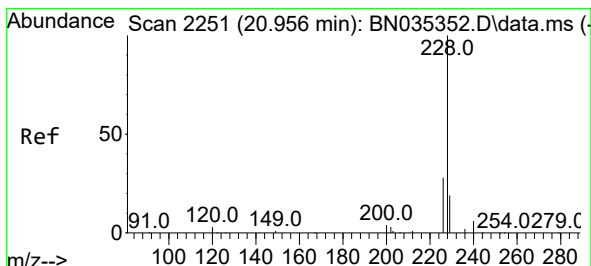
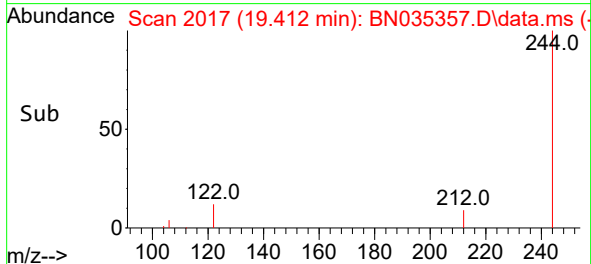
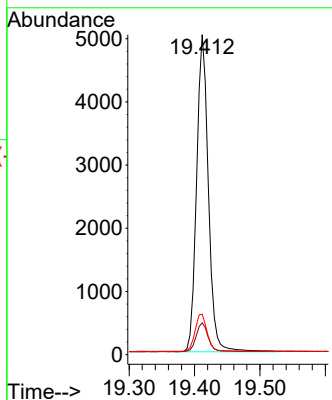
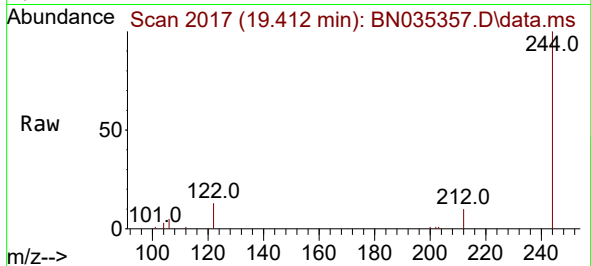




#31
 Terphenyl-d14
 Concen: 0.420 ng
 RT: 19.412 min Scan# 2017
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

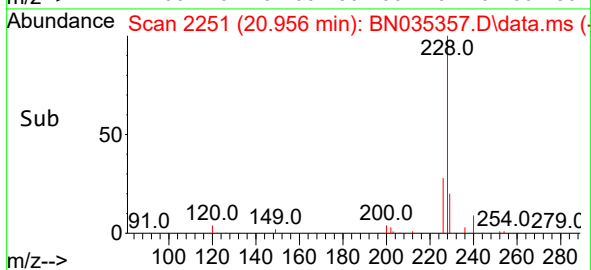
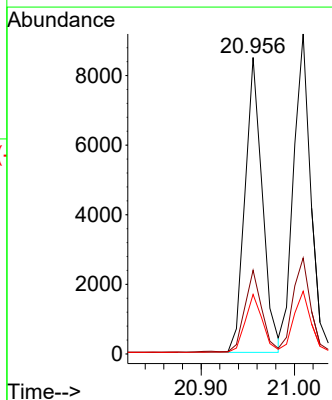
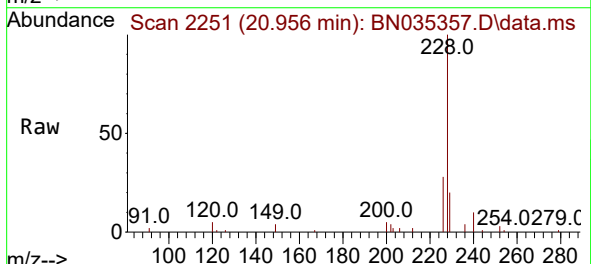
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112724

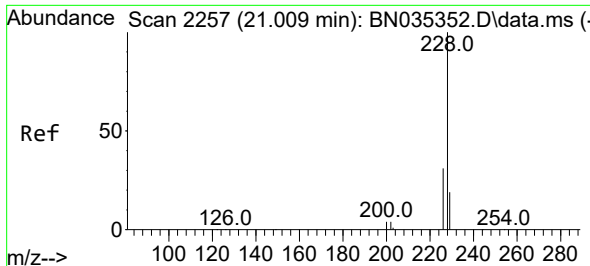
Tgt Ion:	244	Resp:	6272
Ion Ratio	Lower	Upper	
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5



#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

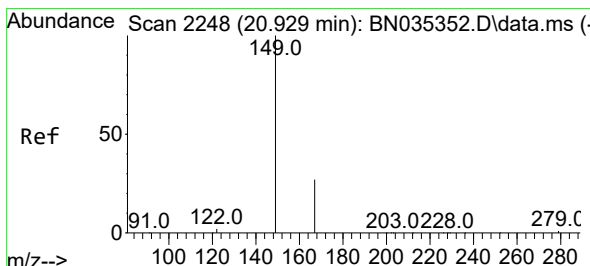
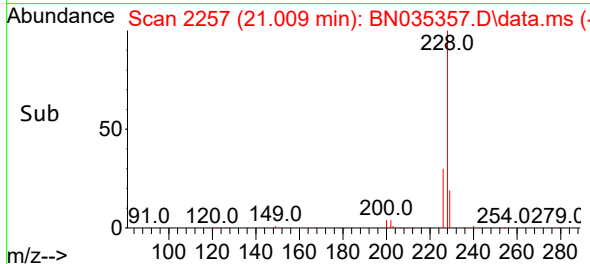
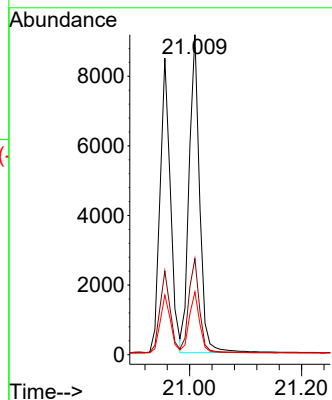
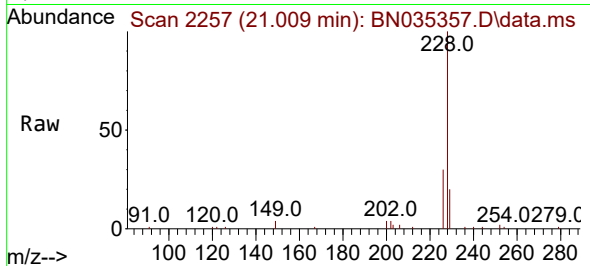




#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

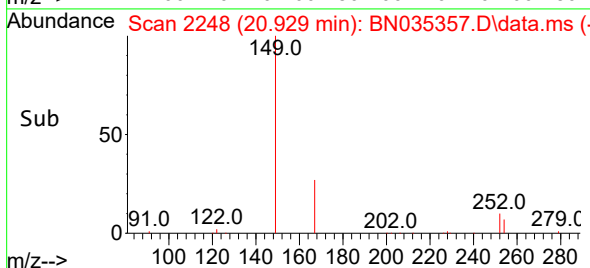
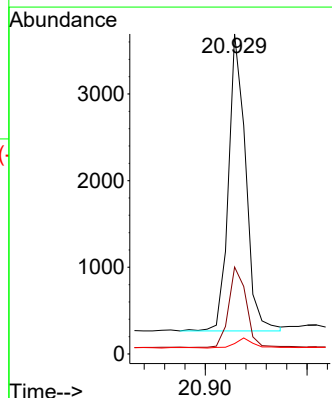
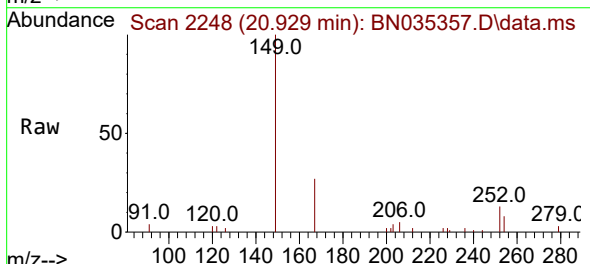
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

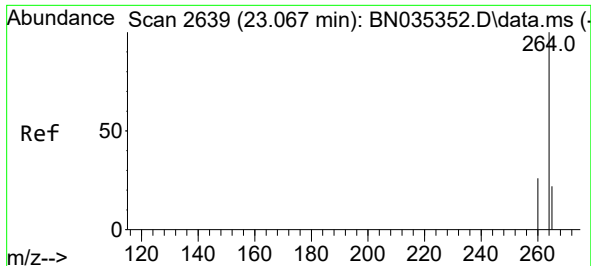
Tgt Ion:228 Resp: 11926
Ion Ratio Lower Upper
228 100
226 30.0 24.6 37.0
229 19.6 15.9 23.9



#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

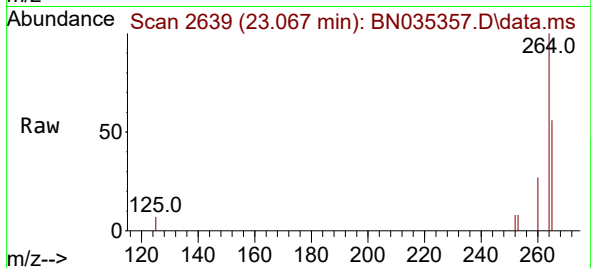
Tgt Ion:149 Resp: 4016
Ion Ratio Lower Upper
149 100
167 27.7 22.2 33.4
279 3.7 2.7 4.1



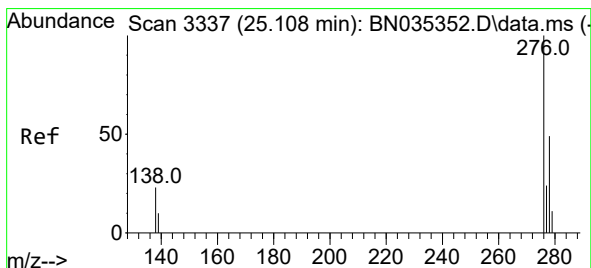
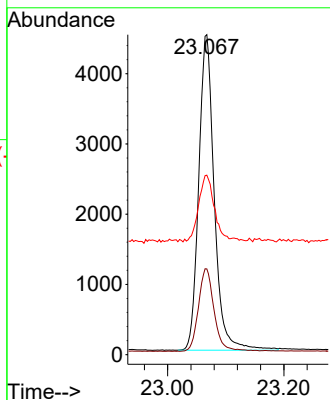
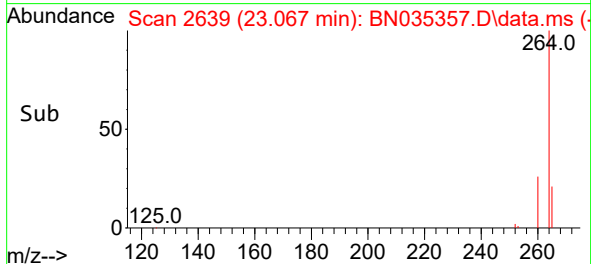


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

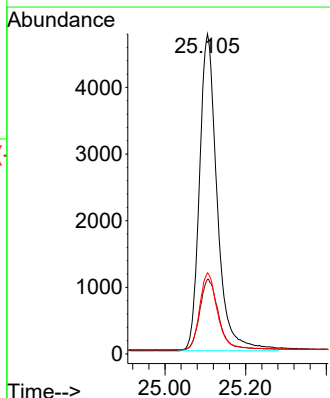
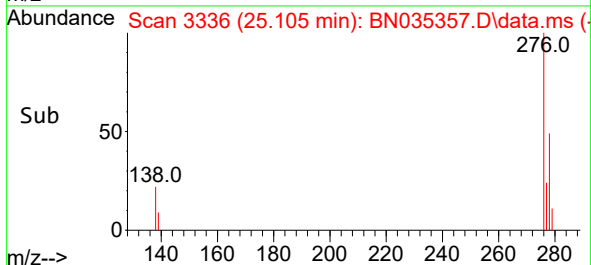
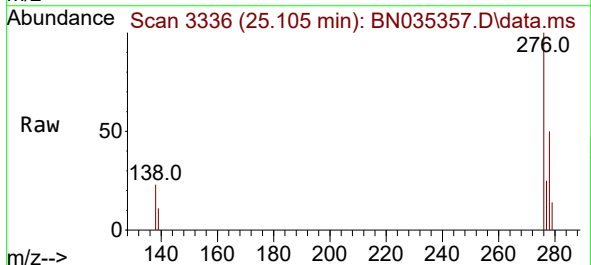


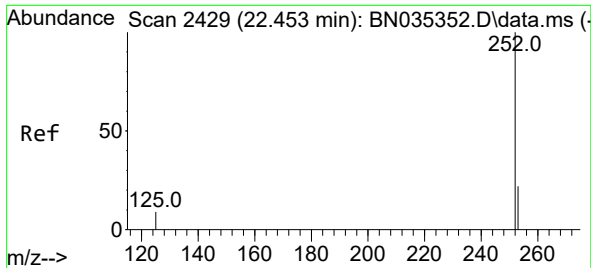
Tgt Ion:264 Resp: 8338
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 56.1 40.2 60.4



#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

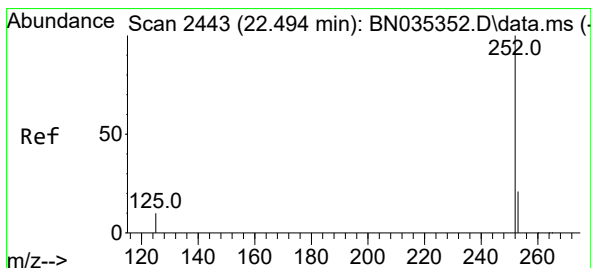
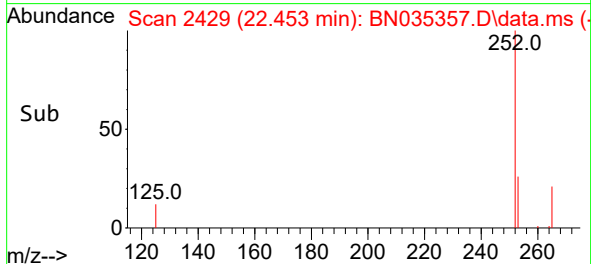
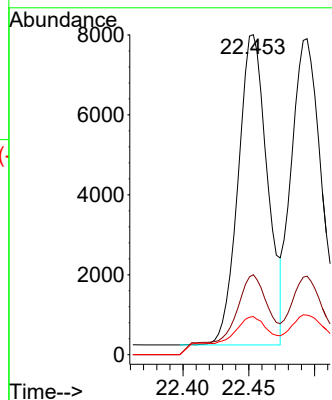
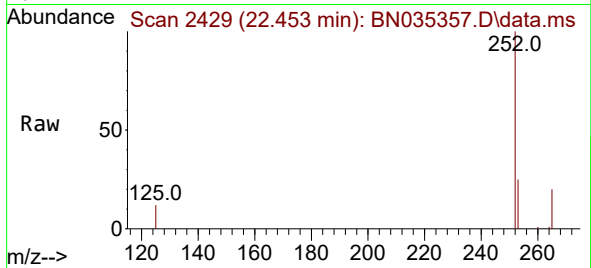




#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

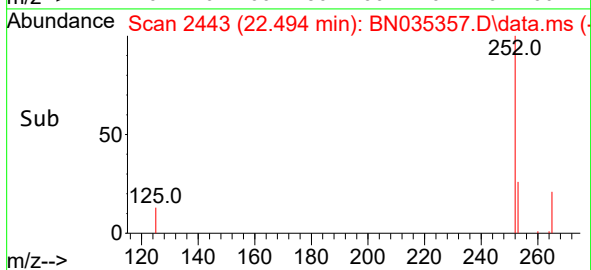
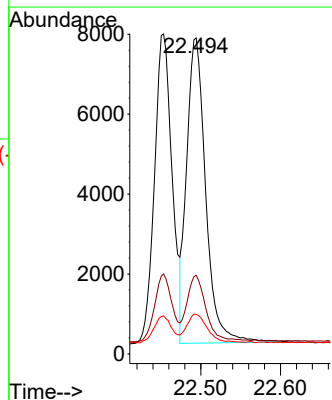
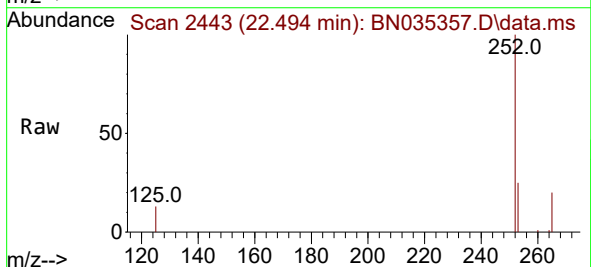
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

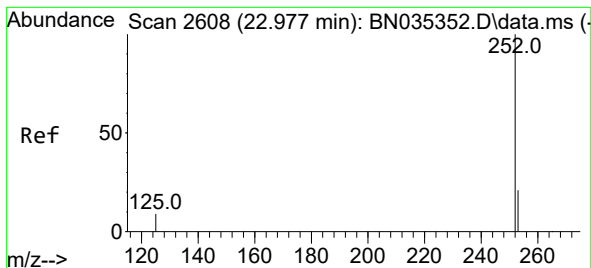
Tgt Ion:252 Resp: 12988
Ion Ratio Lower Upper
252 100
253 25.0 19.6 29.4
125 11.9 9.6 14.4



#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

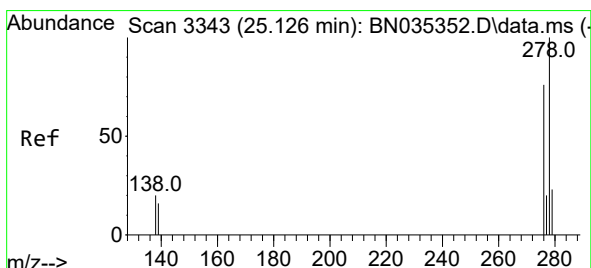
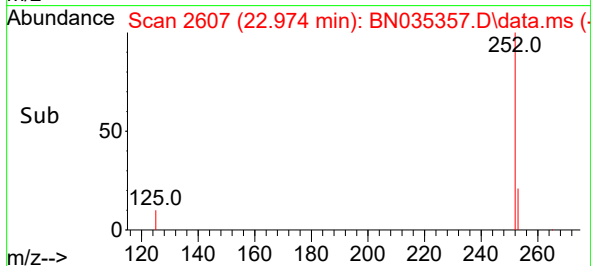
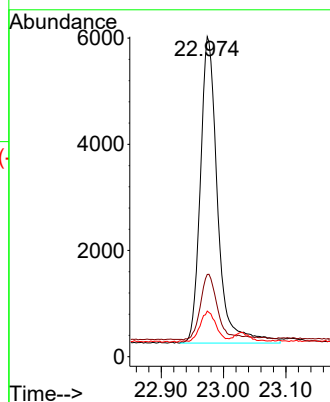
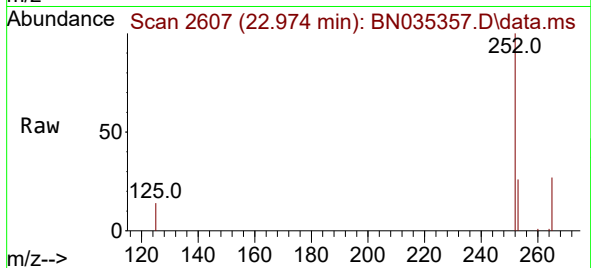
Tgt Ion:252 Resp: 11094

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

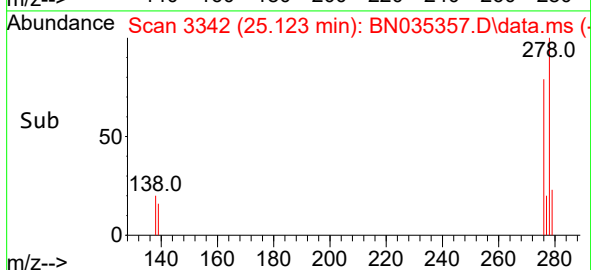
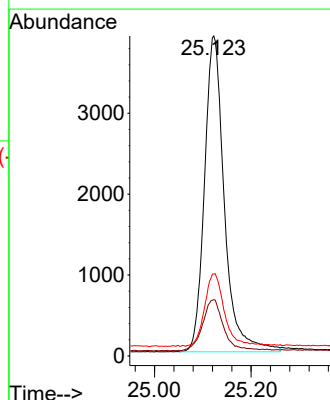
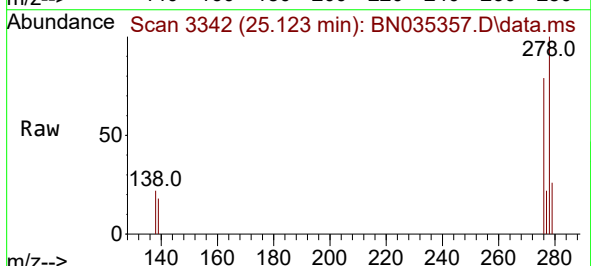
Tgt Ion:278 Resp: 11141

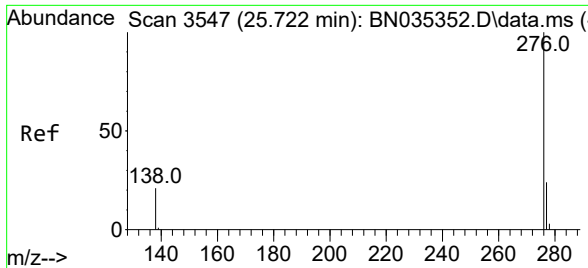
Ion Ratio Lower Upper

278 100

139 17.6 14.2 21.4

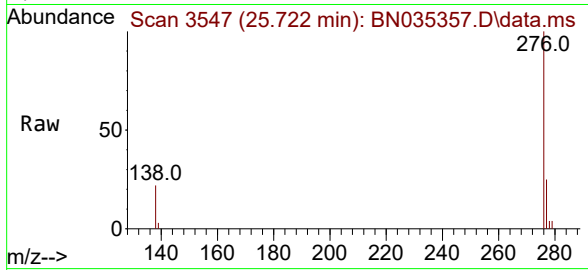
279 25.6 20.5 30.7



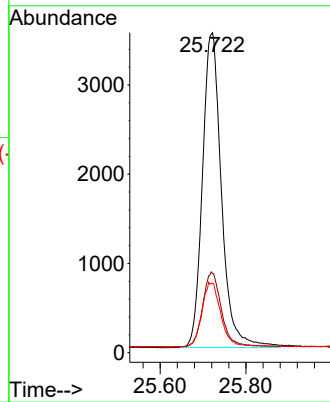
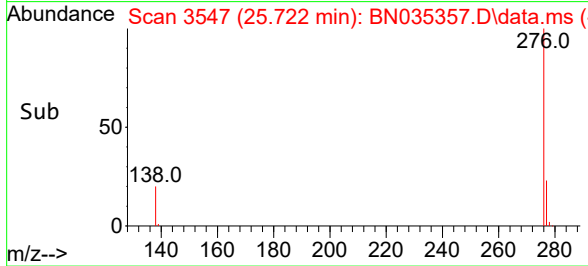


#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035406.D
 Acq On : 03 Dec 2024 16:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 03 17:45:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

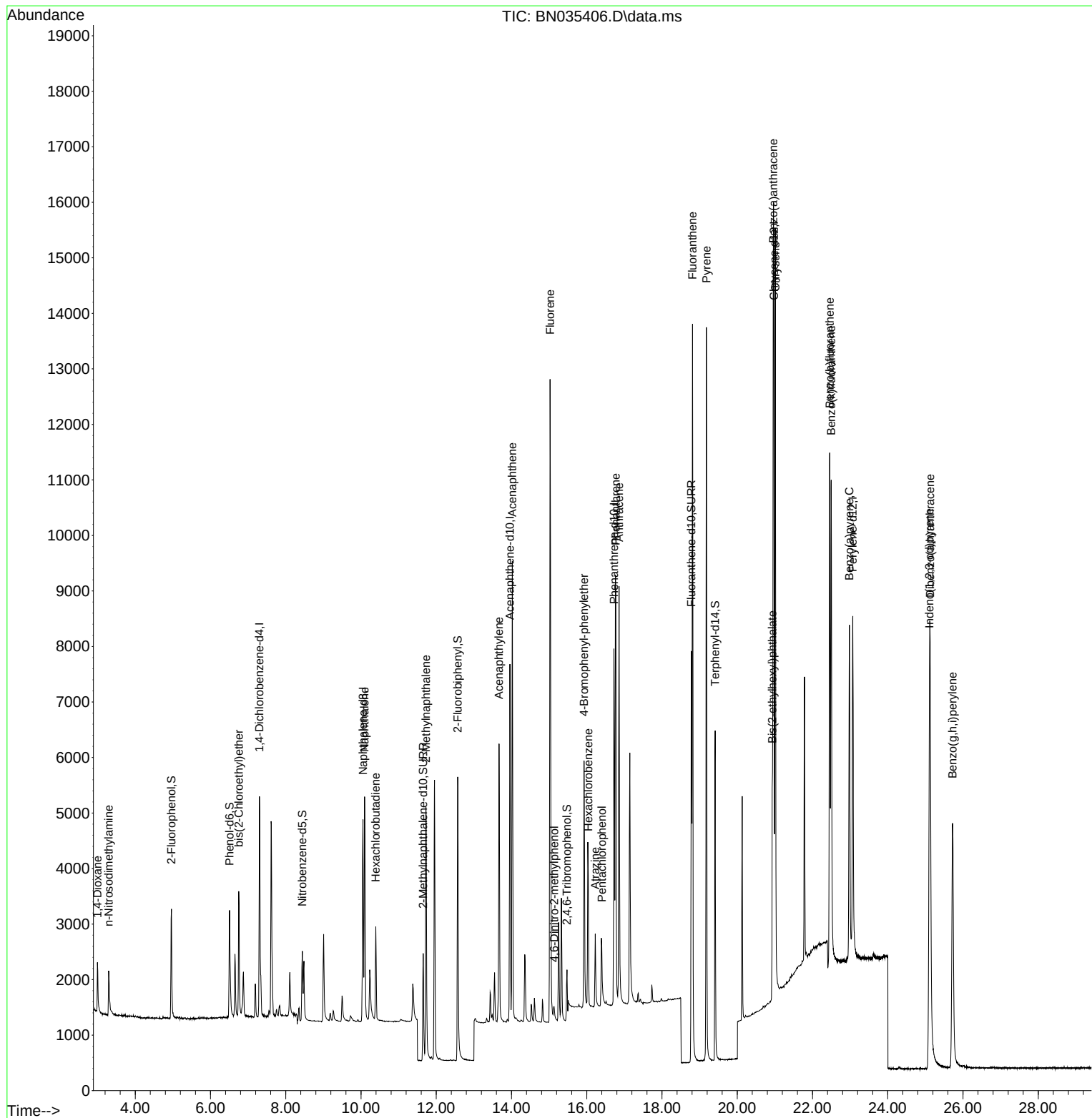
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	2015	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5135	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3625	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8862	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	8251	0.400	ng	0.00
35) Perylene-d12	23.070	264	7832	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1808	0.359	ng	0.00
5) Phenol-d6	6.506	99	2219	0.366	ng	0.00
8) Nitrobenzene-d5	8.440	82	1450	0.462	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	3083	0.384	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	916	0.356	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5574	0.407	ng	0.00
27) Fluoranthene-d10	18.780	212	9013	0.359	ng	0.00
31) Terphenyl-d14	19.412	244	6327	0.389	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.996	88	735	0.382	ng	98
3) n-Nitrosodimethylamine	3.292	42	603	0.376	ng	# 99
6) bis(2-Chloroethyl)ether	6.752	93	1920	0.377	ng	100
9) Naphthalene	10.095	128	5329	0.393	ng	99
10) Hexachlorobutadiene	10.394	225	1309	0.419	ng	# 99
12) 2-Methylnaphthalene	11.727	142	3781	0.390	ng	99
16) Acenaphthylene	13.668	152	5887	0.387	ng	100
17) Acenaphthene	14.021	154	3907	0.387	ng	98
18) Fluorene	15.026	166	5593	0.387	ng	99
20) 4,6-Dinitro-2-methylph...	15.133	198	291	0.334	ng	# 83
21) 4-Bromophenyl-phenylether	15.929	248	2060	0.397	ng	# 75
22) Hexachlorobenzene	16.040	284	2548	0.419	ng	98
23) Atrazine	16.227	200	1209	0.328	ng	98
24) Pentachlorophenol	16.400	266	848	0.320	ng	# 84
25) Phenanthrene	16.773	178	9564	0.393	ng	100
26) Anthracene	16.860	178	8243	0.374	ng	100
28) Fluoranthene	18.812	202	12056	0.367	ng	100
30) Pyrene	19.179	202	12183	0.400	ng	100
32) Benzo(a)anthracene	20.956	228	10317	0.357	ng	99
33) Chrysene	21.009	228	12005	0.403	ng	100
34) Bis(2-ethylhexyl)phtha...	20.929	149	3769	0.331	ng	99
36) Indeno(1,2,3-cd)pyrene	25.108	276	11257	0.368	ng	98
37) Benzo(b)fluoranthene	22.456	252	11172	0.390	ng	99
38) Benzo(k)fluoranthene	22.497	252	11663	0.414	ng	99
39) Benzo(a)pyrene	22.980	252	9142	0.387	ng	98
40) Dibenzo(a,h)anthracene	25.126	278	8667	0.359	ng	99
41) Benzo(g,h,i)perylene	25.722	276	9676	0.383	ng	100

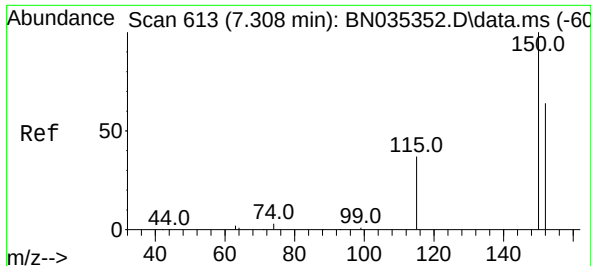
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035406.D
Acq On : 03 Dec 2024 16:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

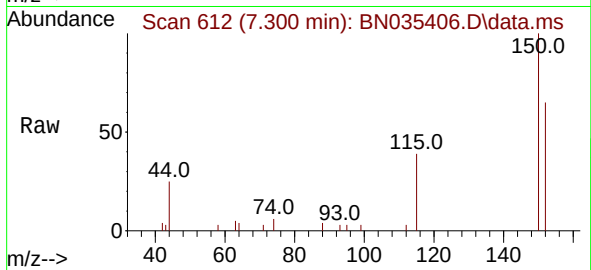
Quant Time: Dec 03 17:45:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



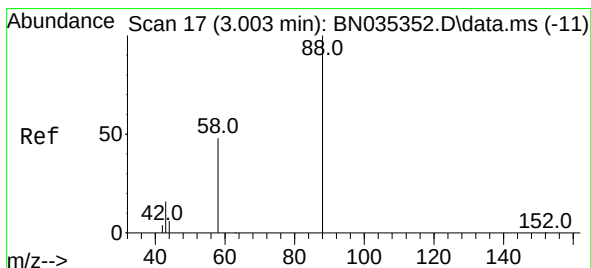
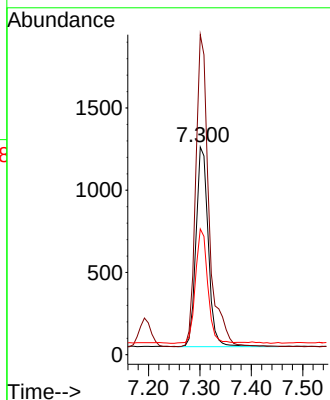
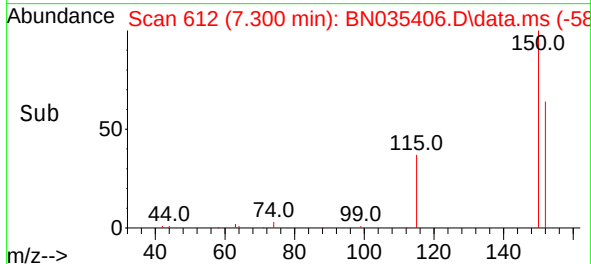


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

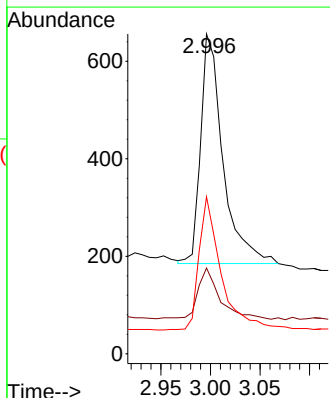
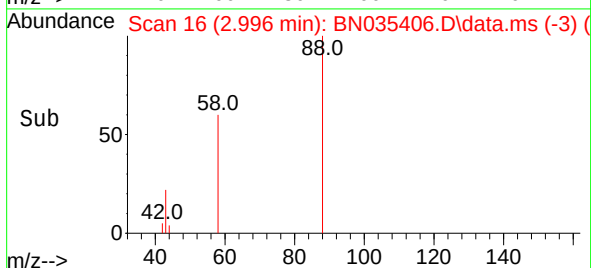
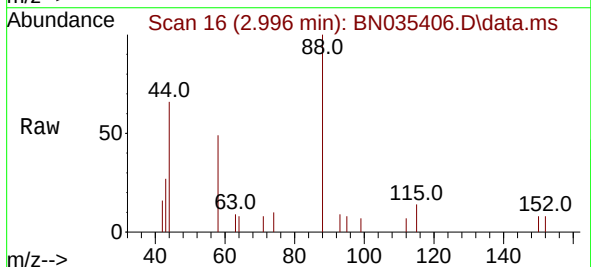


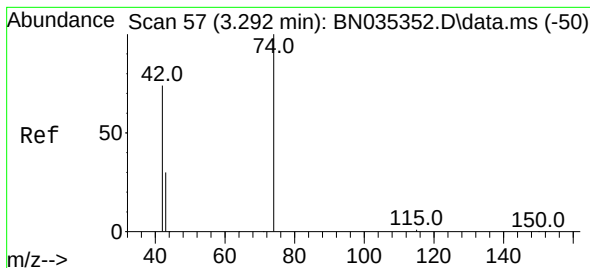
Tgt Ion:152 Resp: 2015
Ion Ratio Lower Upper
152 100
150 154.1 124.0 186.0
115 60.6 49.6 74.4



#2
1,4-Dioxane
Concen: 0.382 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion: 88 Resp: 735
Ion Ratio Lower Upper
88 100
43 22.2 17.2 25.8
58 57.3 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.376 ng

RT: 3.292 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

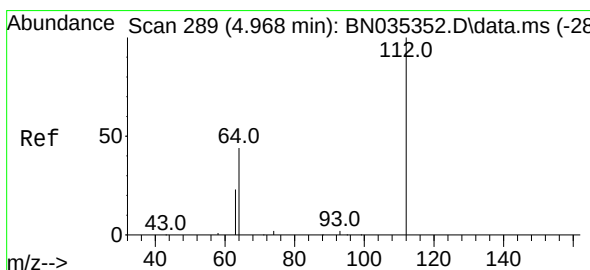
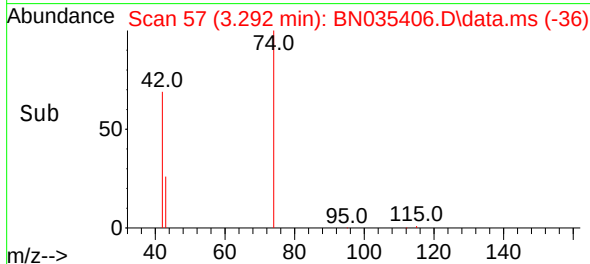
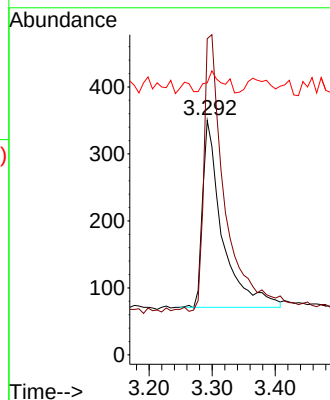
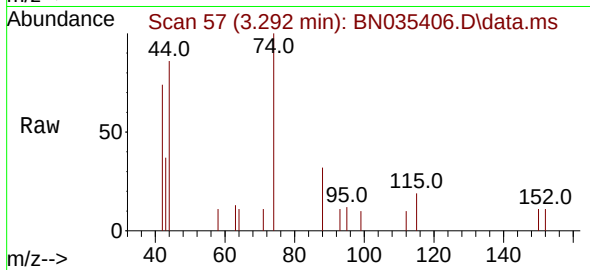
Tgt Ion: 42 Resp: 603

Ion Ratio Lower Upper

42 100

74 156.4 124.9 187.3

44 9.0 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.359 ng

RT: 4.960 min Scan# 288

Delta R.T. -0.007 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

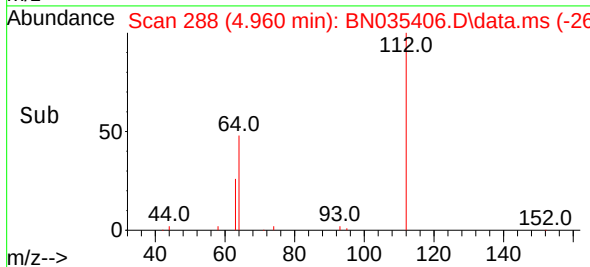
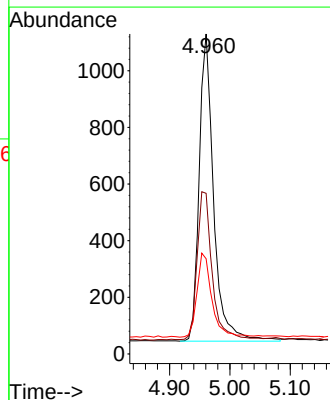
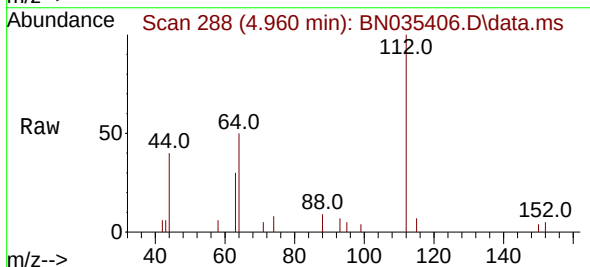
Tgt Ion: 112 Resp: 1808

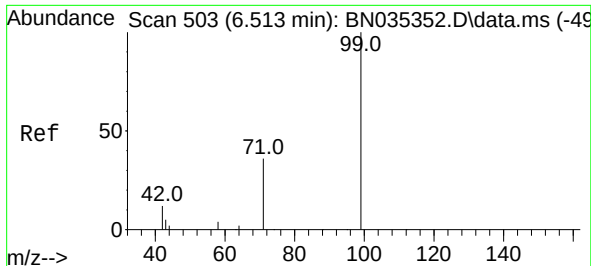
Ion Ratio Lower Upper

112 100

64 50.3 39.8 59.8

63 28.2 21.0 31.6

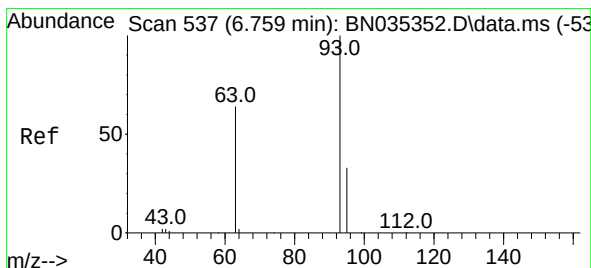
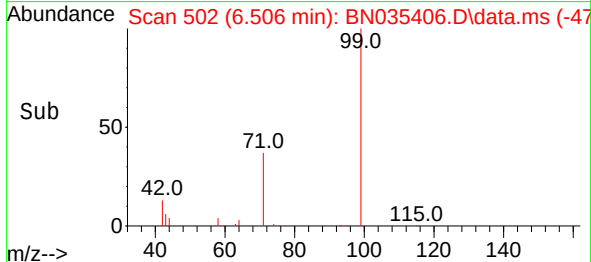
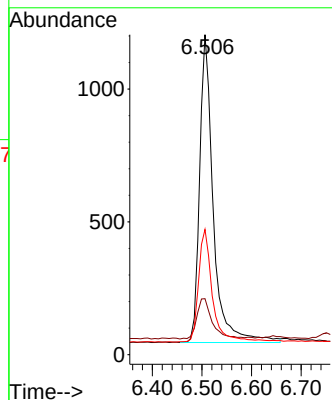
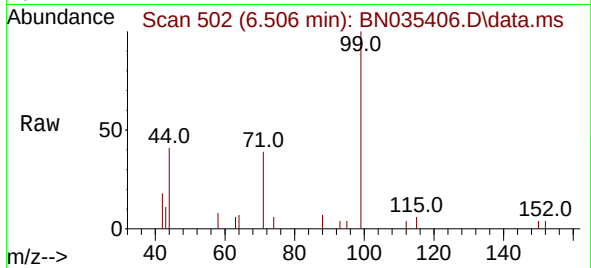




#5
Phenol-d6
Concen: 0.366 ng
RT: 6.506 min Scan# 503
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

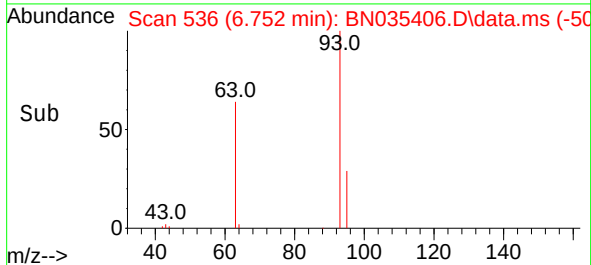
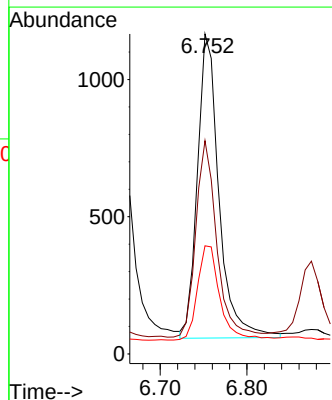
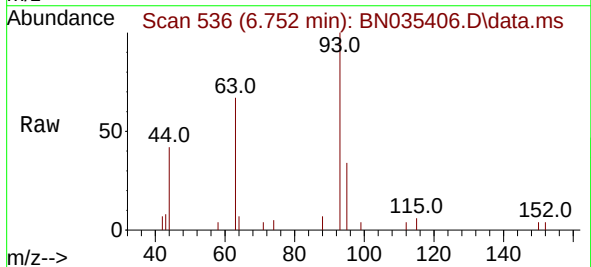
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

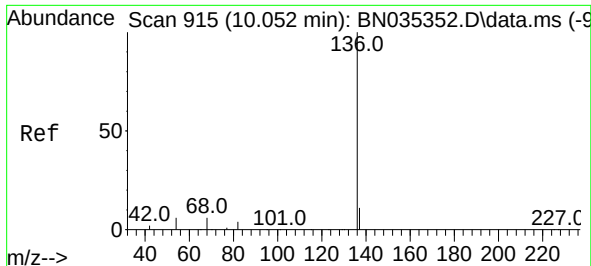
Tgt Ion: 99 Resp: 2219
Ion Ratio Lower Upper
99 100
42 14.9 11.4 17.2
71 37.3 29.3 43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.377 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion: 93 Resp: 1920
Ion Ratio Lower Upper
93 100
63 62.6 50.4 75.6
95 32.1 25.7 38.5

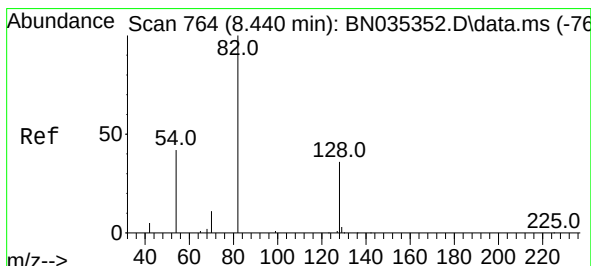
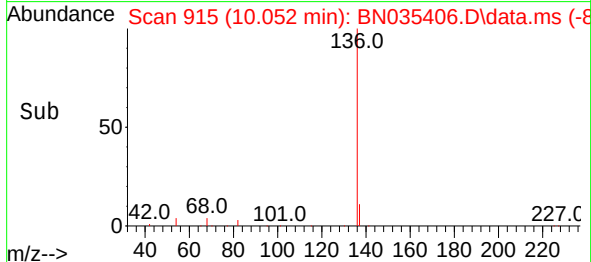
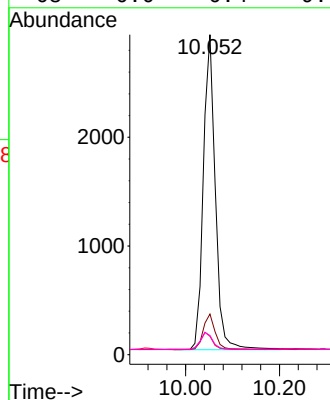
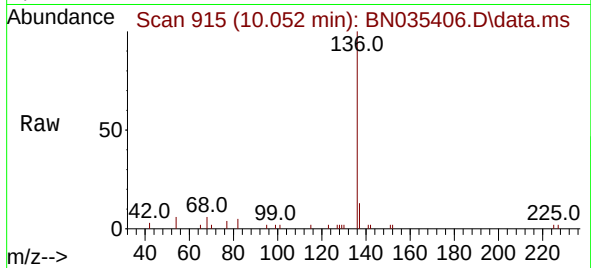




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

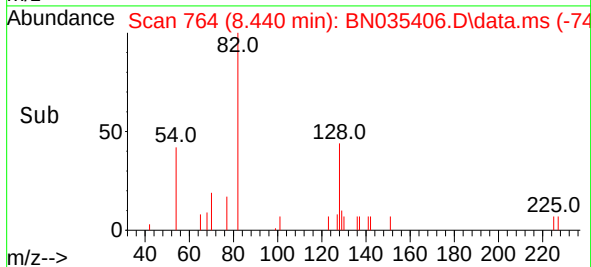
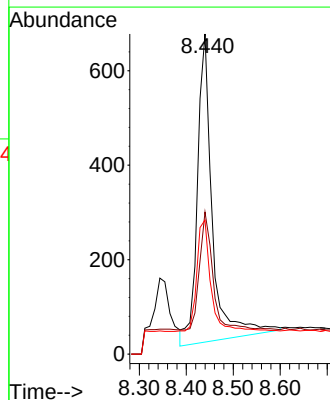
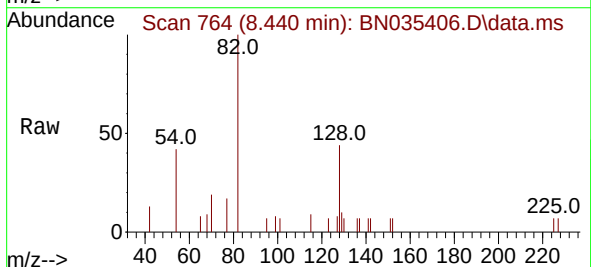
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

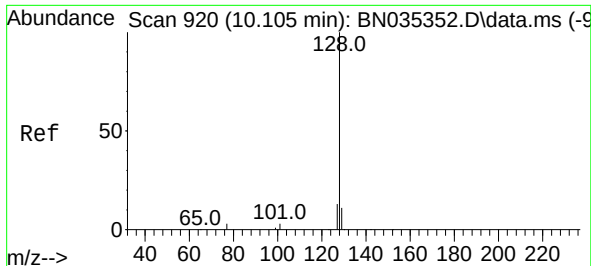
Tgt Ion:	136	Resp:	5135
Ion Ratio	Lower	Upper	
136	100		
137	12.7	10.2	15.2
54	5.8	6.1	9.1#
68	6.0	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.462 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:	82	Resp:	1450
Ion Ratio	Lower	Upper	
82	100		
128	44.4	33.4	50.0
54	41.9	36.7	55.1

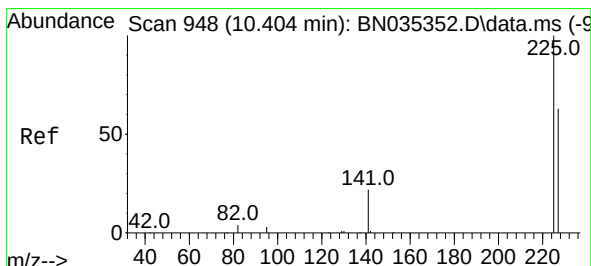
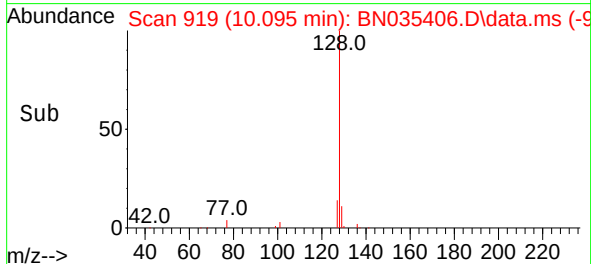
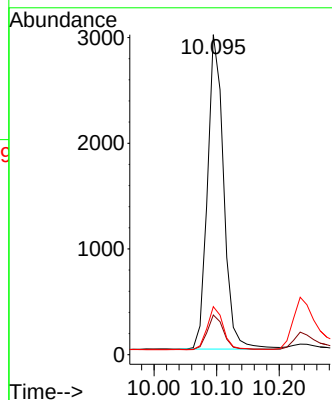
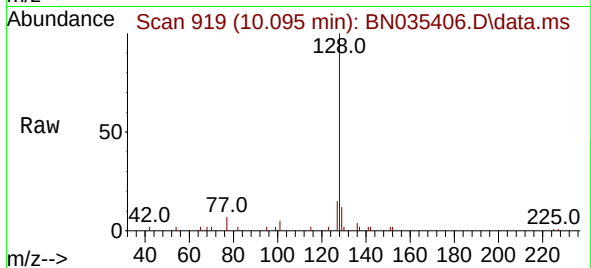




#9
Naphthalene
Concen: 0.393 ng
RT: 10.095 min Scan# 919
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

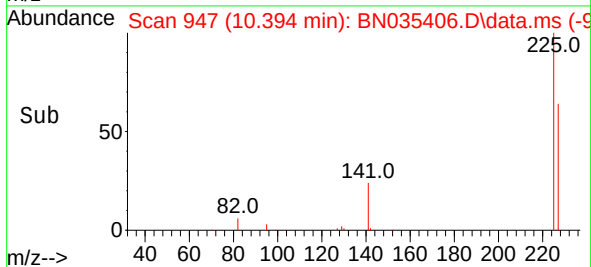
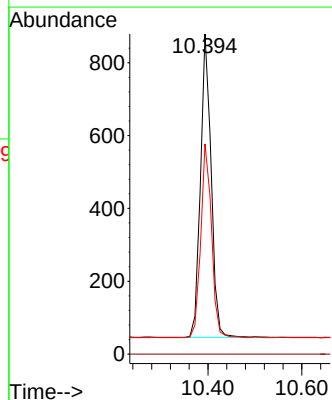
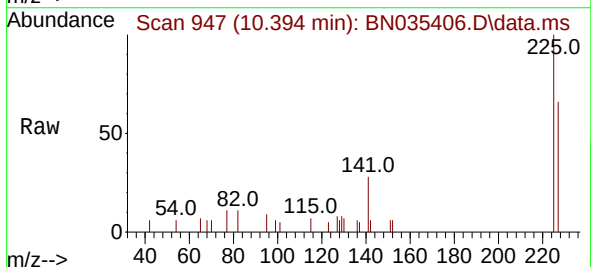
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

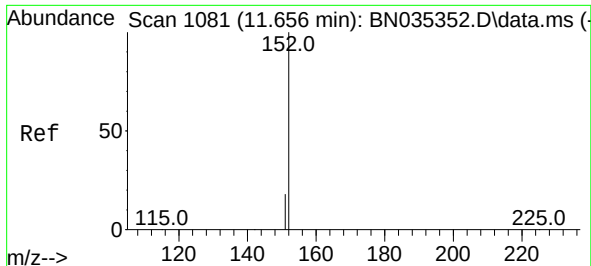
Tgt Ion:128 Resp: 5329
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 15.0 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:225 Resp: 1309
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.6 51.3 76.9





#11

2-Methylnaphthalene-d10

Concen: 0.384 ng

RT: 11.651 min Scan# 1080

Delta R.T. -0.005 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

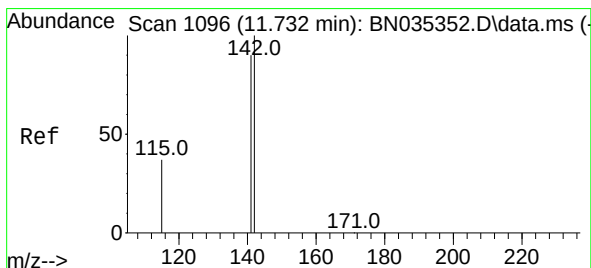
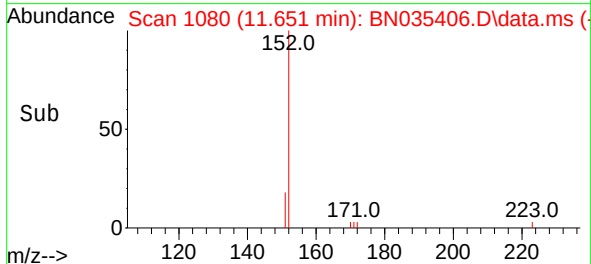
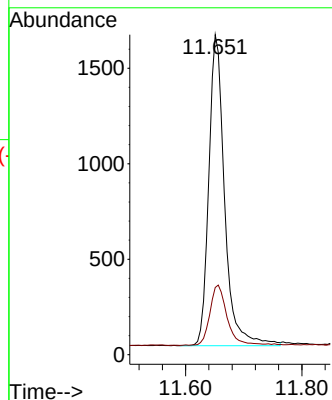
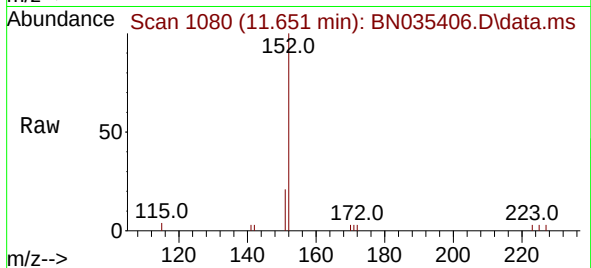
SSTDCCC0.4

Tgt Ion:152 Resp: 3083

Ion Ratio Lower Upper

152 100

151 21.4 16.6 25.0



#12

2-Methylnaphthalene

Concen: 0.390 ng

RT: 11.727 min Scan# 1095

Delta R.T. -0.005 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

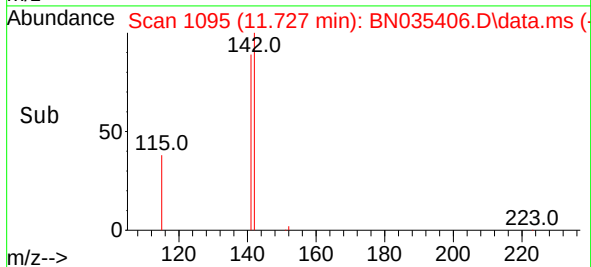
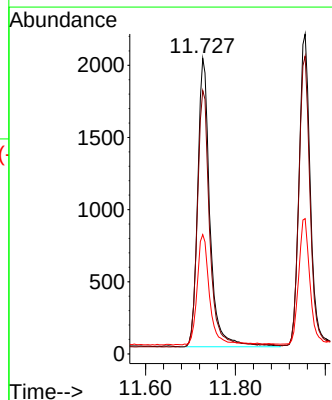
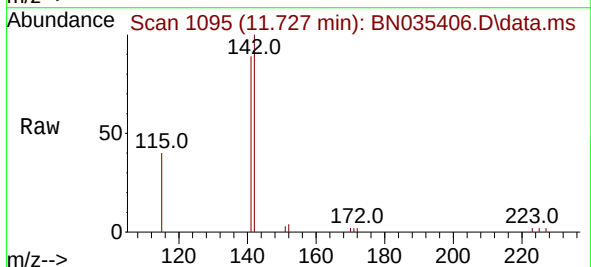
Tgt Ion:142 Resp: 3781

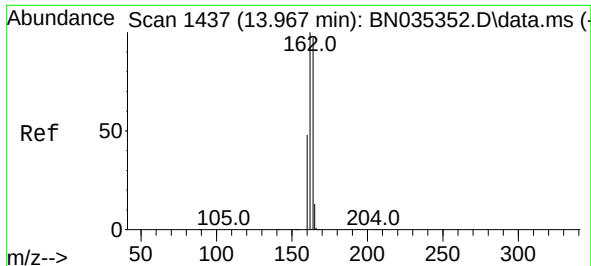
Ion Ratio Lower Upper

142 100

141 89.1 72.2 108.4

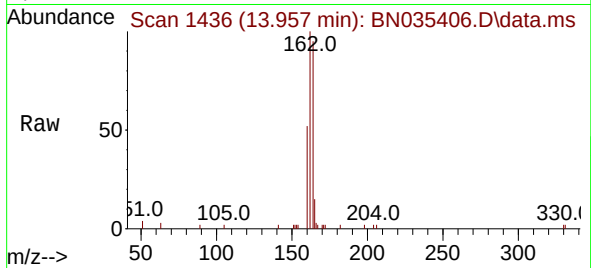
115 40.4 31.4 47.0



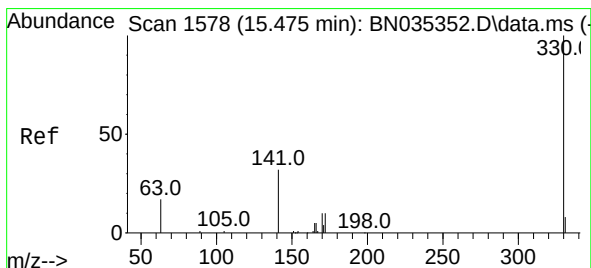
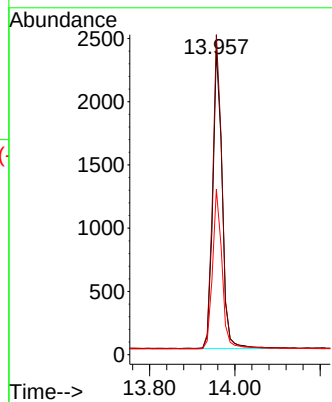
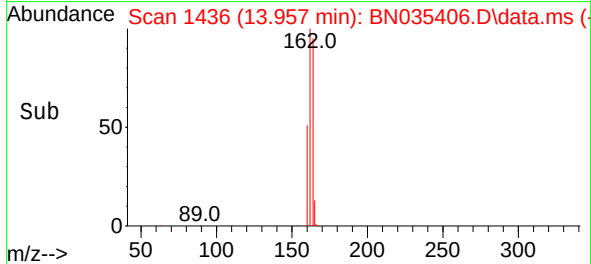


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1437
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

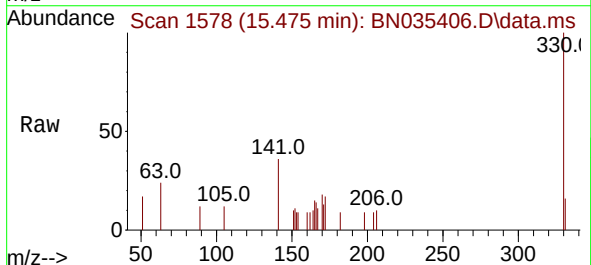
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



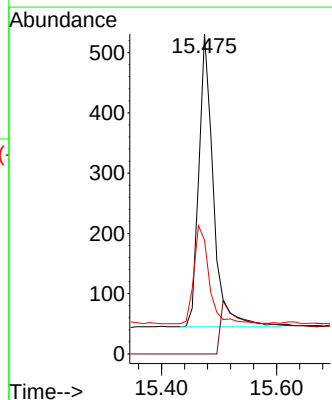
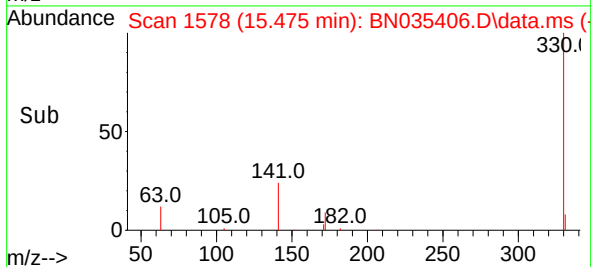
Tgt Ion:164 Resp: 3625
Ion Ratio Lower Upper
164 100
162 105.2 82.2 123.2
160 54.3 40.1 60.1

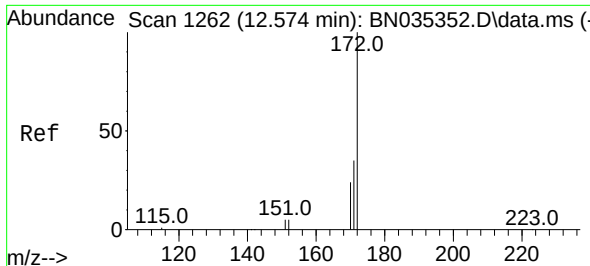


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35



Tgt Ion:330 Resp: 916
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.5 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.407 ng

RT: 12.569 min Scan# 1409

Delta R.T. -0.005 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

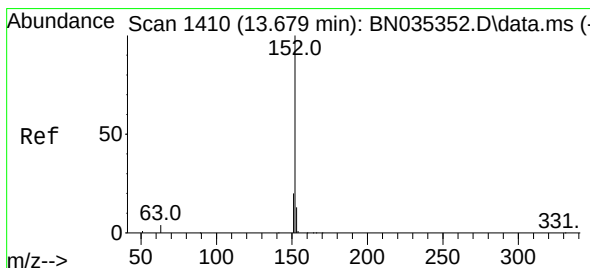
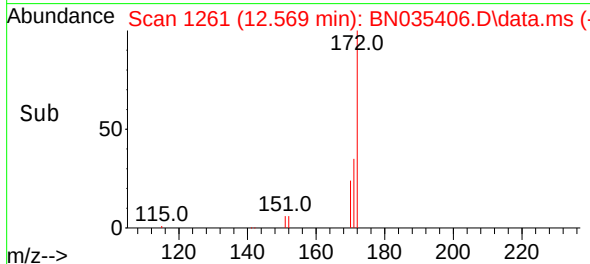
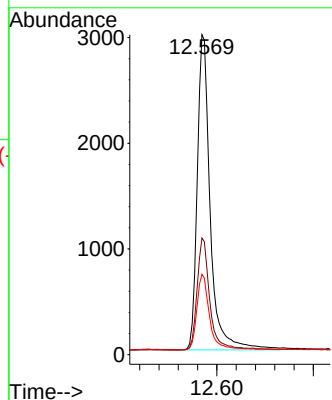
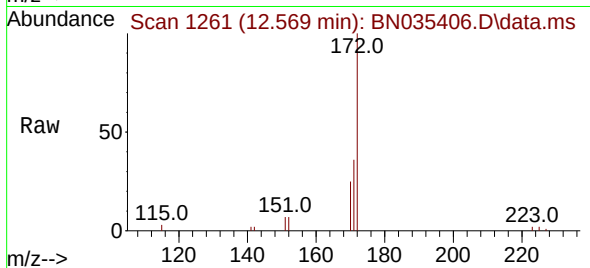
Tgt Ion:172 Resp: 5574

Ion Ratio Lower Upper

172 100

171 36.4 29.0 43.4

170 25.1 19.8 29.8



#16

Acenaphthylene

Concen: 0.387 ng

RT: 13.668 min Scan# 1409

Delta R.T. -0.011 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

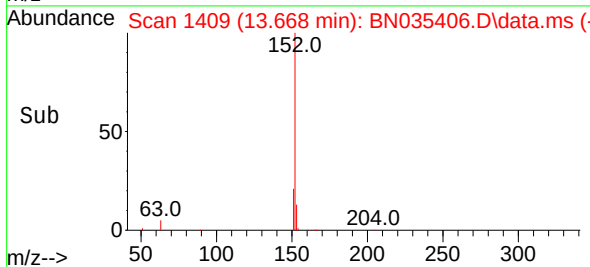
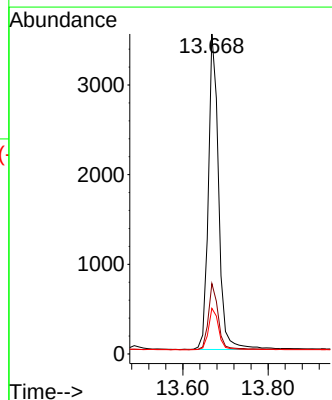
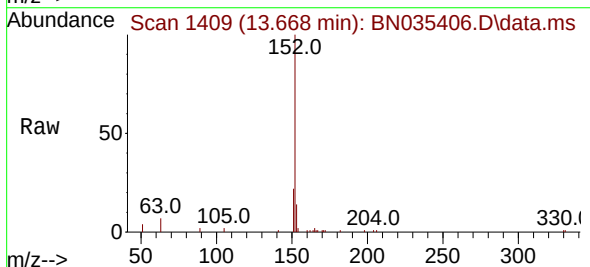
Tgt Ion:152 Resp: 5887

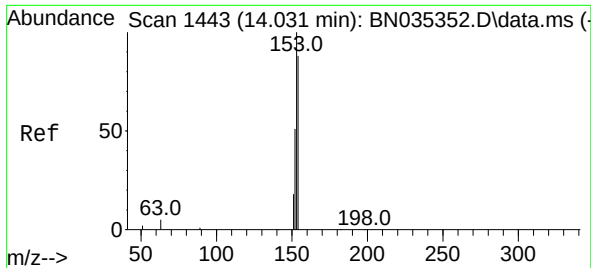
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

153 13.2 10.4 15.6

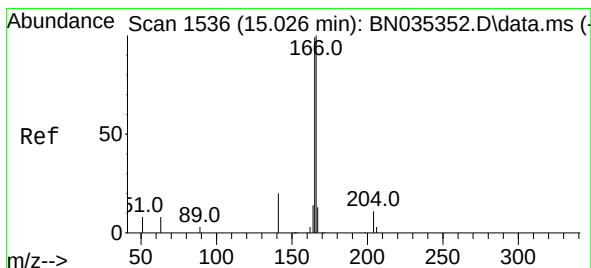
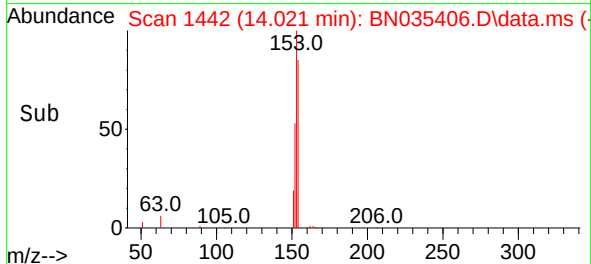
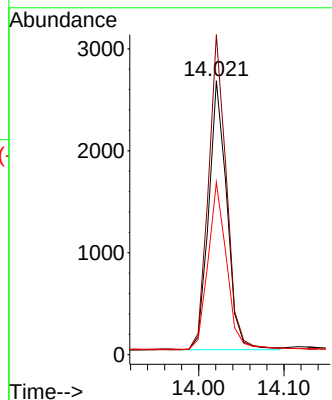
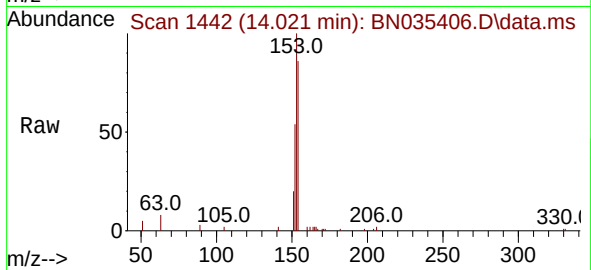




#17
Acenaphthene
Concen: 0.387 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

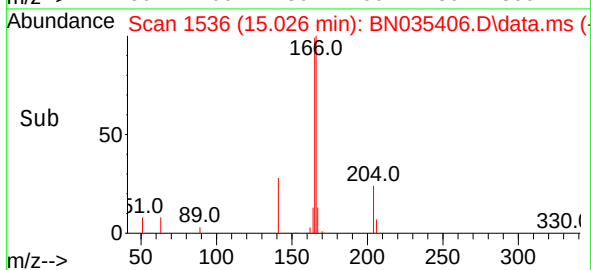
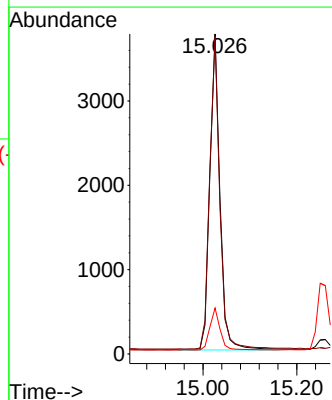
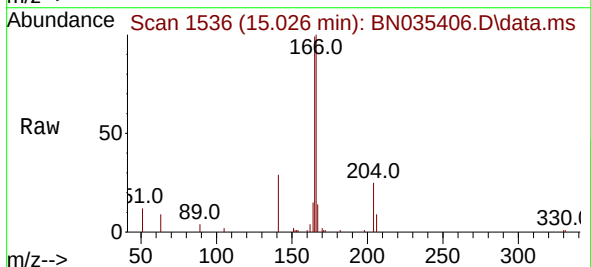
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

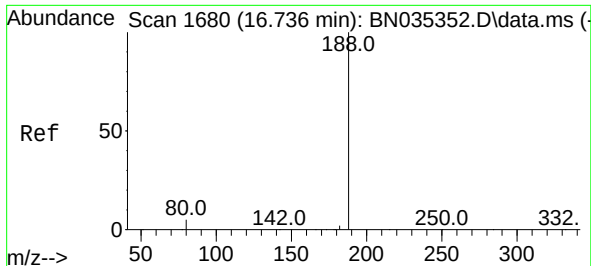
Tgt Ion:154 Resp: 3907
Ion Ratio Lower Upper
154 100
153 117.9 92.6 139.0
152 63.5 49.0 73.6



#18
Fluorene
Concen: 0.387 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:166 Resp: 5593
Ion Ratio Lower Upper
166 100
165 98.8 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: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

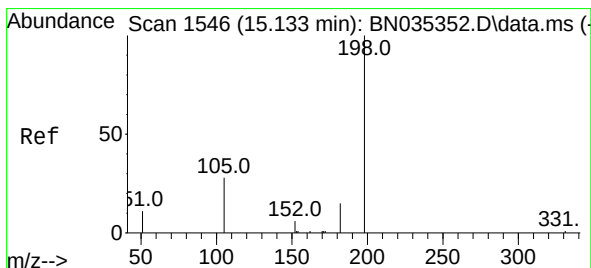
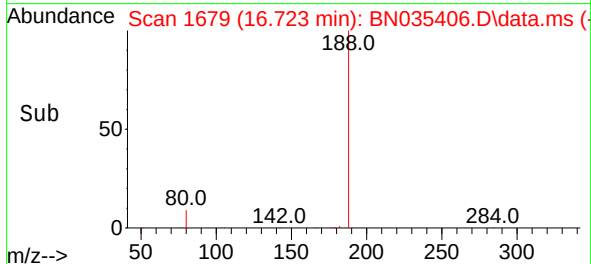
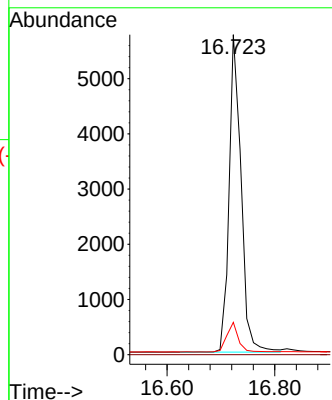
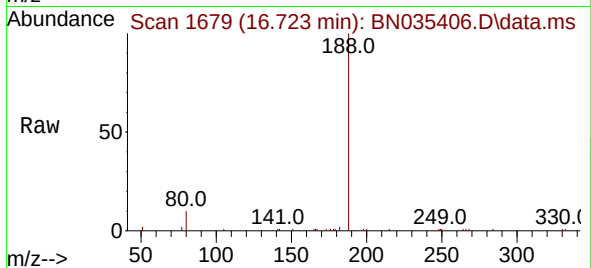
Tgt Ion:188 Resp: 8862

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: 0.334 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

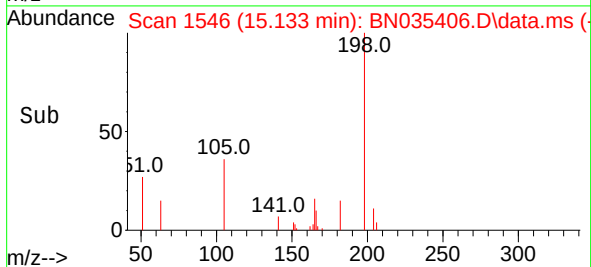
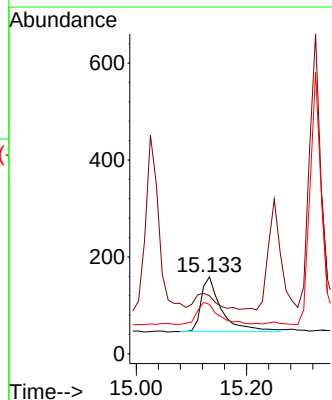
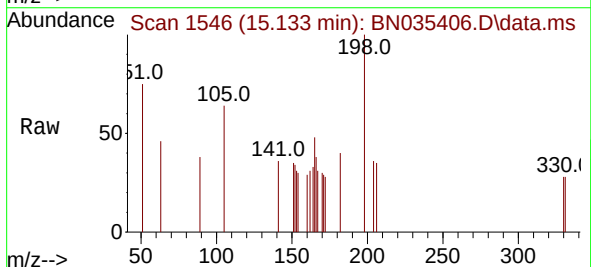
Tgt Ion:198 Resp: 291

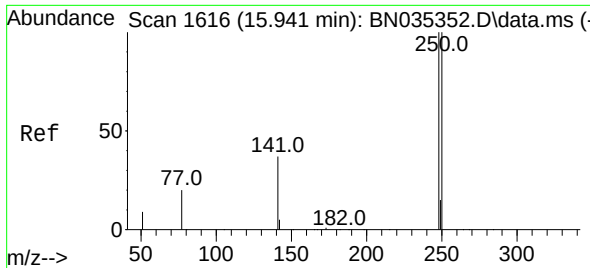
Ion Ratio Lower Upper

198 100

51 75.5 46.5 69.7#

105 64.2 45.3 67.9

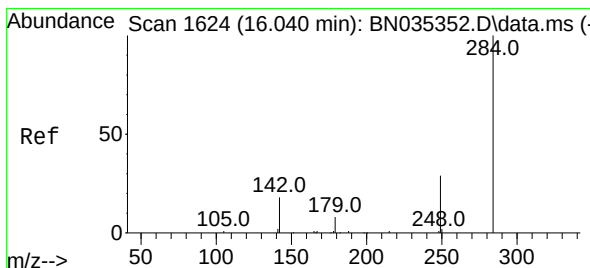
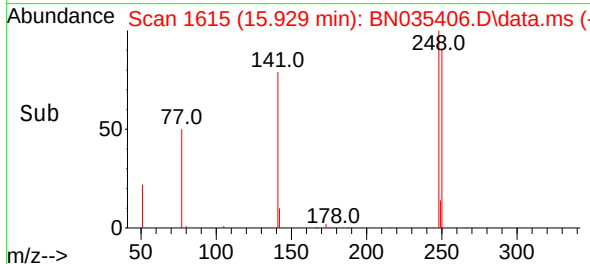
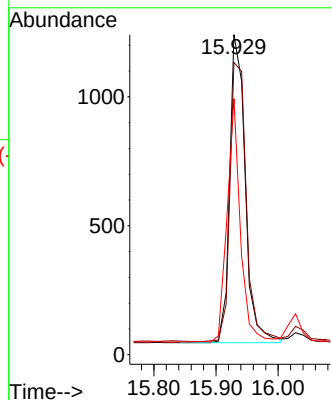
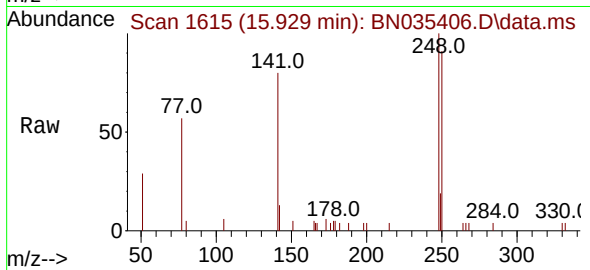




#21
4-Bromophenyl-phenylether
Concen: 0.397 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

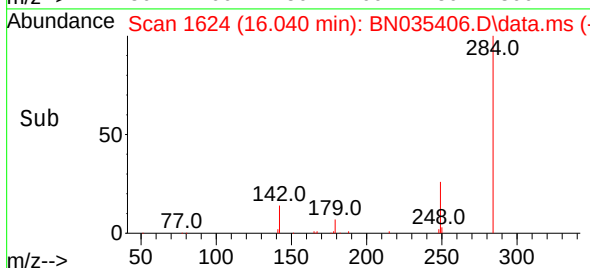
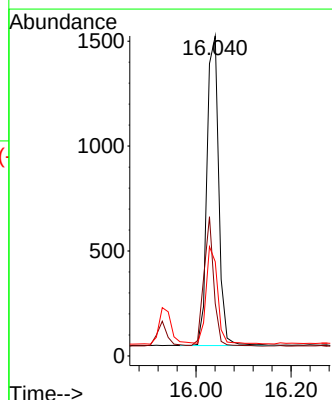
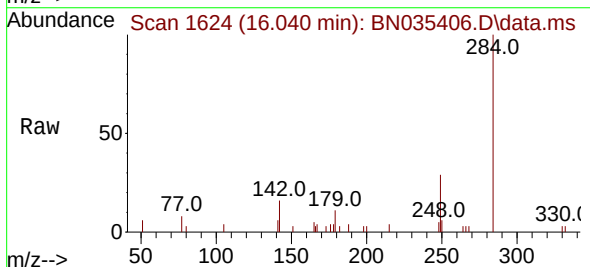
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

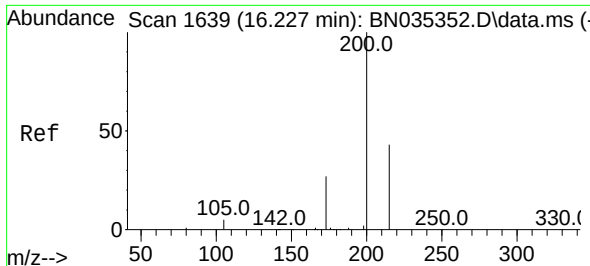
Tgt Ion:248 Resp: 2060
Ion Ratio Lower Upper
248 100
250 91.3 80.6 120.8
141 80.0 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.419 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:284 Resp: 2548
Ion Ratio Lower Upper
284 100
142 35.4 26.7 40.1
249 31.2 24.6 36.8

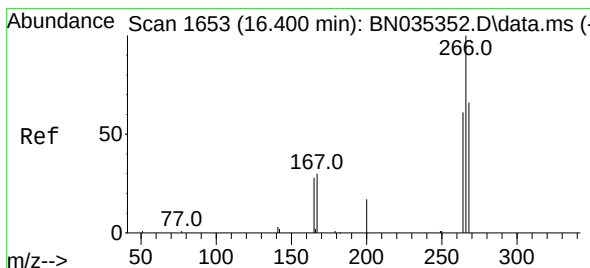
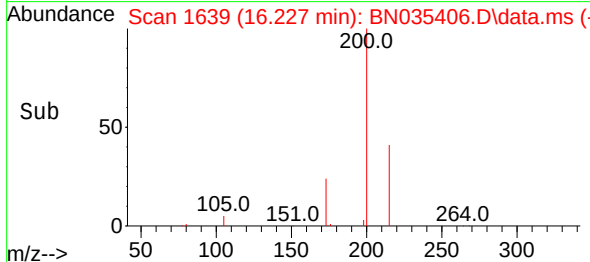
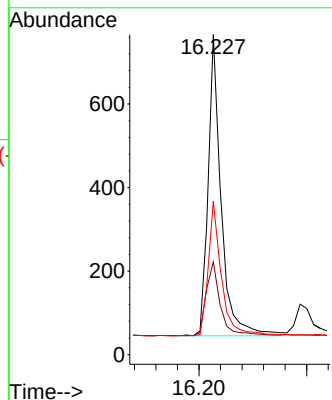
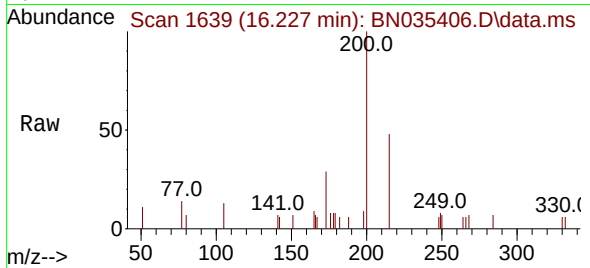




#23
Atrazine
Concen: 0.328 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

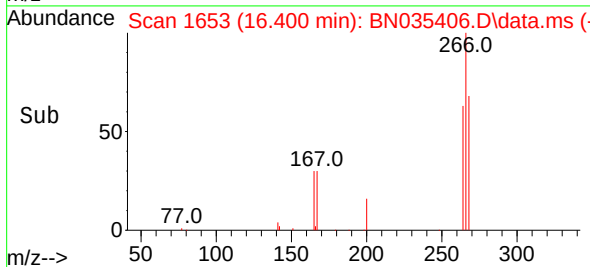
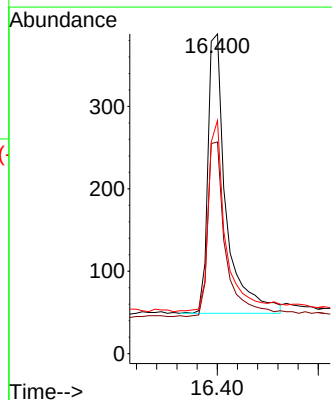
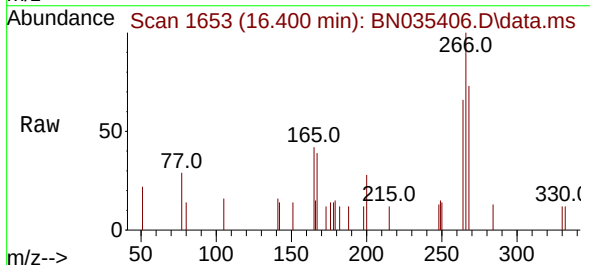
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

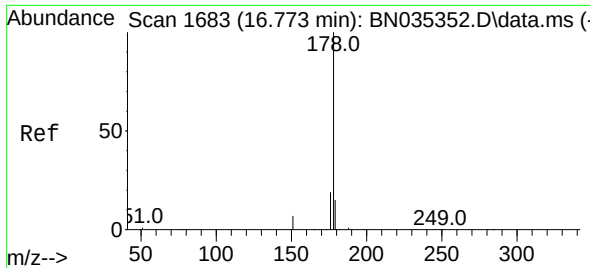
Tgt Ion:200 Resp: 1209
Ion Ratio Lower Upper
200 100
173 29.0 24.1 36.1
215 47.9 36.9 55.3



#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:266 Resp: 848
Ion Ratio Lower Upper
266 100
264 63.0 42.3 63.5
268 67.1 43.3 64.9#

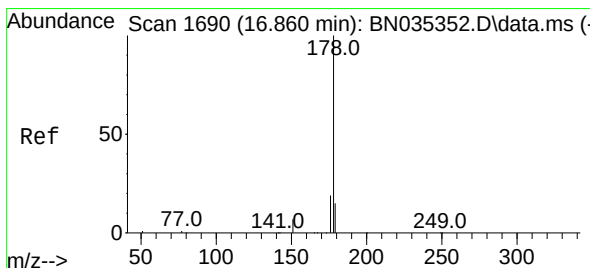
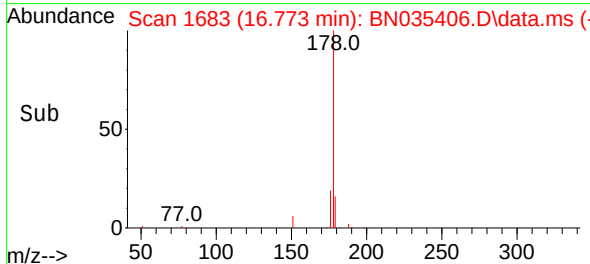
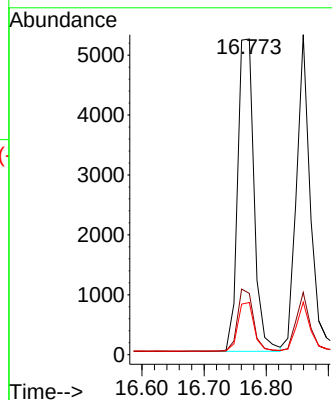
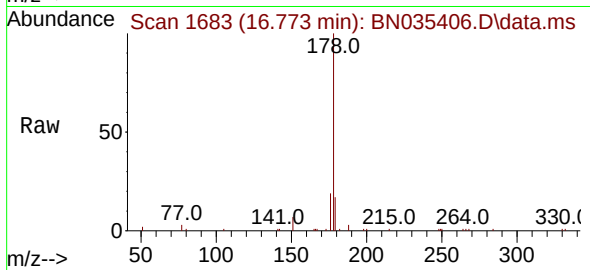




#25
Phenanthrene
Concen: 0.393 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

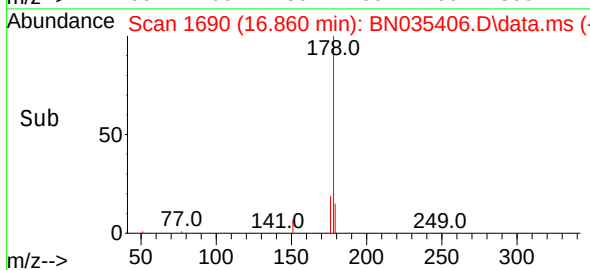
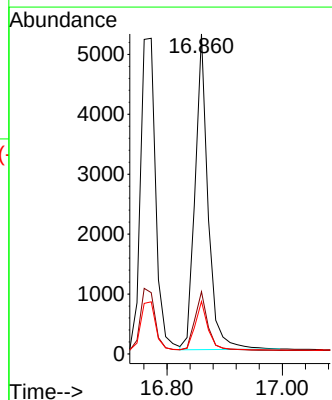
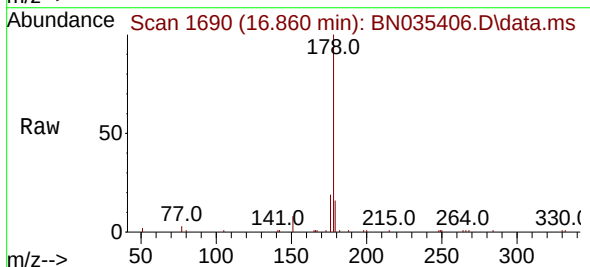
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

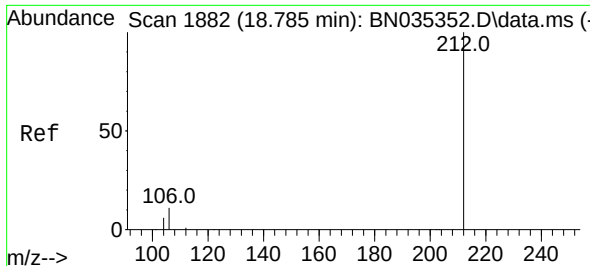
Tgt Ion:178 Resp: 9564
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.374 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:178 Resp: 8243
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.6 18.8

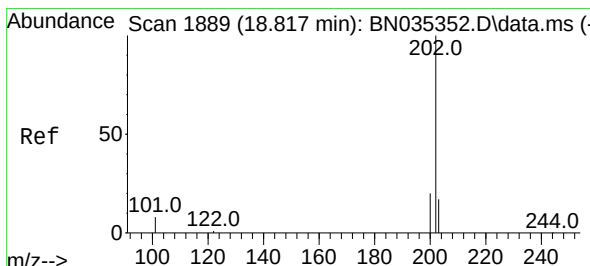
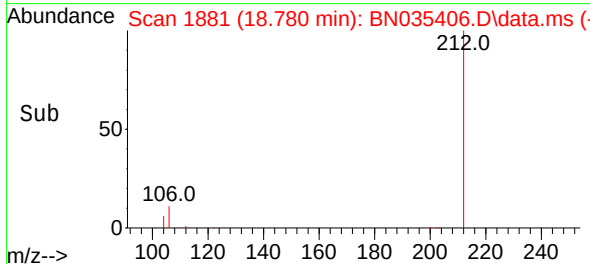
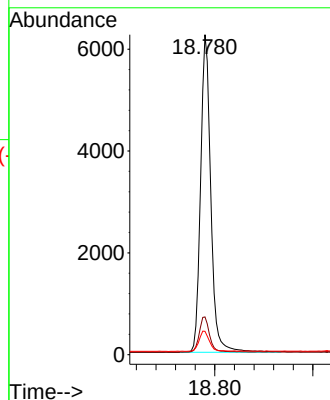
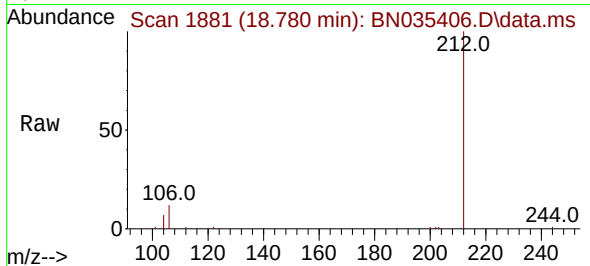




#27
Fluoranthene-d10
Concen: 0.359 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

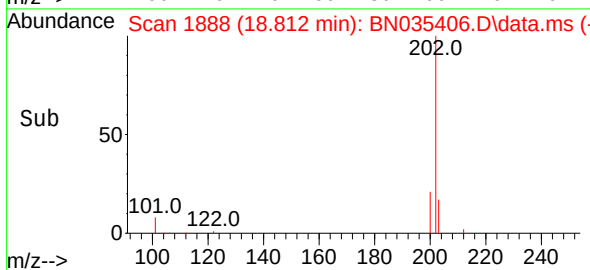
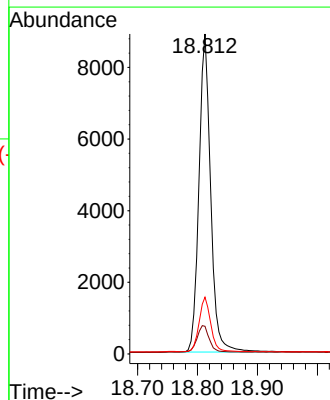
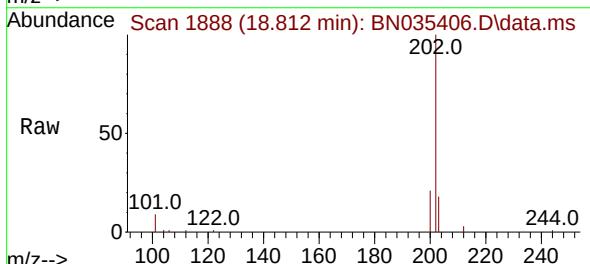
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

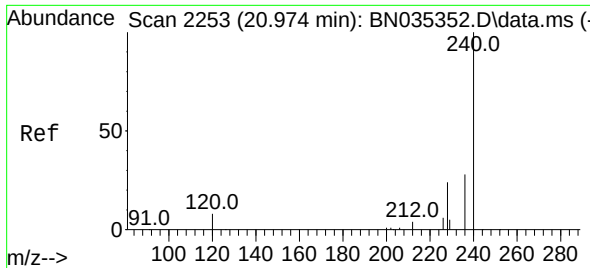
Tgt Ion:212 Resp: 9013
Ion Ratio Lower Upper
212 100
106 11.3 9.2 13.8
104 6.3 5.3 7.9



#28
Fluoranthene
Concen: 0.367 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:202 Resp: 12056
Ion Ratio Lower Upper
202 100
101 8.9 7.4 11.0
203 17.1 13.7 20.5

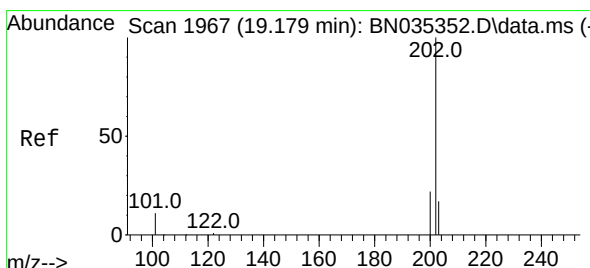
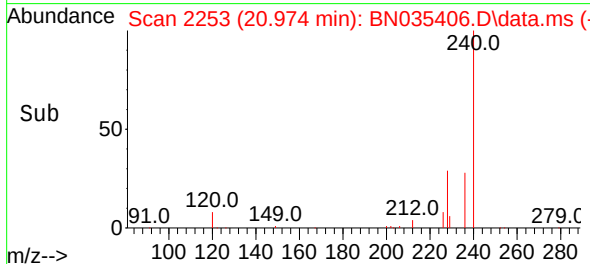
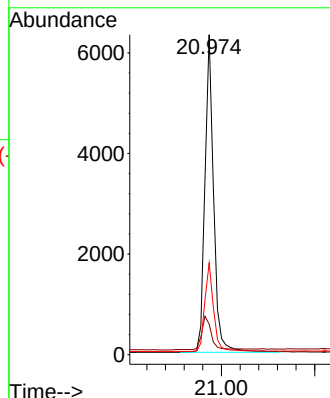
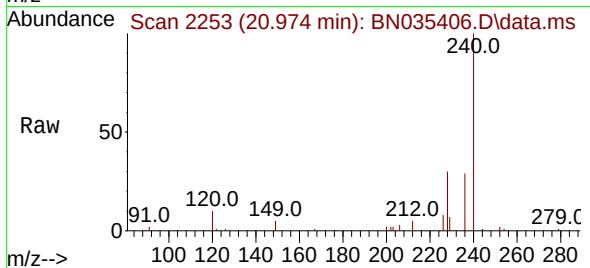




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

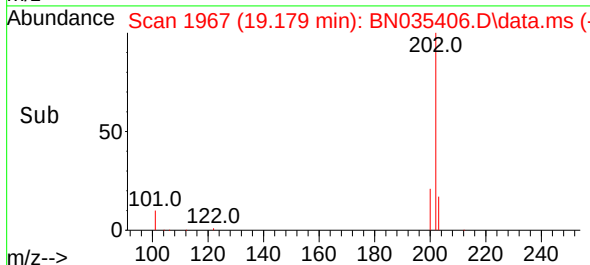
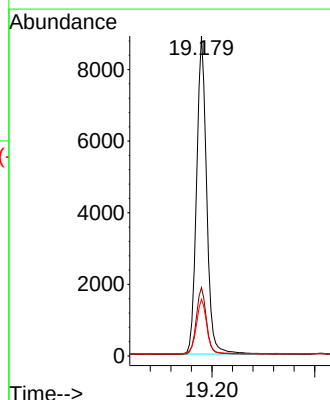
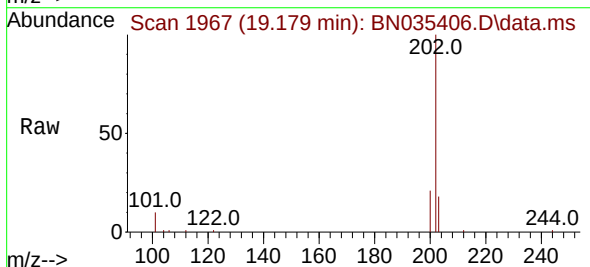
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

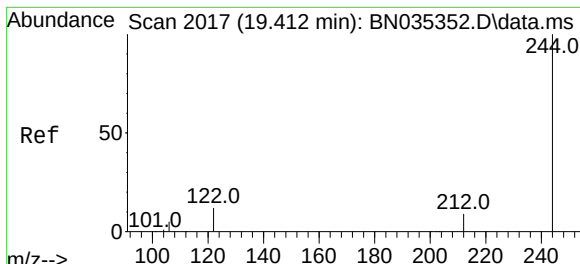
Tgt Ion:240 Resp: 8251
Ion Ratio Lower Upper
240 100
120 9.6 7.9 11.9
236 28.6 22.9 34.3



#30
Pyrene
Concen: 0.400 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:202 Resp: 12183
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.6 14.3 21.5

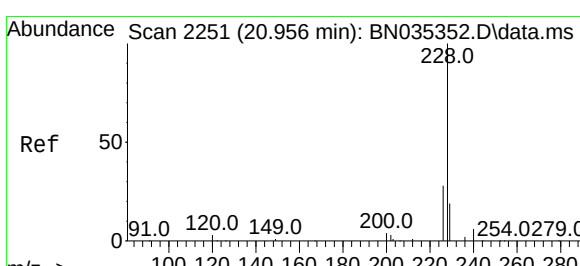
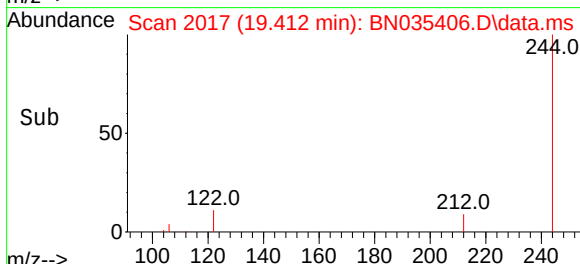
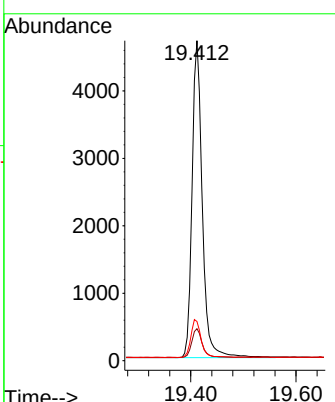
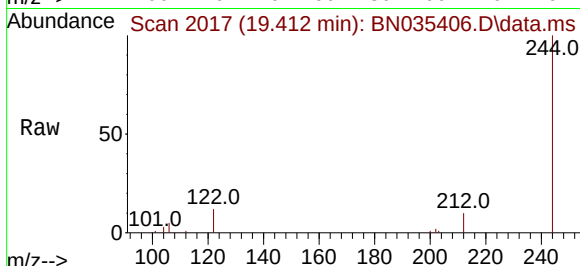




#31
 Terphenyl-d14
 Concen: 0.389 ng
 RT: 19.412 min Scan# 2017
 Delta R.T. -0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

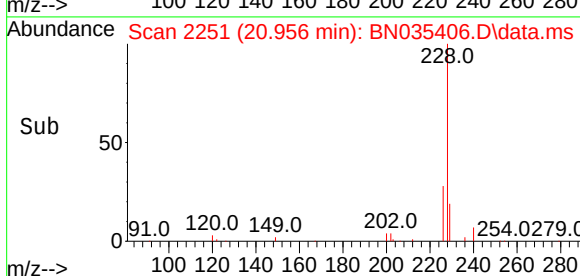
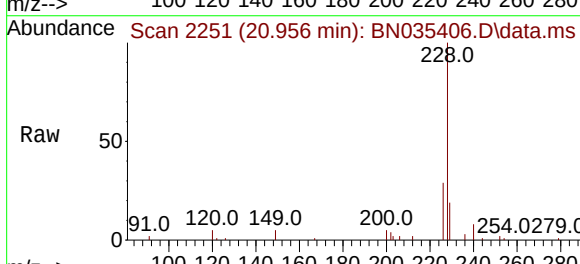
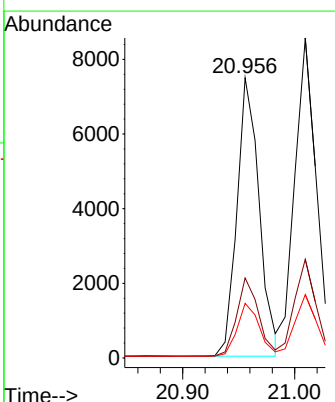
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

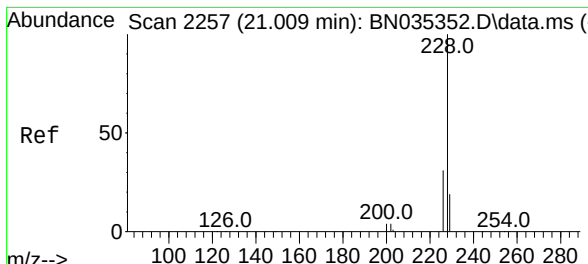
Tgt Ion:	244	Resp:	6327
Ion Ratio	Lower	Upper	
244	100		
212	10.0	8.1	12.1
122	12.2	10.3	15.5



#32
 Benzo(a)anthracene
 Concen: 0.357 ng
 RT: 20.956 min Scan# 2251
 Delta R.T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion:	228	Resp:	10317
Ion Ratio	Lower	Upper	
228	100		
226	28.6	22.5	33.7
229	19.5	15.8	23.8

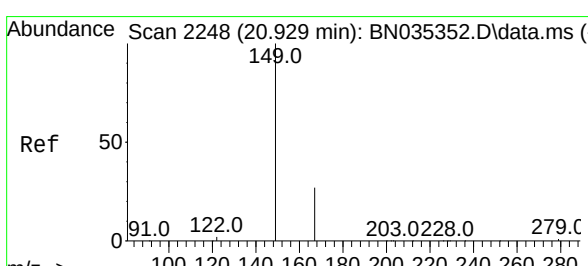
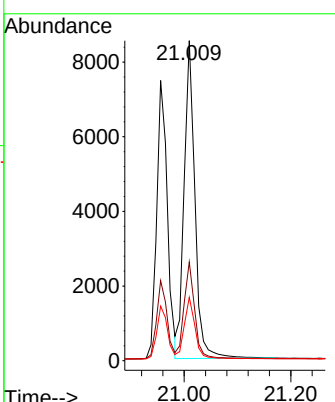
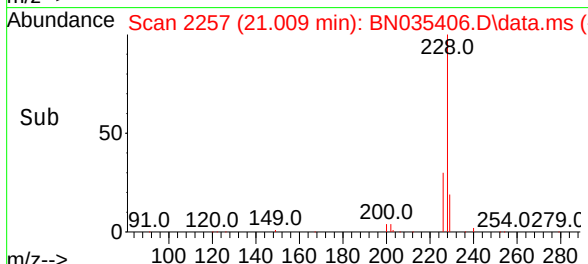
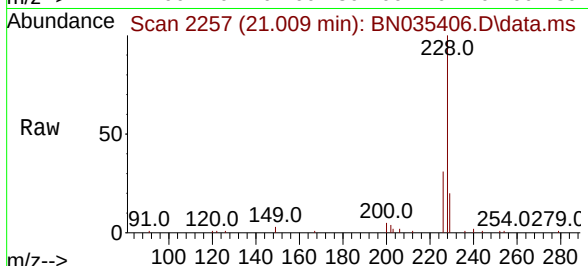




#33
 Chrysene
 Concen: 0.403 ng
 RT: 21.009 min Scan# 21005
 Delta R.T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

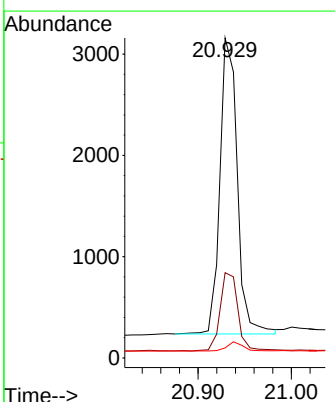
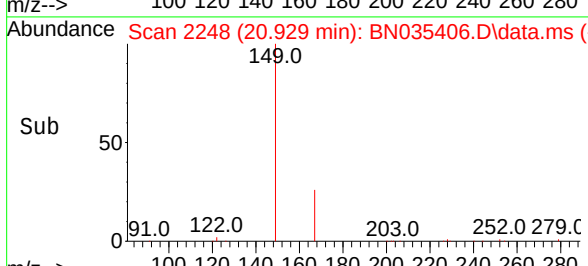
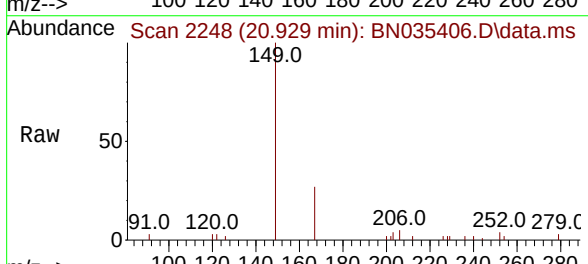
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

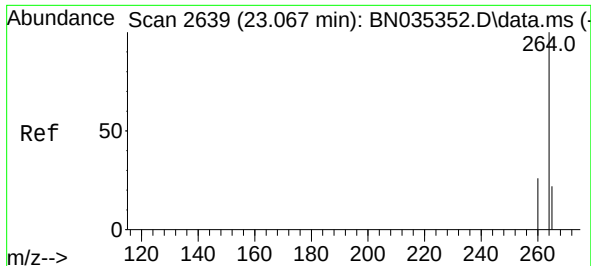
Tgt Ion:	228	Resp:	12005
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.6	37.0
229	19.8	15.9	23.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.331 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion:	149	Resp:	3769
Ion Ratio	Lower	Upper	
149	100		
167	27.1	22.2	33.4
279	3.1	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: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

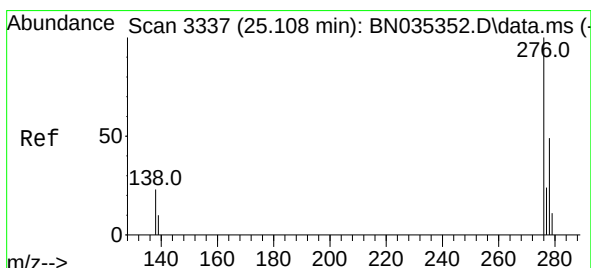
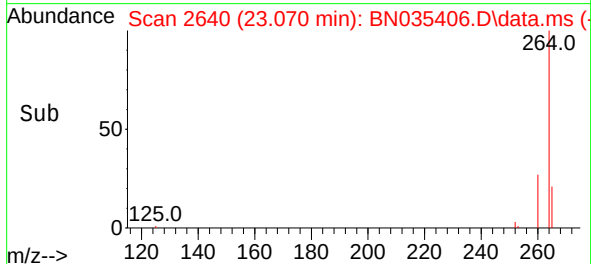
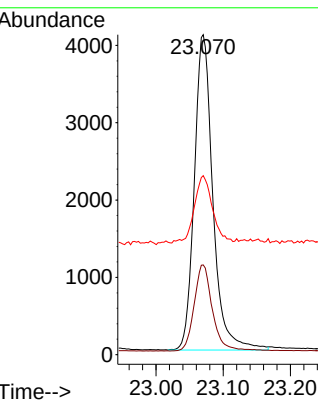
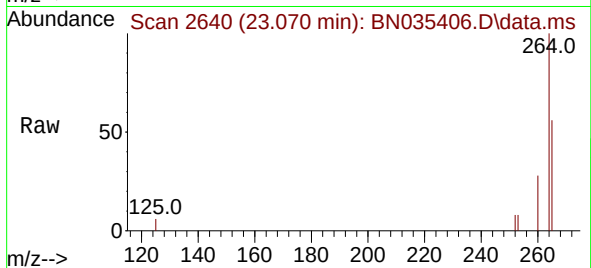
Tgt Ion:264 Resp: 7832

Ion Ratio Lower Upper

264 100

260 28.1 21.4 32.2

265 55.9 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.368 ng

RT: 25.108 min Scan# 3337

Delta R.T. 0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

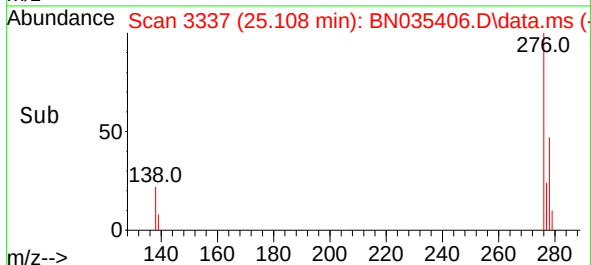
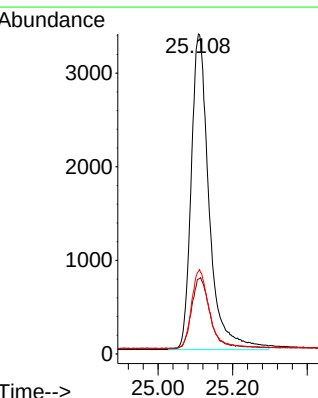
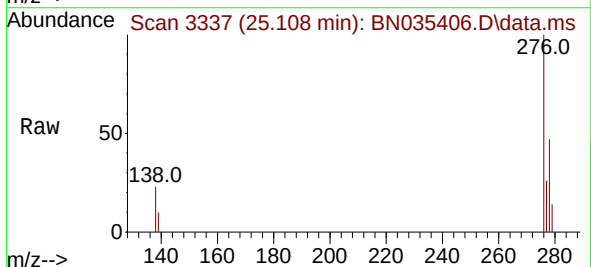
Tgt Ion:276 Resp: 11257

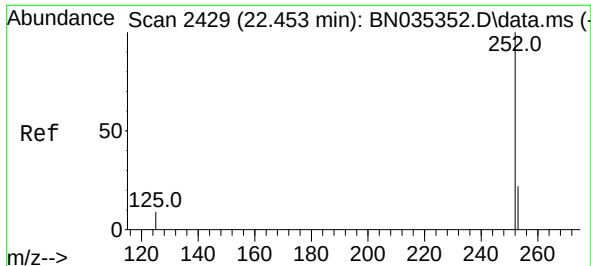
Ion Ratio Lower Upper

276 100

138 22.5 19.4 29.0

277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

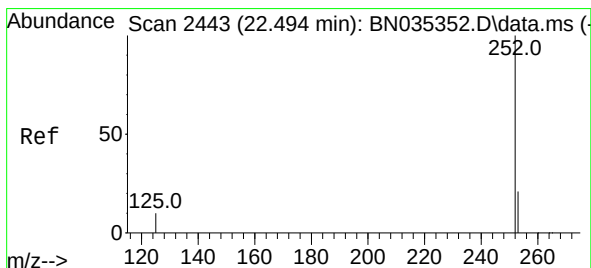
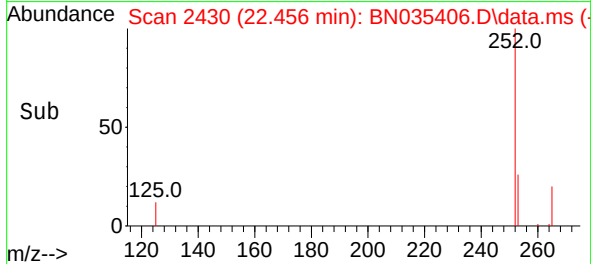
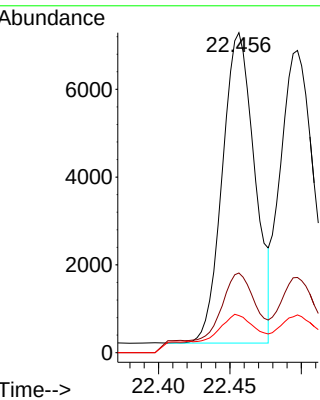
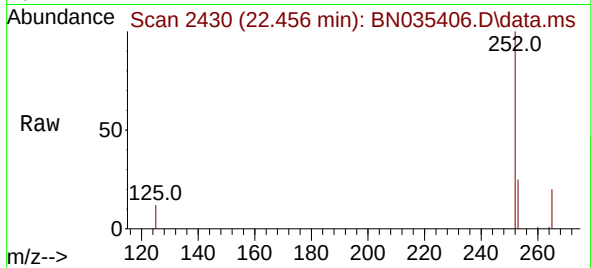
Tgt Ion:252 Resp: 11172

Ion Ratio Lower Upper

252 100

253 24.9 19.6 29.4

125 11.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.414 ng

RT: 22.497 min Scan# 2444

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

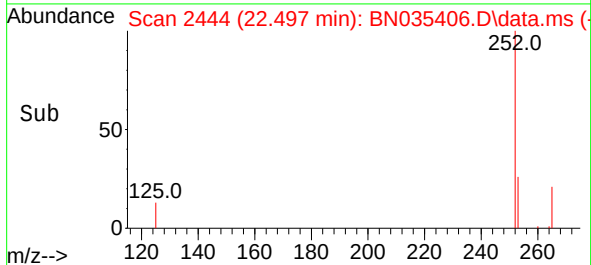
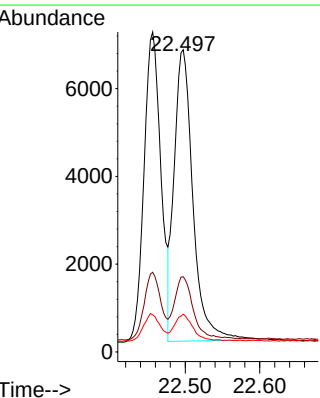
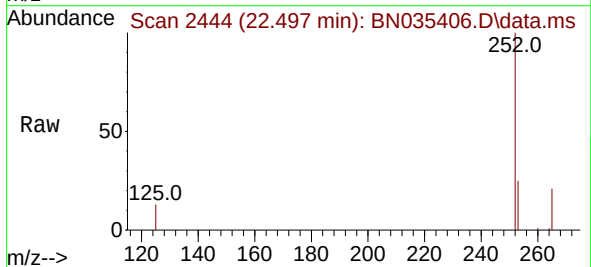
Tgt Ion:252 Resp: 11663

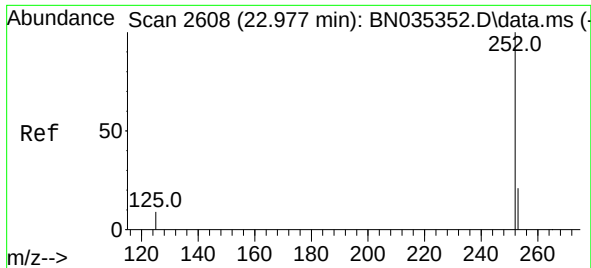
Ion Ratio Lower Upper

252 100

253 24.9 19.5 29.3

125 12.5 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

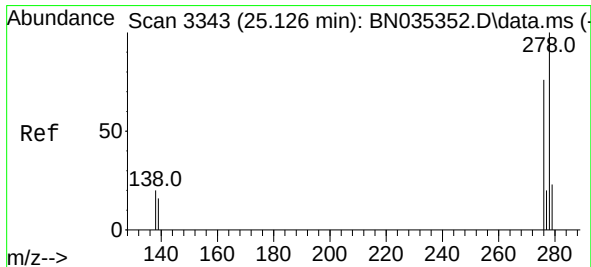
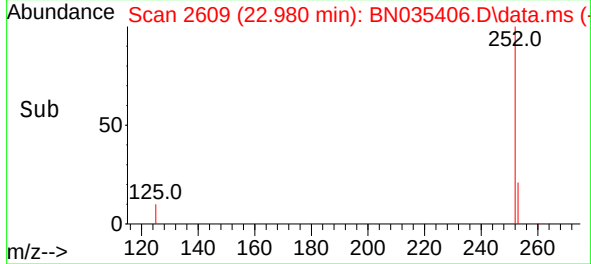
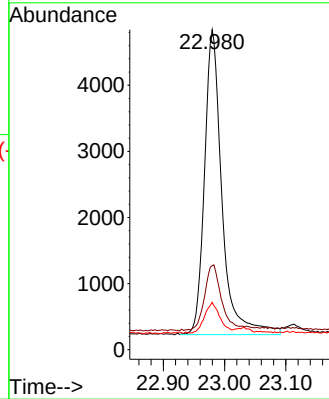
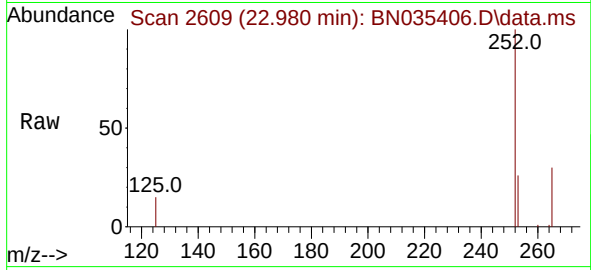
Tgt Ion:252 Resp: 9142

Ion Ratio Lower Upper

252 100

253 26.3 20.2 30.4

125 14.8 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.359 ng

RT: 25.126 min Scan# 3343

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

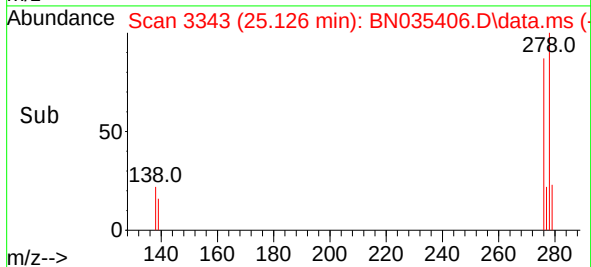
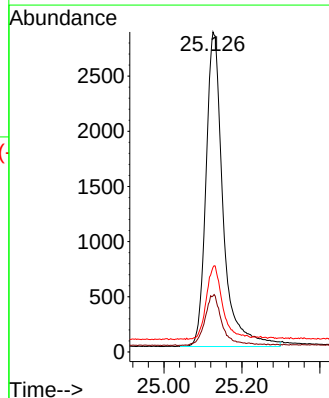
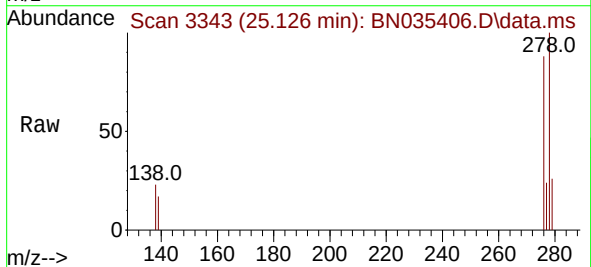
Tgt Ion:278 Resp: 8667

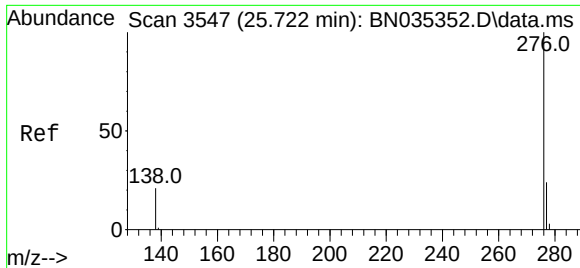
Ion Ratio Lower Upper

278 100

139 17.5 14.2 21.4

279 26.4 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.383 ng

RT: 25.722 min Scan# 3

Delta R.T. 0.000 min

Lab File: BN035406.D

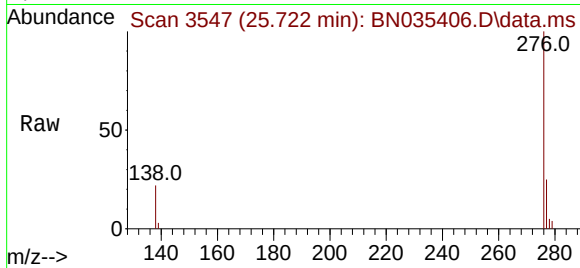
Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



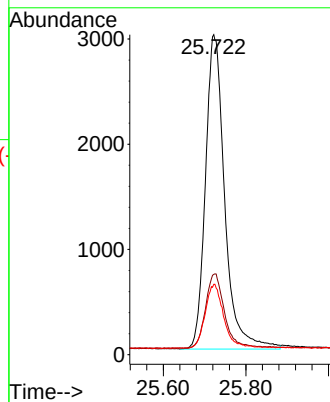
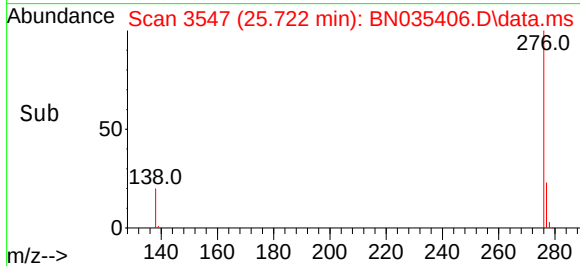
Tgt Ion:276 Resp: 9676

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

138 22.0 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035410.D
Acq On : 03 Dec 2024 19:24
Operator : RC/JU
Sample : P5065-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

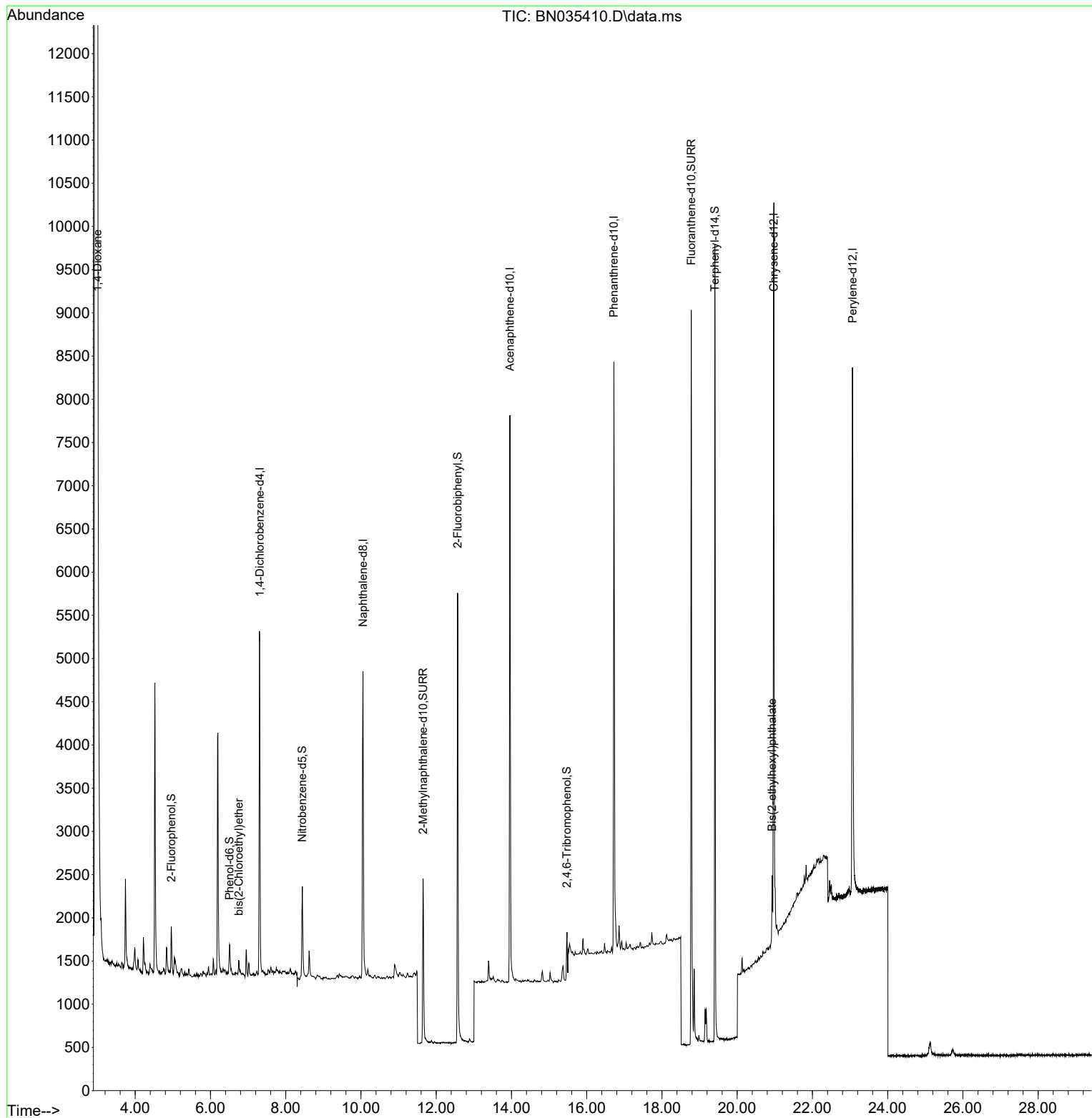
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2075	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5240	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3772	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9570	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	8675	0.400	ng	0.00
35) Perylene-d12	23.064	264	8373	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	496	0.096	ng	0.00
5) Phenol-d6	6.506	99	374	0.060	ng	0.00
8) Nitrobenzene-d5	8.440	82	1256	0.392	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2970	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	530	0.198	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5211	0.365	ng	0.00
27) Fluoranthene-d10	18.780	212	10124	0.373	ng	0.00
31) Terphenyl-d14	19.407	244	9247	0.540	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.996	88	6354	3.203	ng	98
6) bis(2-Chloroethyl)ether	6.752	93	129	0.025	ng	94
34) Bis(2-ethylhexyl)phtha...	20.929	149	831	0.069	ng	# 93

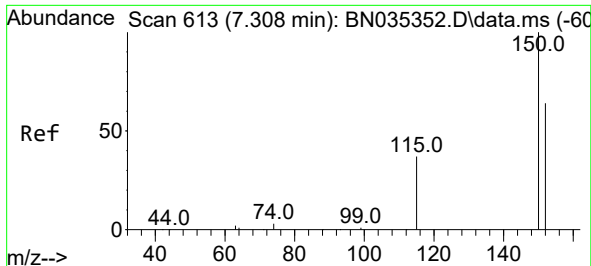
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035410.D
Acq On : 03 Dec 2024 19:24
Operator : RC/JU
Sample : P5065-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

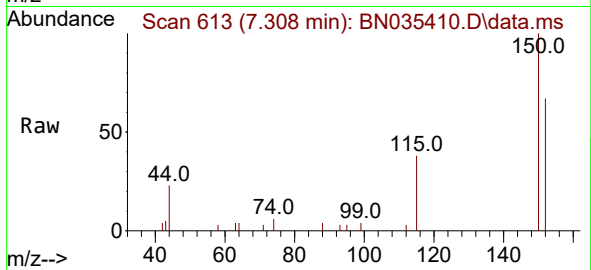
Quant Time: Dec 03 22:05:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



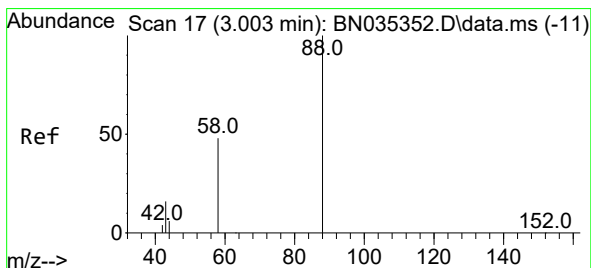
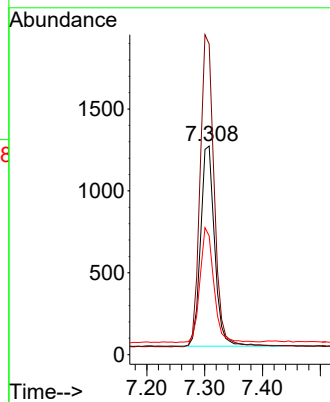
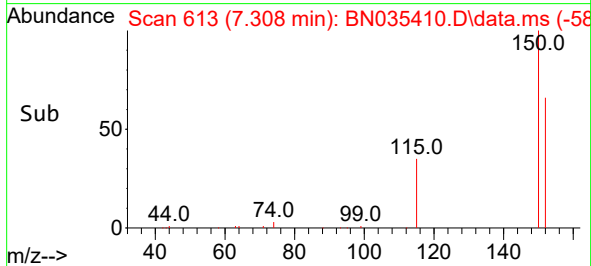


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

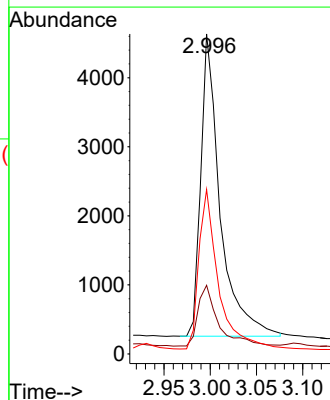
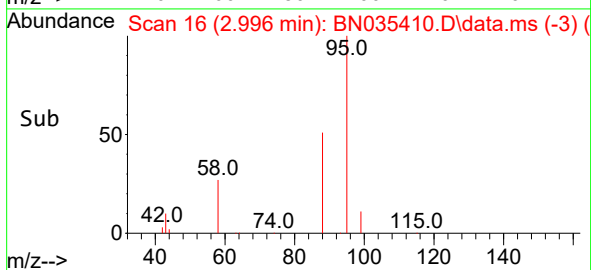
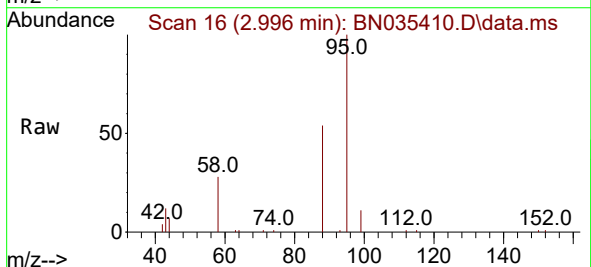


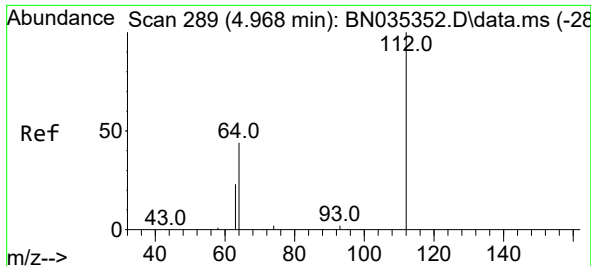
Tgt Ion:152 Resp: 2075
Ion Ratio Lower Upper
152 100
150 148.8 124.0 186.0
115 56.9 49.6 74.4



#2
1,4-Dioxane
Concen: 3.203 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion: 88 Resp: 6354
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 53.3 44.5 66.7

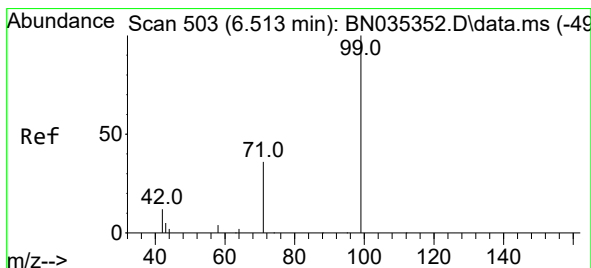
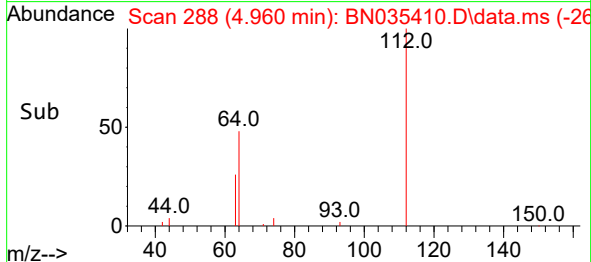
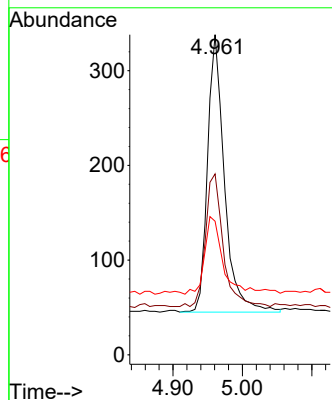
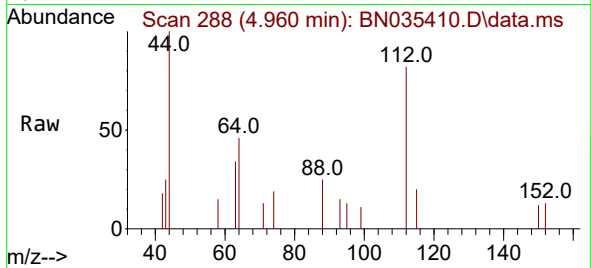




#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.960 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

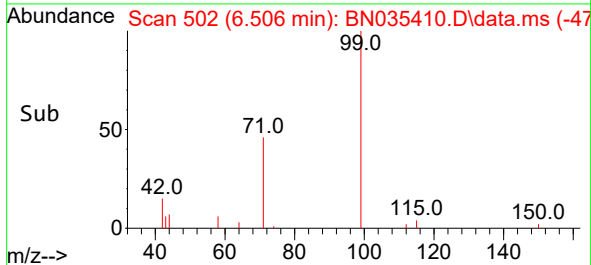
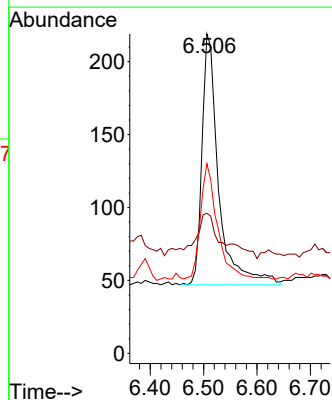
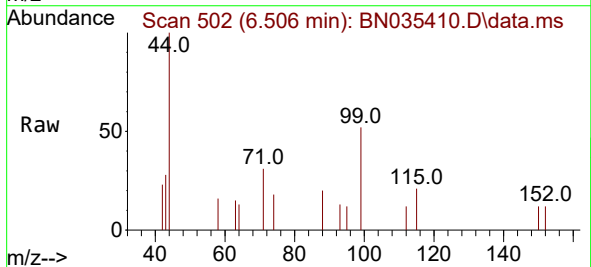
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

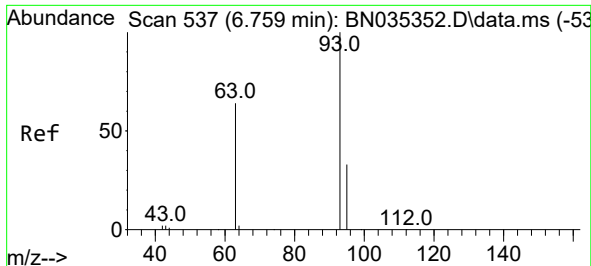
Tgt Ion:	112	Resp:	496
Ion	Ratio	Lower	Upper
112	100		
64	50.4	39.8	59.8
63	30.0	21.0	31.6



#5
Phenol-d6
Concen: 0.060 ng
RT: 6.506 min Scan# 502
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:	99	Resp:	374
Ion	Ratio	Lower	Upper
99	100		
42	27.8	11.4	17.2#
71	46.8	29.3	43.9#

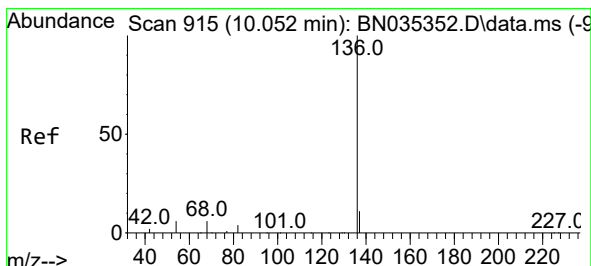
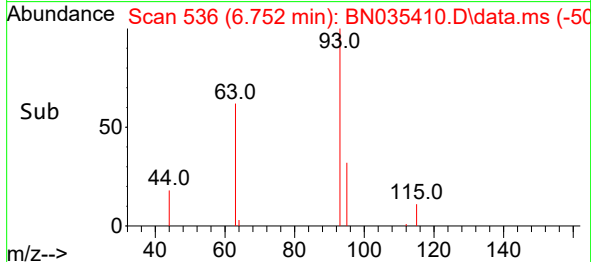
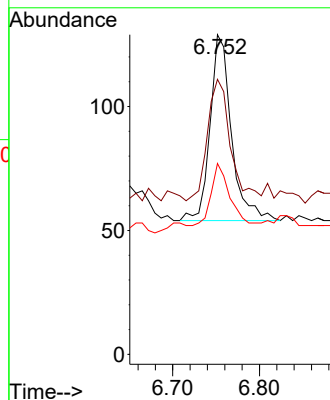
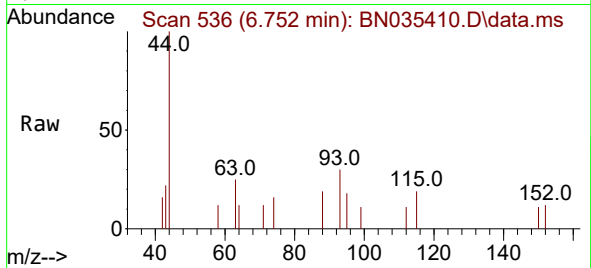




#6
bis(2-Chloroethyl)ether
Concen: 0.025 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

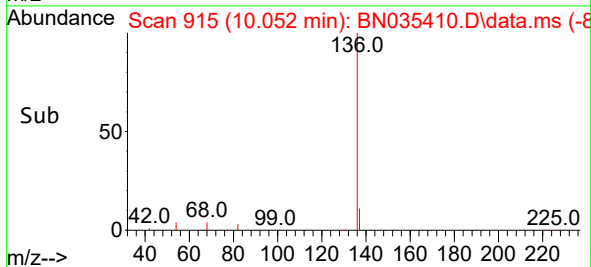
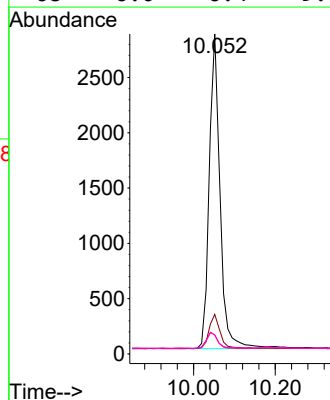
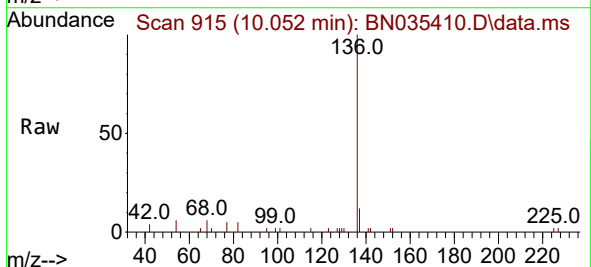
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

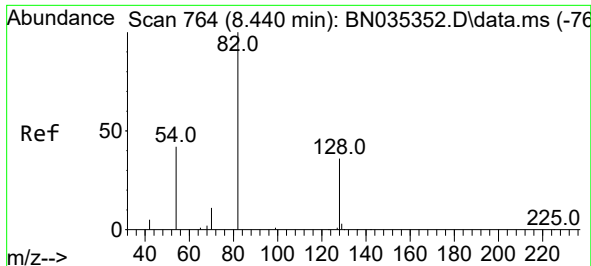
Tgt Ion: 93	Resp:	129
Ion	Ratio	Lower Upper
93	100	
63	69.8	50.4 75.6
95	31.8	25.7 38.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion: 136	Resp:	5240
Ion	Ratio	Lower Upper
136	100	
137	12.3	10.2 15.2
54	5.9	6.1 9.1#
68	6.0	6.4 9.6#

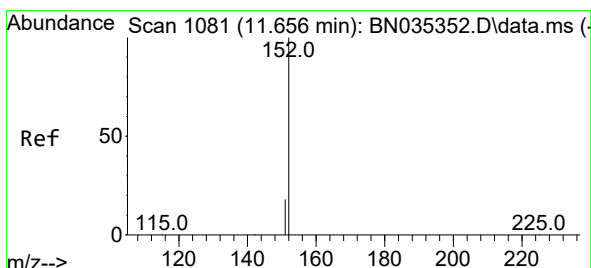
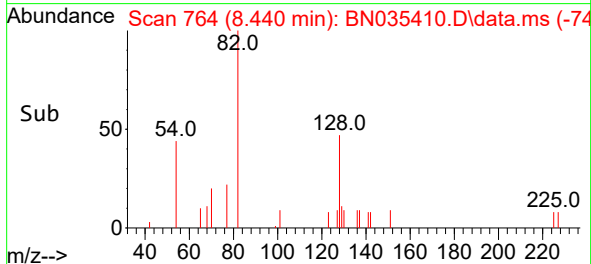
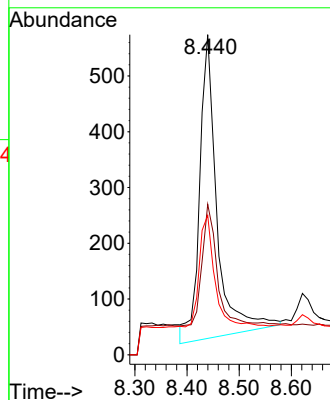
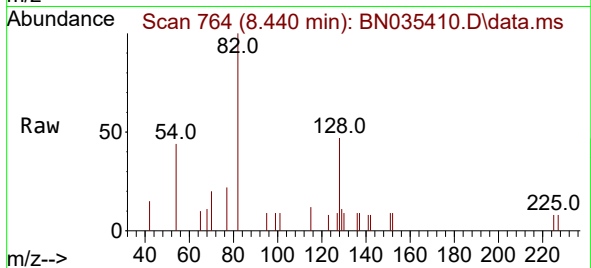




#8
Nitrobenzene-d5
Concen: 0.392 ng
RT: 8.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

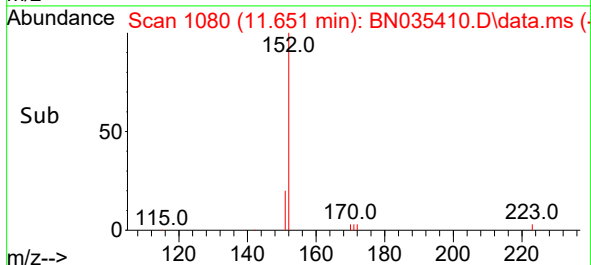
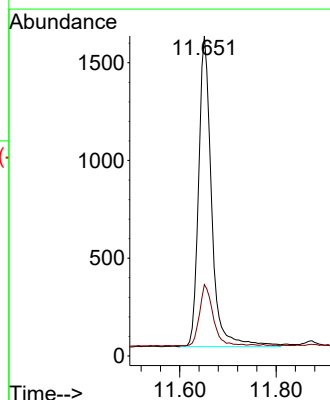
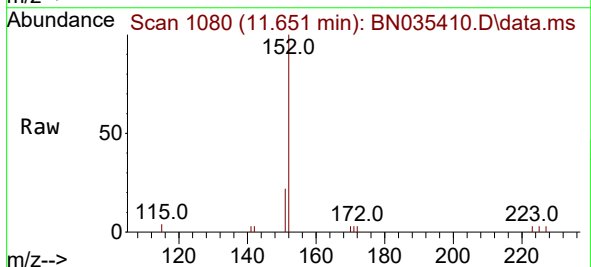
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

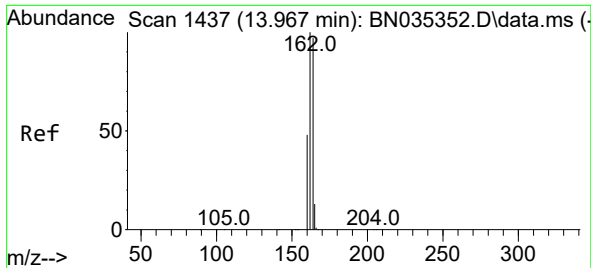
Tgt Ion: 82 Resp: 1256
Ion Ratio Lower Upper
82 100
128 47.0 33.4 50.0
54 43.6 36.7 55.1



#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion: 152 Resp: 2970
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

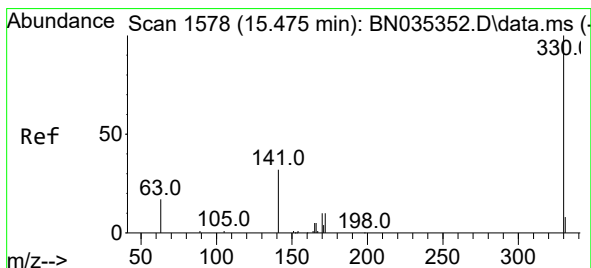
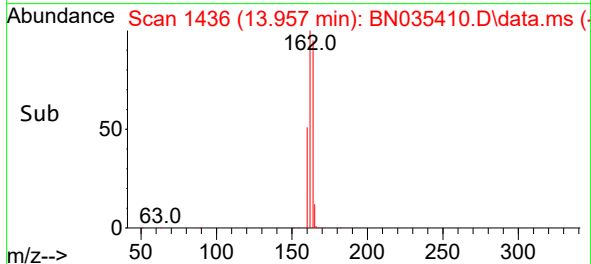
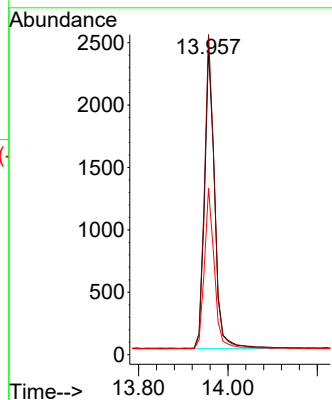
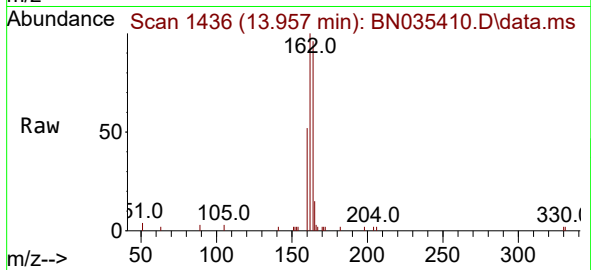




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

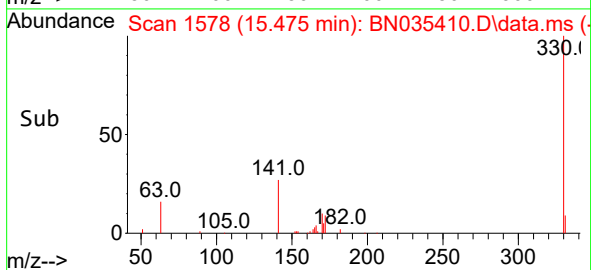
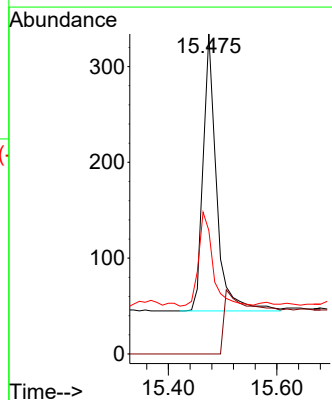
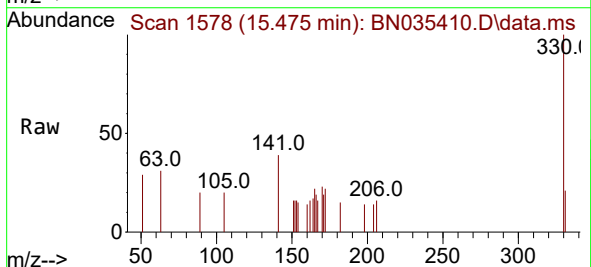
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

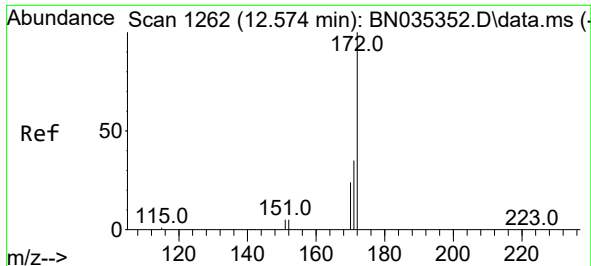
Tgt Ion:164 Resp: 3772
Ion Ratio Lower Upper
164 100
162 104.5 82.2 123.2
160 54.4 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:330 Resp: 530
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.3 26.6 40.0

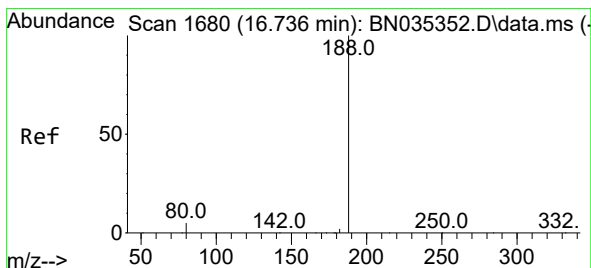
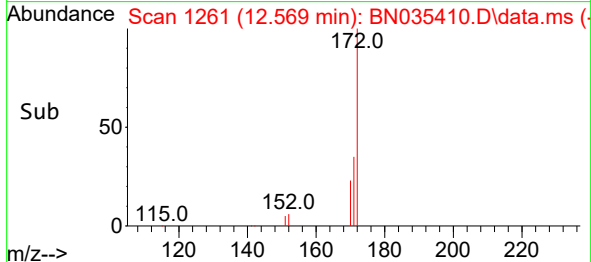
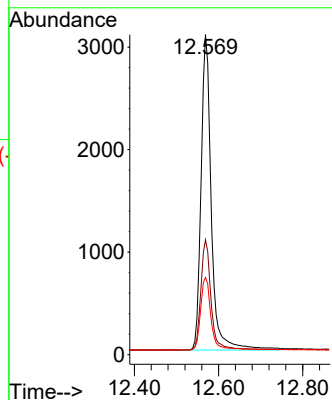
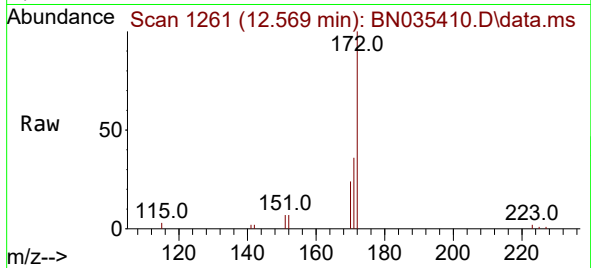




#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.569 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

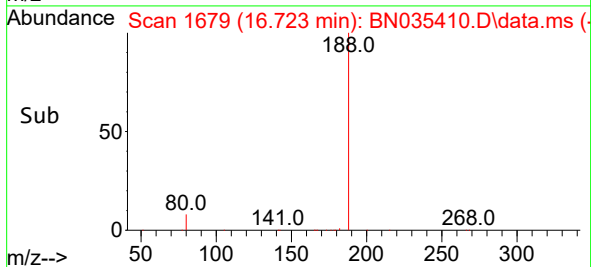
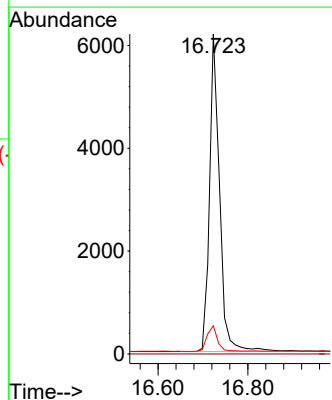
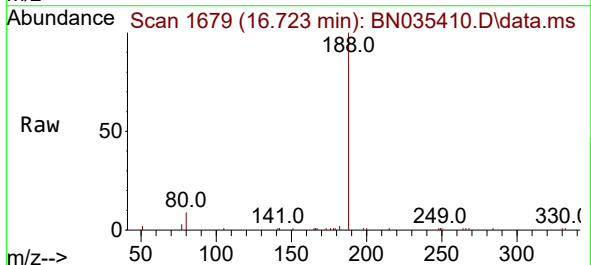
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

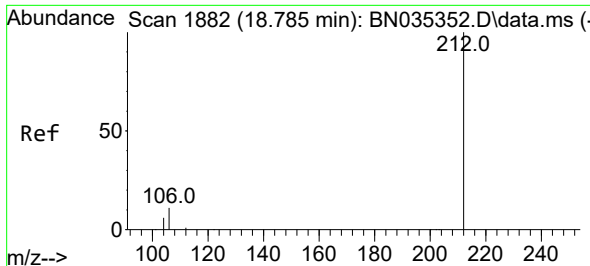
Tgt Ion:	172	Resp:	5211
Ion Ratio	Lower	Upper	
172	100		
171	35.9	29.0	43.4
170	24.1	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:	188	Resp:	9570
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.8	4.6	6.8#

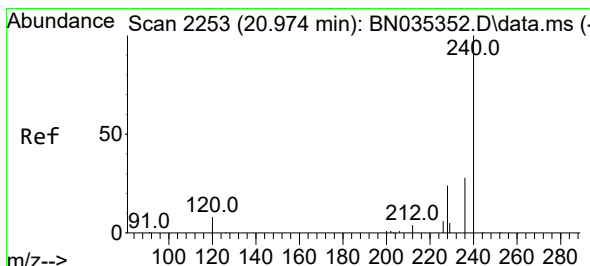
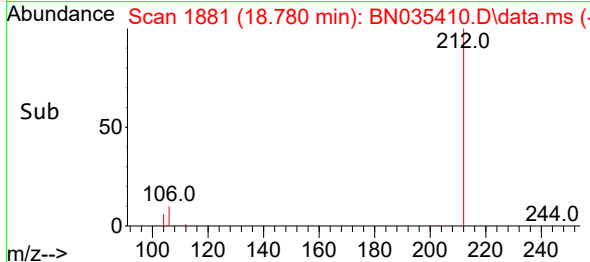
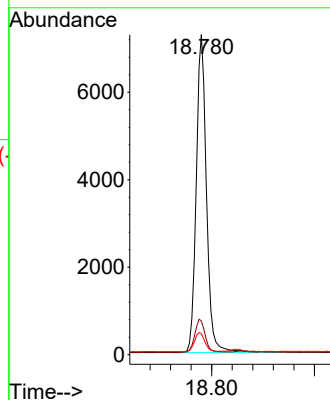
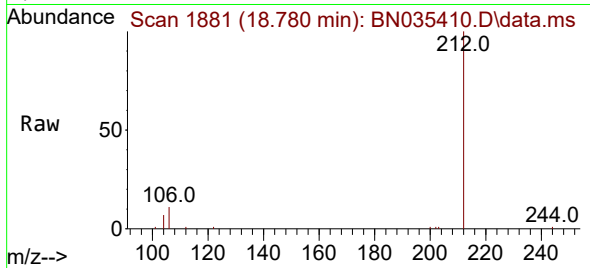




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 18.780 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

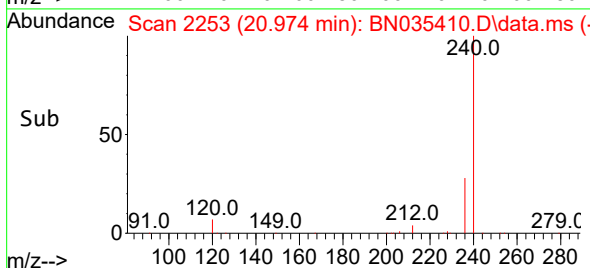
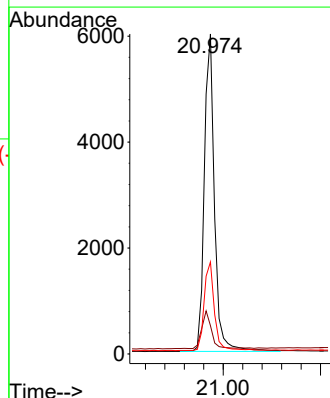
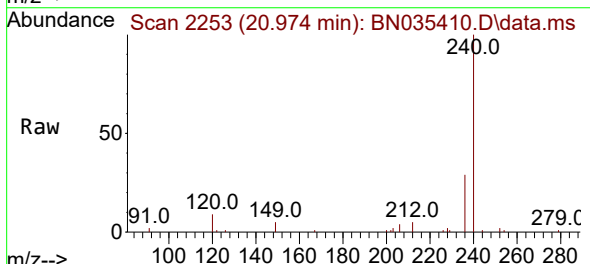
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

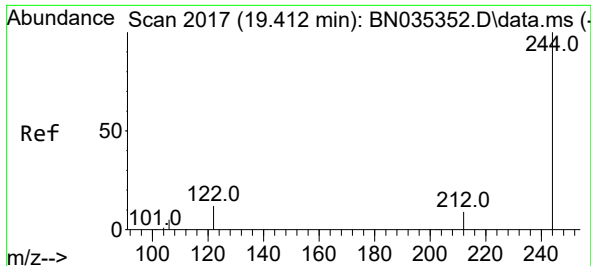
Tgt Ion:212 Resp: 10124
Ion Ratio Lower Upper
212 100
106 10.5 9.2 13.8
104 6.0 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:240 Resp: 8675
Ion Ratio Lower Upper
240 100
120 8.8 7.9 11.9
236 28.8 22.9 34.3

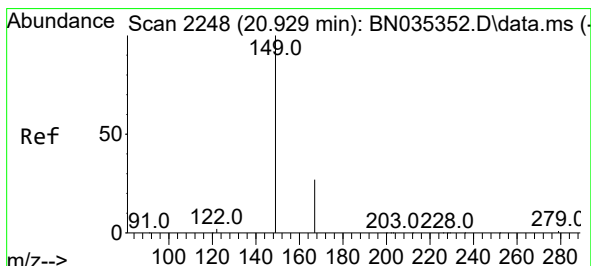
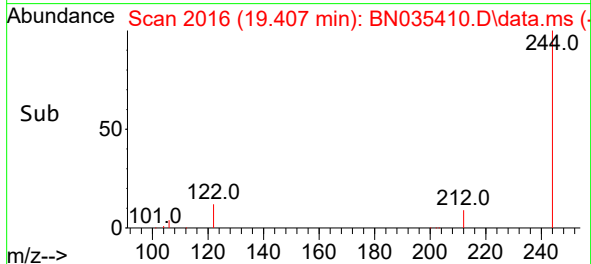
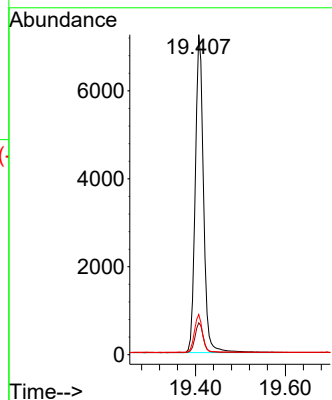
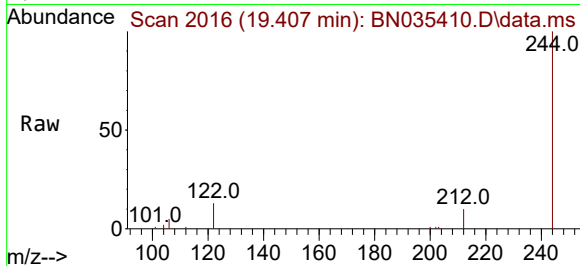




#31
Terphenyl-d14
Concen: 0.540 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

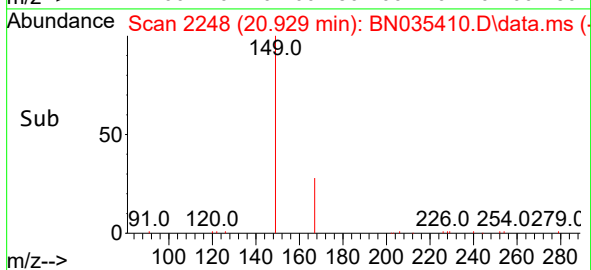
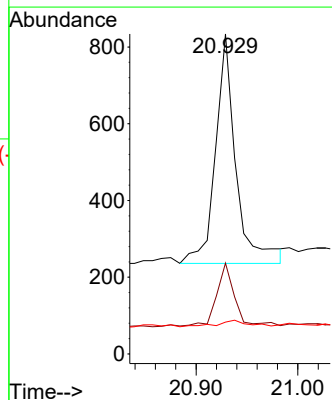
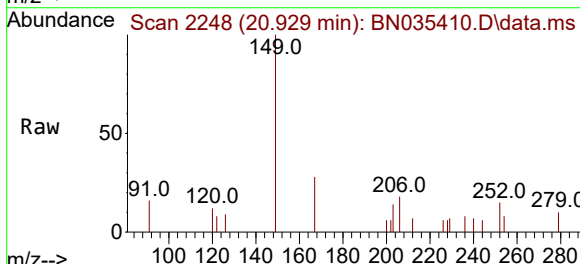
Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

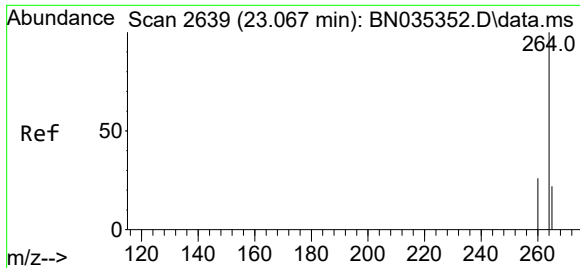
Tgt Ion:244 Resp: 9247
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 12.6 10.3 15.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.069 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

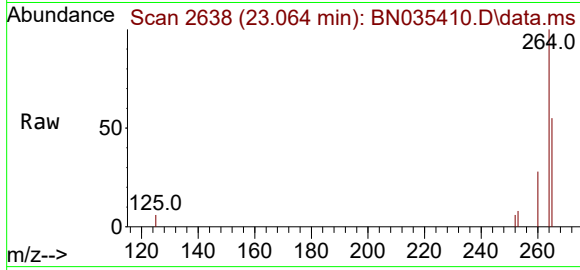
Tgt Ion:149 Resp: 831
Ion Ratio Lower Upper
149 100
167 23.7 22.2 33.4
279 4.2 2.7 4.1#



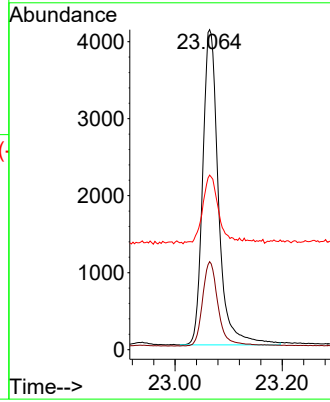
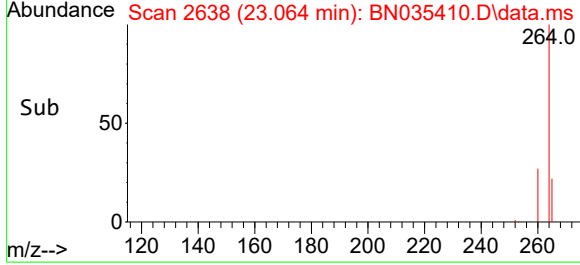


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.064 min Scan# 20
Delta R.T. -0.003 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202



Tgt Ion:	264	Resp:	8373
Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	54.6	40.2	60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035411.D
Acq On : 03 Dec 2024 20:00
Operator : RC/JU
Sample : P5065-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

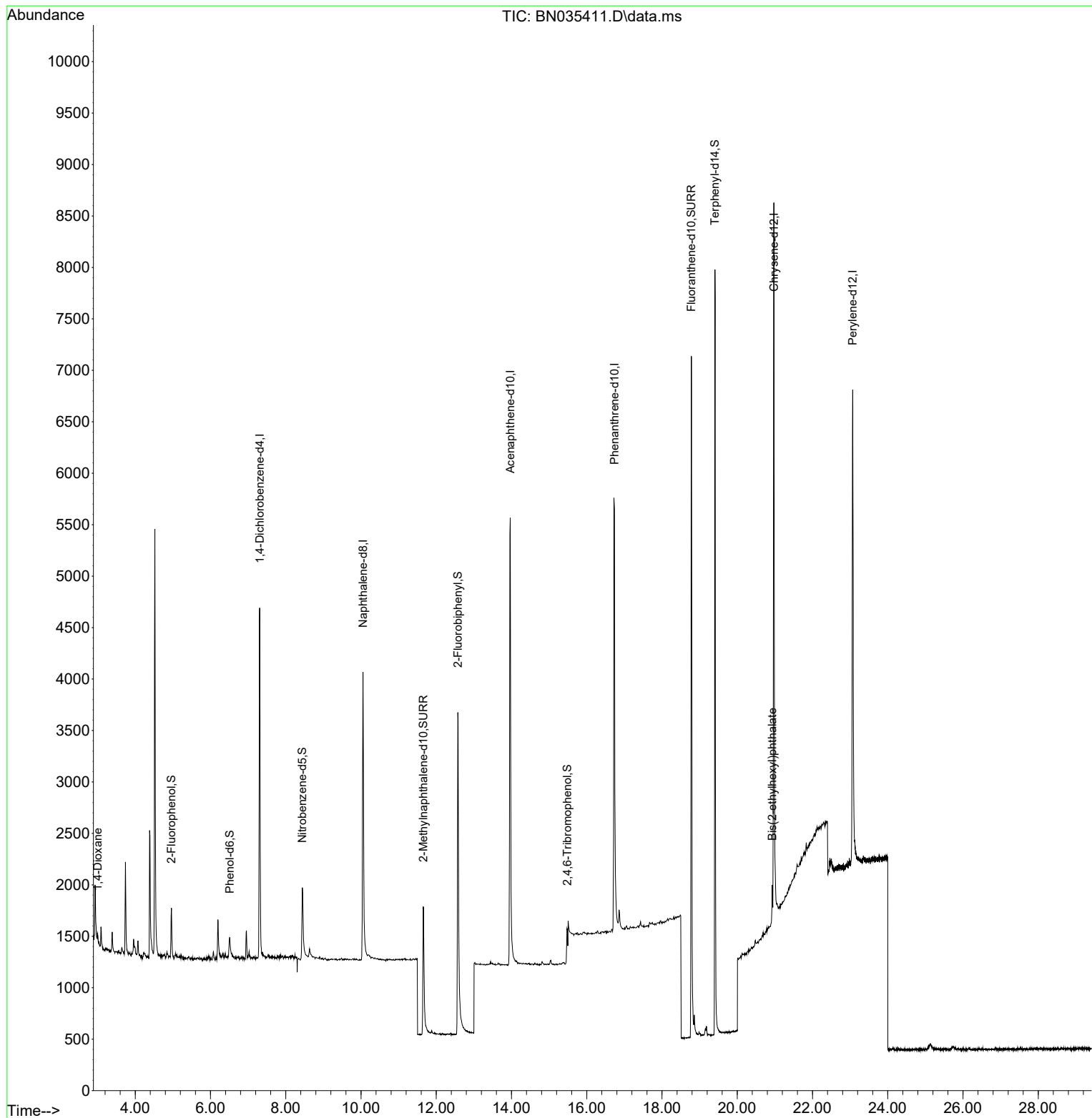
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1851	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4555	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3248	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	8127	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6931	0.400	ng	0.00
35) Perylene-d12	23.067	264	6312	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	428	0.092	ng	0.00
5) Phenol-d6	6.513	99	268	0.048	ng	0.00
8) Nitrobenzene-d5	8.440	82	1114	0.400	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2531	0.355	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	441	0.191	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	4425	0.360	ng	0.00
27) Fluoranthene-d10	18.780	212	8690	0.377	ng	0.00
31) Terphenyl-d14	19.407	244	7900	0.578	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.003	88	109	0.062	ng	# 68
34) Bis(2-ethylhexyl)phtha...	20.929	149	402	0.042	ng	93

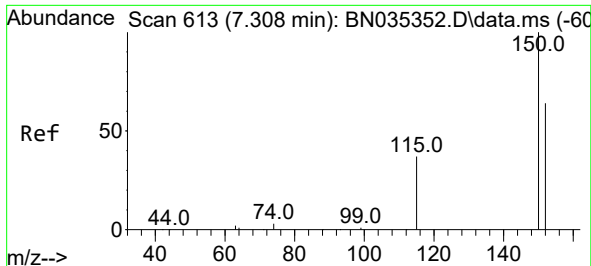
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035411.D
Acq On : 03 Dec 2024 20:00
Operator : RC/JU
Sample : P5065-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

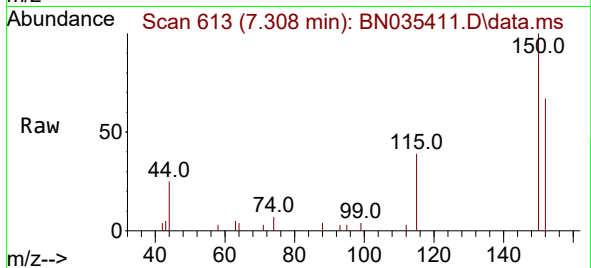
Quant Time: Dec 03 22:06:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



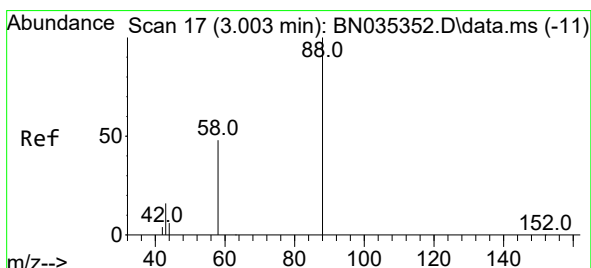
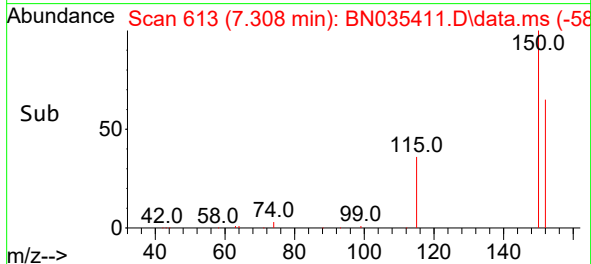
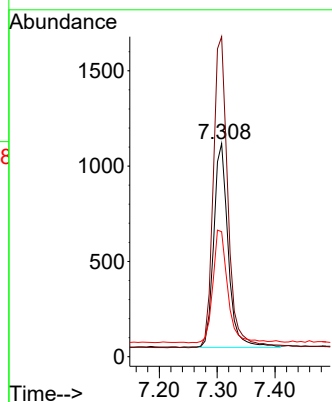


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 613
 Delta R.T. -0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP201-20241202

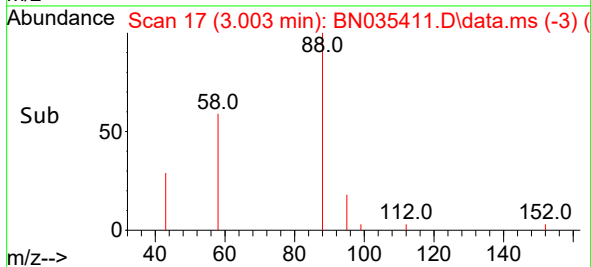
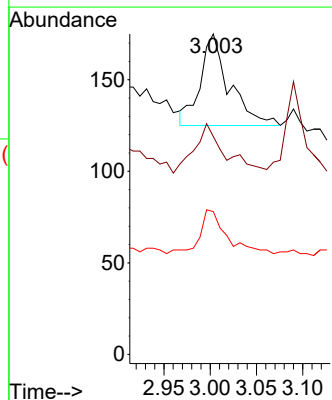
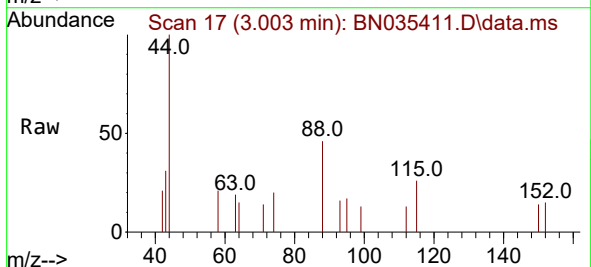


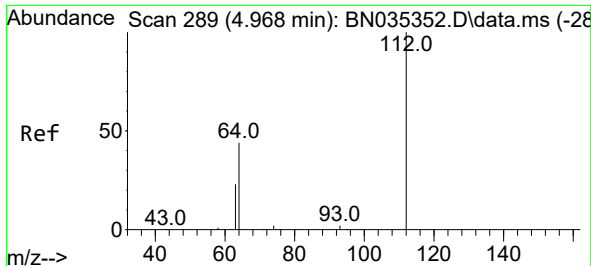
Tgt Ion:152 Resp: 1851
 Ion Ratio Lower Upper
 152 100
 150 150.2 124.0 186.0
 115 58.7 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.062 ng
 RT: 3.003 min Scan# 17
 Delta R.T. 0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

Tgt Ion: 88 Resp: 109
 Ion Ratio Lower Upper
 88 100
 43 56.9 17.2 25.8#
 58 44.0 44.5 66.7#

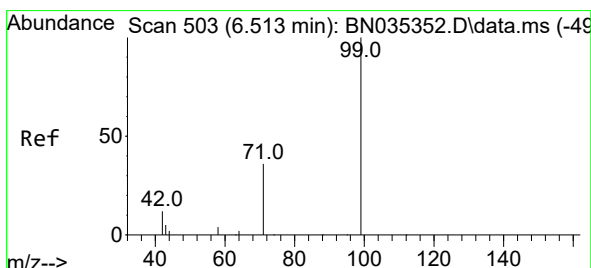
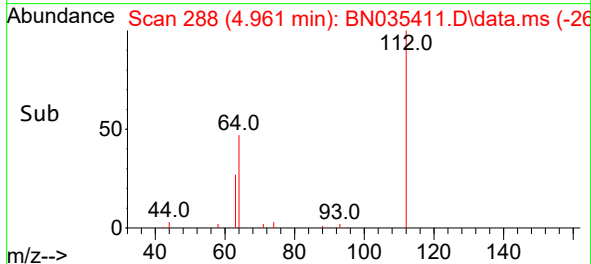
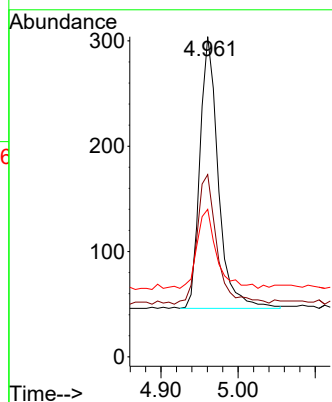
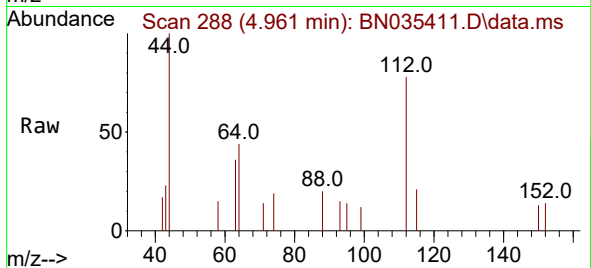




#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.961 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

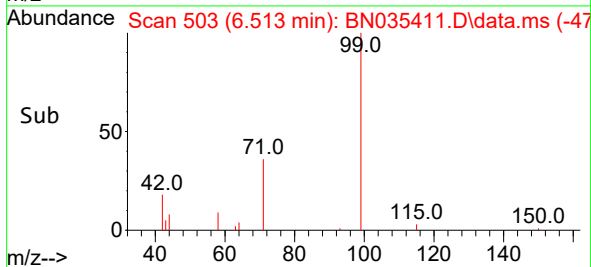
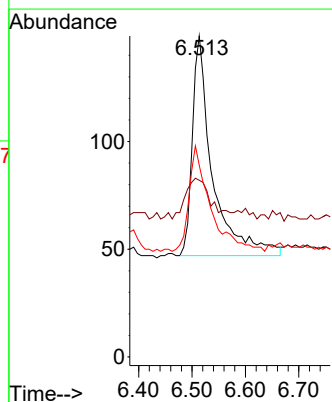
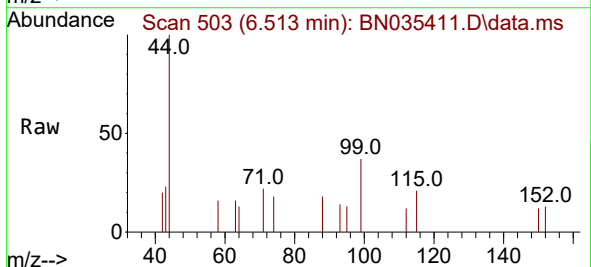
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

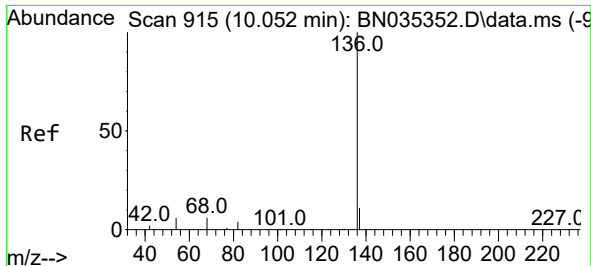
Tgt Ion:112 Resp: 428
Ion Ratio Lower Upper
112 100
64 51.6 39.8 59.8
63 30.6 21.0 31.6



#5
Phenol-d6
Concen: 0.048 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion: 99 Resp: 268
Ion Ratio Lower Upper
99 100
42 23.1 11.4 17.2#
71 50.7 29.3 43.9#

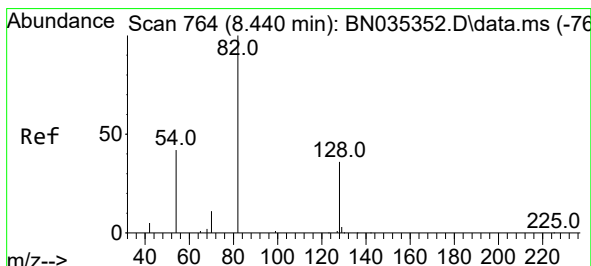
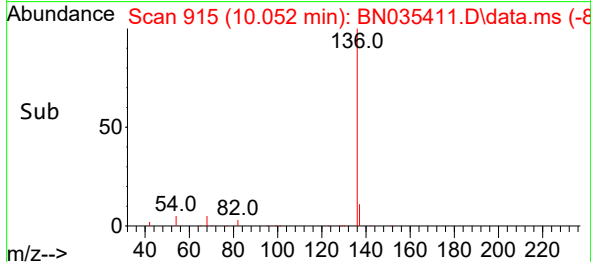
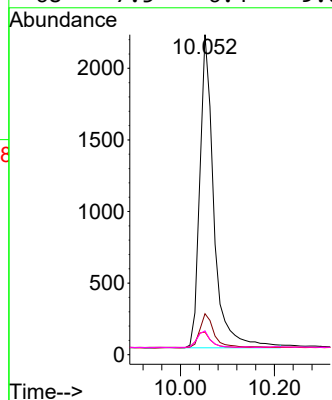
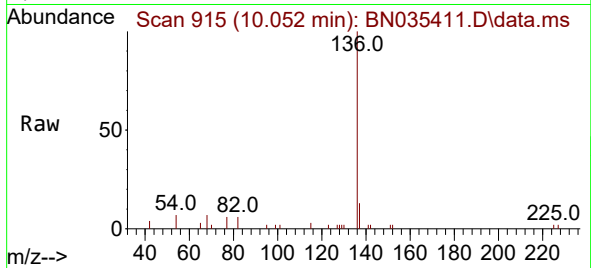




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

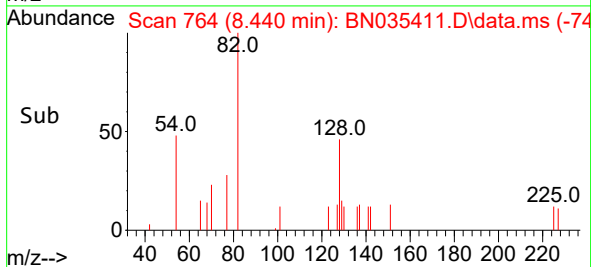
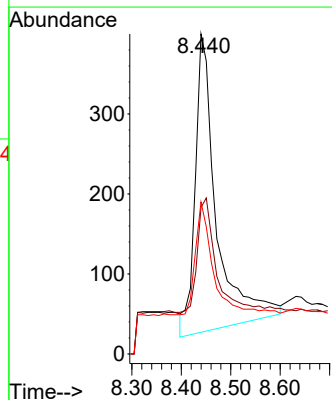
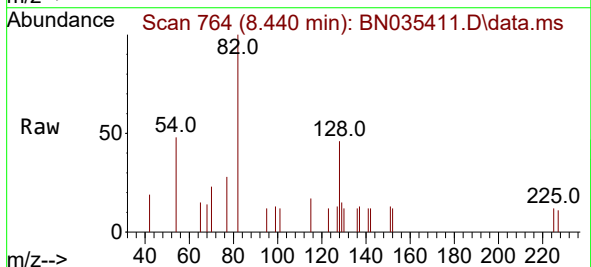
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

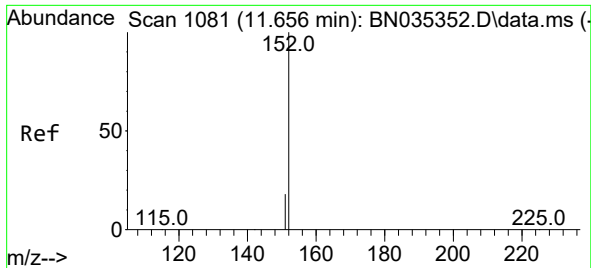
Tgt Ion:	136	Resp:	4555
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	7.1	6.1	9.1
68	7.5	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.400 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:	82	Resp:	1114
Ion	Ratio	Lower	Upper
82	100		
128	45.8	33.4	50.0
54	47.5	36.7	55.1

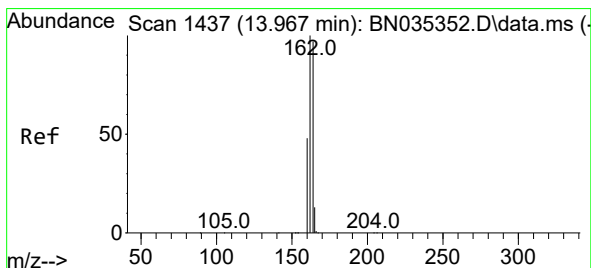
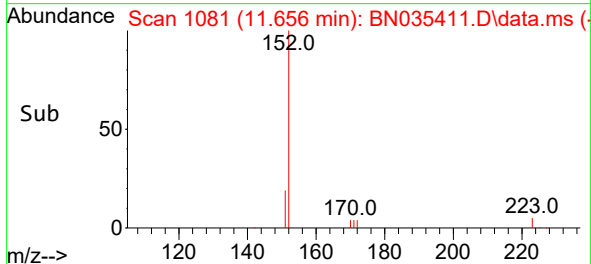
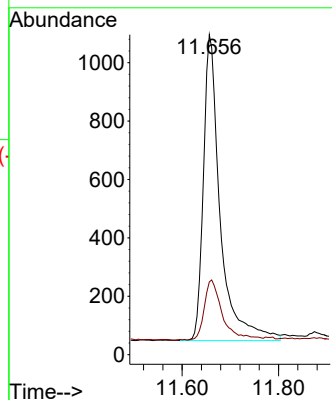
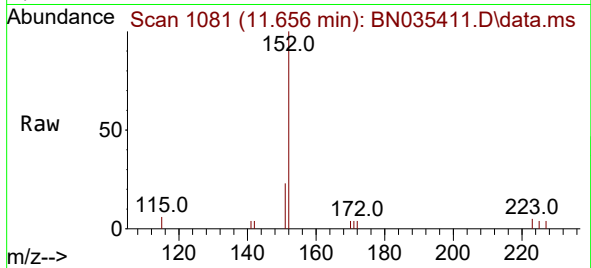




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 11.656 min Scan# 1081
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

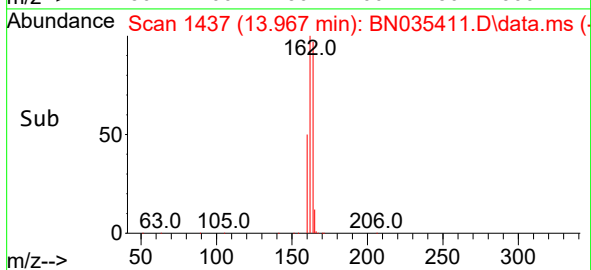
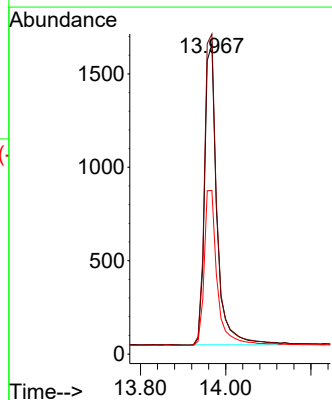
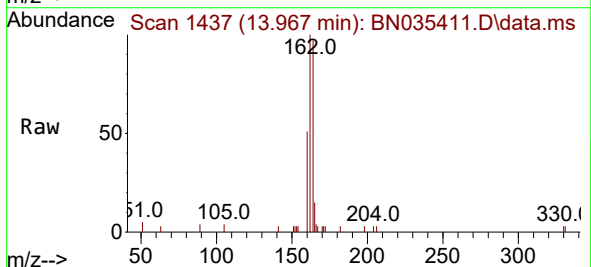
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

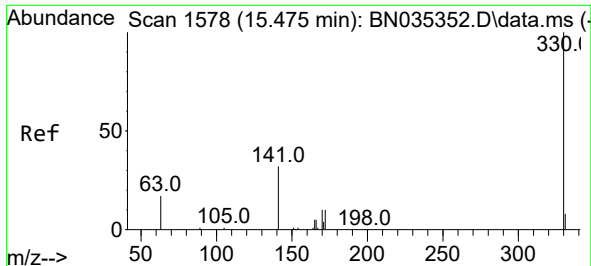
Tgt Ion:152 Resp: 2531
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:164 Resp: 3248
Ion Ratio Lower Upper
164 100
162 103.3 82.2 123.2
160 52.8 40.1 60.1

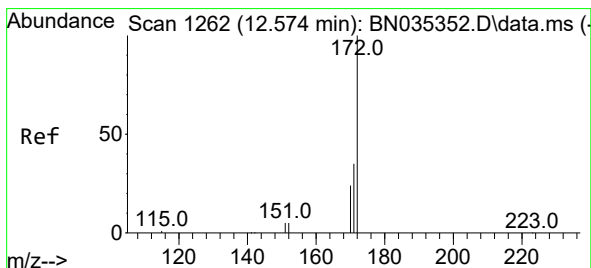
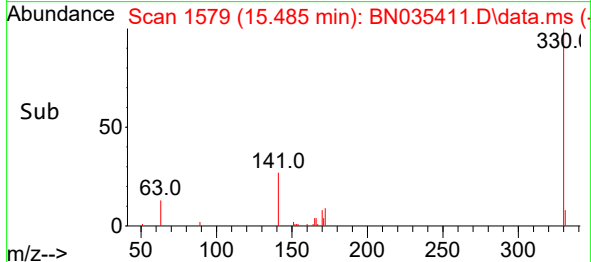
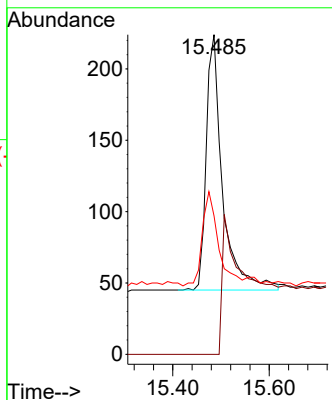
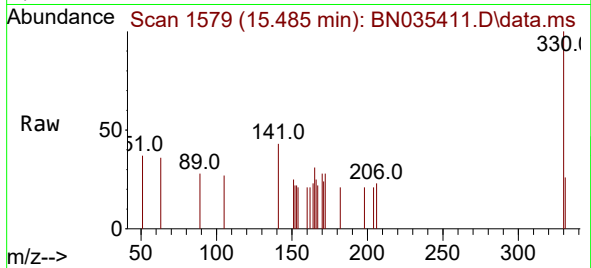




#14
2,4,6-Tribromophenol
Concen: 0.191 ng
RT: 15.485 min Scan# 11
Delta R.T. 0.011 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

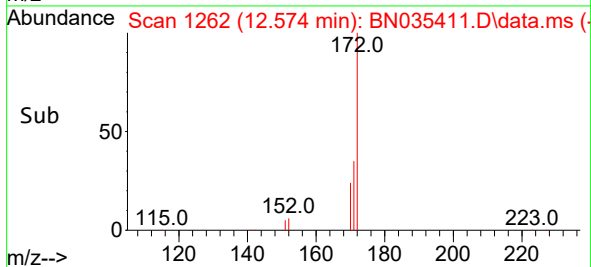
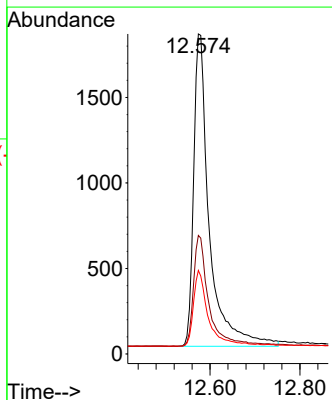
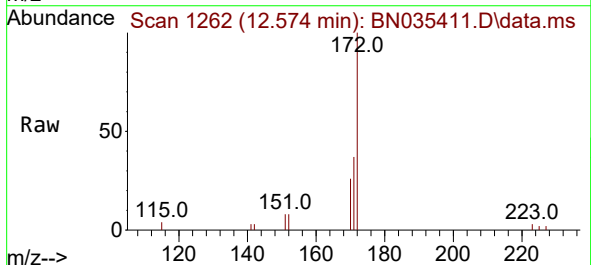
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

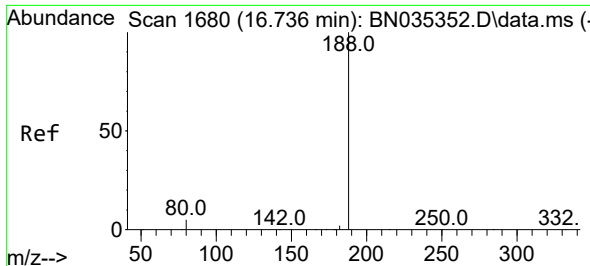
Tgt Ion:330 Resp: 441
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 40.8 26.6 40.0#



#15
2-Fluorobiphenyl
Concen: 0.360 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:172 Resp: 4425
Ion Ratio Lower Upper
172 100
171 37.0 29.0 43.4
170 26.1 19.8 29.8

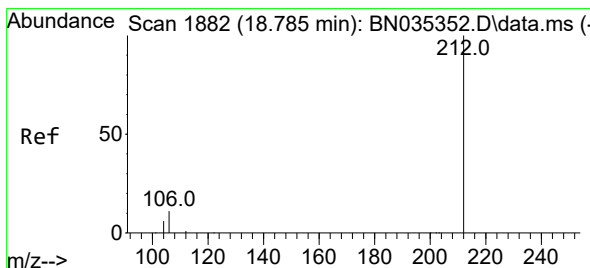
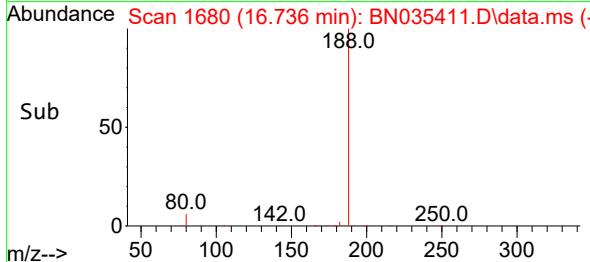
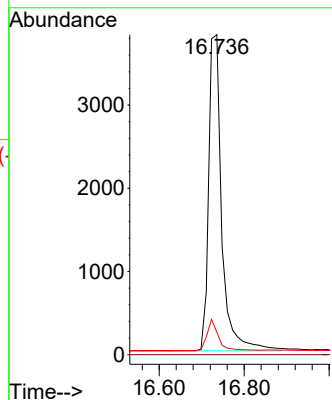
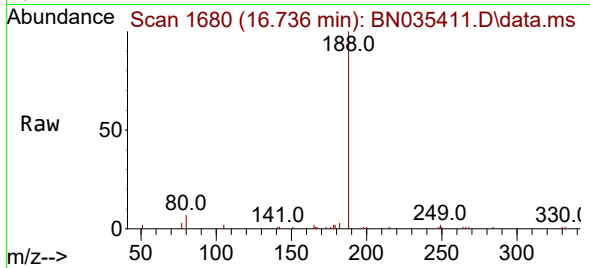




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

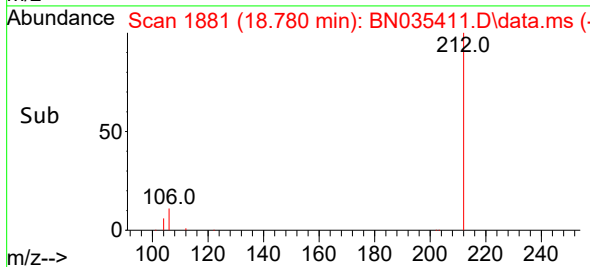
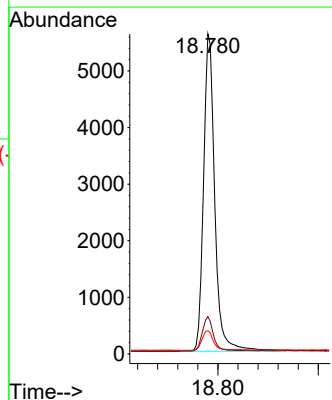
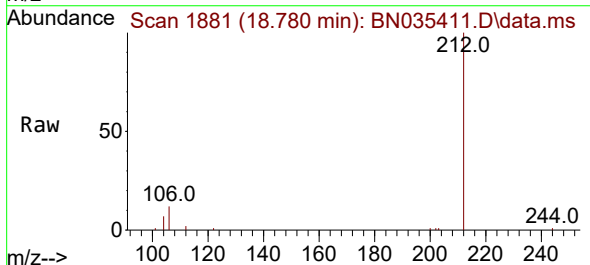
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

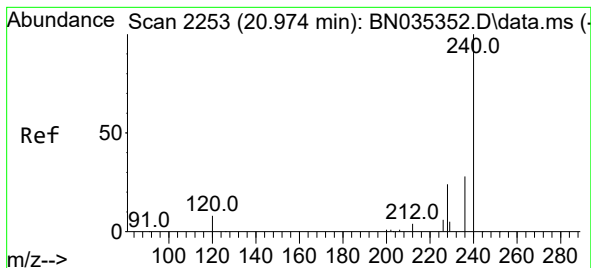
Tgt Ion:188 Resp: 8127
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.0 4.6 6.8#



#27
Fluoranthene-d10
Concen: 0.377 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.005 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:212 Resp: 8690
Ion Ratio Lower Upper
212 100
106 10.5 9.2 13.8
104 6.5 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241202

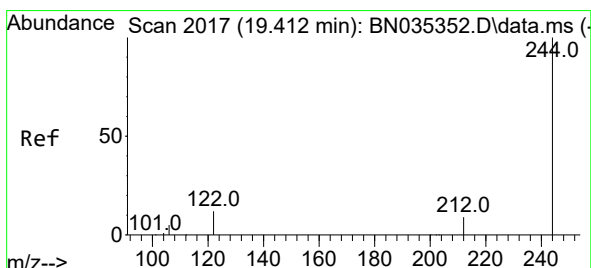
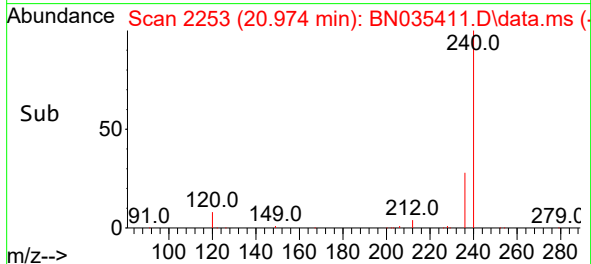
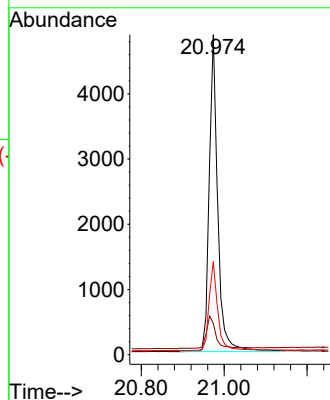
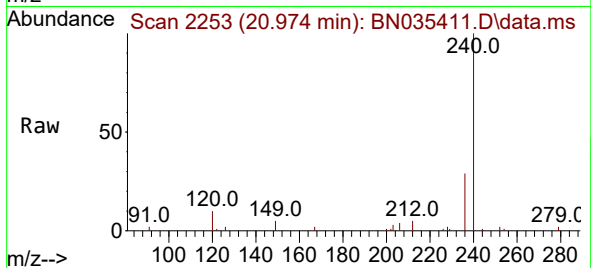
Tgt Ion:240 Resp: 6931

Ion Ratio Lower Upper

240 100

120 9.7 7.9 11.9

236 29.1 22.9 34.3



#31

Terphenyl-d14

Concen: 0.578 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

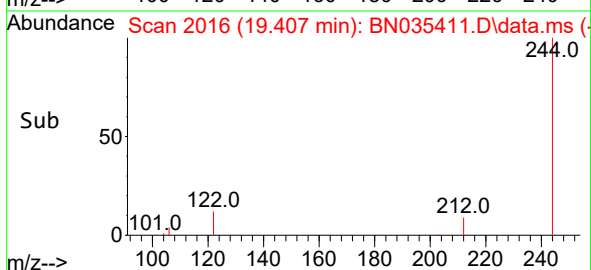
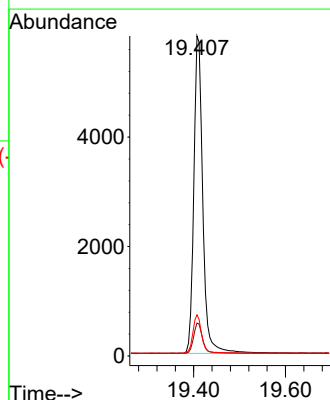
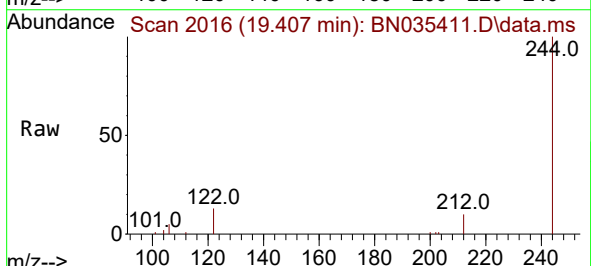
Tgt Ion:244 Resp: 7900

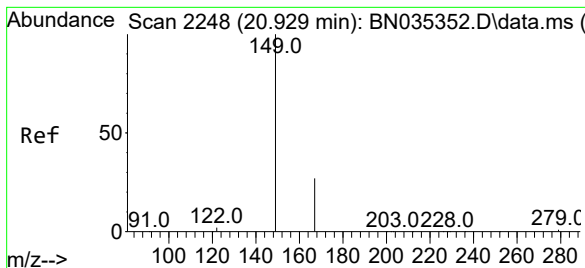
Ion Ratio Lower Upper

244 100

212 10.3 8.1 12.1

122 12.9 10.3 15.5

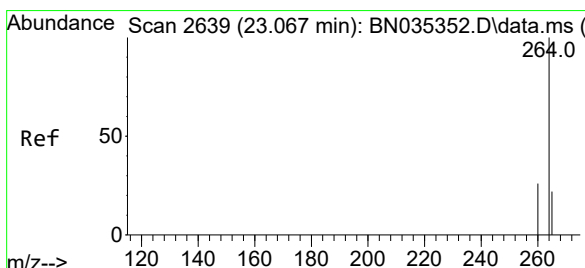
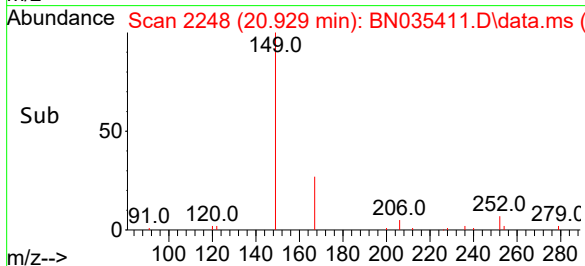
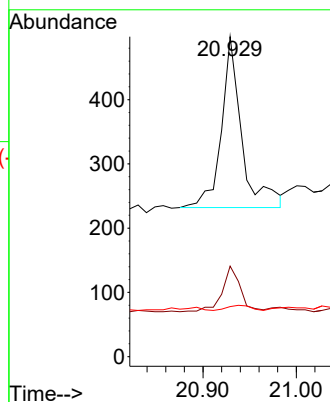
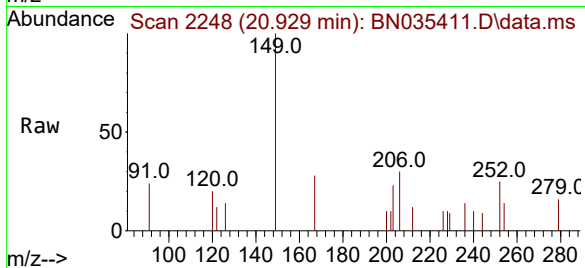




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.042 ng
 RT: 20.929 min Scan# 211
 Delta R.T. 0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

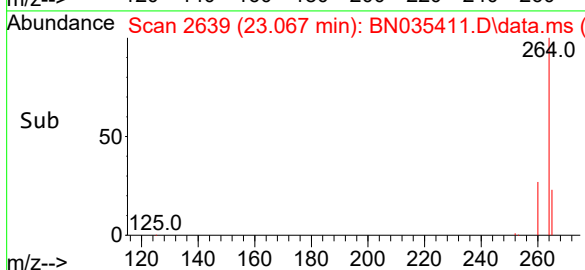
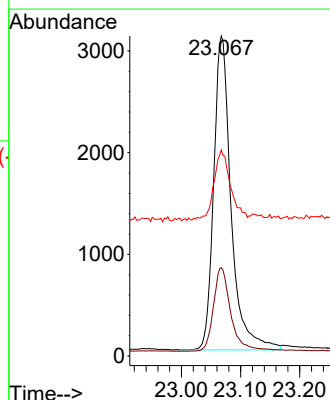
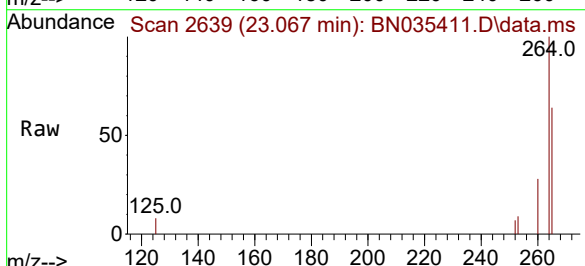
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP201-20241202

Tgt Ion:	149	Resp:	402
Ion	Ratio	Lower	Upper
149	100		
167	23.9	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: BN035411.D
 Acq: 03 Dec 2024 20:00

Tgt Ion:	264	Resp:	6312
Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.4	32.2
265	64.4	40.2	60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035413.D
 Acq On : 03 Dec 2024 21:11
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 03 22:06:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

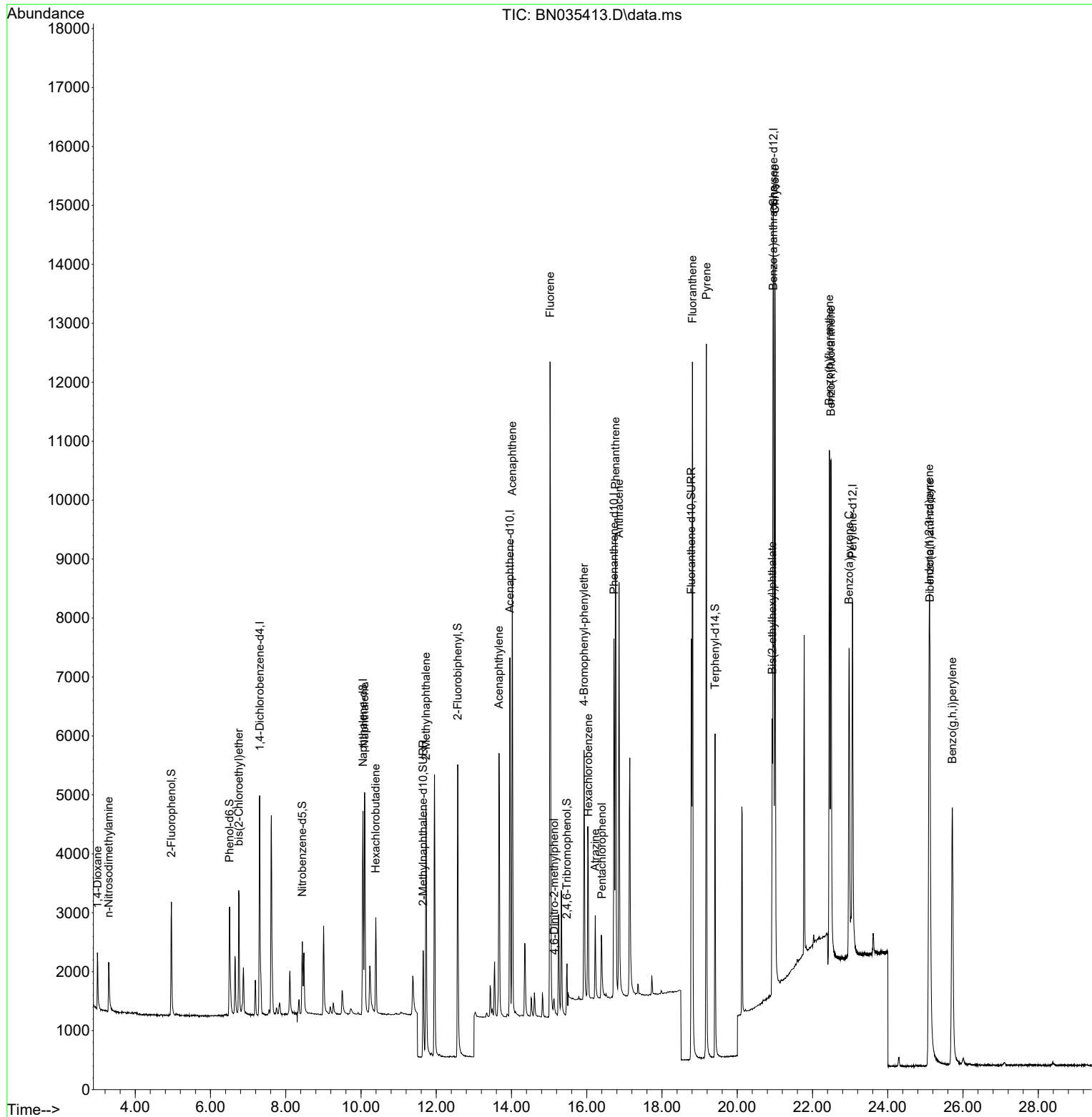
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1905	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4842	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3417	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8599	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7834	0.400	ng	# 0.00
35) Perylene-d12	23.064	264	7769	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1727	0.362	ng	0.00
5) Phenol-d6	6.506	99	2086	0.364	ng	0.00
8) Nitrobenzene-d5	8.440	82	1366	0.462	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2948	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	874	0.360	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5285	0.409	ng	0.00
27) Fluoranthene-d10	18.780	212	8797	0.361	ng	0.00
31) Terphenyl-d14	19.412	244	6230	0.403	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.996	88	731	0.401	ng	98
3) n-Nitrosodimethylamine	3.292	42	561	0.370	ng	# 91
6) bis(2-Chloroethyl)ether	6.752	93	1811	0.376	ng	98
9) Naphthalene	10.095	128	5107	0.400	ng	99
10) Hexachlorobutadiene	10.394	225	1291	0.438	ng	# 100
12) 2-Methylnaphthalene	11.727	142	3555	0.389	ng	98
16) Acenaphthylene	13.668	152	5470	0.381	ng	99
17) Acenaphthene	14.021	154	3732	0.392	ng	98
18) Fluorene	15.026	166	5390	0.395	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	303	0.358	ng	97
21) 4-Bromophenyl-phenylether	15.929	248	1954	0.388	ng	# 74
22) Hexachlorobenzene	16.040	284	2442	0.413	ng	97
23) Atrazine	16.227	200	1233	0.344	ng	97
24) Pentachlorophenol	16.400	266	742	0.289	ng	87
25) Phenanthrene	16.760	178	9217	0.390	ng	100
26) Anthracene	16.860	178	7974	0.373	ng	100
28) Fluoranthene	18.812	202	11723	0.368	ng	99
30) Pyrene	19.179	202	11845	0.410	ng	100
32) Benzo(a)anthracene	20.956	228	10025	0.366	ng	100
33) Chrysene	21.001	228	11323	0.401	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	3811	0.352	ng	99
36) Indeno(1,2,3-cd)pyrene	25.099	276	11352	0.374	ng	98
37) Benzo(b)fluoranthene	22.448	252	12967	0.456	ng	100
38) Benzo(k)fluoranthene	22.488	252	11373	0.407	ng	99
39) Benzo(a)pyrene	22.974	252	8498	0.363	ng	98
40) Dibenzo(a,h)anthracene	25.120	278	8673	0.362	ng	98
41) Benzo(g,h,i)perylene	25.716	276	9224	0.368	ng	99

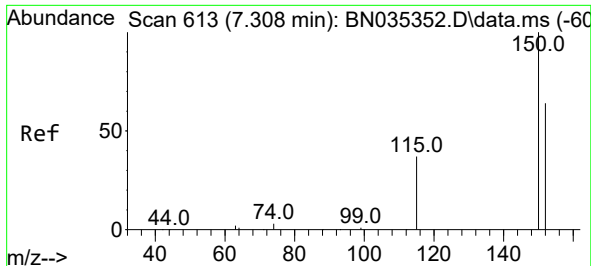
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035413.D
Acq On : 03 Dec 2024 21:11
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

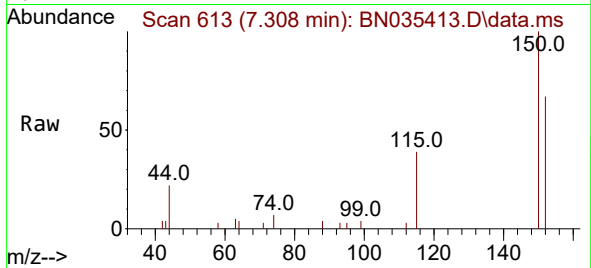
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



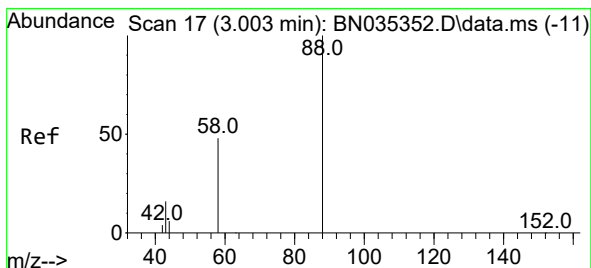
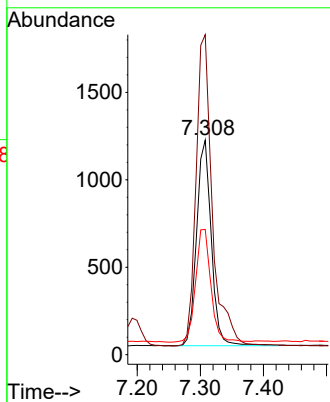
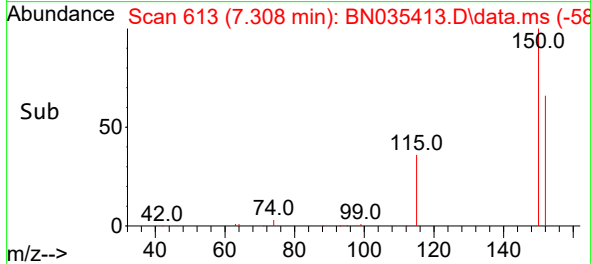


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

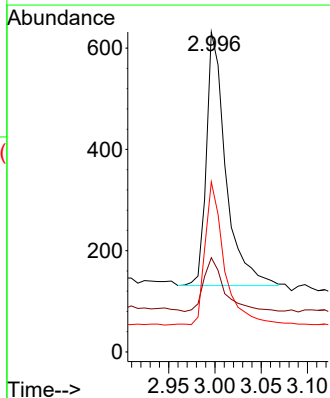
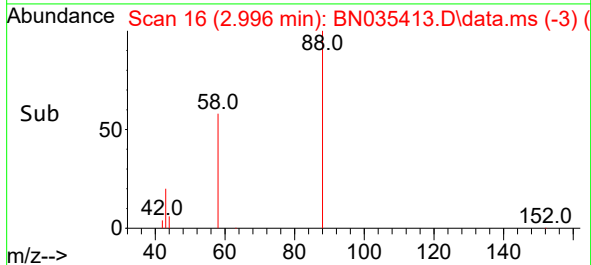
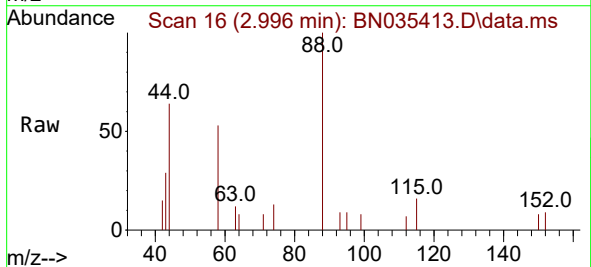


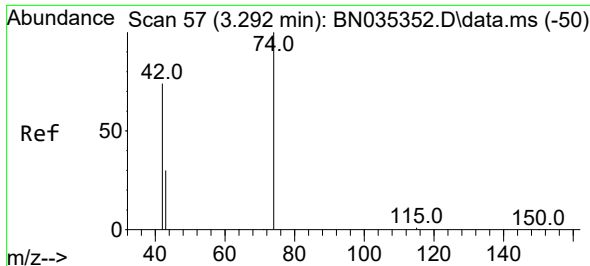
Tgt Ion:152 Resp: 1905
Ion Ratio Lower Upper
152 100
150 149.1 124.0 186.0
115 58.4 49.6 74.4



#2
1,4-Dioxane
Concen: 0.401 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion: 88 Resp: 731
Ion Ratio Lower Upper
88 100
43 22.7 17.2 25.8
58 56.6 44.5 66.7

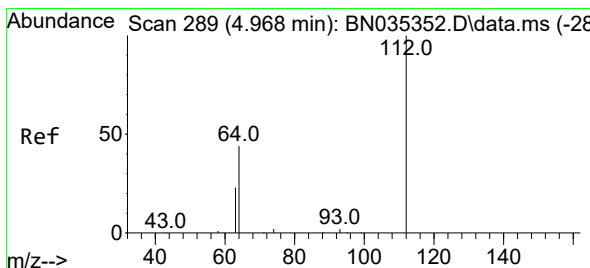
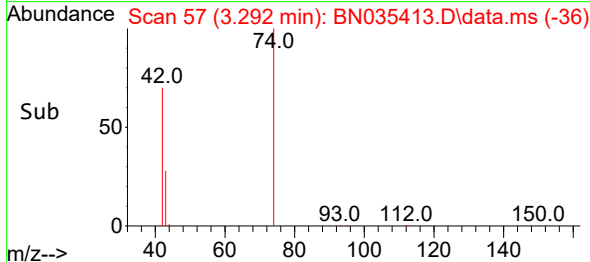
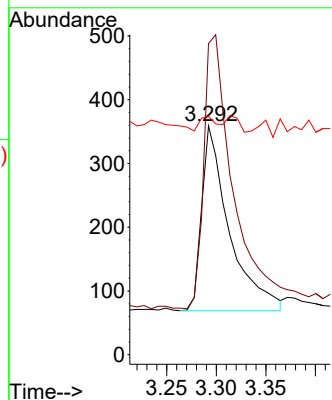
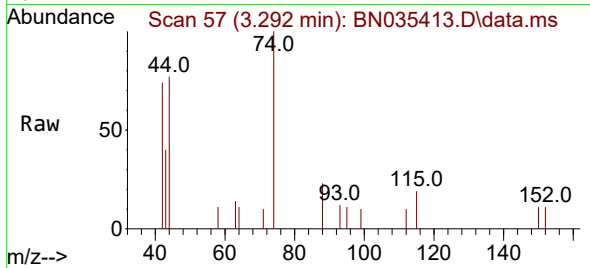




#3
 n-Nitrosodimethylamine
 Concen: 0.370 ng
 RT: 3.292 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

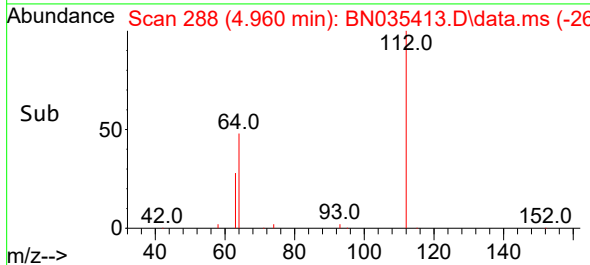
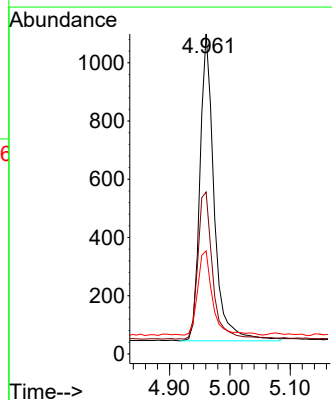
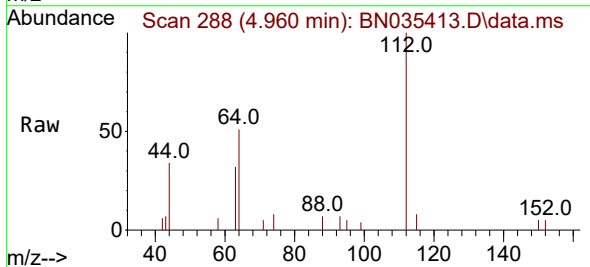
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

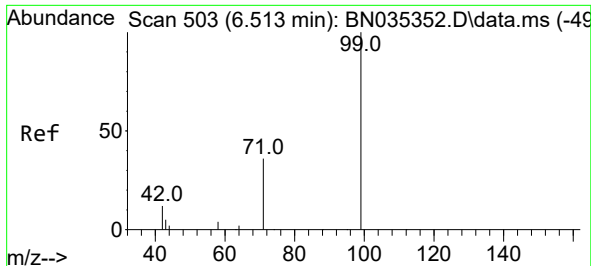
Tgt Ion: 42 Resp: 561
 Ion Ratio Lower Upper
 42 100
 74 167.4 124.9 187.3
 44 5.0 2.2 3.4#



#4
 2-Fluorophenol
 Concen: 0.362 ng
 RT: 4.960 min Scan# 288
 Delta R.T. -0.007 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion: 112 Resp: 1727
 Ion Ratio Lower Upper
 112 100
 64 50.1 39.8 59.8
 63 28.4 21.0 31.6

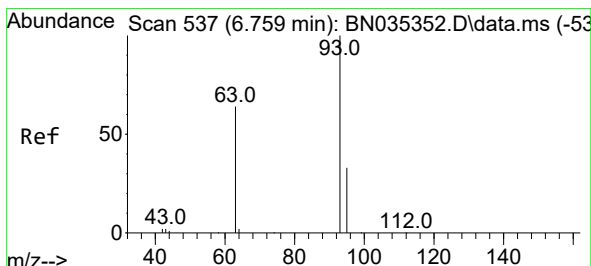
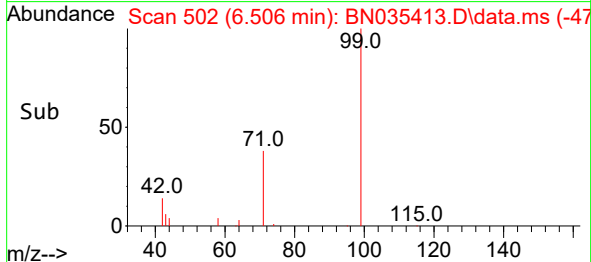
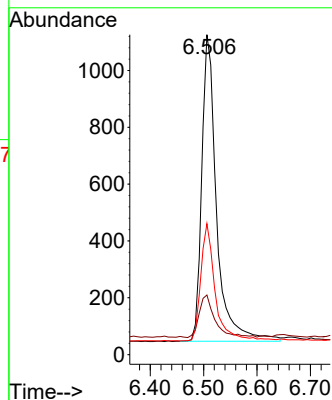
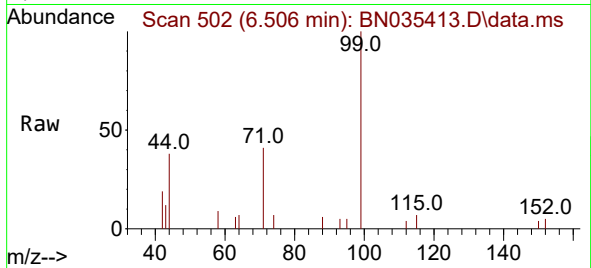




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.506 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

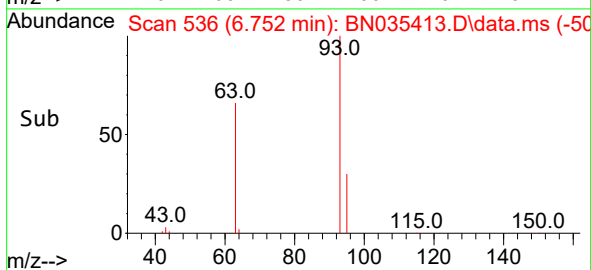
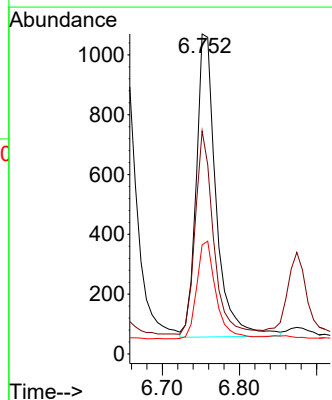
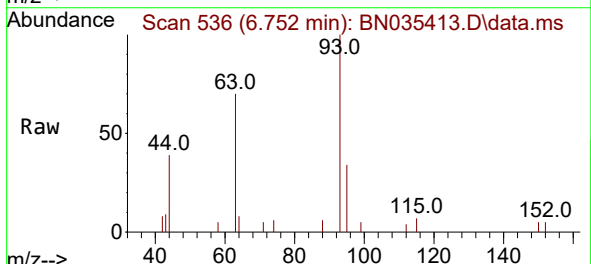
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

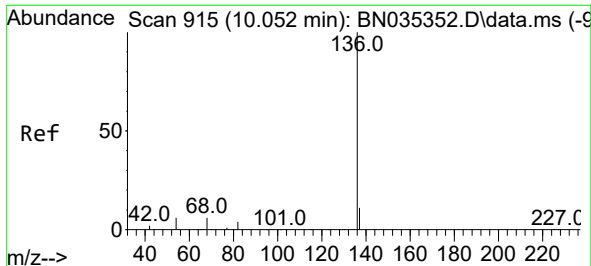
Tgt Ion:	99	Resp:	2086
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	37.5	29.3	43.9



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:	93	Resp:	1811
Ion	Ratio	Lower	Upper
93	100		
63	61.8	50.4	75.6
95	31.1	25.7	38.5

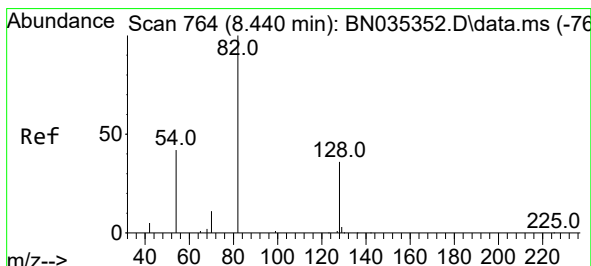
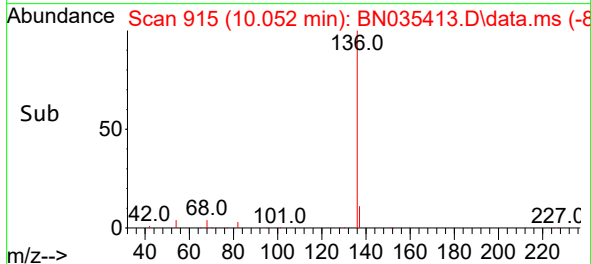
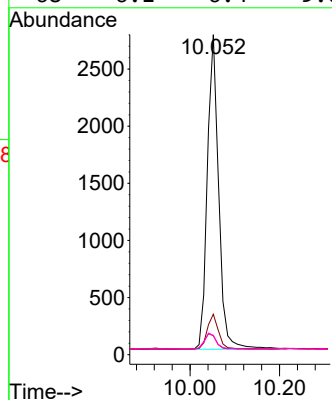
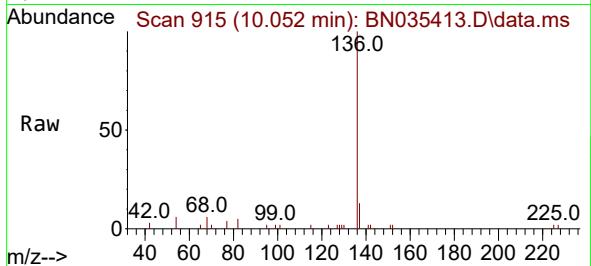




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

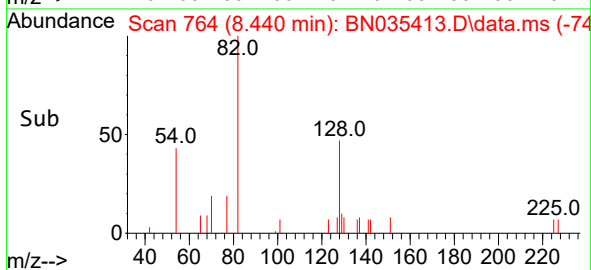
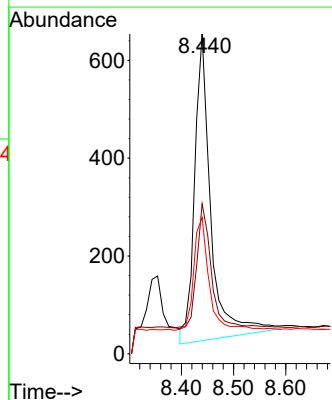
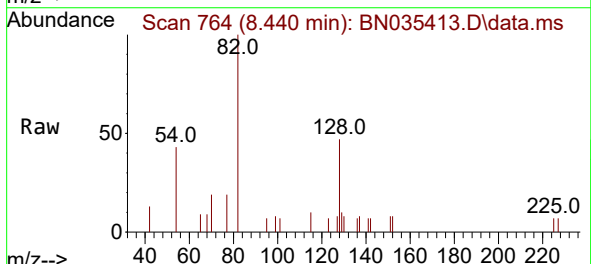
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

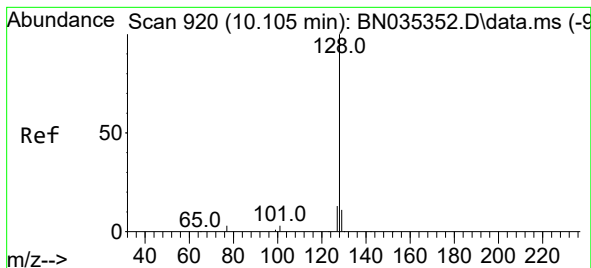
Tgt Ion:	136	Resp:	4842
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	5.9	6.1	9.1#
68	6.1	6.4	9.6#



#8
Nitrobenzene-d5
Concen: 0.462 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:	82	Resp:	1366
Ion	Ratio	Lower	Upper
82	100		
128	46.9	33.4	50.0
54	42.7	36.7	55.1





#9

Naphthalene

Concen: 0.400 ng

RT: 10.095 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

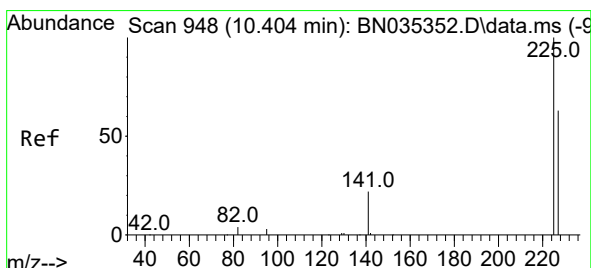
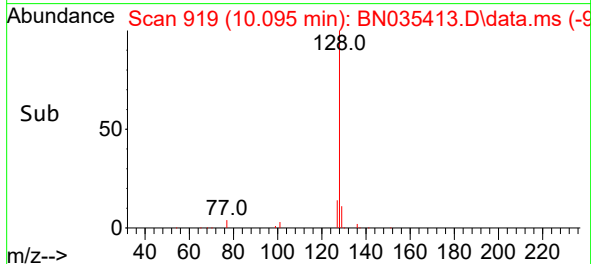
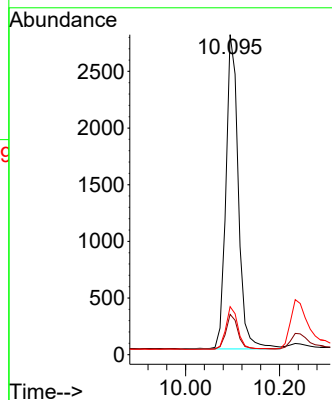
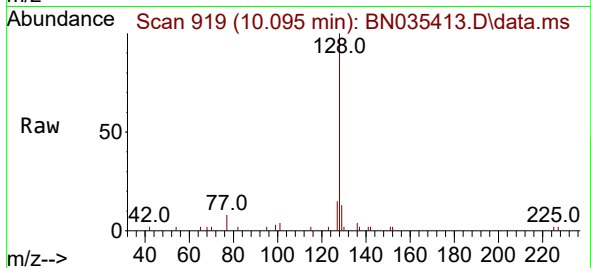
Tgt Ion:128 Resp: 5107

Ion Ratio Lower Upper

128 100

129 12.6 9.8 14.6

127 15.0 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.438 ng

RT: 10.394 min Scan# 947

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

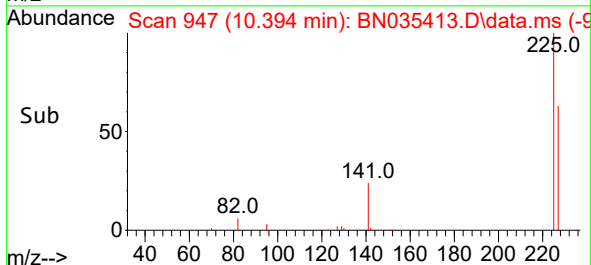
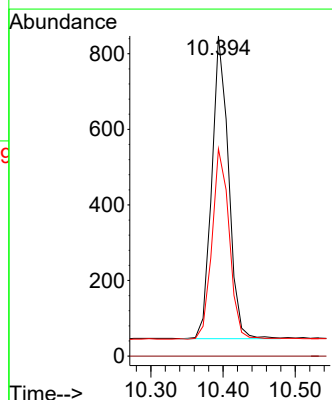
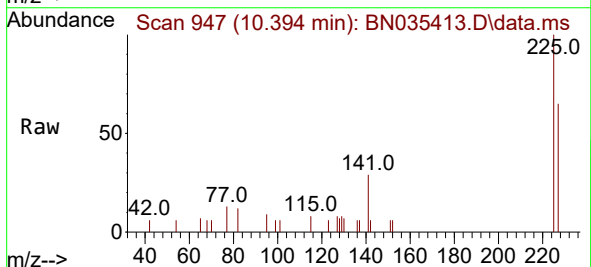
Tgt Ion:225 Resp: 1291

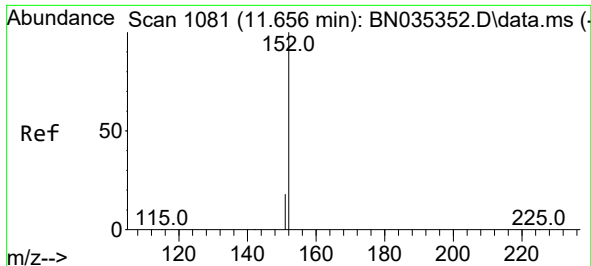
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.3 76.9

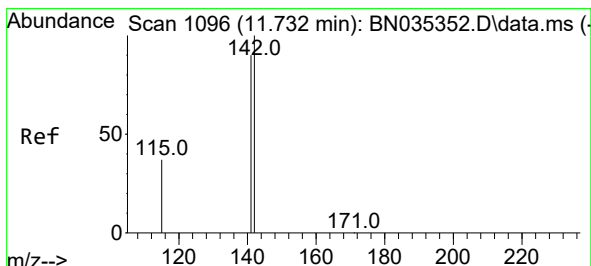
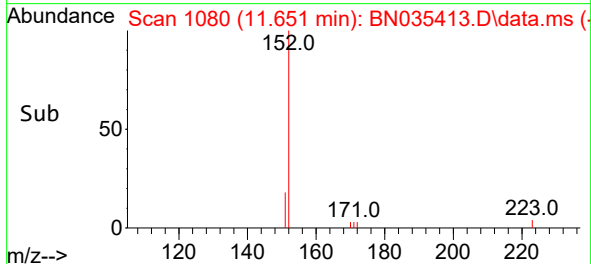
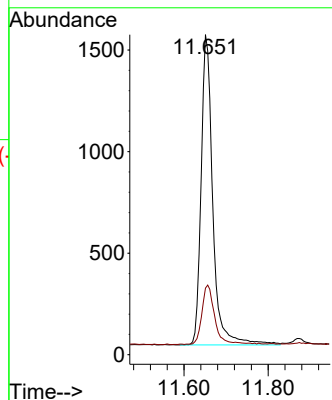
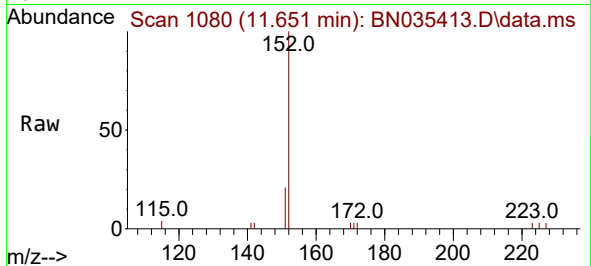




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

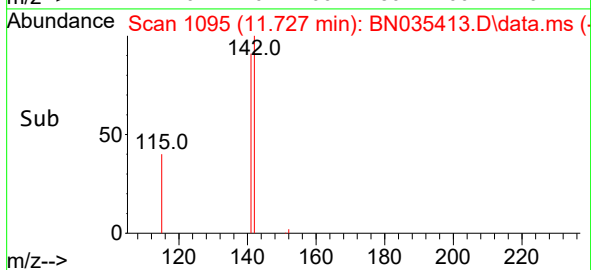
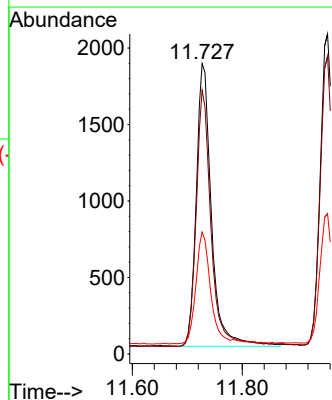
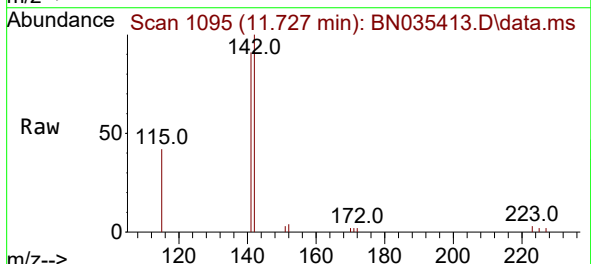
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

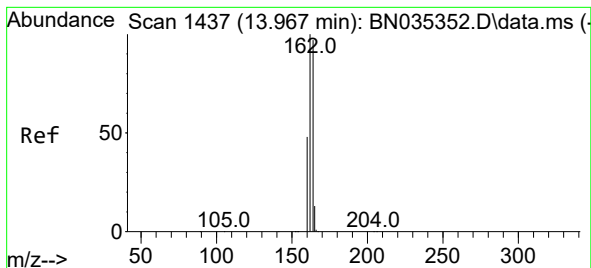
Tgt Ion:152 Resp: 2948
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 11.727 min Scan# 1095
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:142 Resp: 3555
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: 13.957 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

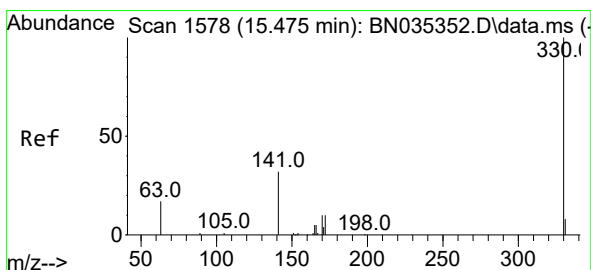
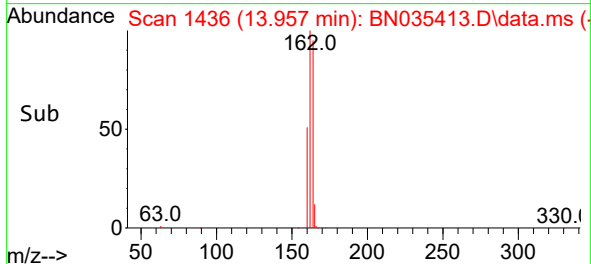
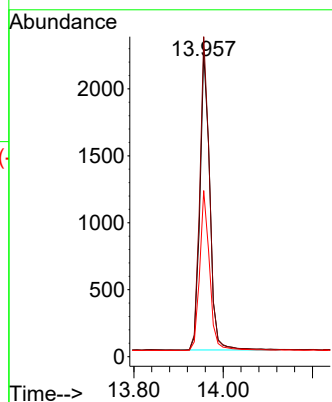
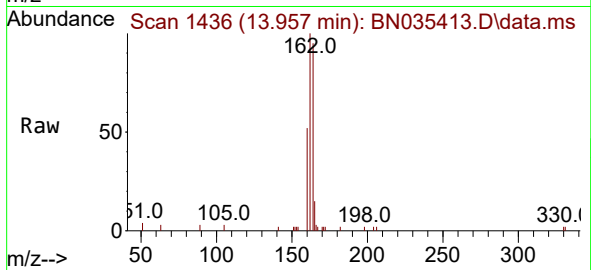
Tgt Ion:164 Resp: 3417

Ion Ratio Lower Upper

164 100

162 105.1 82.2 123.2

160 54.6 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.360 ng

RT: 15.475 min Scan# 1578

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

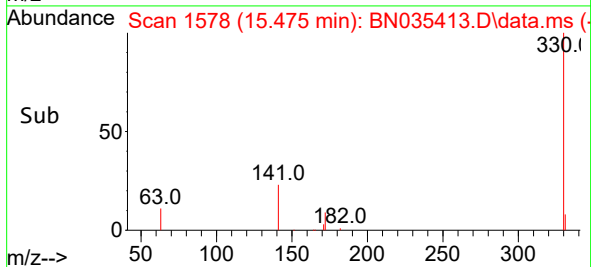
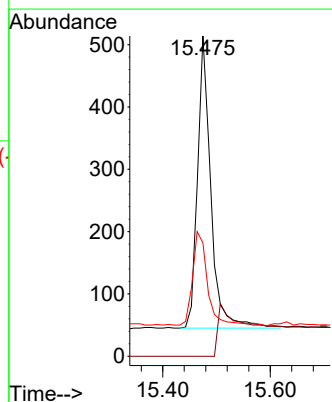
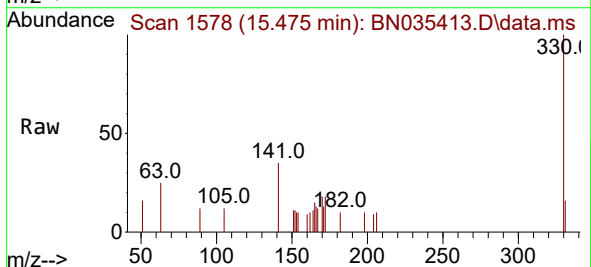
Tgt Ion:330 Resp: 874

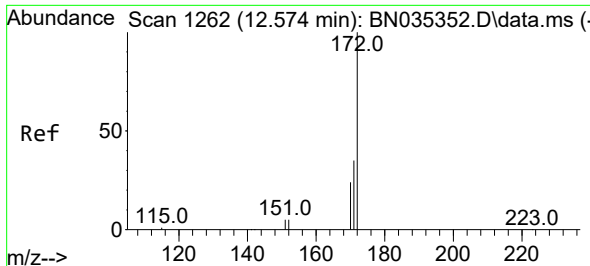
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 35.7 26.6 40.0

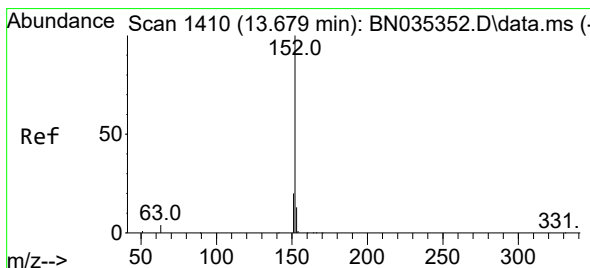
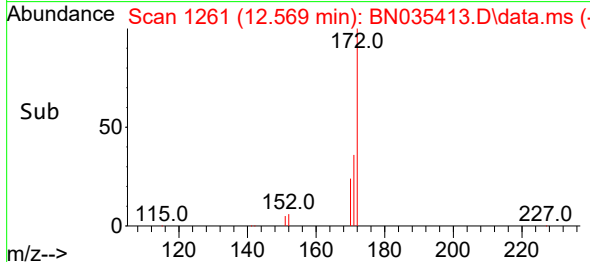
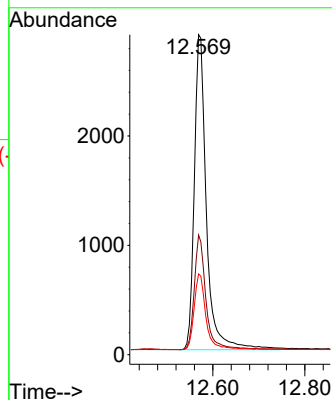
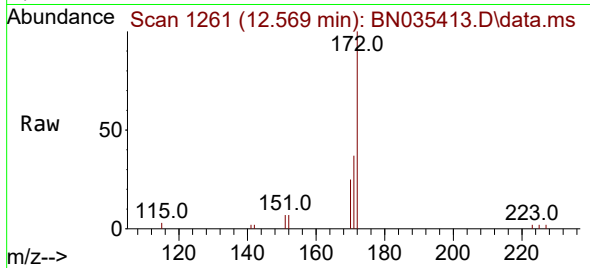




#15
2-Fluorobiphenyl
Concen: 0.409 ng
RT: 12.569 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

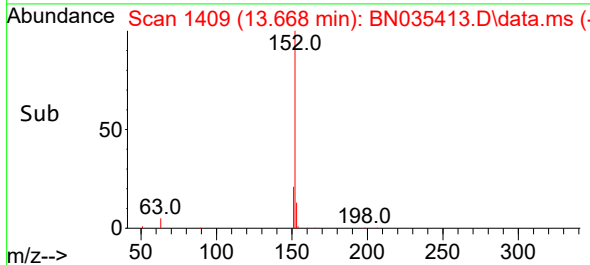
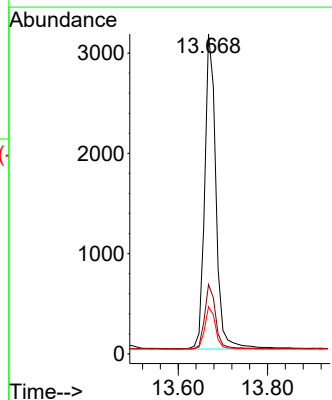
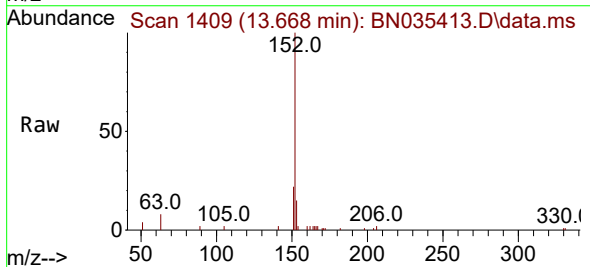
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

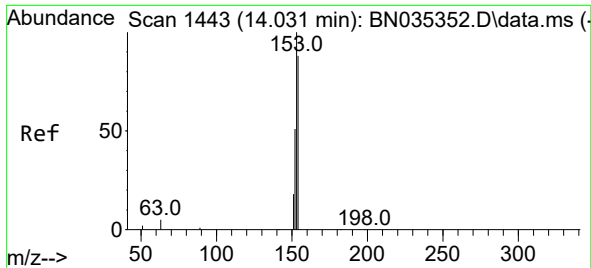
Tgt Ion:172	Resp:	5285
Ion Ratio	Lower	Upper
172	100	
171	37.4	29.0 43.4
170	25.2	19.8 29.8



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:152	Resp:	5470
Ion Ratio	Lower	Upper
152	100	
151	19.8	16.2 24.2
153	13.2	10.4 15.6

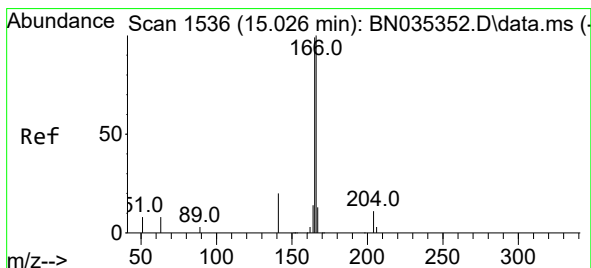
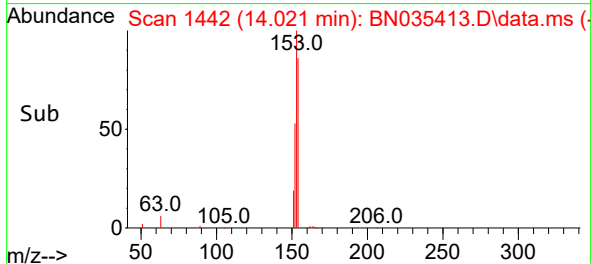
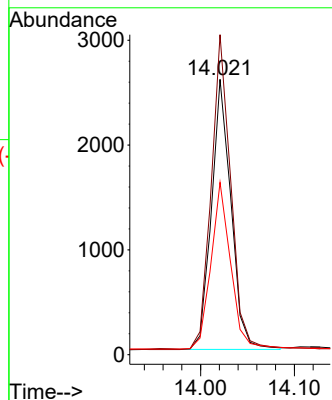
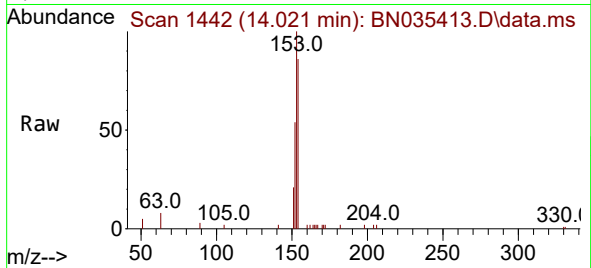




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.021 min Scan# 1442
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

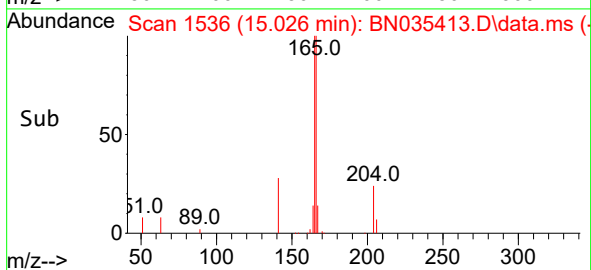
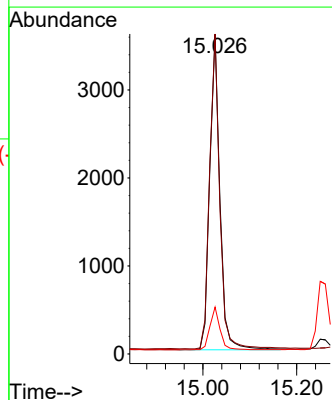
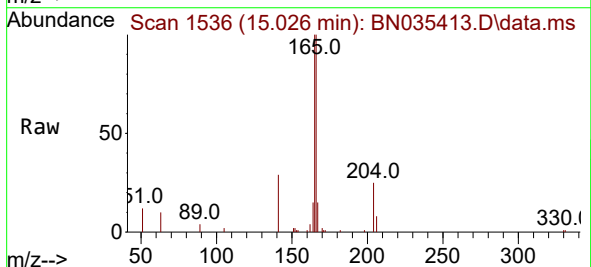
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

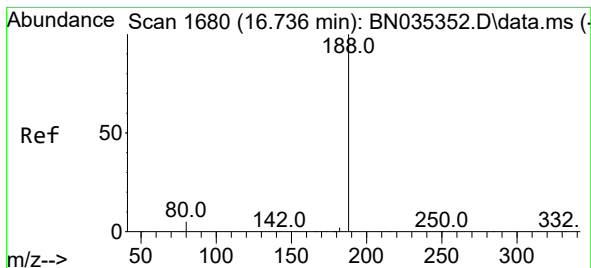
Tgt Ion:154 Resp: 3732
Ion Ratio Lower Upper
154 100
153 117.7 92.6 139.0
152 62.7 49.0 73.6



#18
Fluorene
Concen: 0.395 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:166 Resp: 5390
Ion Ratio Lower Upper
166 100
165 99.3 79.7 119.5
167 13.5 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: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

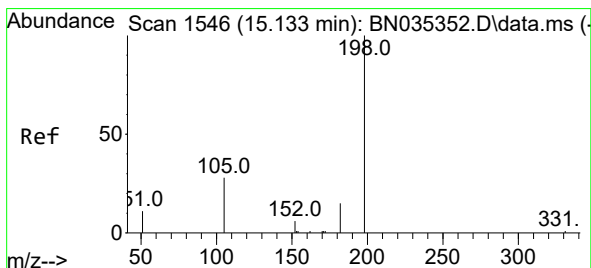
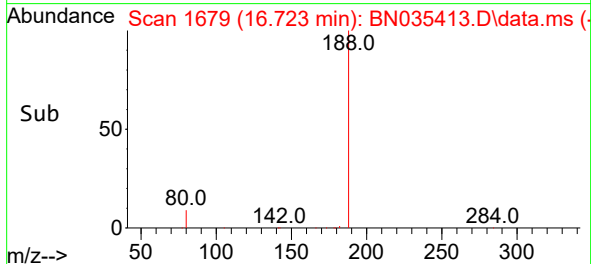
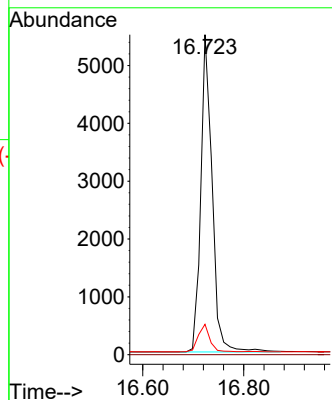
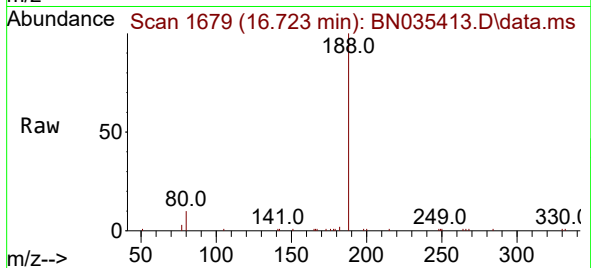
Tgt Ion:188 Resp: 8599

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.358 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

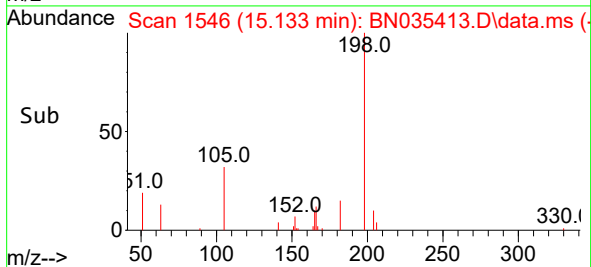
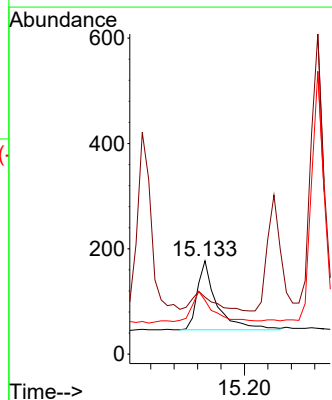
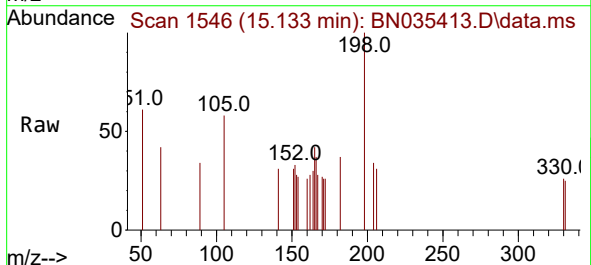
Tgt Ion:198 Resp: 303

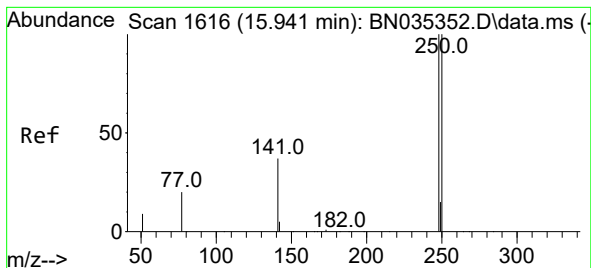
Ion Ratio Lower Upper

198 100

51 61.0 46.5 69.7

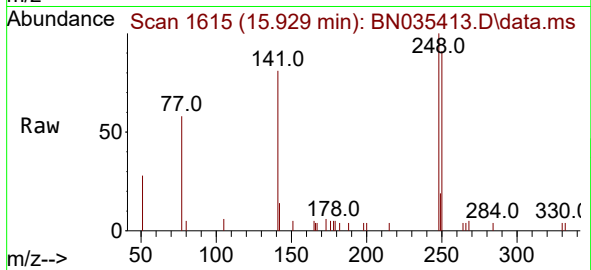
105 57.6 45.3 67.9



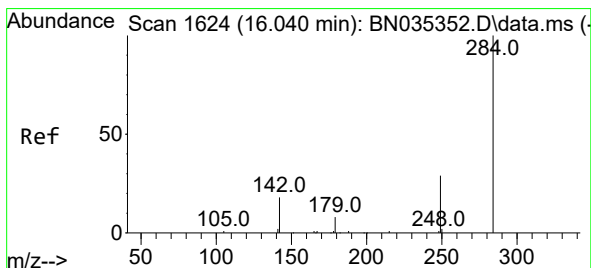
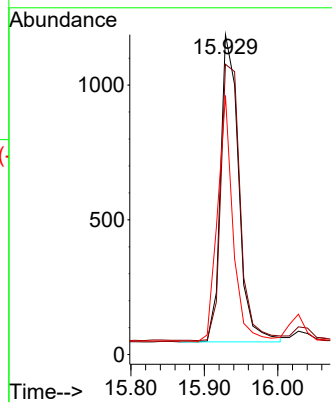
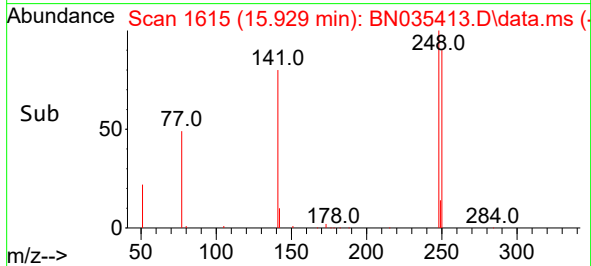


#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 15.929 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

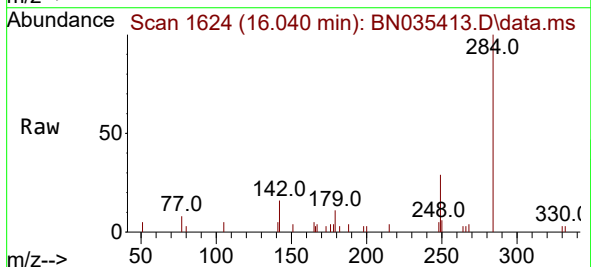
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



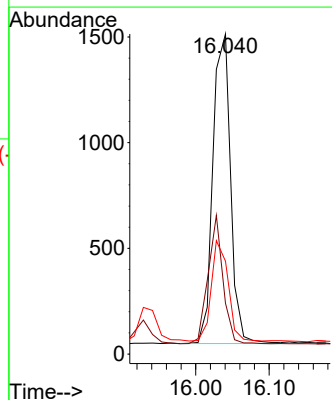
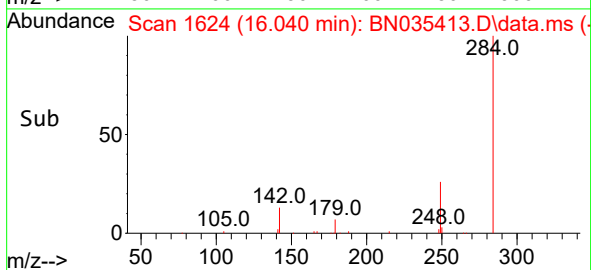
Tgt Ion:248 Resp: 1954
Ion Ratio Lower Upper
248 100
250 90.7 80.6 120.8
141 81.0 31.5 47.3#

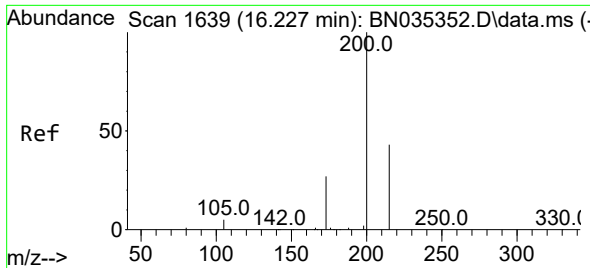


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



Tgt Ion:284 Resp: 2442
Ion Ratio Lower Upper
284 100
142 35.5 26.7 40.1
249 32.4 24.6 36.8

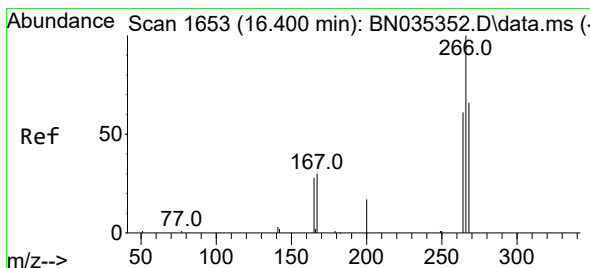
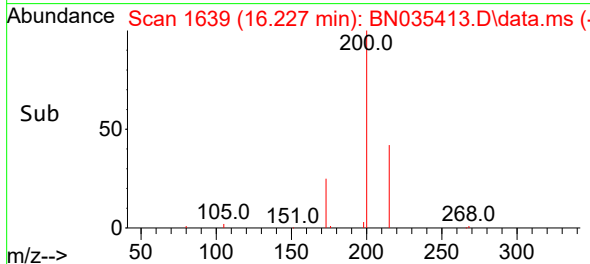
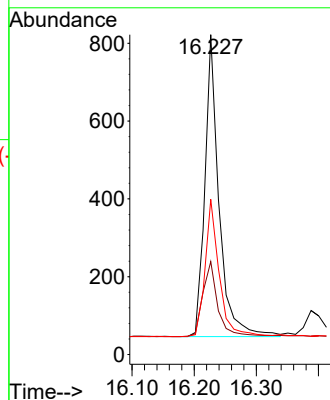
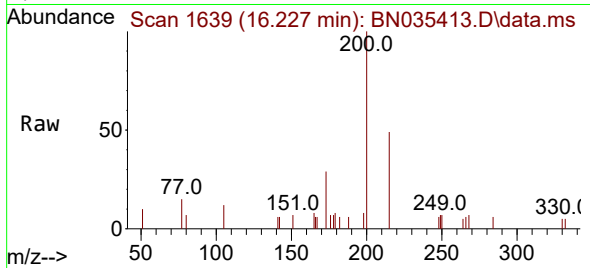




#23
 Atrazine
 Concen: 0.344 ng
 RT: 16.227 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

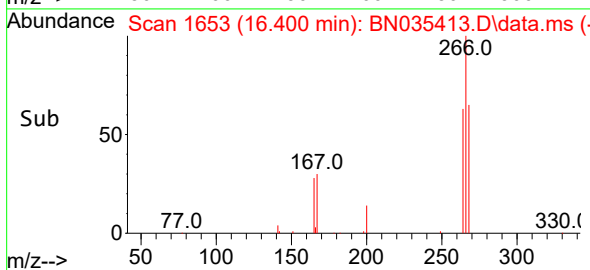
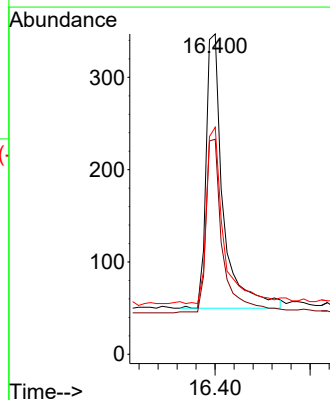
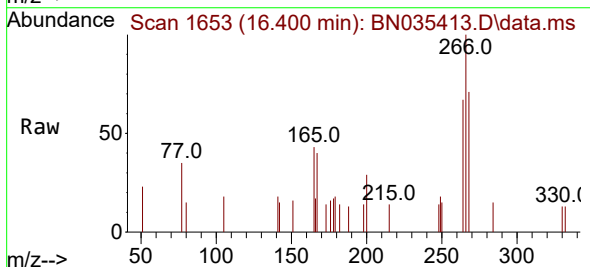
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

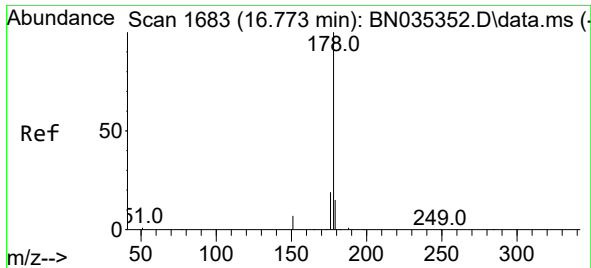
Tgt Ion:	200	Resp:	1233
Ion Ratio	Lower	Upper	
200	100		
173	29.1	24.1	36.1
215	48.5	36.9	55.3



#24
 Pentachlorophenol
 Concen: 0.289 ng
 RT: 16.400 min Scan# 1653
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion:	266	Resp:	742
Ion Ratio	Lower	Upper	
266	100		
264	62.0	42.3	63.5
268	63.5	43.3	64.9

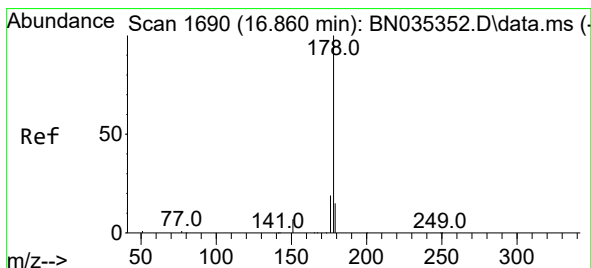
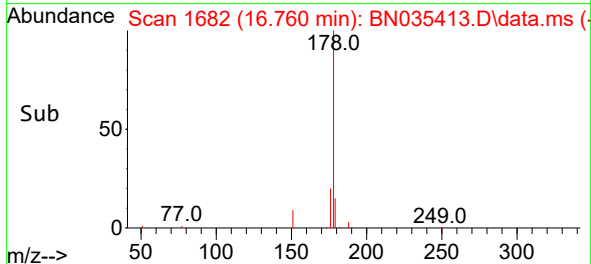
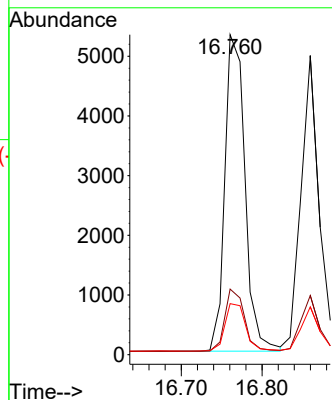
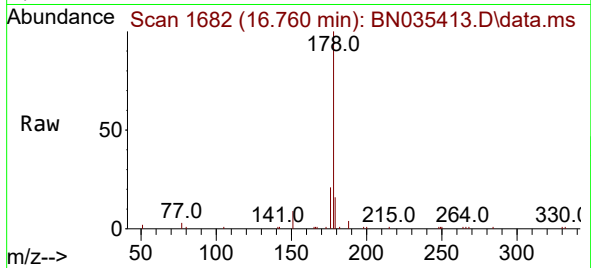




#25
Phenanthrene
Concen: 0.390 ng
RT: 16.760 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

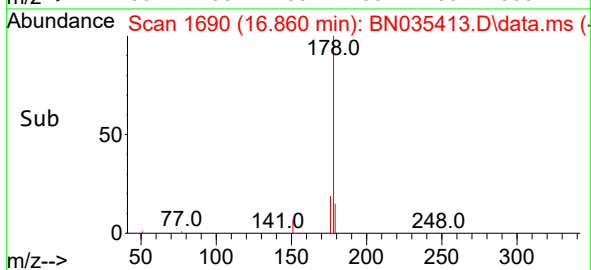
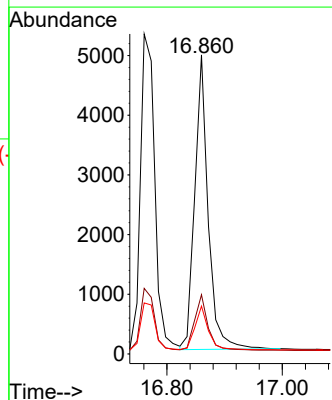
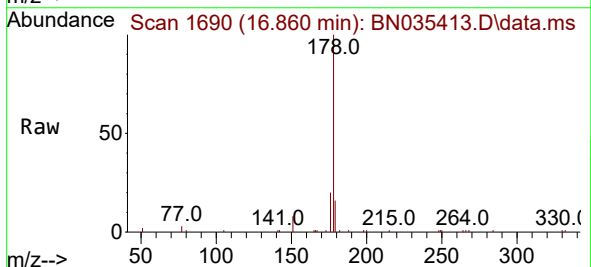
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

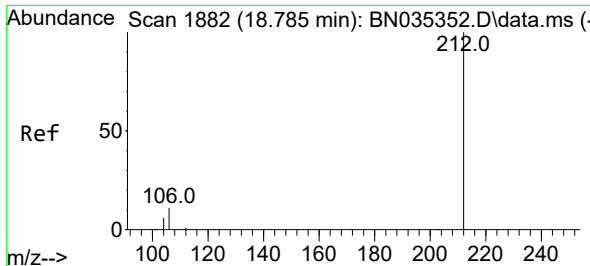
Tgt Ion:	178	Resp:	9217
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.4	23.2
179	15.4	12.3	18.5



#26
Anthracene
Concen: 0.373 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:	178	Resp:	7974
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8

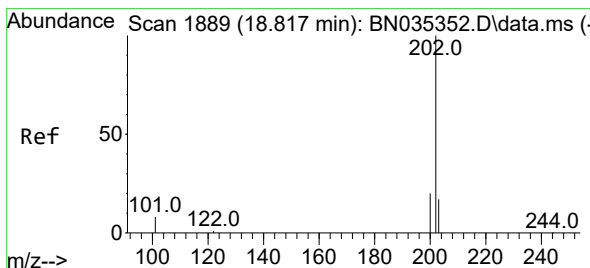
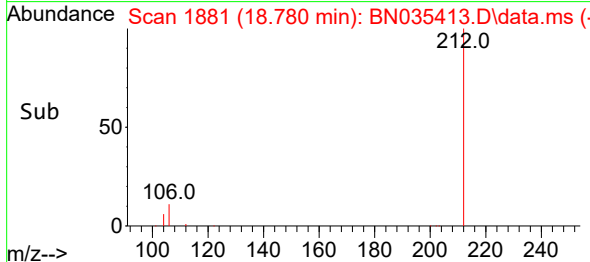
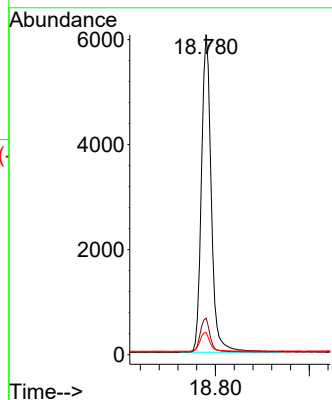
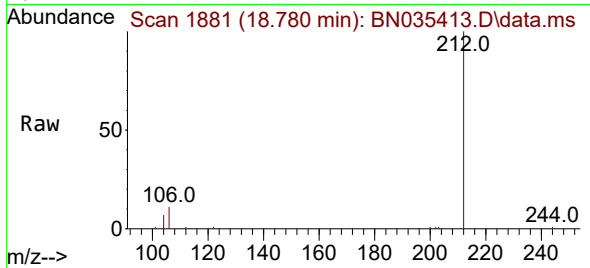




#27
Fluoranthene-d10
Concen: 0.361 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

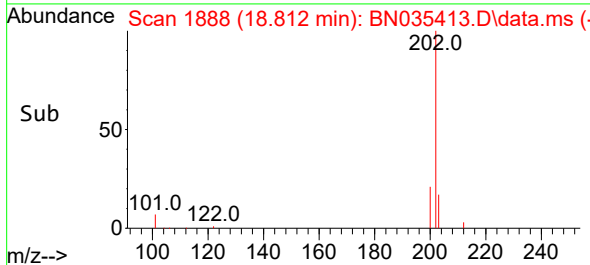
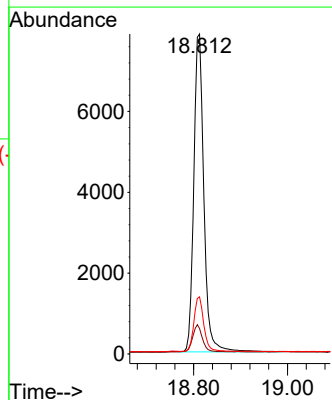
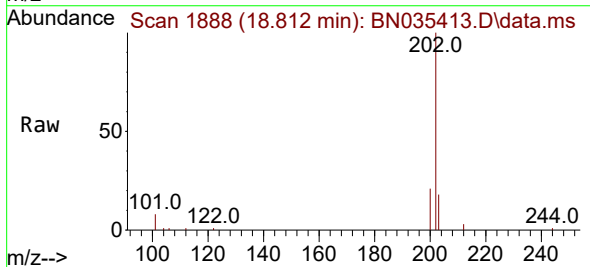
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

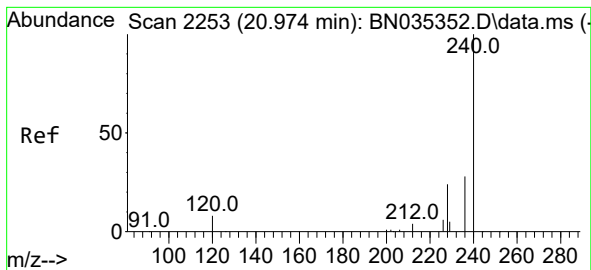
Tgt Ion:212 Resp: 8797
Ion Ratio Lower Upper
212 100
106 10.7 9.2 13.8
104 6.2 5.3 7.9



#28
Fluoranthene
Concen: 0.368 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:202 Resp: 11723
Ion Ratio Lower Upper
202 100
101 8.5 7.4 11.0
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

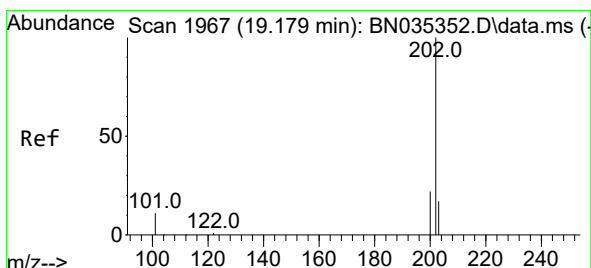
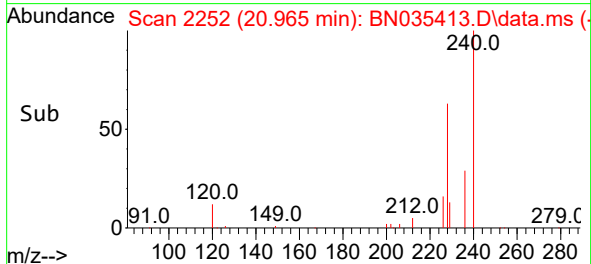
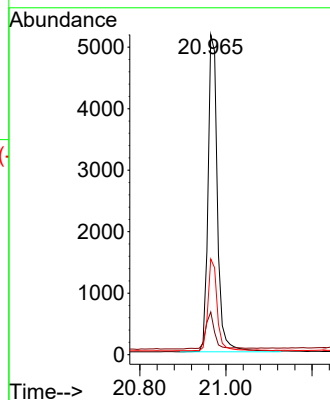
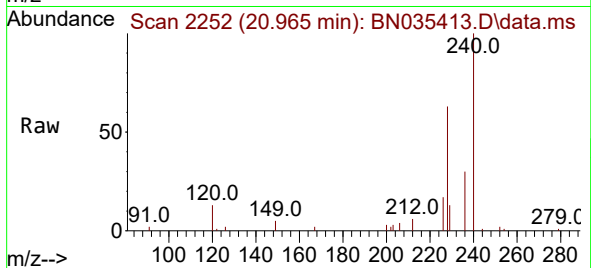
Tgt Ion:240 Resp: 7834

Ion Ratio Lower Upper

240 100

120 13.4 7.9 11.9#

236 29.9 22.9 34.3



#30

Pyrene

Concen: 0.410 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

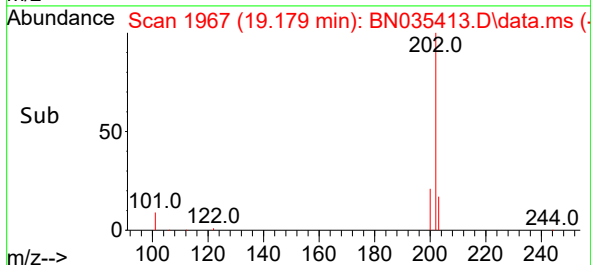
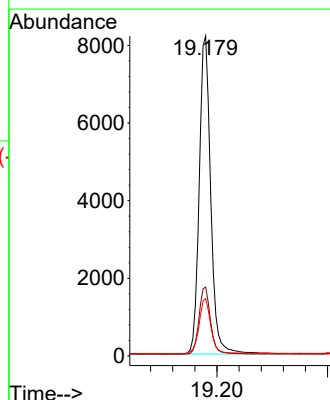
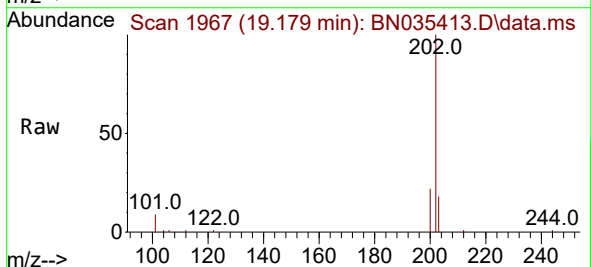
Tgt Ion:202 Resp: 11845

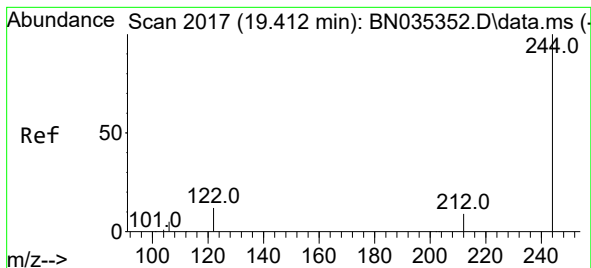
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.8 14.3 21.5





#31

Terphenyl-d14

Concen: 0.403 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

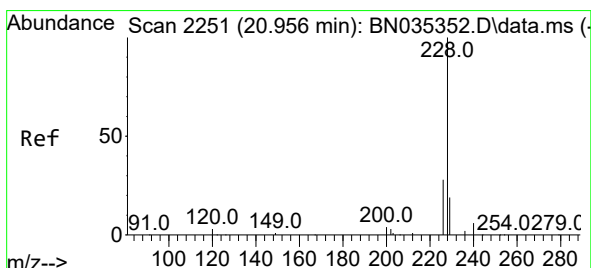
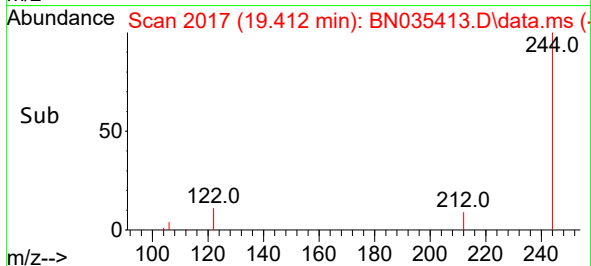
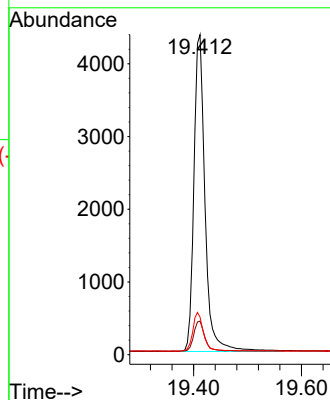
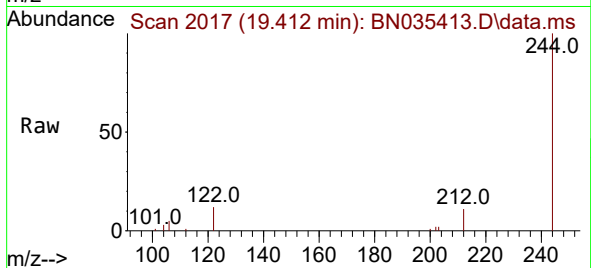
Tgt Ion:244 Resp: 6230

Ion Ratio Lower Upper

244 100

212 10.5 8.1 12.1

122 11.8 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.366 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

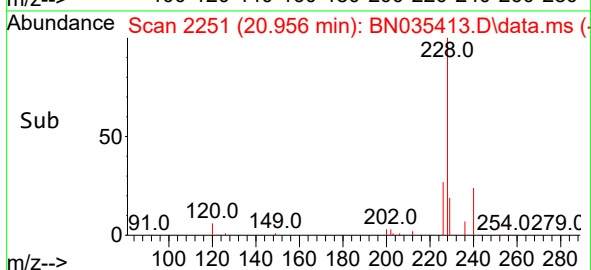
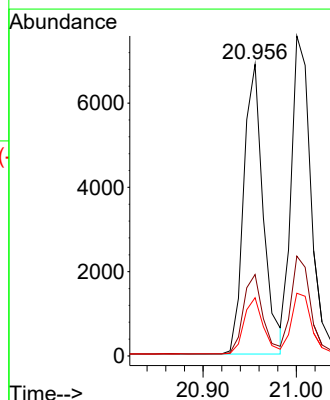
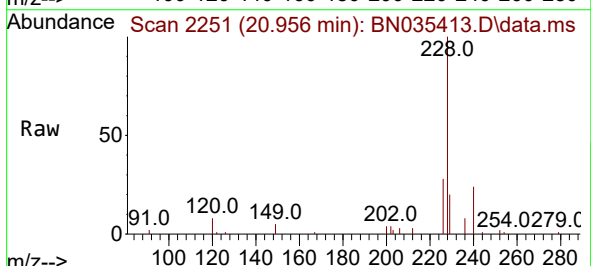
Tgt Ion:228 Resp: 10025

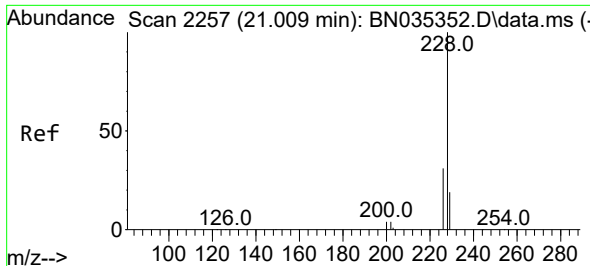
Ion Ratio Lower Upper

228 100

226 27.9 22.5 33.7

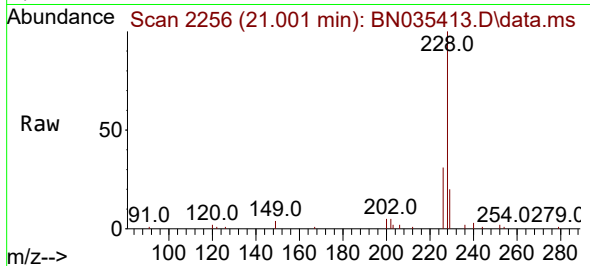
229 19.9 15.8 23.8



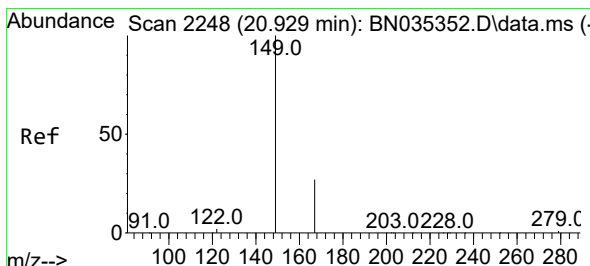
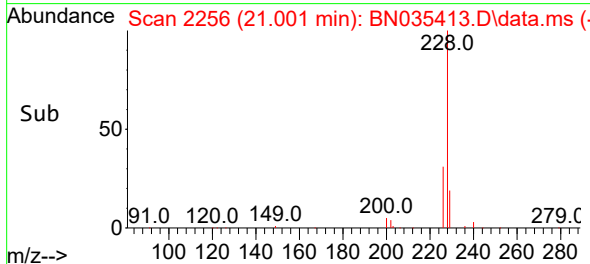
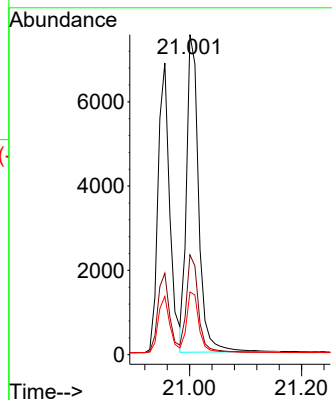


#33
Chrysene
Concen: 0.401 ng
RT: 21.001 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

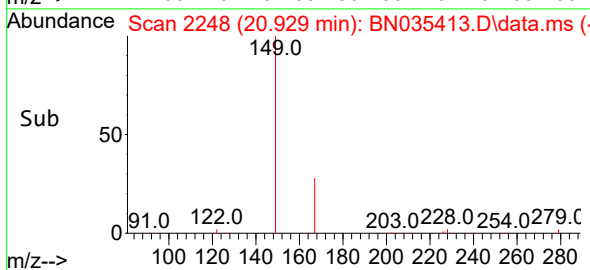
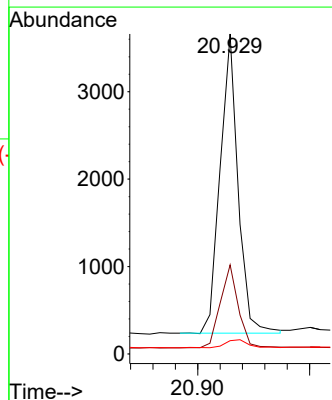
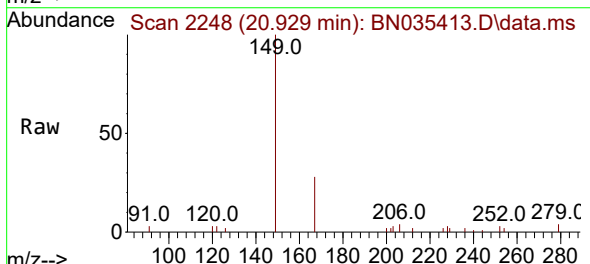


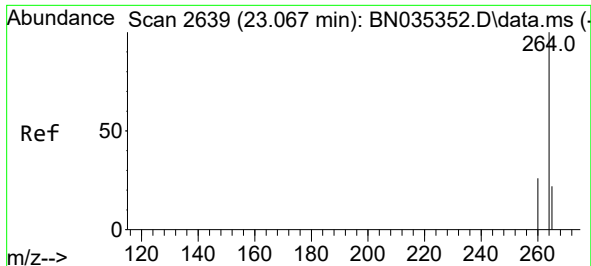
Tgt Ion:228 Resp: 11323
Ion Ratio Lower Upper
228 100
226 31.2 24.6 37.0
229 19.6 15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

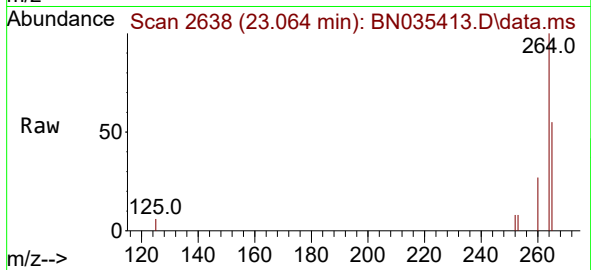
Tgt Ion:149 Resp: 3811
Ion Ratio Lower Upper
149 100
167 28.4 22.2 33.4
279 3.3 2.7 4.1





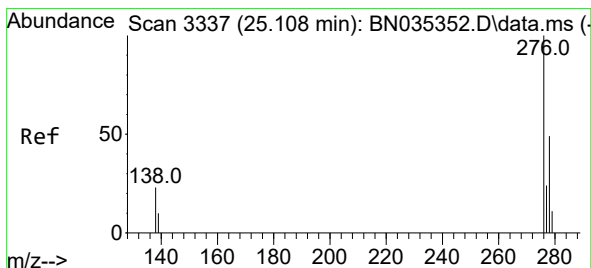
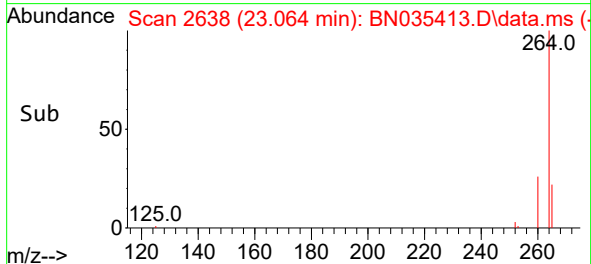
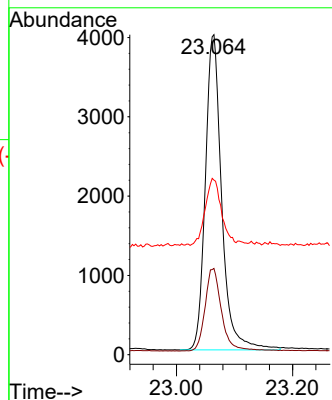
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.064 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 7769

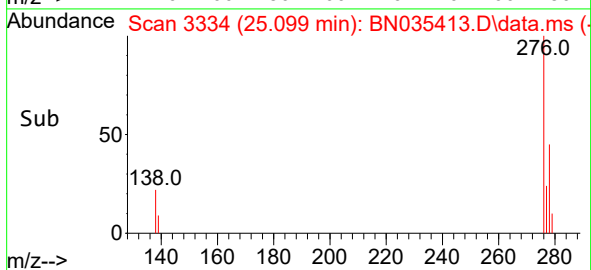
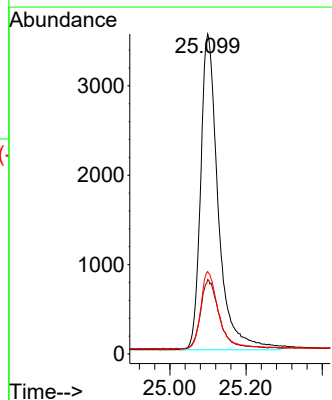
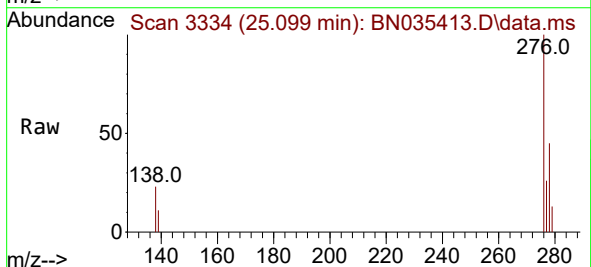
Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	54.5	40.2	60.4

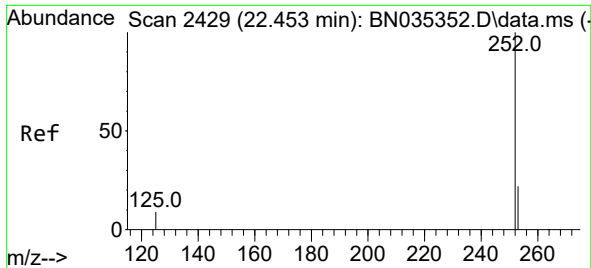


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.099 min Scan# 3334
Delta R.T. -0.009 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:276 Resp: 11352

Ion	Ratio	Lower	Upper
276	100		
138	22.8	19.4	29.0
277	24.4	19.8	29.6

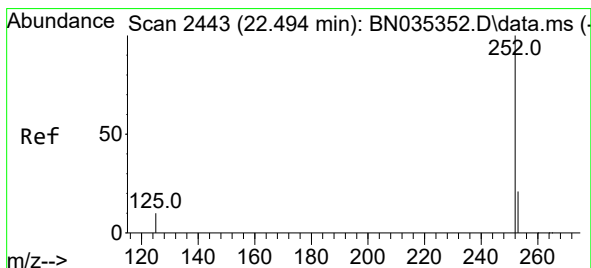
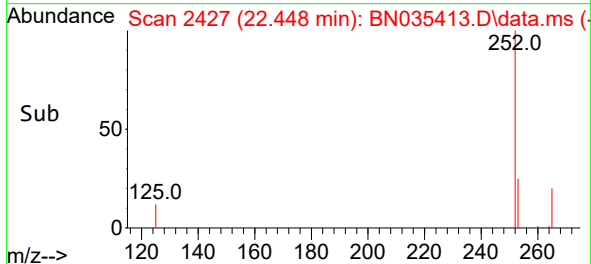
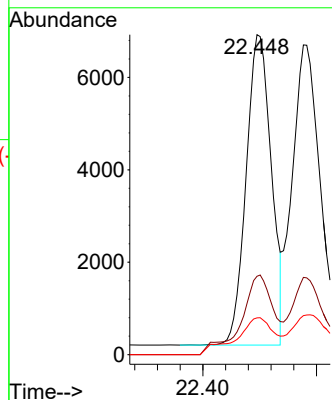
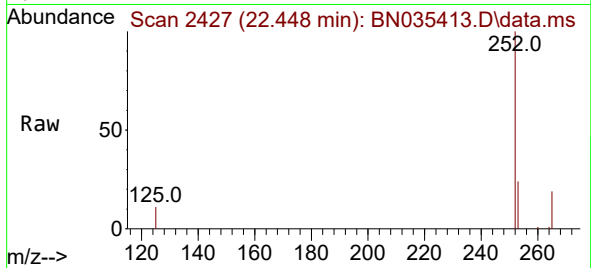




#37
Benzo(b)fluoranthene
Concen: 0.456 ng
RT: 22.448 min Scan# 2427
Delta R.T. -0.006 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

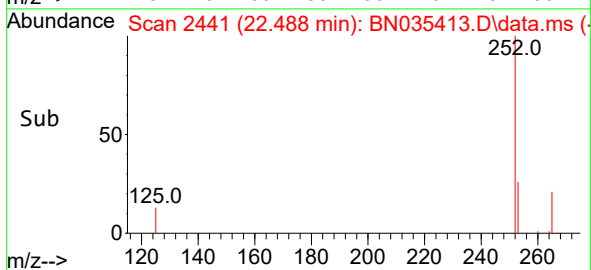
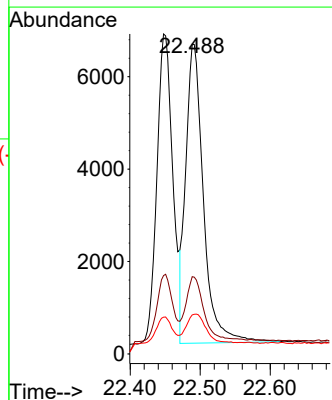
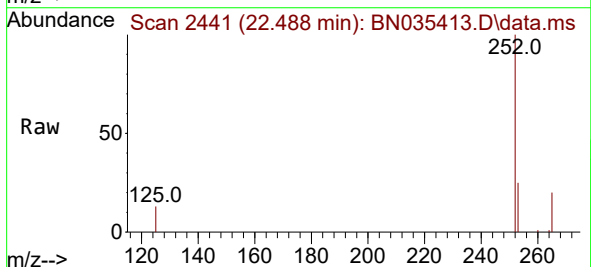
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

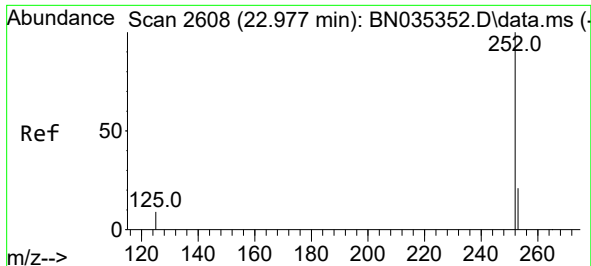
Tgt Ion:252 Resp: 12967
Ion Ratio Lower Upper
252 100
253 24.5 19.6 29.4
125 11.5 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.407 ng
RT: 22.488 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

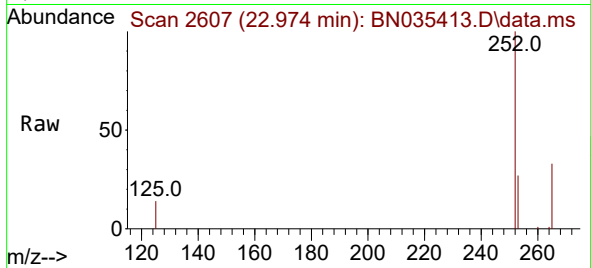
Tgt Ion:252 Resp: 11373
Ion Ratio Lower Upper
252 100
253 24.9 19.5 29.3
125 12.6 10.2 15.4



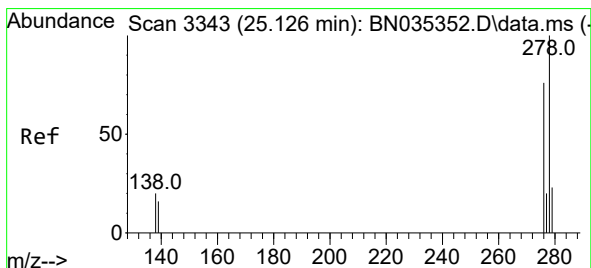
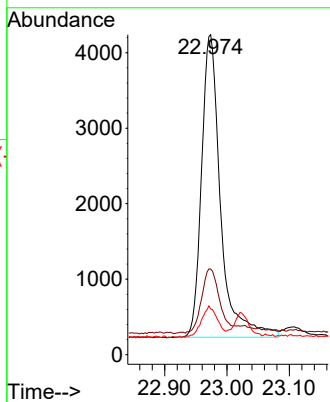
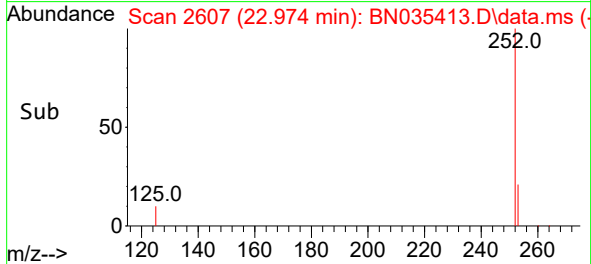


#39
Benzo(a)pyrene
Concen: 0.363 ng
RT: 22.974 min Scan# 20
Delta R.T. -0.003 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

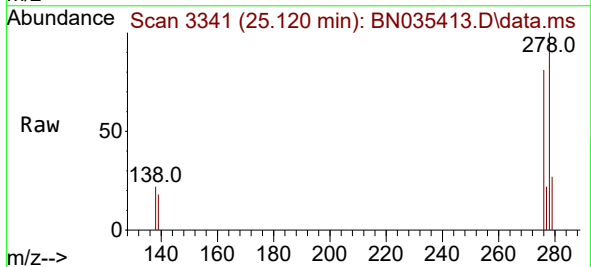
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



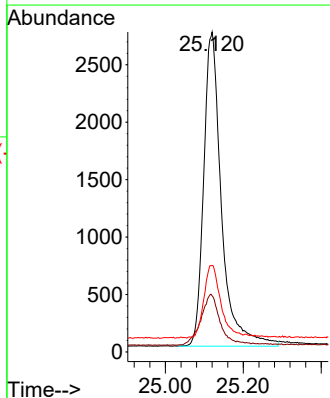
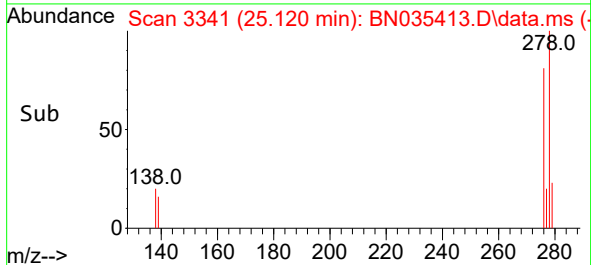
Tgt Ion:252 Resp: 8498
Ion Ratio Lower Upper
252 100
253 26.8 20.2 30.4
125 14.3 10.9 16.3

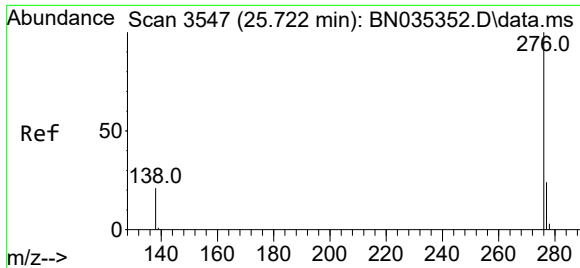


#40
Dibenzo(a,h)anthracene
Concen: 0.362 ng
RT: 25.120 min Scan# 3341
Delta R.T. -0.006 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



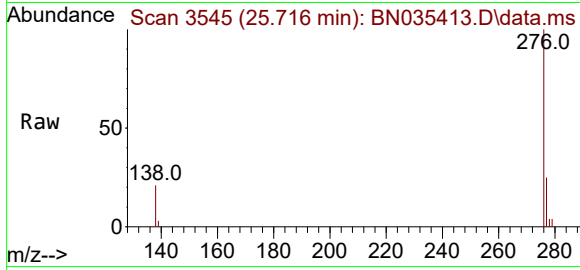
Tgt Ion:278 Resp: 8673
Ion Ratio Lower Upper
278 100
139 17.5 14.2 21.4
279 27.1 20.5 30.7





#41
Benzo(g,h,i)perylene
Concen: 0.368 ng
RT: 25.716 min Scan# 31
Delta R.T. -0.006 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:	276	Resp:	9224
Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.9	29.9
138	21.5	17.8	26.8

