

Cover Page

Order ID : P3657

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3657-01
P3657-02

Client Sample Number

917-J-WS-081624
TB-01-081624

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: 8/29/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3657

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/16/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for SVOCMS Group3.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

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



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For sample # 917-J-WS-081624 some compounds below Method detection limits, therefore it is not reported as Hit in Form-1.

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

CHEMTECH PROJECT NUMBER: P3657

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.			✓
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 .			✓

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

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

(CONTINUED)

		NA	NO	YES
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 Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis. For sample # 917-J-WS-081624 some compounds below Method detection limits, therefore it is not reported as Hit in Form-1.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3657

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 Custody

✓

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

✓

1st Level QA Review Signature: SOHIL JODHANI

Date: 08/29/2024

2nd Level QA Review Signature: _____

Date: _____

LAB CHRONICLE

OrderID:	P3657	OrderDate:	8/16/2024 2:45:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	G11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3657-01	917-J-WS-081624	Water			08/16/24			08/16/24
			SVOCMS Group3	8270-Modified		08/19/24	08/20/24	
			SVOCMS Group6	8270E		08/19/24	08/21/24	



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Hit Summary Sheet SW-846

SDG No.: P3657

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	917-J-WS-081624						
P3657-01	917-J-WS-081624	WATER Fluorene	0.070	J	0.02	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Phenanthrene	0.050	J	0.02	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Fluoranthene	0.090	J	0.02	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Pyrene	0.060	J	0.02	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Benzo(a)anthracene	0.050	J	0.02	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Chrysene	0.080	J	0.03	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Benzo(b)fluoranthene	0.070	J	0.03	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Benzo(k)fluoranthene	0.050	J	0.04	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Indeno(1,2,3-cd)pyrene	0.050	J	0.04	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Dibenzo(a,h)anthracene	0.040	J	0.04	0.1	ug/L
P3657-01	917-J-WS-081624	WATER Benzo(g,h,i)perylene	0.050	J	0.04	0.1	ug/L
Total Svoc :					0.66		
Total Concentration:					0.66		



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: P3657

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P3657-01	917-J-WS-081624	2-Methylnaphthalene-d10	0.4	0.31	77		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.37	93		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.29	73		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.31	78		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.46	115		30 (35)	130 (157)
PB162821BL	PB162821BL	2-Methylnaphthalene-d10	0.4	0.32	80		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.31	77		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.33	81		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.36	90		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.36	90		30 (35)	130 (157)
PB162821BS	PB162821BS	2-Methylnaphthalene-d10	0.4	0.45	112		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.32	79		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.34	84		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.37	93		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.38	94		30 (35)	130 (157)
PB162821BSD	PB162821BSD	2-Methylnaphthalene-d10	0.4	0.45	113		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.35	87		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.36	90		30 (27)	130 (123)
		2-Fluorobiphenyl	0.4	0.39	98		30 (34)	130 (132)
		Terphenyl-d14	0.4	0.36	90		30 (35)	130 (157)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3657

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

DataFile: BN033491.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB162821BS	Naphthalene	0.4	0.37	ug/L	93				70 (67)	130 (120)	
	2-Methylnaphthalene	0.4	0.36	ug/L	90				70 (50)	130 (122)	
	Acenaphthylene	0.4	0.37	ug/L	93				70 (60)	130 (119)	
	Acenaphthene	0.4	0.37	ug/L	93				70 (65)	130 (119)	
	Fluorene	0.4	0.34	ug/L	85				70 (58)	130 (122)	
	Phenanthrene	0.4	0.38	ug/L	95				70 (65)	130 (117)	
	Anthracene	0.4	0.36	ug/L	90				70 (57)	130 (118)	
	Fluoranthene	0.4	0.33	ug/L	83				70 (53)	130 (126)	
	Pyrene	0.4	0.39	ug/L	98				70 (54)	130 (124)	
	Benzo(a)anthracene	0.4	0.41	ug/L	103				70 (54)	130 (130)	
	Chrysene	0.4	0.44	ug/L	110				70 (64)	130 (126)	
	Benzo(b)fluoranthene	0.4	0.42	ug/L	105				70 (65)	130 (121)	
	Benzo(k)fluoranthene	0.4	0.43	ug/L	108				70 (72)	130 (119)	
	Benzo(a)pyrene	0.4	0.44	ug/L	110				70 (68)	130 (120)	
	Indeno(1,2,3-cd)pyrene	0.4	0.48	ug/L	120				70 (70)	130 (127)	
	Dibenz(a,h)anthracene	0.4	0.47	ug/L	117				70 (65)	130 (121)	
	Benzo(g,h,i)perylene	0.4	0.46	ug/L	115				70 (76)	130 (117)	
	1,4-Dioxane	0.4	0.29	ug/L	73				20 (42)	160 (127)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3657

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified DataFile: BN033492.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB162821BSD	Naphthalene	0.4	0.38	ug/L	95	3			70 (67)	130 (120)	20 (20)
	2-Methylnaphthalene	0.4	0.37	ug/L	93	3			70 (50)	130 (122)	20 (20)
	Acenaphthylene	0.4	0.38	ug/L	95	3			70 (60)	130 (119)	20 (20)
	Acenaphthene	0.4	0.39	ug/L	98	5			70 (65)	130 (119)	20 (20)
	Fluorene	0.4	0.36	ug/L	90	6			70 (58)	130 (122)	20 (20)
	Phenanthrene	0.4	0.40	ug/L	100	5			70 (65)	130 (117)	20 (20)
	Anthracene	0.4	0.38	ug/L	95	5			70 (57)	130 (118)	20 (20)
	Fluoranthene	0.4	0.36	ug/L	90	9			70 (53)	130 (126)	20 (20)
	Pyrene	0.4	0.37	ug/L	93	5			70 (54)	130 (124)	20 (20)
	Benzo(a)anthracene	0.4	0.41	ug/L	103	0			70 (54)	130 (130)	20 (20)
	Chrysene	0.4	0.44	ug/L	110	0			70 (64)	130 (126)	20 (20)
	Benzo(b)fluoranthene	0.4	0.45	ug/L	113	7			70 (65)	130 (121)	20 (20)
	Benzo(k)fluoranthene	0.4	0.46	ug/L	115	7			70 (72)	130 (119)	20 (20)
	Benzo(a)pyrene	0.4	0.47	ug/L	117	7			70 (68)	130 (120)	20 (20)
	Indeno(1,2,3-cd)pyrene	0.4	0.50	ug/L	125	4			70 (70)	130 (127)	20 (20)
	Dibenz(a,h)anthracene	0.4	0.50	ug/L	125	6			70 (65)	130 (121)	20 (20)
	Benzo(g,h,i)perylene	0.4	0.48	ug/L	120	4			70 (76)	130 (117)	20 (20)
	1,4-Dioxane	0.4	0.31	ug/L	78	7			20 (42)	160 (127)	20 (20)

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162821BL

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: P3657

SAS No.: P3657 SDG NO.: P3657

Lab File ID: BN033490.D

Lab Sample ID: PB162821BL

Instrument ID: BNA_N

Date Extracted: 08/19/2024

Matrix: (soil/water) Water

Date Analyzed: 08/20/2024

Level: (low/med) LOW

Time Analyzed: 05:20

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB162821BS	PB162821BS	BN033491.D	08/20/2024
PB162821BSD	PB162821BSD	BN033492.D	08/20/2024
917-J-WS-081624	P3657-01	BN033501.D	08/20/2024

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM

SAS No.: P3657

SDG NO.: P3657

Lab File ID: BN033478.D

DFTPP Injection Date: 08/19/2024

Instrument ID: BNA_N

DFTPP Injection Time: 15:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.6
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	37.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	11.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.8 (20) 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	BN033479.D	08/19/2024	16:16
SSTDICC0.2	SSTDICC0.2	BN033480.D	08/19/2024	16:52
SSTDICCC0.4	SSTDICCC0.4	BN033481.D	08/19/2024	17:28
SSTDICC0.8	SSTDICC0.8	BN033482.D	08/19/2024	18:05
SSTDICC1.6	SSTDICC1.6	BN033483.D	08/19/2024	18:41
SSTDICC3.2	SSTDICC3.2	BN033484.D	08/19/2024	19:17
SSTDICC5.0	SSTDICC5.0	BN033485.D	08/19/2024	19:53

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM

SAS No.: P3657 SDG NO.: P3657

Lab File ID: BN033488.D

DFTPP Injection Date: 08/20/2024

Instrument ID: BNA_N

DFTPP Injection Time: 04:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.7
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.9
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	10.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.7 (17.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN033489.D	08/20/2024	04:44
PB162821BL	PB162821BL	BN033490.D	08/20/2024	05:20
PB162821BS	PB162821BS	BN033491.D	08/20/2024	05:56
PB162821BSD	PB162821BSD	BN033492.D	08/20/2024	06:32
917-J-WS-081624	P3657-01	BN033501.D	08/20/2024	12:11

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3657 SAS No.: P3657 SDG NO.: P3657

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/20/2024

Lab File ID: BN033489.D Time Analyzed: 04:44

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	9356	7.552	25244	10.31	13324	14.19
UPPER LIMIT	18712	8.052	50488	10.814	26648	14.689
LOWER LIMIT	4678	7.052	12622	9.814	6662	13.689
EPA SAMPLE NO.						
01 PB162821BSD	6514	7.55	16349	10.31	7352	14.19
02 917-J-WS-081624	7404	7.55	19943	10.31	10386	14.19
03 PB162821BL	8454	7.55	21595	10.31	9514	14.19
04 PB162821BS	7907	7.55	19971	10.31	9237	14.19

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3657 SAS No.: P3657 SDG NO.: P3657

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/20/2024

Lab File ID: BN033489.D Time Analyzed: 04:44

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	27326	16.942	15982	21.148	15401	23.315
UPPER LIMIT	54652	17.442	31964	21.648	30802	23.815
LOWER LIMIT	13663	16.442	7991	20.648	7700.5	22.815
EPA SAMPLE NO.						
01 PB162821BSD	13832	16.94	9514	21.15	9586	23.31
02 917-J-WS-081624	20955	16.94	13076	21.15	12675	23.32
03 PB162821BL	18114	16.94	11029	21.15	11535	23.32
04 PB162821BS	17236	16.94	10225	21.15	10409	23.32

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/16/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/16/24
Client Sample ID:	917-J-WS-081624	SDG No.:	P3657
Lab Sample ID:	P3657-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033501.D	1	08/19/24 09:50	08/20/24 12:11	PB162821

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.030	U	0.030	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.070	J	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.050	J	0.020	0.10	ug/L
120-12-7	Anthracene	0.030	U	0.030	0.10	ug/L
206-44-0	Fluoranthene	0.090	J	0.020	0.10	ug/L
129-00-0	Pyrene	0.060	J	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.050	J	0.020	0.10	ug/L
218-01-9	Chrysene	0.080	J	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.070	J	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.050	J	0.040	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	J	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	J	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.050	J	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.31		30 (20) - 150 (139)	77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 (30) - 150 (150)	93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		30 (27) - 130 (123)	73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		30 (34) - 130 (132)	78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		30 (35) - 130 (157)	115%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7400	7.552			
1146-65-2	Naphthalene-d8	19900	10.314			
15067-26-2	Acenaphthene-d10	10400	14.189			
1517-22-2	Phenanthrene-d10	21000	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/16/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/16/24
Client Sample ID:	917-J-WS-081624	SDG No.:	P3657
Lab Sample ID:	P3657-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033501.D	1	08/19/24 09:50	08/20/24 12:11	PB162821

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	13100	21.148			
1520-96-3	Perylene-d12	12700	23.323			

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\BN081924\
 Data File : BN033501.D
 Acq On : 20 Aug 2024 12:11
 Operator : MA/JU
 Sample : P3657-01
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 917-J-WS-081624

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/21/2024
 Supervised By :mohammad ahmed 08/22/2024

Quant Time: Aug 20 12:37:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	7404	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	19943	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	10386	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	20955	0.400	ng	0.00
29) Chrysene-d12	21.148	240	13076	0.400	ng	0.00
35) Perylene-d12	23.323	264	12675	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	2310	0.098	ng	0.00
5) Phenol-d6	6.736	99	1687	0.060	ng	0.00
8) Nitrobenzene-d5	8.681	82	4847	0.293	ng	-0.01
11) 2-Methylnaphthalene-d10	11.911	152	8808	0.309	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	1526	0.273	ng	0.00
15) 2-Fluorobiphenyl	12.809	172	13260	0.313	ng	0.00
27) Fluoranthene-d10	18.979	212	18652	0.370	ng	0.00
31) Terphenyl-d14	19.593	244	13637	0.459	ng	0.00
Target Compounds						
18) Fluorene	15.247	166	2575m	0.064	ng	Qvalue
25) Phenanthrene	16.979	178	2812	0.048	ng	98
28) Fluoranthene	19.007	202	5344	0.083	ng	99
30) Pyrene	19.374	202	3196	0.055	ng	# 94
32) Benzo(a)anthracene	21.130	228	2216	0.047	ng	# 86
33) Chrysene	21.184	228	3366	0.072	ng	# 94
34) Bis(2-ethylhexyl)phtha...	21.094	149	6278	0.210	ng	95
36) Indeno(1,2,3-cd)pyrene	25.475	276	2532	0.048	ng	99
37) Benzo(b)fluoranthene	22.677	252	3187	0.067	ng	# 49
38) Benzo(k)fluoranthene	22.721	252	2293	0.049	ng	# 27
39) Benzo(a)pyrene	23.227	252	1783	0.046	ng	# 24
40) Dibenzo(a,h)anthracene	25.495	278	1695	0.040	ng	# 53
41) Benzo(g,h,i)perylene	26.130	276	2244	0.050	ng	# 74

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

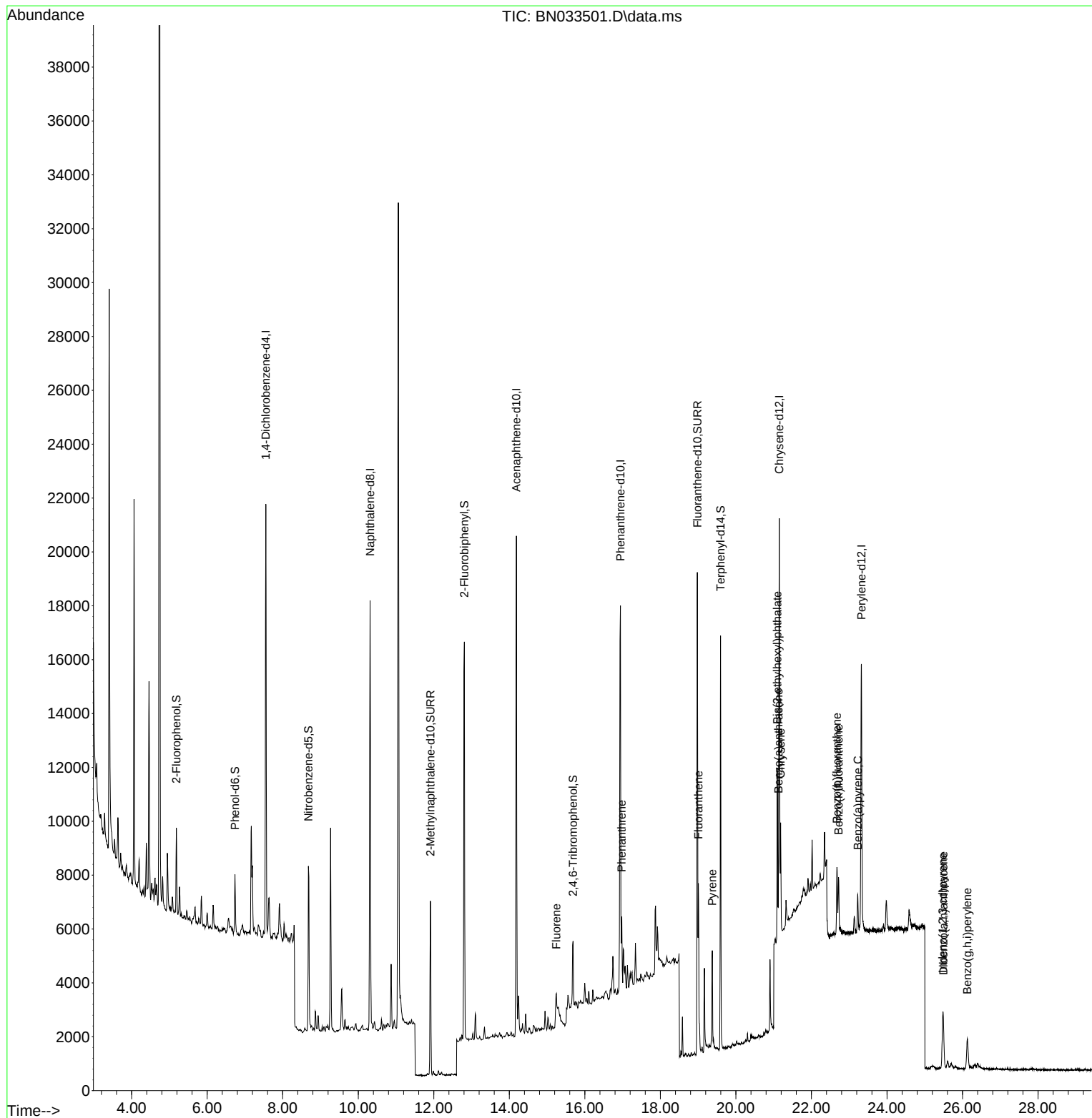
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Data File : BN033501.D
Acq On : 20 Aug 2024 12:11
Operator : MA/JU
Sample : P3657-01
Misc :
ALS Vial : 32 Sample Multiplier: 1

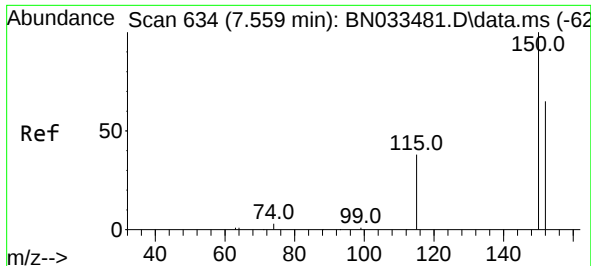
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

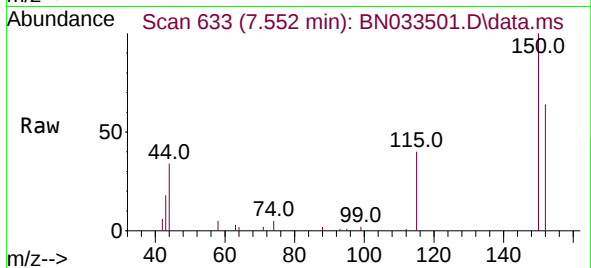
Quant Time: Aug 20 12:37:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 611
Delta R.T. -0.007 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

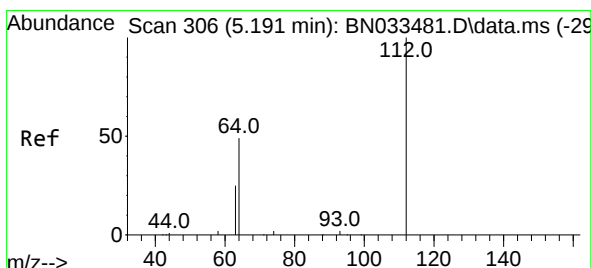
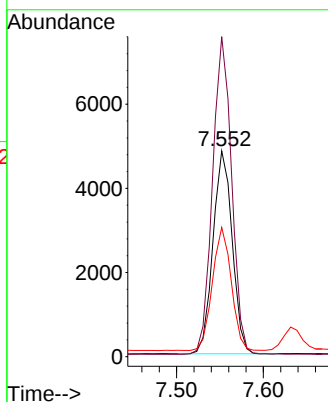
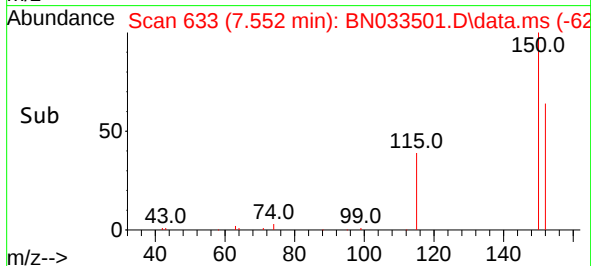
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



Tgt Ion:152 Resp: 7404
Ion Ratio Lower Upper
152 100
150 155.6 122.2 183.2
115 62.8 47.2 70.8

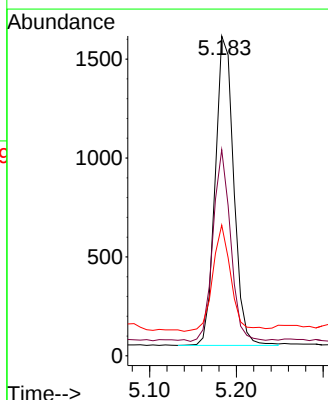
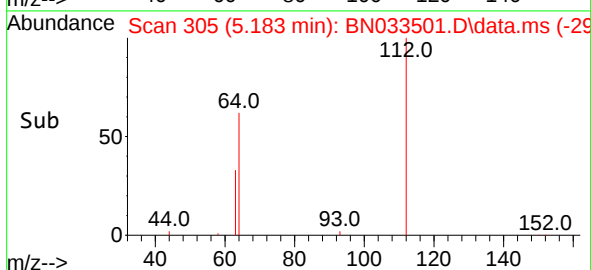
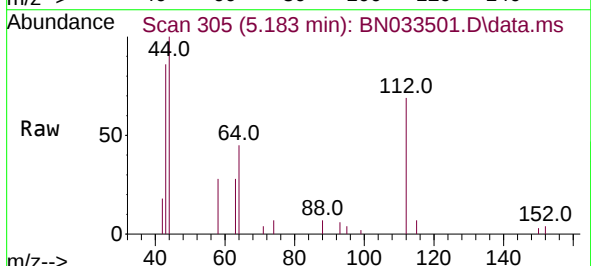
Manual Integrations
APPROVED

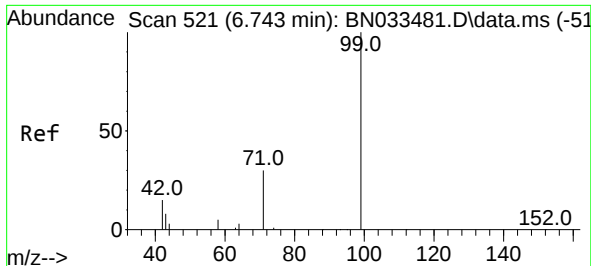
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#4
2-Fluorophenol
Concen: 0.098 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

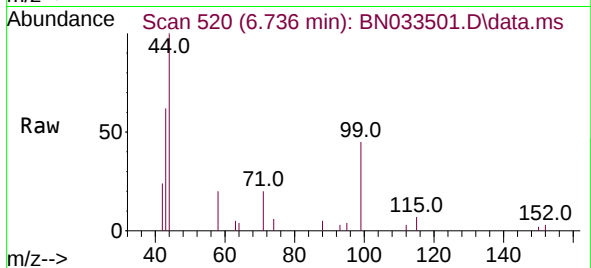
Tgt Ion:112 Resp: 2310
Ion Ratio Lower Upper
112 100
64 59.1 47.1 70.7
63 33.9 24.9 37.3





#5
Phenol-d6
Concen: 0.060 ng
RT: 6.736 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

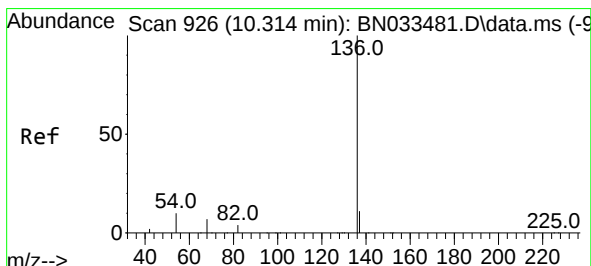
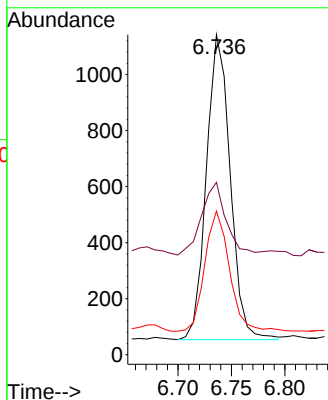
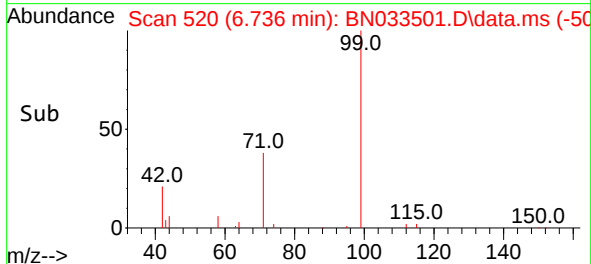
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



Tgt Ion: 99 Resp: 168
Ion Ratio Lower Upper
99 100
42 24.4 16.6 24.8
71 40.7 26.2 39.4

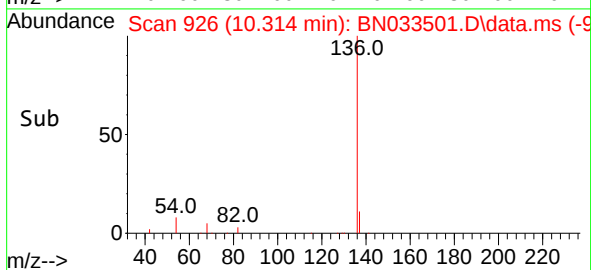
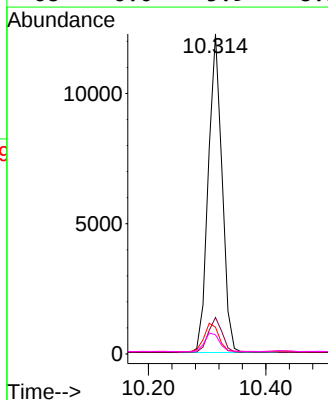
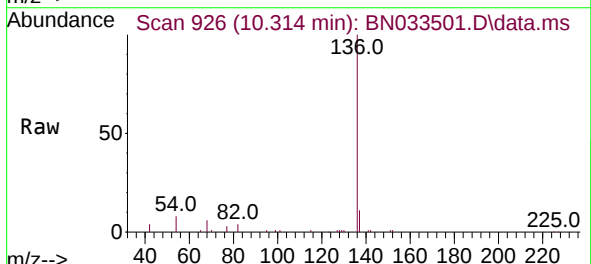
Manual Integrations
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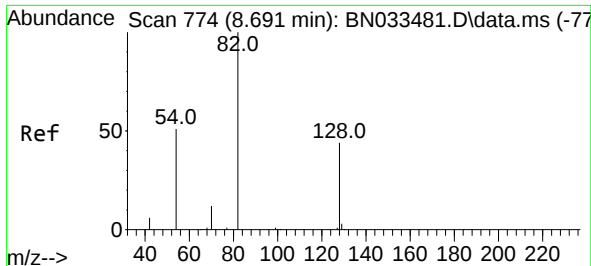
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 926
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

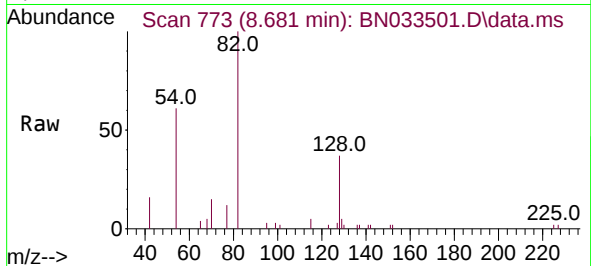
Tgt Ion:136 Resp: 19943
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 8.4 8.3 12.5
68 6.0 5.9 8.9





#8
Nitrobenzene-d5
Concen: 0.293 ng
RT: 8.681 min Scan# 774
Delta R.T. -0.011 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

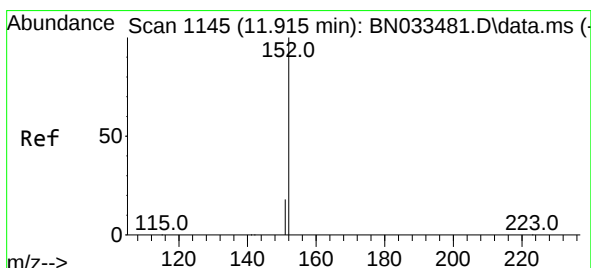
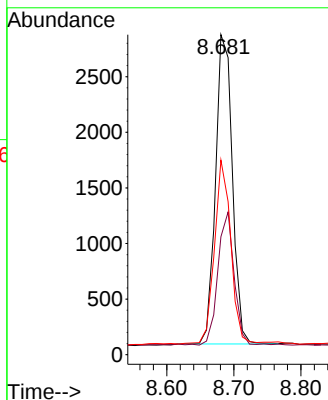
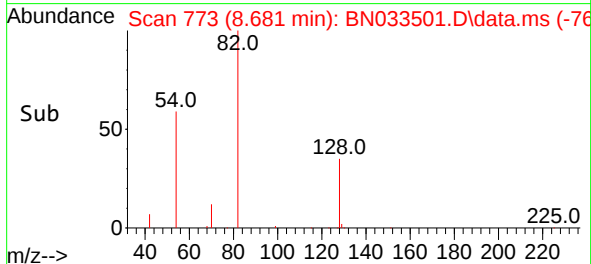
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



Tgt Ion: 82 Resp: 484
Ion Ratio Lower Upper
82 100
128 36.9 36.0 54.0
54 60.8 42.0 63.0

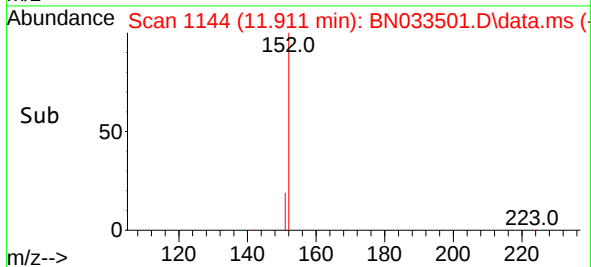
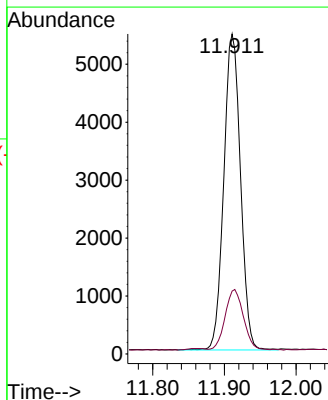
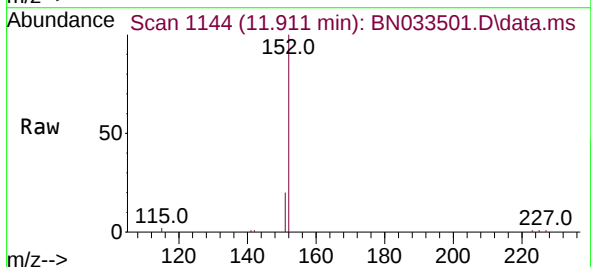
Manual Integrations
APPROVED

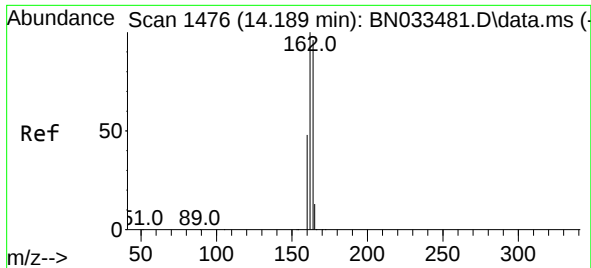
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 11.911 min Scan# 1144
Delta R.T. -0.004 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

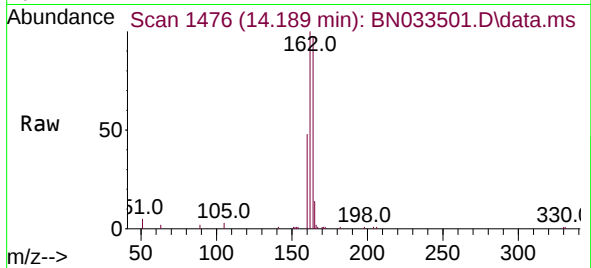
Tgt Ion:152 Resp: 8808
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

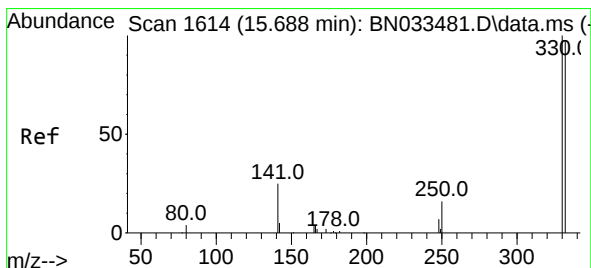
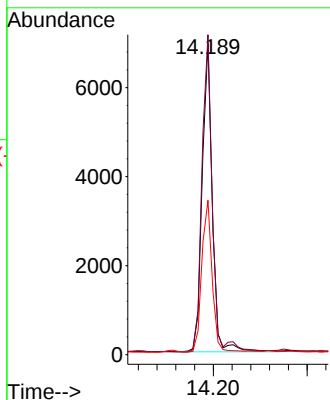
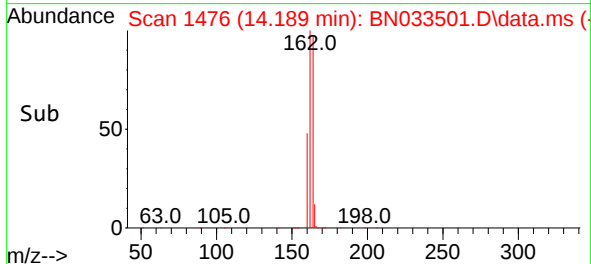
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



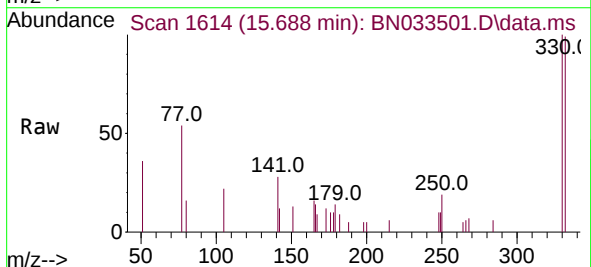
Tgt Ion:164 Resp: 10380
Ion Ratio Lower Upper
164 100
162 102.8 83.5 125.3
160 49.6 40.2 60.4

Manual Integrations
APPROVED

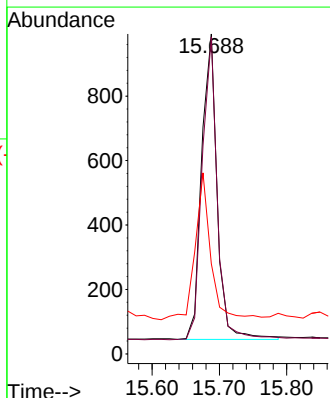
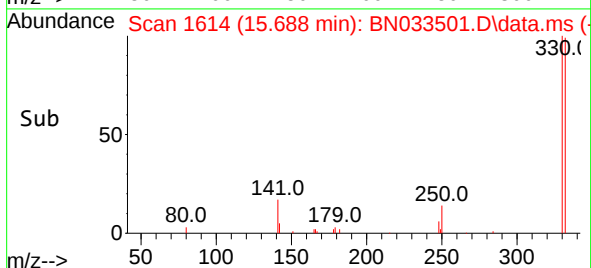
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

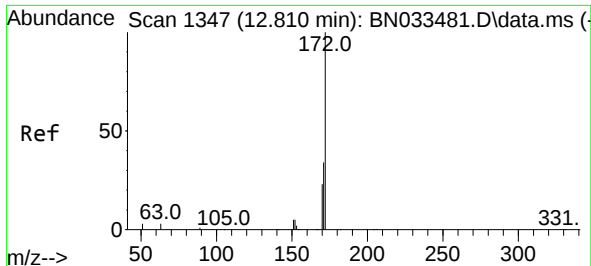


#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11



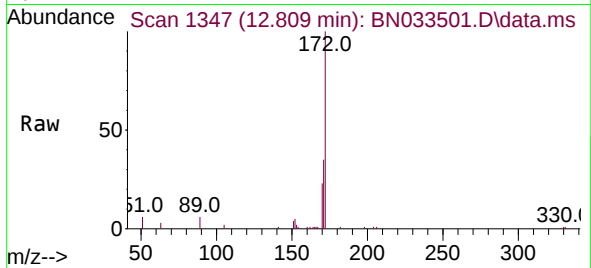
Tgt Ion:330 Resp: 1526
Ion Ratio Lower Upper
330 100
332 96.7 77.5 116.3
141 48.2 33.9 50.9





#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 12.809 min Scan# 1347
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

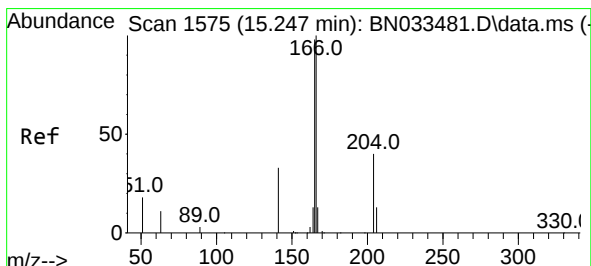
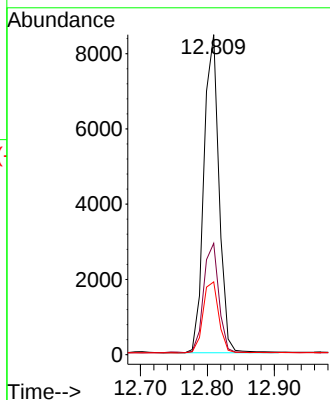
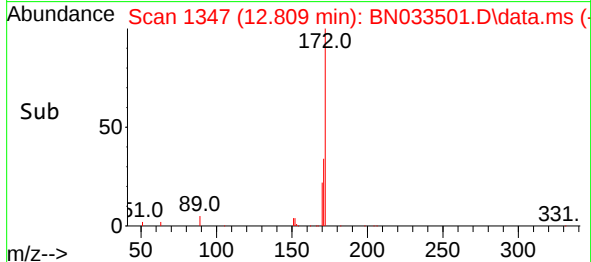
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



Tgt Ion:172 Resp: 13260
Ion Ratio Lower Upper
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171 34.8 27.7 41.5
170 22.7 18.3 27.5

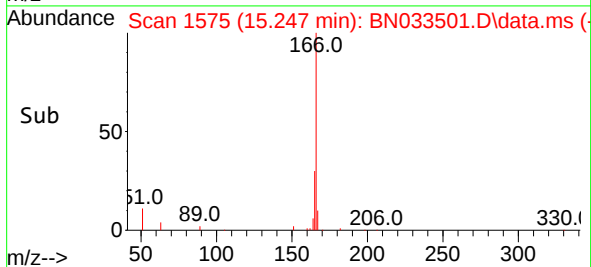
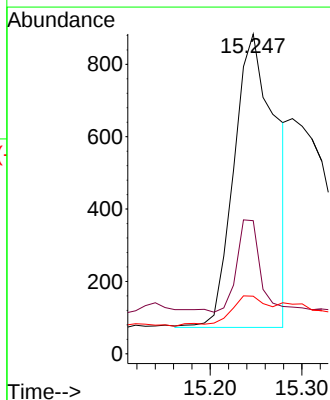
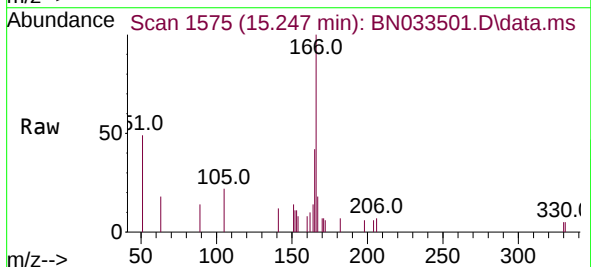
Manual Integrations
APPROVED

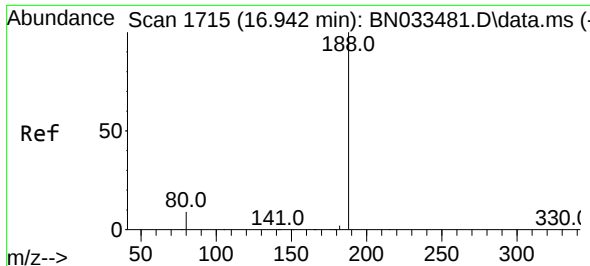
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#18
Fluorene
Concen: 0.064 ng m
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

Tgt Ion:166 Resp: 2575
Ion Ratio Lower Upper
166 100
165 18.1 78.2 117.4#
167 7.9 10.6 16.0#





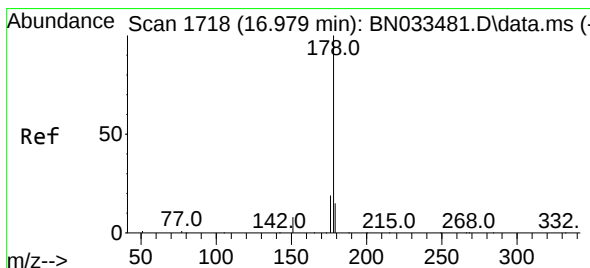
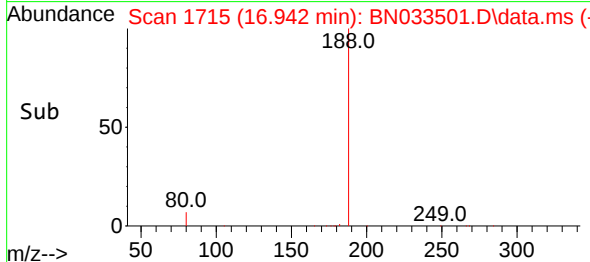
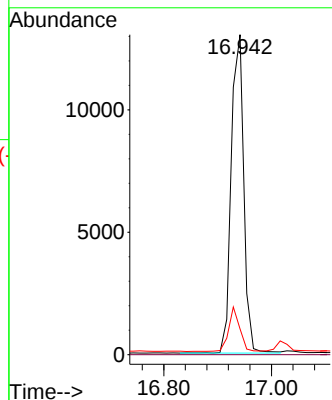
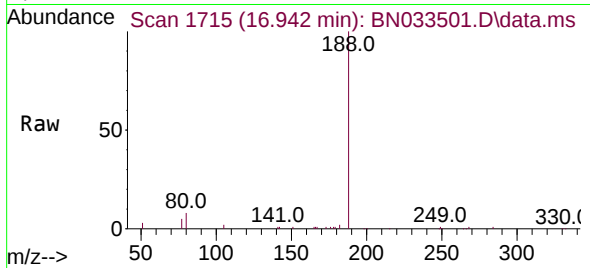
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624

Tgt Ion:188 Resp: 2095
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.1 7.8 11.8

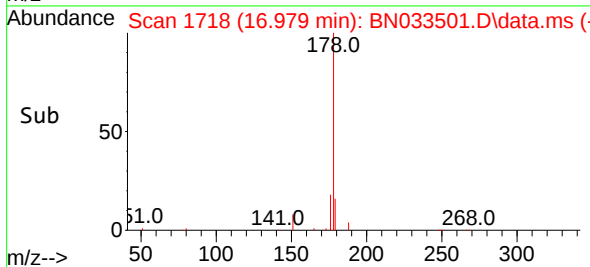
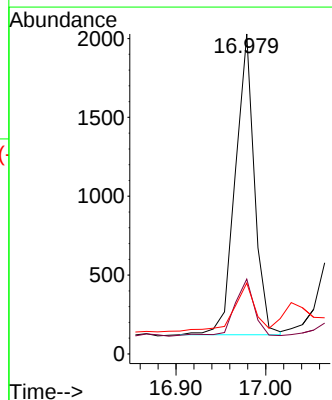
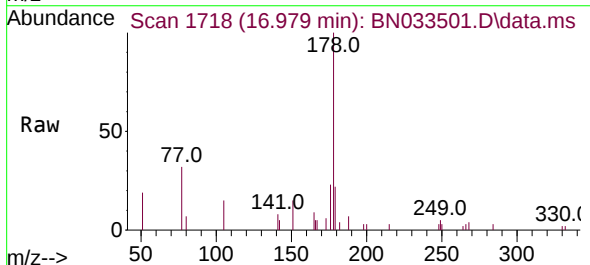
Manual Integrations
APPROVED

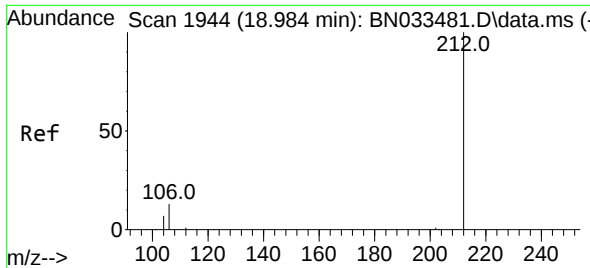
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#25
Phenanthrene
Concen: 0.048 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

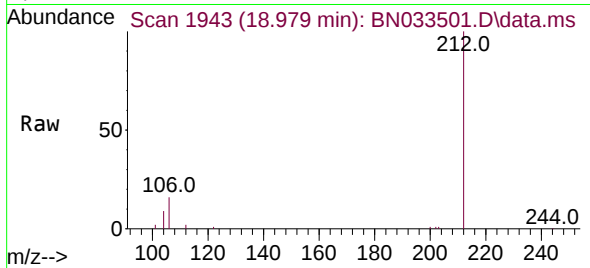
Tgt Ion:178 Resp: 2812
Ion Ratio Lower Upper
178 100
176 18.7 15.3 22.9
179 17.0 12.3 18.5





#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 18.979 min Scan# 1943
Delta R.T. -0.005 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

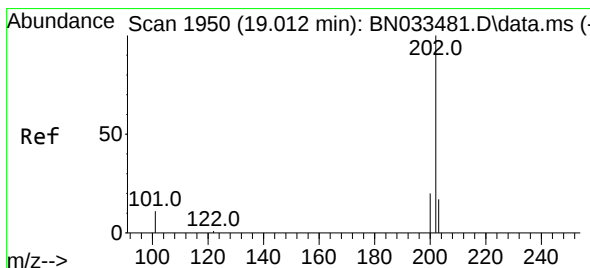
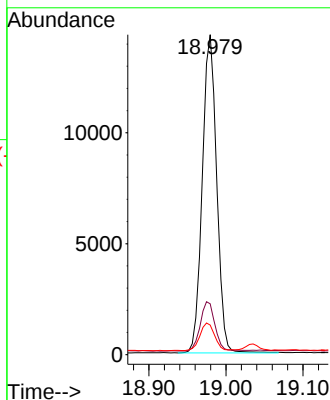
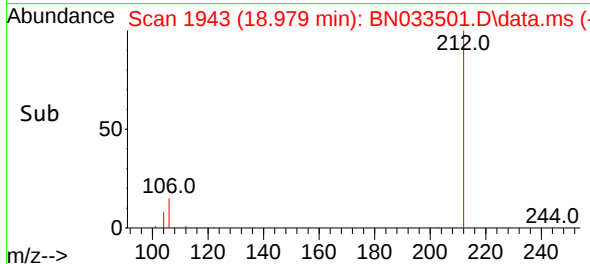
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



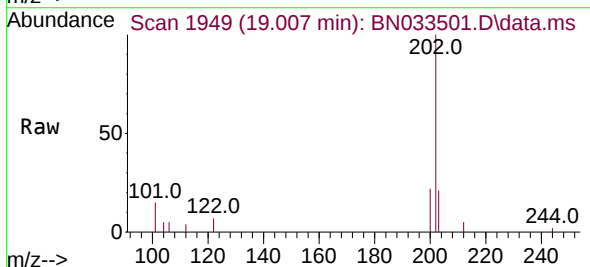
Tgt Ion:212 Resp: 18652
Ion Ratio Lower Upper
212 100
106 15.8 12.3 18.5
104 8.9 7.0 10.4

Manual Integrations
APPROVED

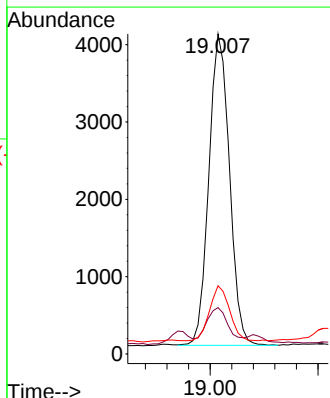
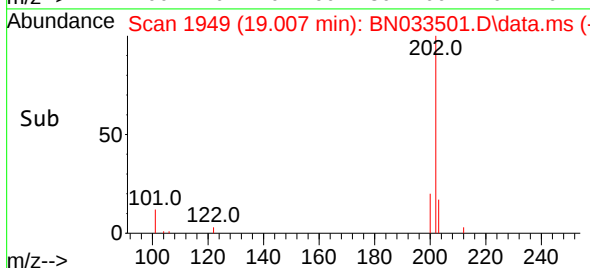
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

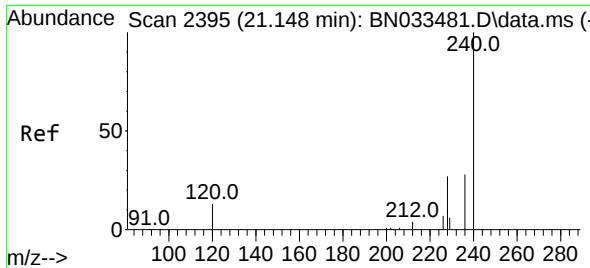


#28
Fluoranthene
Concen: 0.083 ng
RT: 19.007 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11



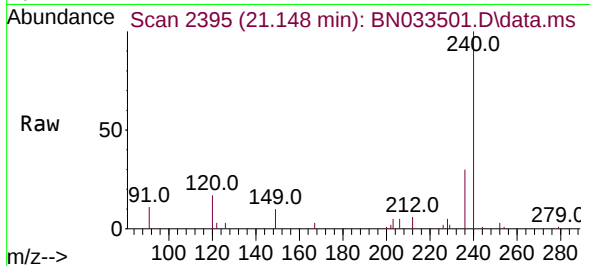
Tgt Ion:202 Resp: 5344
Ion Ratio Lower Upper
202 100
101 12.3 9.5 14.3
203 17.4 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

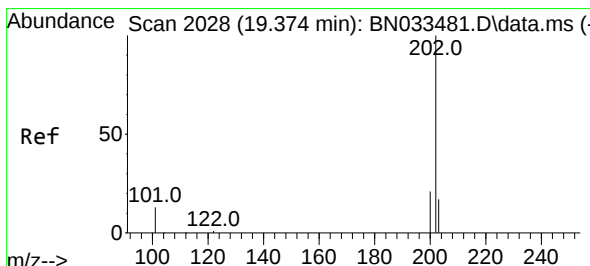
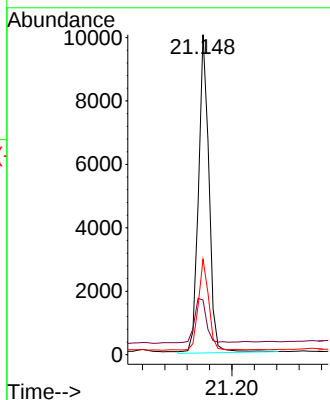
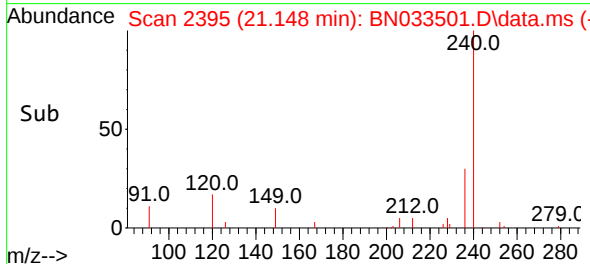
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



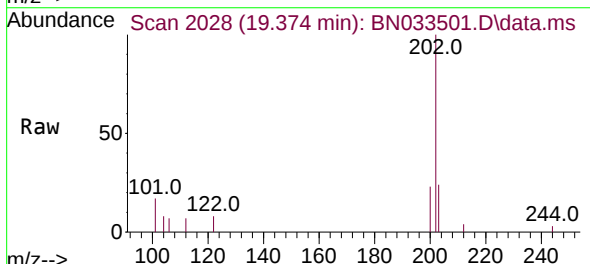
Tgt Ion:240 Resp: 13070
Ion Ratio Lower Upper
240 100
120 17.1 12.4 18.6
236 29.8 23.0 34.6

Manual Integrations
APPROVED

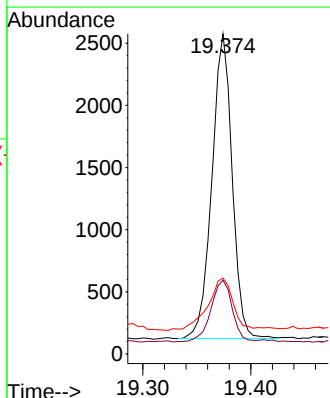
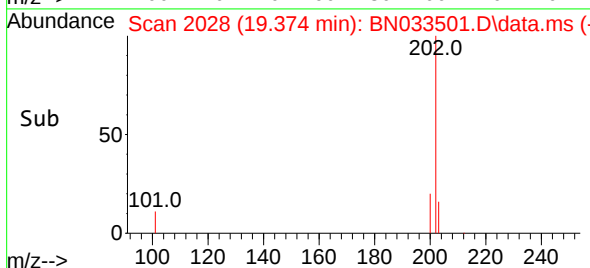
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

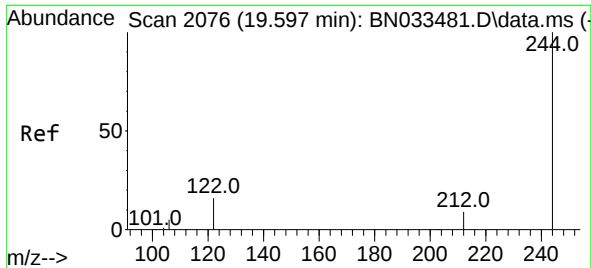


#30
Pyrene
Concen: 0.055 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11



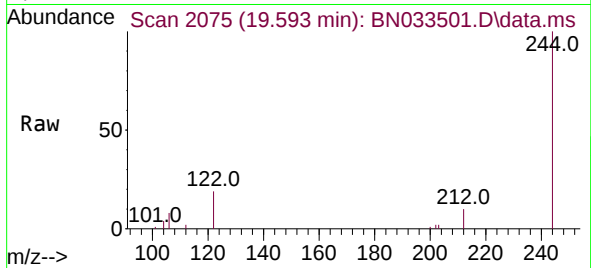
Tgt Ion:202 Resp: 3196
Ion Ratio Lower Upper
202 100
200 21.4 16.6 24.8
203 22.3 14.2 21.4#





#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.593 min Scan# 2076
Delta R.T. -0.005 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

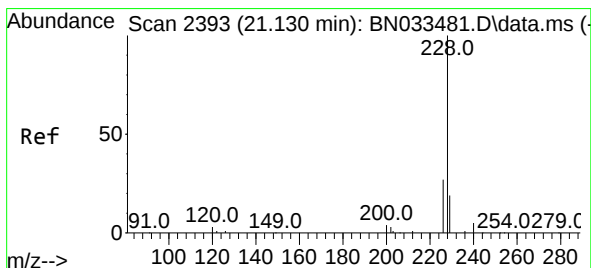
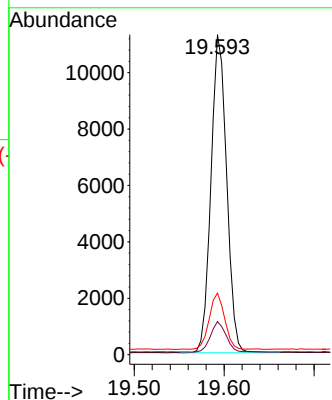
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



Tgt Ion:244 Resp: 1363
Ion Ratio Lower Upper
244 100
212 10.3 7.8 11.6
122 19.3 13.3 19.9

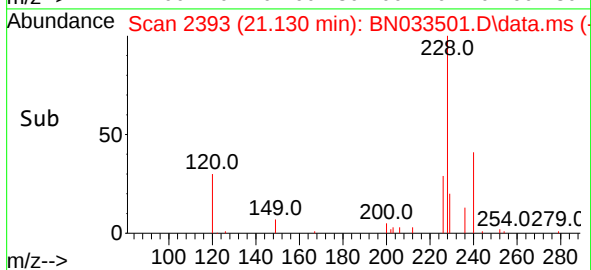
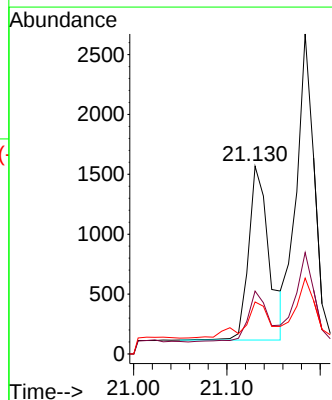
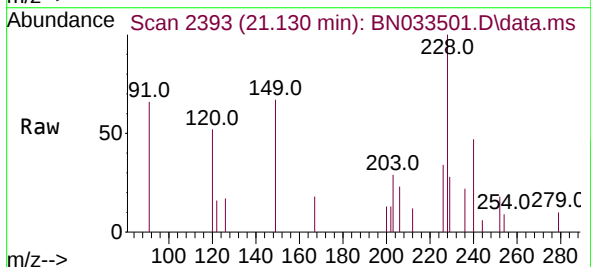
Manual Integrations
APPROVED

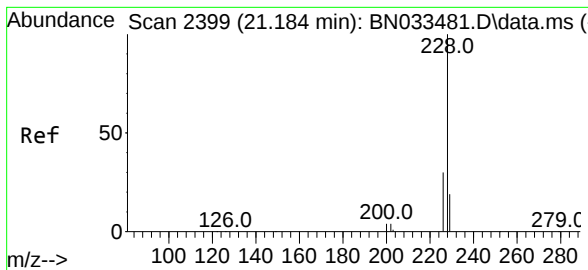
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#32
Benzo(a)anthracene
Concen: 0.047 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

Tgt Ion:228 Resp: 2216
Ion Ratio Lower Upper
228 100
226 33.5 21.8 32.6#
229 27.7 15.8 23.6#





#33

Chrysene

Concen: 0.072 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033501.D

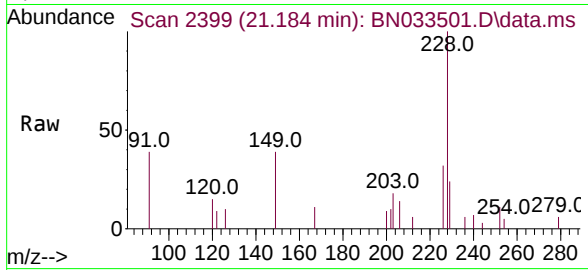
Acq: 20 Aug 2024 12:11

Instrument :

BNA_N

ClientSampleId :

917-J-WS-081624



Tgt Ion:228 Resp: 3360

Ion Ratio Lower Upper

228 100

226 31.7 23.8 35.8

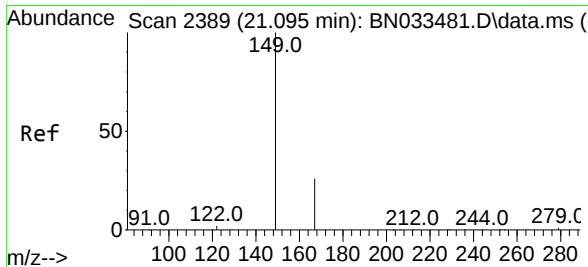
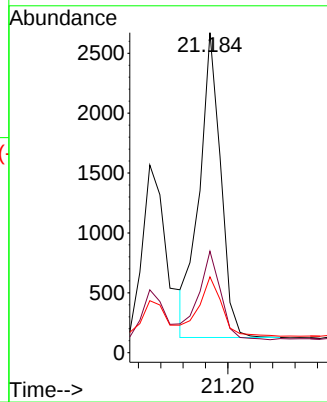
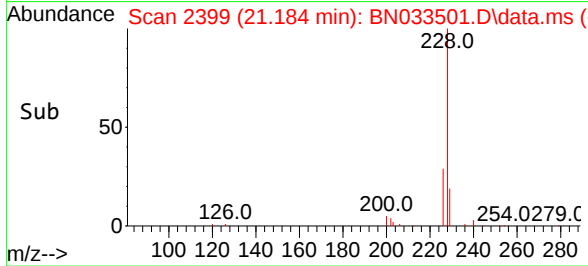
229 23.7 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.210 ng

RT: 21.094 min Scan# 2389

Delta R.T. -0.000 min

Lab File: BN033501.D

Acq: 20 Aug 2024 12:11

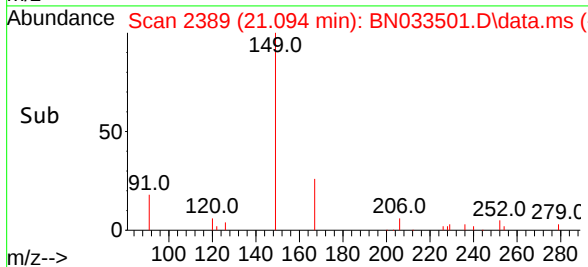
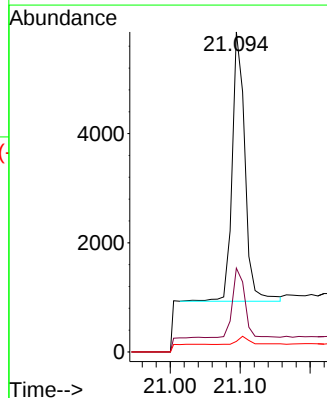
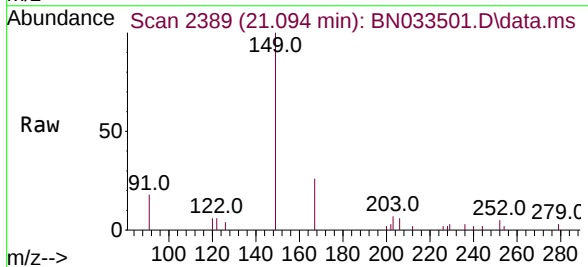
Tgt Ion:149 Resp: 6278

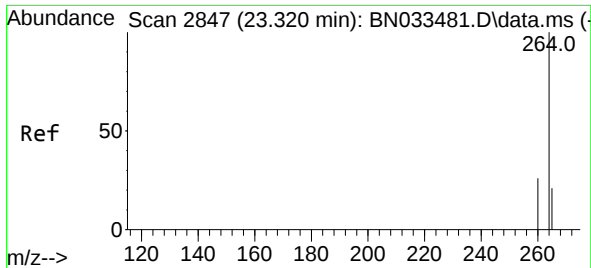
Ion Ratio Lower Upper

149 100

167 24.4 21.5 32.3

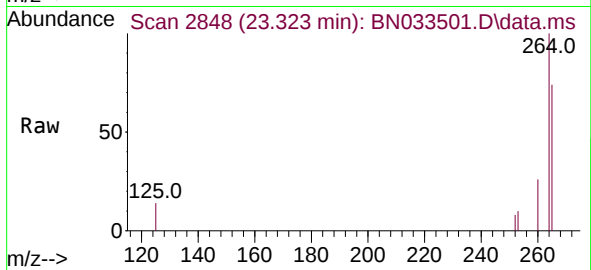
279 2.4 2.2 3.2





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.323 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

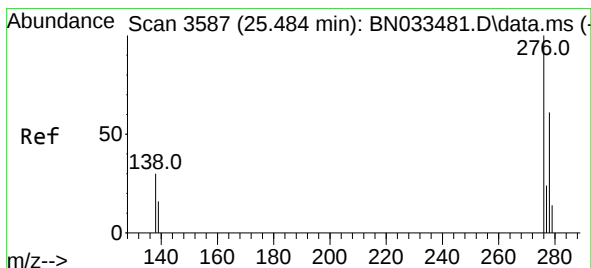
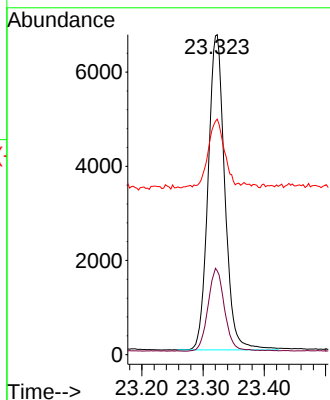
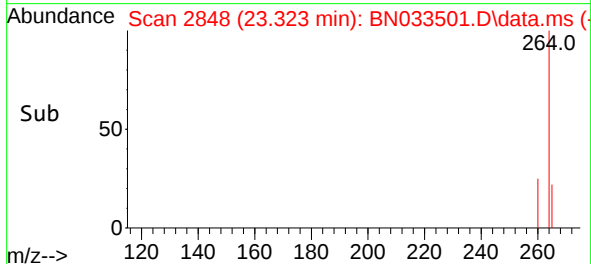
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



Tgt Ion:264 Resp: 1267
Ion Ratio Lower Upper
264 100
260 26.2 20.8 31.2
265 73.6 52.2 78.2

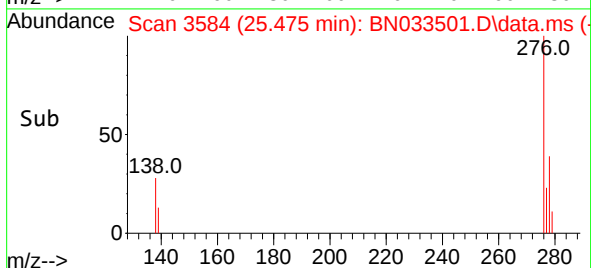
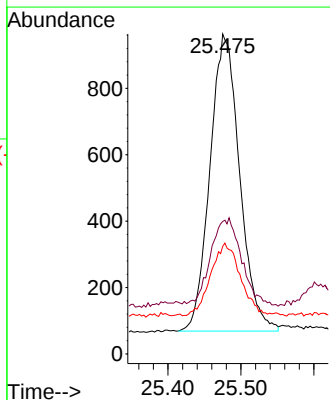
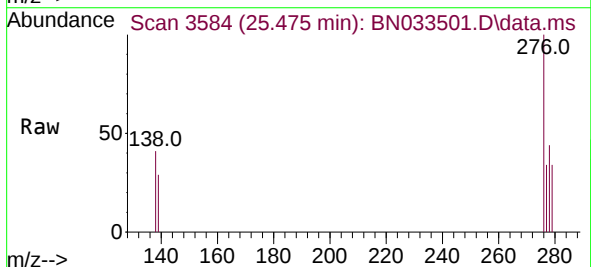
Manual Integrations
APPROVED

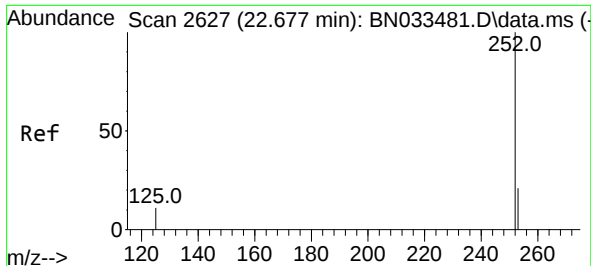
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.048 ng
RT: 25.475 min Scan# 3584
Delta R.T. -0.009 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

Tgt Ion:276 Resp: 2532
Ion Ratio Lower Upper
276 100
138 31.0 24.4 36.6
277 24.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.067 ng

RT: 22.677 min Scan# 2627

Delta R.T. -0.000 min

Lab File: BN033501.D

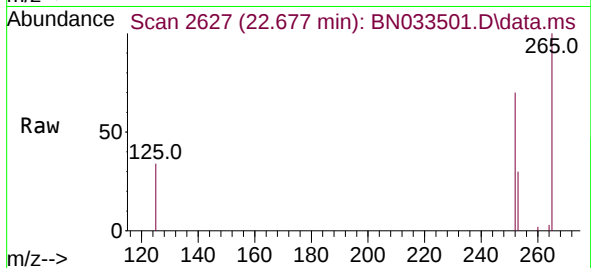
Acq: 20 Aug 2024 12:11

Instrument :

BNA_N

ClientSampleId :

917-J-WS-081624



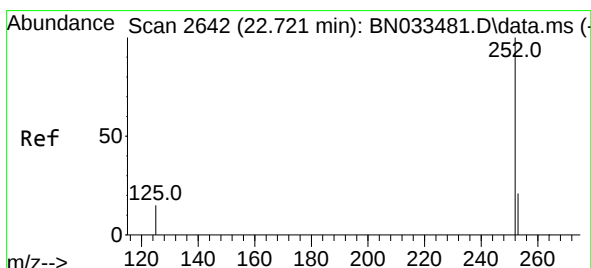
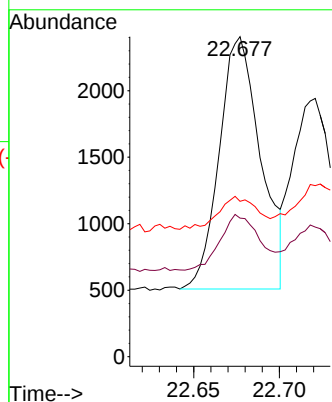
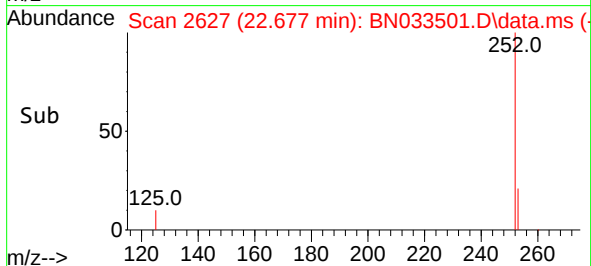
Tgt Ion:	252	Resp:	318
Ion Ratio	Lower	Upper	
252	100		
253	43.3	19.8	29.8
125	48.5	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#38

Benzo(k)fluoranthene

Concen: 0.049 ng

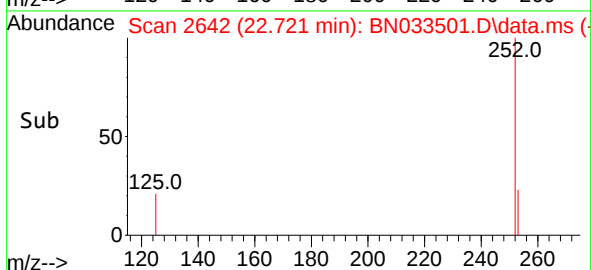
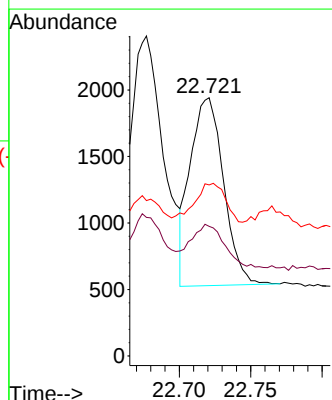
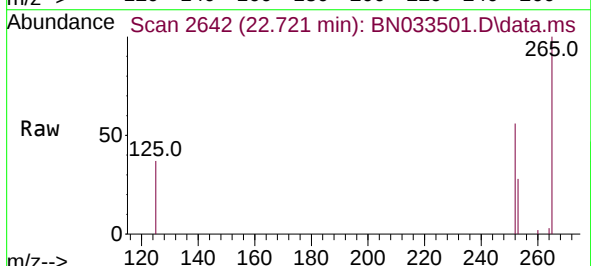
RT: 22.721 min Scan# 2642

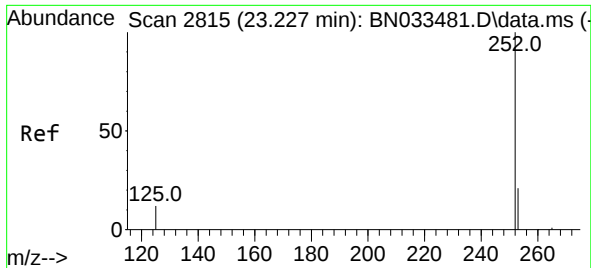
Delta R.T. -0.000 min

Lab File: BN033501.D

Acq: 20 Aug 2024 12:11

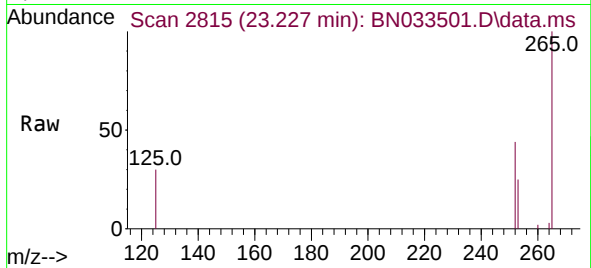
Tgt Ion:	252	Resp:	2293
Ion Ratio	Lower	Upper	
252	100		
253	50.2	19.8	29.8
125	66.2	15.8	23.8





#39
Benzo(a)pyrene
Concen: 0.046 ng
RT: 23.227 min Scan# 2815
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

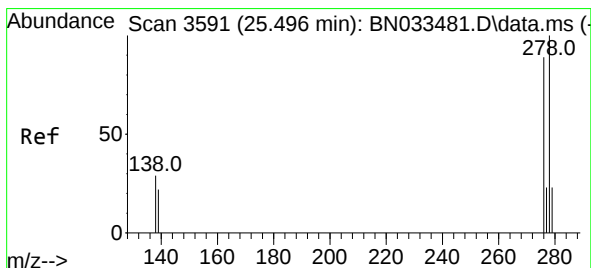
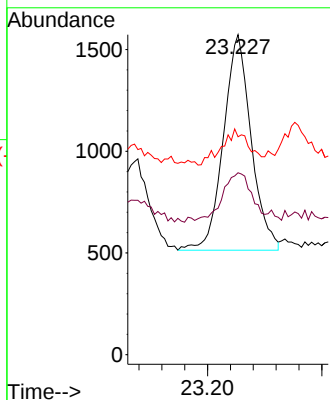
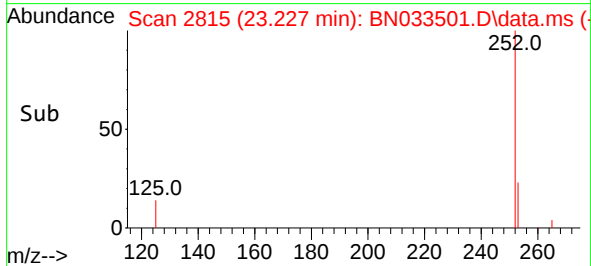
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



Tgt Ion:252 Resp: 178
Ion Ratio Lower Upper
252 100
253 56.8 21.5 32.3#
125 68.1 17.0 25.4#

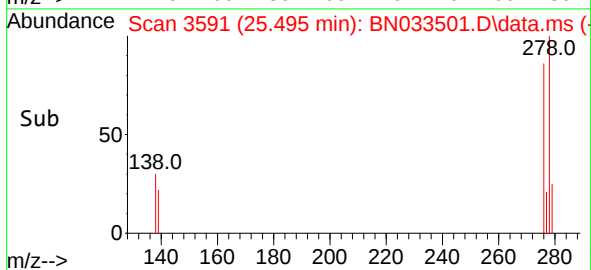
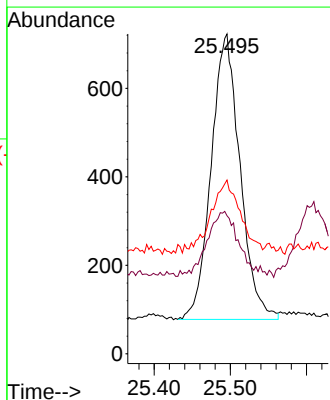
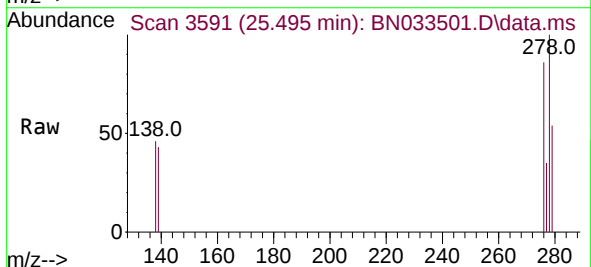
Manual Integrations
APPROVED

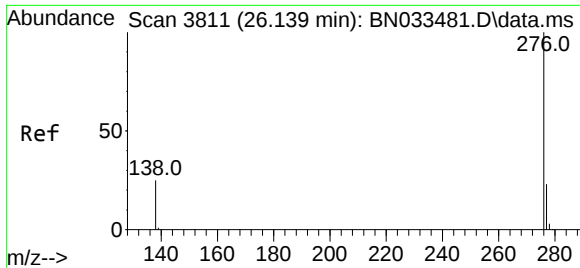
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.040 ng
RT: 25.495 min Scan# 3591
Delta R.T. -0.000 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

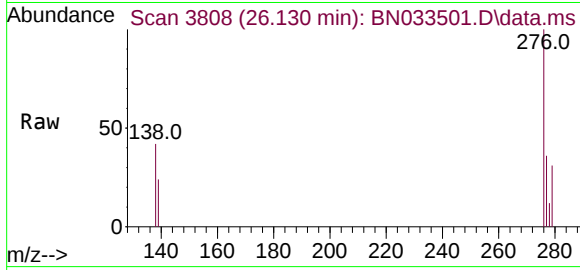
Tgt Ion:278 Resp: 1695
Ion Ratio Lower Upper
278 100
139 43.2 19.1 28.7#
279 54.4 21.0 31.4#





#41
Benzo(g,h,i)perylene
Concen: 0.050 ng
RT: 26.130 min Scan# 3808
Delta R.T. -0.009 min
Lab File: BN033501.D
Acq: 20 Aug 2024 12:11

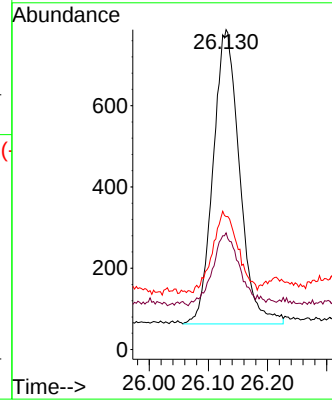
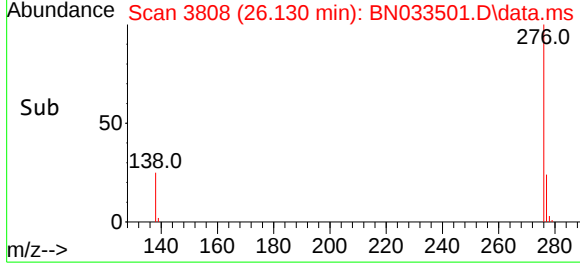
Instrument :
BNA_N
ClientSampleId :
917-J-WS-081624



Tgt Ion: 276 Resp: 224
Ion Ratio Lower Upper
276 100
277 36.5 19.7 29.5
138 41.6 21.8 32.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024





CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN081924.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Aug 19 23:32:18 2024
 Response Via : Initial Calibration

Calibration Files

0.1 =BN033479.D 0.2 =BN033480.D 0.4 =BN033481.D 0.8 =BN033482.D 1.6 =BN033483.D 3.2 =BN033484.D 5.0 =BN033485.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	0.523	0.513	0.329	0.524	0.488	0.452	0.393	0.460	16.21
3)	n-Nitrosodimet...	0.545	0.550	0.456	0.615	0.575	0.521	0.485	0.535	10.02
4) S	2-Fluorophenol	1.276	1.281	1.267	1.350	1.327	1.196	1.202	1.271	4.52
5) S	Phenol-d6	1.555	1.576	1.360	1.677	1.598	1.464	1.357	1.512	8.10
6)	bis(2-Chloroet...	1.170	1.144	0.753	1.227	1.166	1.067	0.980	1.072	15.13
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.341	0.324	0.303	0.352	0.345	0.322	0.334	0.332	4.96
9)	Naphthalene	1.082	1.068	0.947	1.155	1.127	1.042	1.062	1.069	6.23
10)	Hexachlorobuta...	0.217	0.213	0.192	0.230	0.225	0.207	0.209	0.213	5.86
11) SURR2	Methylnaphth...	0.577	0.566	0.492	0.616	0.603	0.566	0.585	0.572	6.97
12)	2-Methylnaphth...	0.665	0.667	0.586	0.732	0.716	0.678	0.693	0.677	6.98
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.212	0.202	0.185	0.220	0.226	0.223	0.237	0.215	8.02
15) S	2-Fluorobiphenyl	1.627	1.601	1.487	1.761	1.731	1.609	1.621	1.634	5.52
16)	Acenaphthylene	1.626	1.609	1.535	1.870	1.893	1.837	1.911	1.754	9.00
17)	Acenaphthene	1.185	1.177	1.104	1.325	1.322	1.249	1.277	1.234	6.67
18)	Fluorene	1.558	1.483	1.381	1.667	1.647	1.567	1.584	1.555	6.30
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.051	0.051	0.051	0.064	0.069	0.072	0.079	0.062	18.77
21)	4-Bromophenyl-...	0.241	0.231	0.222	0.255	0.255	0.246	0.250	0.243	5.16
22)	Hexachlorobenzene	0.271	0.260	0.249	0.281	0.280	0.266	0.271	0.268	4.22
23)	Atrazine	0.188	0.184	0.173	0.201	0.203	0.198	0.210	0.194	6.52
24)	Pentachlorophenol	0.114	0.098	0.097	0.118	0.122	0.128	0.137	0.116	12.80
25)	Phenanthrene	1.093	1.067	1.033	1.177	1.168	1.113	1.139	1.113	4.73
26)	Anthracene	0.931	0.912	0.876	1.035	1.046	1.035	1.057	0.985	7.65
27) SURR	Fluoranthene-d10	0.947	0.919	0.870	1.011	1.015	0.968	1.000	0.961	5.55
28)	Fluoranthene	1.178	1.153	1.106	1.303	1.313	1.266	1.288	1.230	6.71
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.756	1.763	1.704	1.901	1.855	1.751	1.767	1.785	3.82
31) S	Terphenyl-d14	0.907	0.896	0.862	0.966	0.943	0.890	0.900	0.909	3.80
32)	Benzo(a)anthra...	1.485	1.369	1.317	1.525	1.529	1.426	1.472	1.446	5.53
33)	Chrysene	1.435	1.392	1.331	1.557	1.514	1.403	1.430	1.437	5.30
34)	Bis(2-ethylhex...	1.206	0.914	0.814	0.870	0.869	0.845	0.889	0.915	14.43
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN081924.M

36)	Indeno(1,2,3-c...	1.616	1.580	1.535	1.779	1.759	1.661	1.694	1.661	5.45
37)	Benzo(b)fluora...	1.524	1.432	1.336	1.578	1.573	1.480	1.533	1.494	5.78
38)	Benzo(k)fluora...	1.439	1.393	1.324	1.556	1.576	1.492	1.512	1.470	6.14
39) C	Benzo(a)pyrene	1.228	1.162	1.096	1.309	1.317	1.251	1.290	1.236	6.63
40)	Dibenzo(a,h)an...	1.283	1.264	1.231	1.426	1.410	1.329	1.352	1.328	5.56
41)	Benzo(g,h,i)pe...	1.399	1.372	1.296	1.518	1.506	1.413	1.436	1.420	5.42

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033479.D
 Acq On : 19 Aug 2024 16:16
 Operator : MA/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Aug 19 23:22:00 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

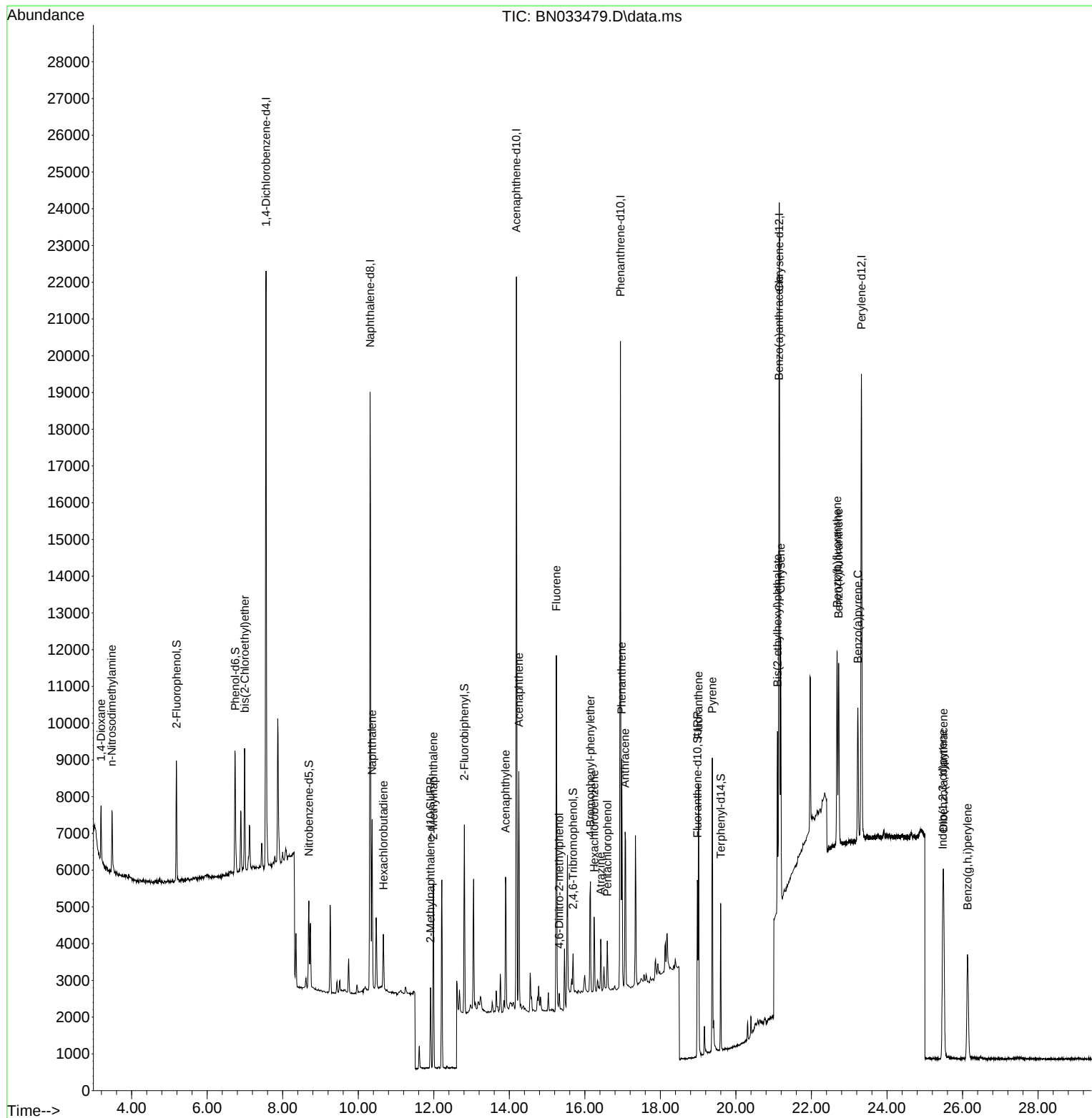
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	7803	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	20827	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	10562	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	22120	0.400	ng	0.00
29) Chrysene-d12	21.148	240	15512	0.400	ng	0.00
35) Perylene-d12	23.323	264	15840	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	2489	0.113	ng	0.00
5) Phenol-d6	6.743	99	3034	0.106	ng	0.00
8) Nitrobenzene-d5	8.691	82	1778	0.113	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	3002	0.096	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	561	0.104	ng	0.00
15) 2-Fluorobiphenyl	12.809	172	4295	0.100	ng	0.00
27) Fluoranthene-d10	18.984	212	5237	0.090	ng	0.00
31) Terphenyl-d14	19.597	244	3516	0.118	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.190	88	1020	0.121	ng	# 89
3) n-Nitrosodimethylamine	3.479	42	1063	0.098	ng	# 97
6) bis(2-Chloroethyl)ether	6.996	93	2282	0.102	ng	99
9) Naphthalene	10.368	128	5632	0.100	ng	97
10) Hexachlorobutadiene	10.667	225	1131	0.104	ng	# 100
12) 2-Methylnaphthalene	11.990	142	3460	0.091	ng	97
16) Acenaphthylene	13.900	152	4294	0.088	ng	100
17) Acenaphthene	14.253	154	3128	0.094	ng	99
18) Fluorene	15.247	166	4115	0.094	ng	97
20) 4,6-Dinitro-2-methylph...	15.322	198	282	0.102	ng	# 1
21) 4-Bromophenyl-phenylether	16.147	248	1335	0.101	ng	96
22) Hexachlorobenzene	16.247	284	1497	0.102	ng	100
23) Atrazine	16.420	200	1042	0.099	ng	95
24) Pentachlorophenol	16.594	266	633	0.105	ng	94
25) Phenanthrene	16.979	178	6046	0.096	ng	99
26) Anthracene	17.066	178	5150	0.092	ng	100
28) Fluoranthene	19.012	202	6515	0.085	ng	97
30) Pyrene	19.374	202	6809	0.109	ng	98
32) Benzo(a)anthracene	21.139	228	5757	0.100	ng	98
33) Chrysene	21.184	228	5565	0.097	ng	97
34) Bis(2-ethylhexyl)phtha...	21.103	149	4678	0.170	ng	97
36) Indeno(1,2,3-cd)pyrene	25.478	276	6399	0.097	ng	99
37) Benzo(b)fluoranthene	22.680	252	6036	0.102	ng	# 69
38) Benzo(k)fluoranthene	22.721	252	5699	0.095	ng	# 70
39) Benzo(a)pyrene	23.230	252	4861	0.097	ng	# 66
40) Dibenzo(a,h)anthracene	25.498	278	5079	0.098	ng	# 85
41) Benzo(g,h,i)perylene	26.133	276	5542	0.097	ng	# 88

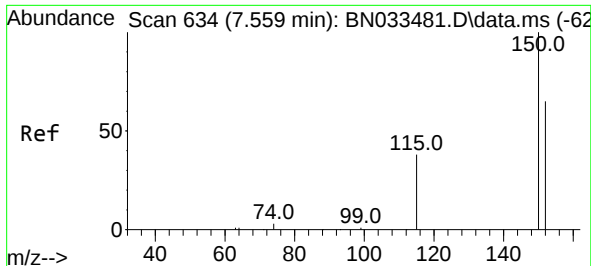
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033479.D
Acq On : 19 Aug 2024 16:16
Operator : MA/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Aug 19 23:22:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

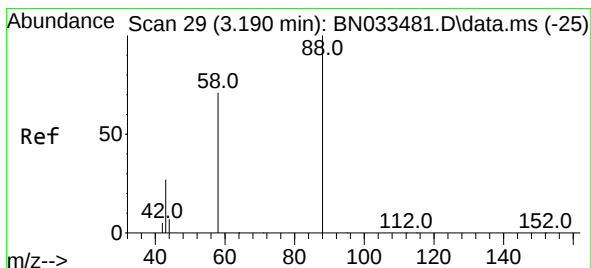
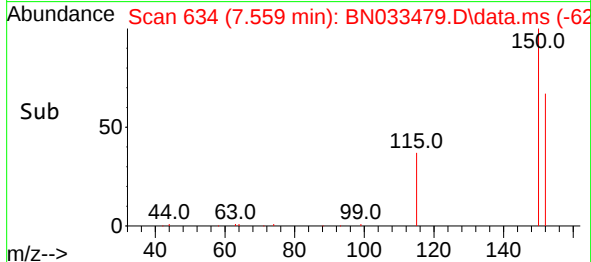
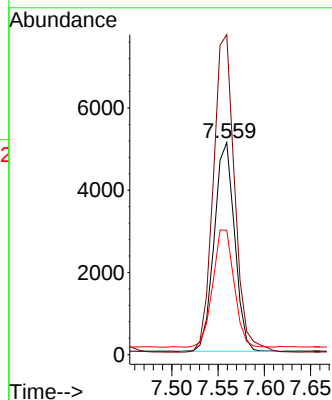
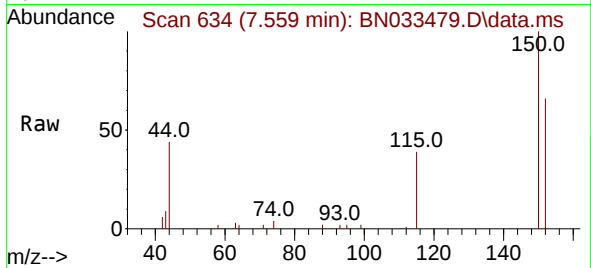




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.559 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN033479.D
 Acq: 19 Aug 2024 16:16

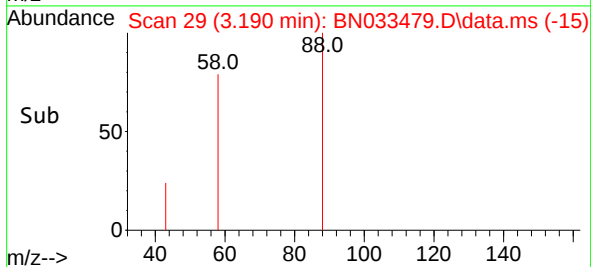
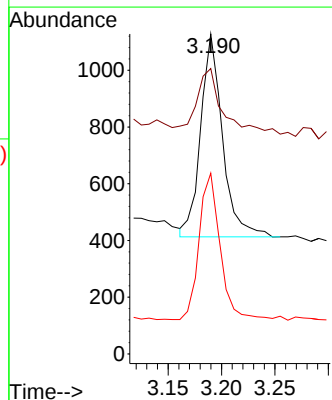
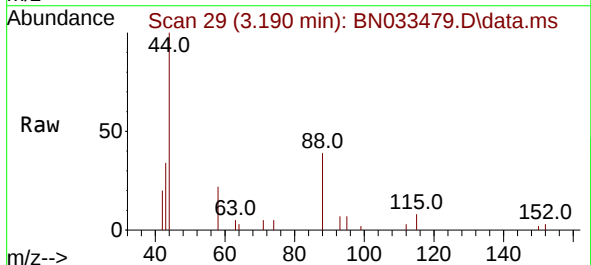
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

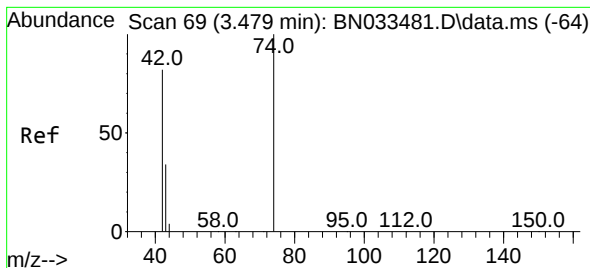
Tgt Ion:152 Resp: 7803
 Ion Ratio Lower Upper
 152 100
 150 150.8 122.2 183.2
 115 58.6 47.2 70.8



#2
 1,4-Dioxane
 Concen: 0.121 ng
 RT: 3.190 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: BN033479.D
 Acq: 19 Aug 2024 16:16

Tgt Ion: 88 Resp: 1020
 Ion Ratio Lower Upper
 88 100
 43 38.9 25.0 37.4#
 58 69.0 62.5 93.7





#3

n-Nitrosodimethylamine

Concen: 0.098 ng

RT: 3.479 min Scan# 69

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

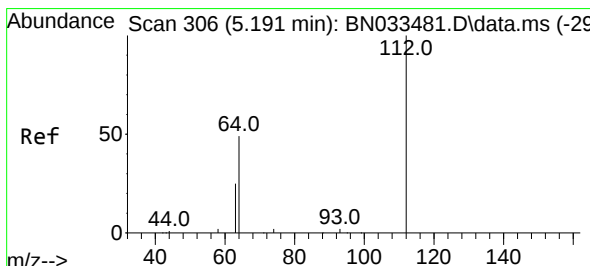
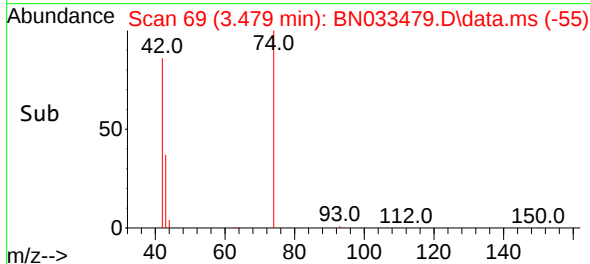
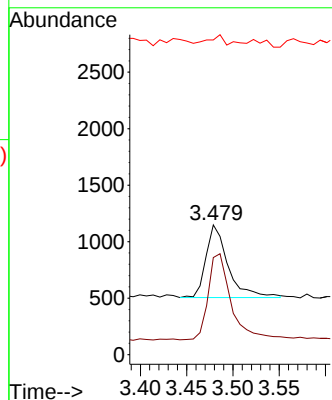
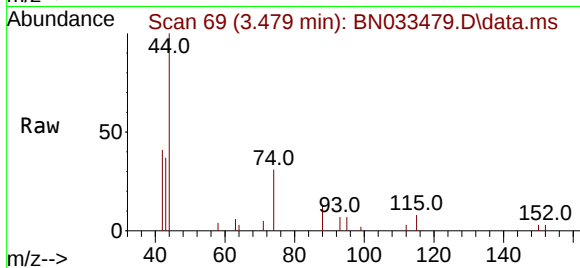
Tgt Ion: 42 Resp: 1063

Ion Ratio Lower Upper

42 100

74 123.1 100.2 150.2

44 14.2 5.3 7.9#



#4

2-Fluorophenol

Concen: 0.113 ng

RT: 5.190 min Scan# 306

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

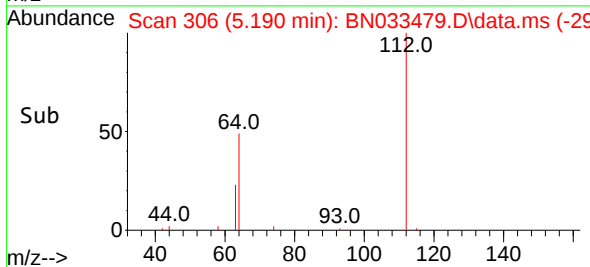
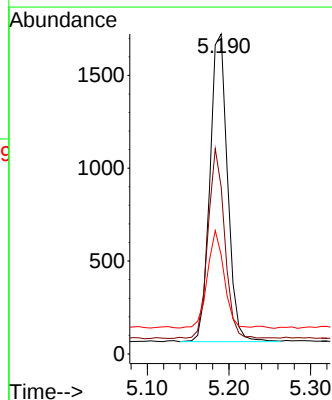
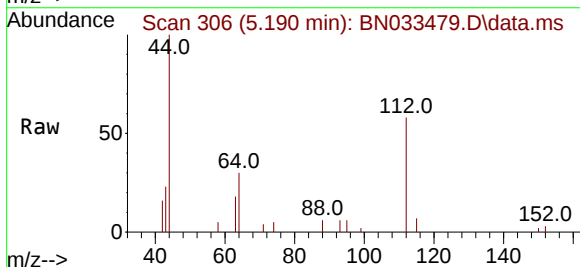
Tgt Ion: 112 Resp: 2489

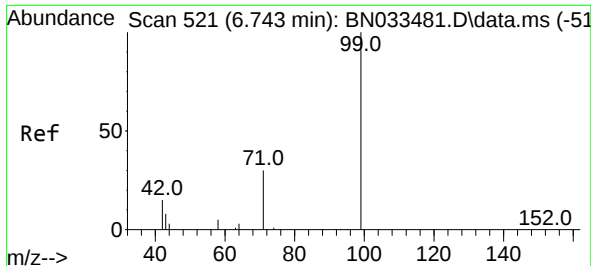
Ion Ratio Lower Upper

112 100

64 58.5 47.1 70.7

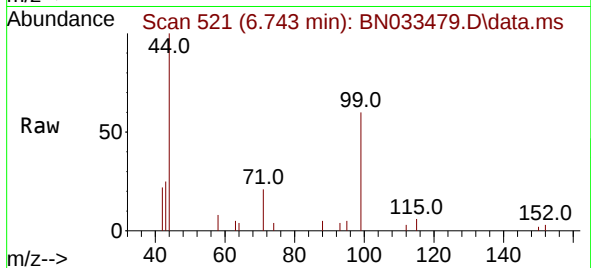
63 29.9 24.9 37.3



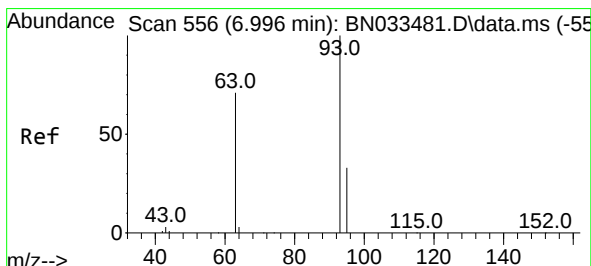
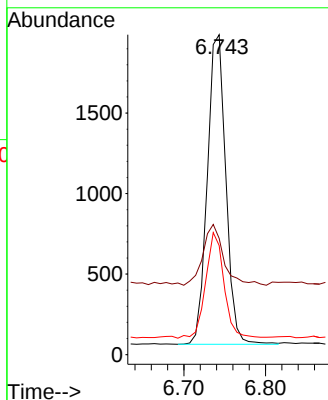
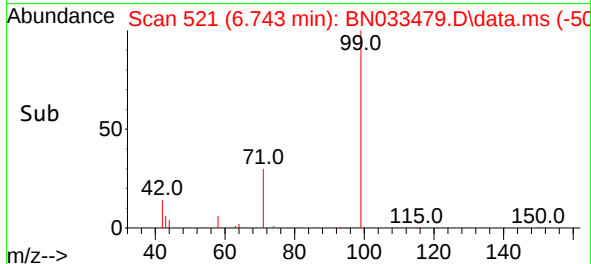


#5
Phenol-d6
Concen: 0.106 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

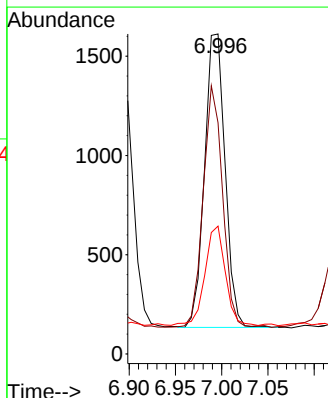
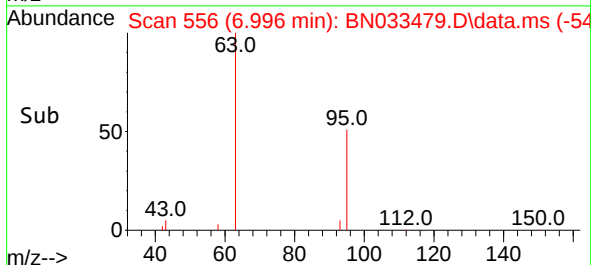
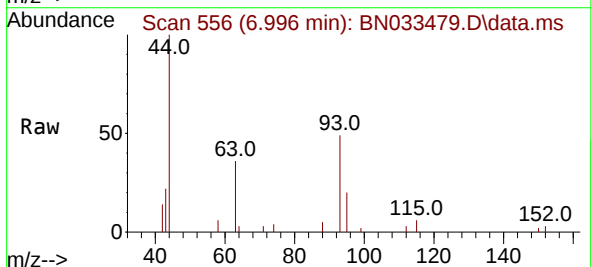


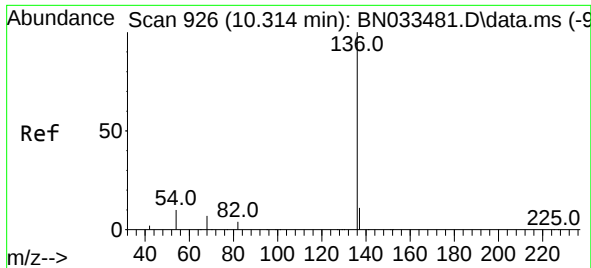
Tgt Ion: 99 Resp: 3034
Ion Ratio Lower Upper
99 100
42 21.8 16.6 24.8
71 34.0 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion: 93 Resp: 2282
Ion Ratio Lower Upper
93 100
63 78.0 63.0 94.4
95 33.4 26.0 39.0

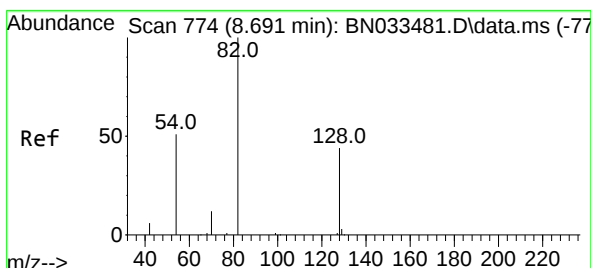
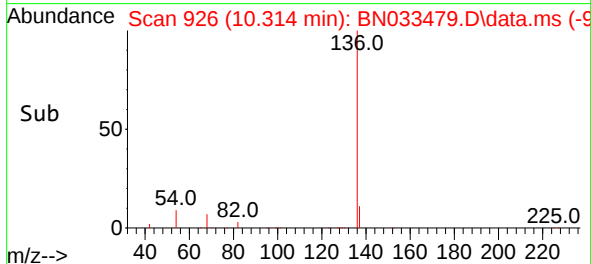
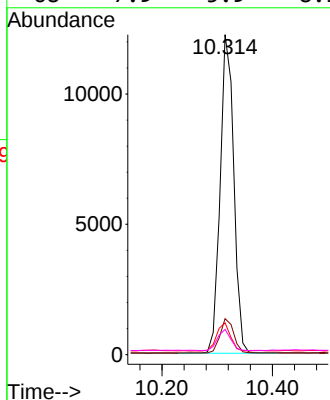
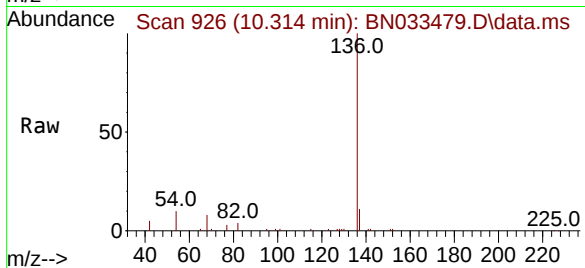




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

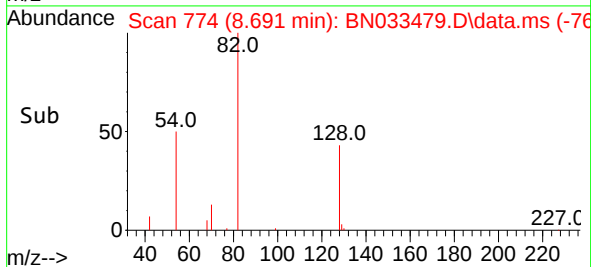
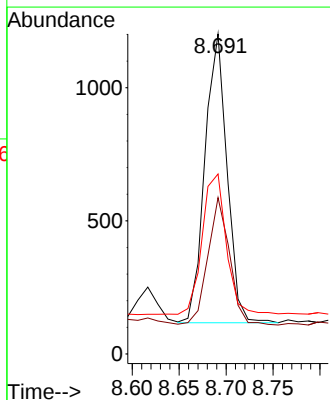
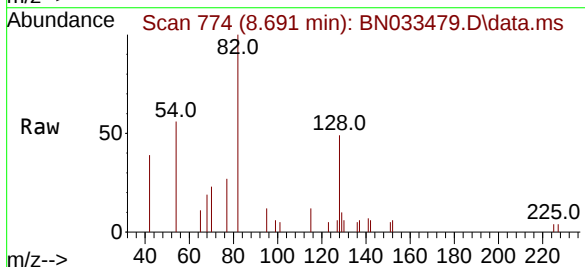
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

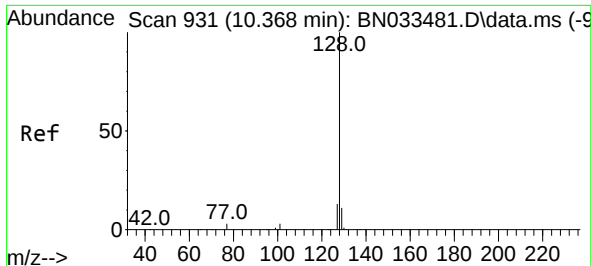
Tgt Ion:	136	Resp:	20827
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	10.0	8.3	12.5
68	7.9	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.113 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:	82	Resp:	1778
Ion	Ratio	Lower	Upper
82	100		
128	48.8	36.0	54.0
54	56.2	42.0	63.0

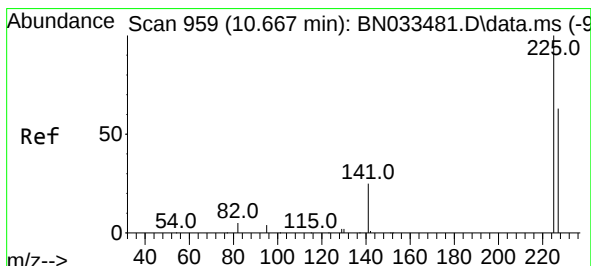
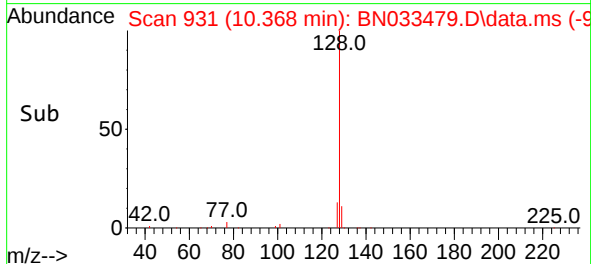
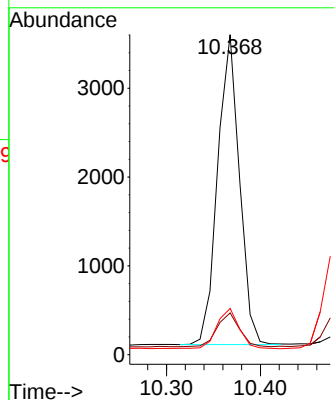
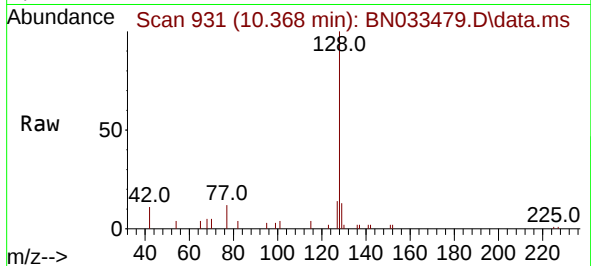




#9
Naphthalene
Concen: 0.100 ng
RT: 10.368 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

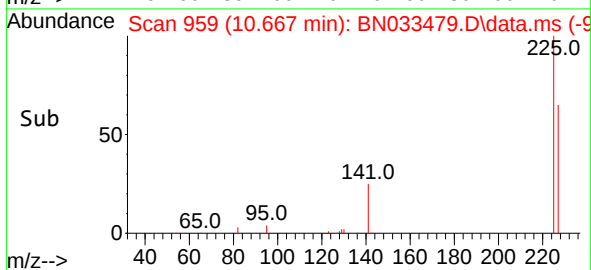
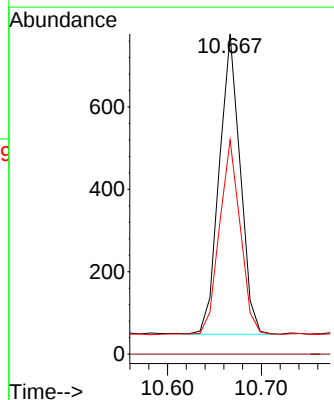
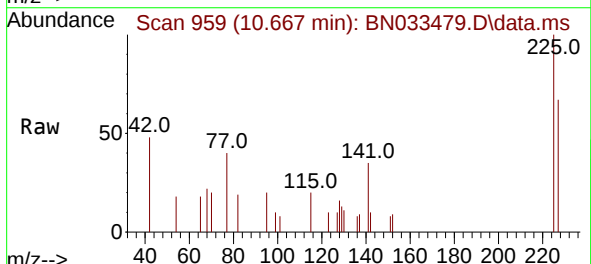
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

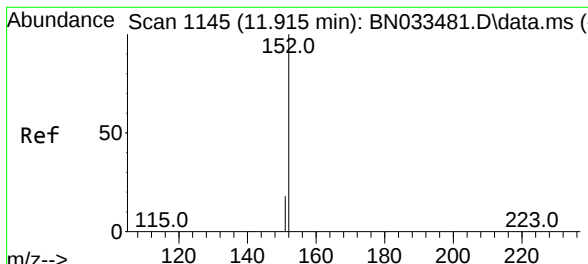
Tgt Ion:	128	Resp:	5632
Ion Ratio	Lower	Upper	
128	100		
129	13.1	9.1	13.7
127	14.5	10.7	16.1



#10
Hexachlorobutadiene
Concen: 0.104 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:	225	Resp:	1131
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.1	51.2	76.8

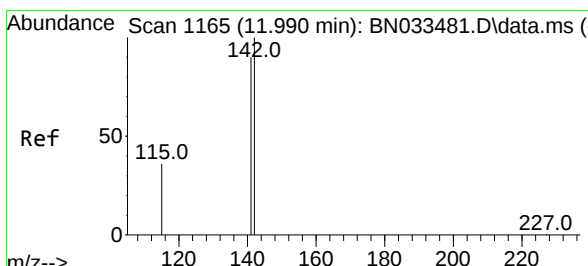
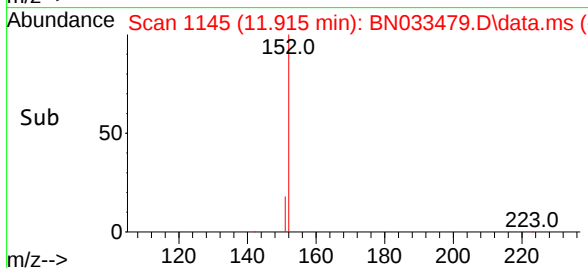
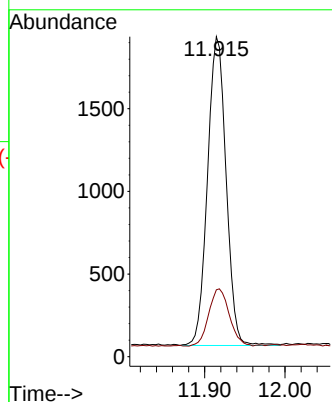
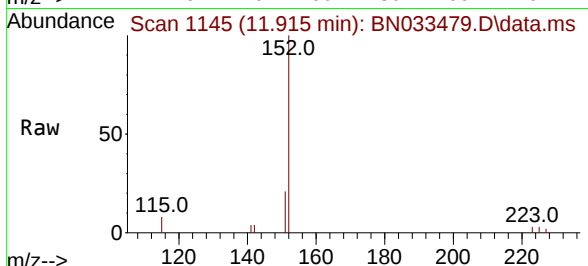




#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

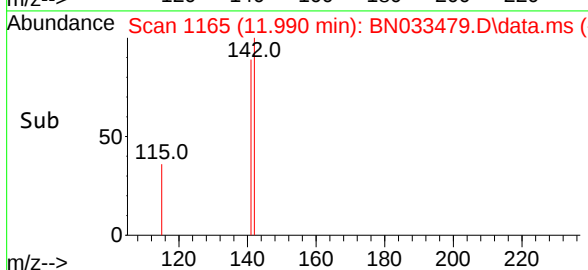
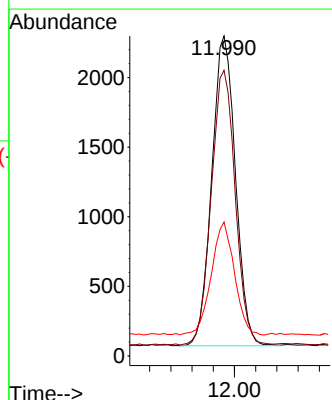
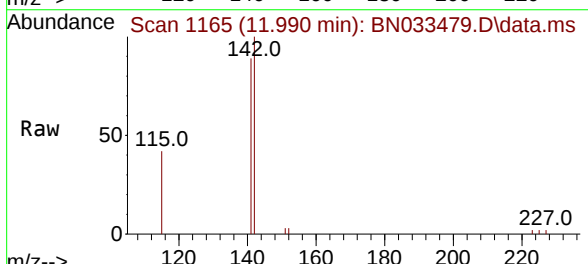
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

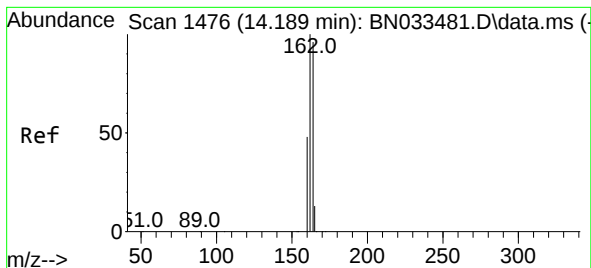
Tgt Ion:152 Resp: 3002
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.091 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:142 Resp: 3460
Ion Ratio Lower Upper
142 100
141 89.3 71.7 107.5
115 41.8 29.4 44.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.189 min Scan# 1476

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

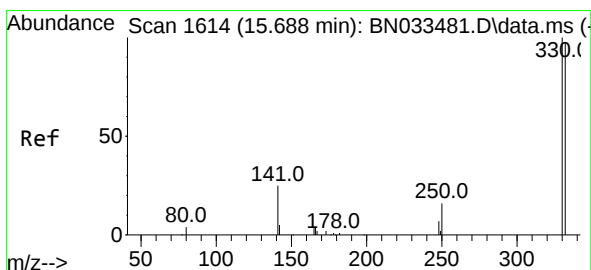
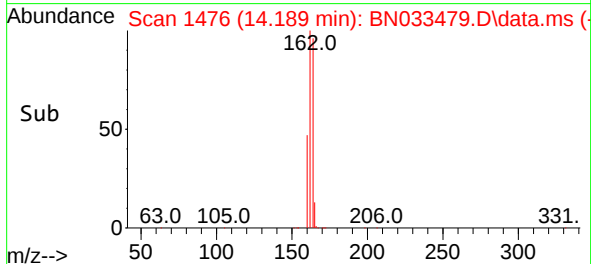
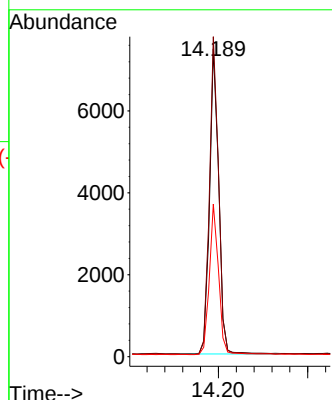
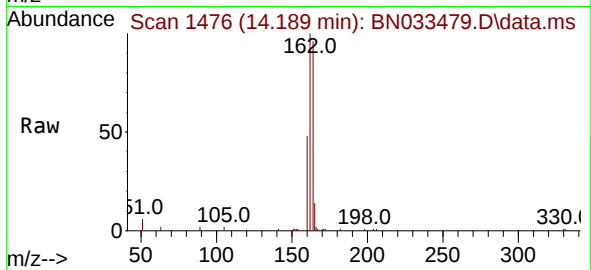
Tgt Ion:164 Resp: 10562

Ion Ratio Lower Upper

164 100

162 103.9 83.5 125.3

160 49.6 40.2 60.4



#14

2,4,6-Tribromophenol

Concen: 0.104 ng

RT: 15.688 min Scan# 1614

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

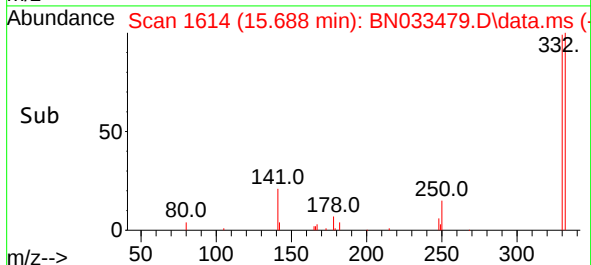
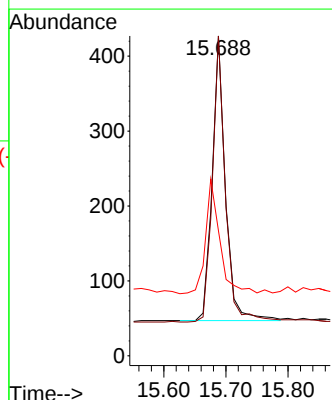
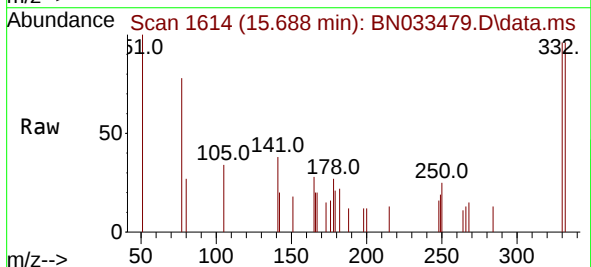
Tgt Ion:330 Resp: 561

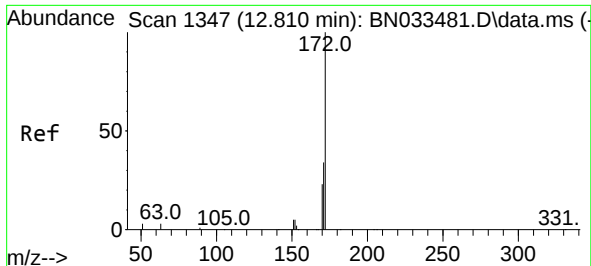
Ion Ratio Lower Upper

330 100

332 99.1 77.5 116.3

141 43.9 33.9 50.9

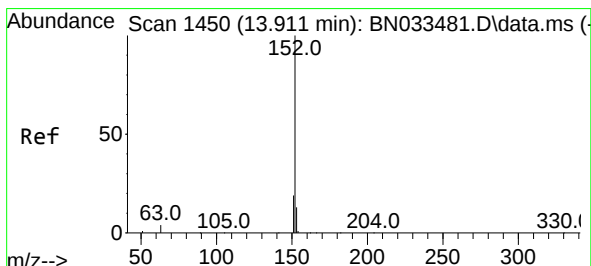
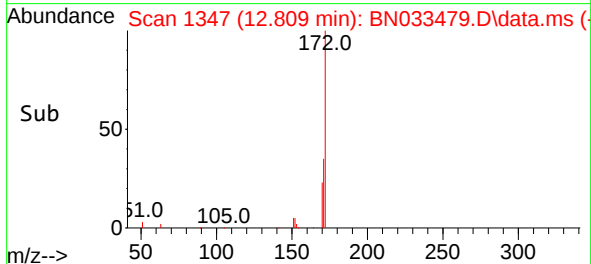
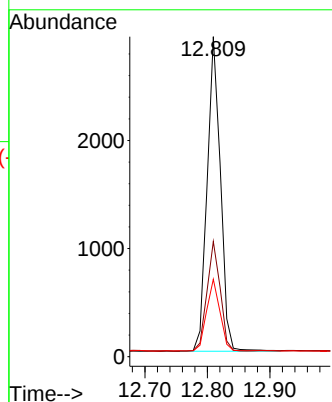
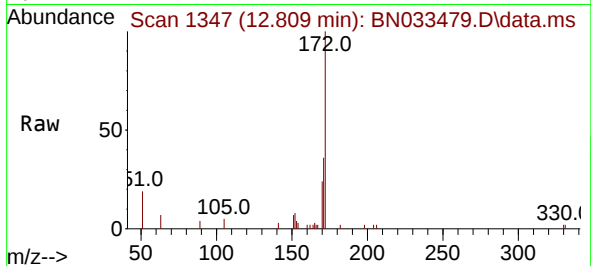




#15
2-Fluorobiphenyl
Concen: 0.100 ng
RT: 12.809 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

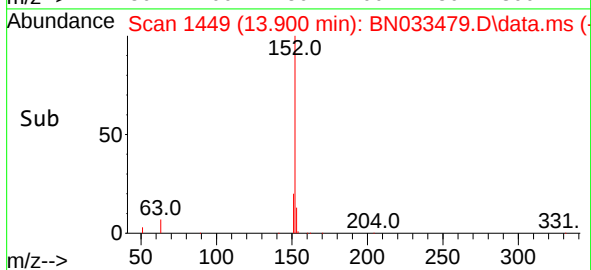
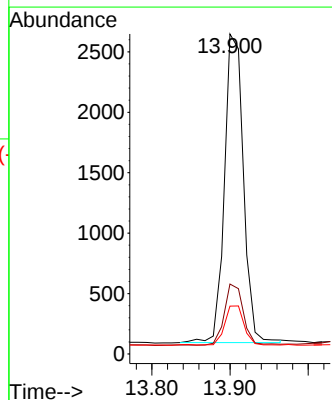
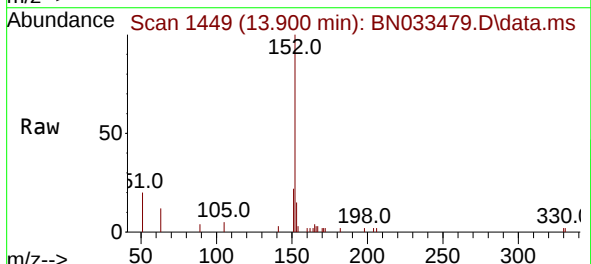
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

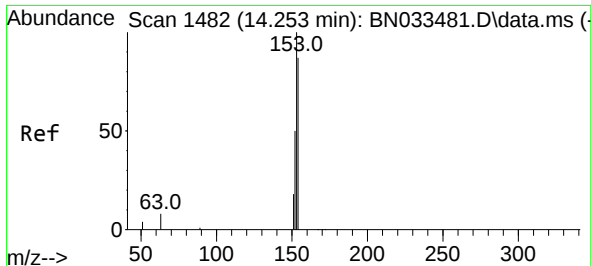
Tgt Ion:	172	Resp:	4295
Ion	Ratio	Lower	Upper
172	100		
171	36.0	27.7	41.5
170	24.2	18.3	27.5



#16
Acenaphthylene
Concen: 0.088 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:	152	Resp:	4294
Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.7	23.5
153	12.8	10.3	15.5

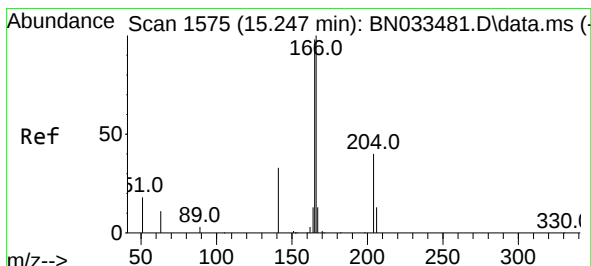
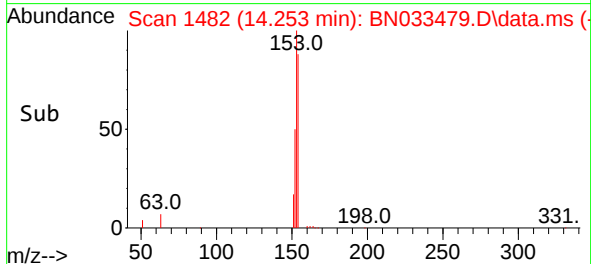
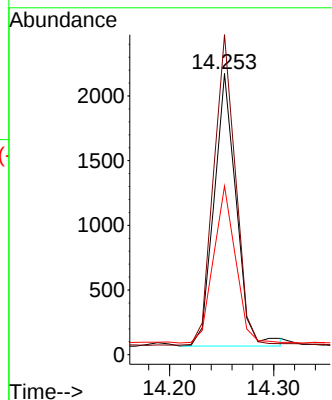
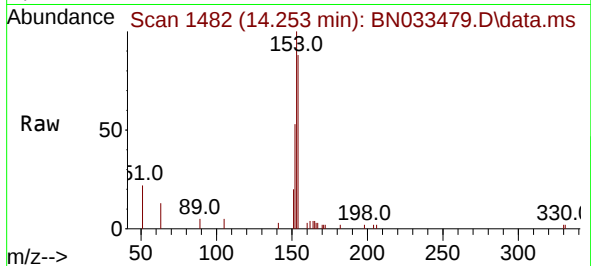




#17
Acenaphthene
Concen: 0.094 ng
RT: 14.253 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

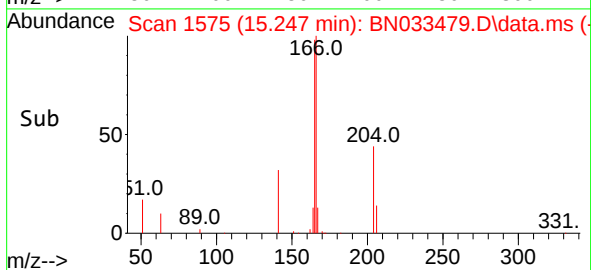
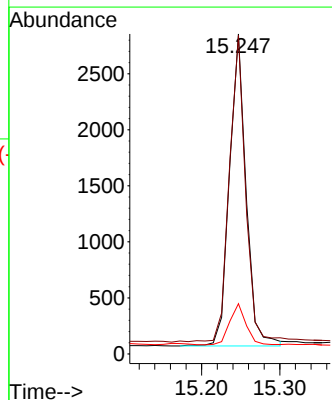
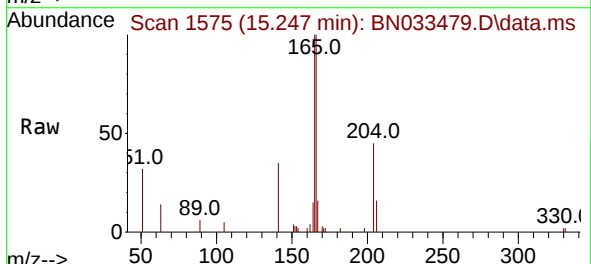
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

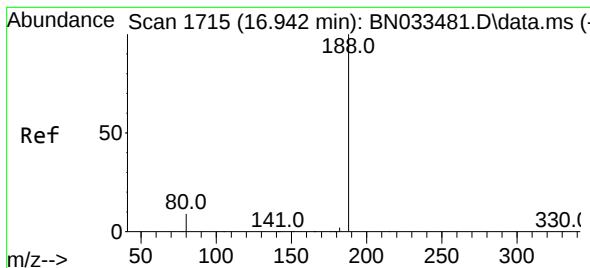
Tgt Ion:154 Resp: 3128
Ion Ratio Lower Upper
154 100
153 113.0 89.0 133.6
152 56.8 45.2 67.8



#18
Fluorene
Concen: 0.094 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:166 Resp: 4115
Ion Ratio Lower Upper
166 100
165 94.1 78.2 117.4
167 12.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

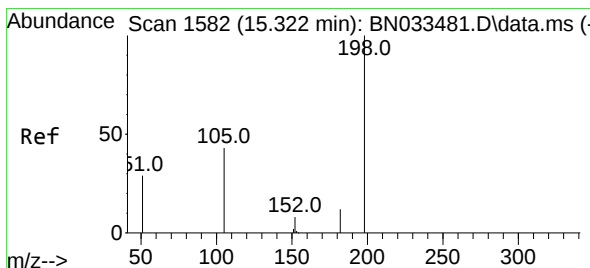
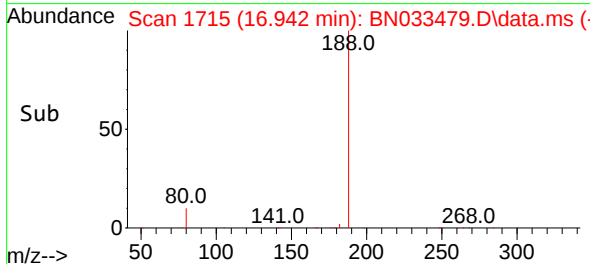
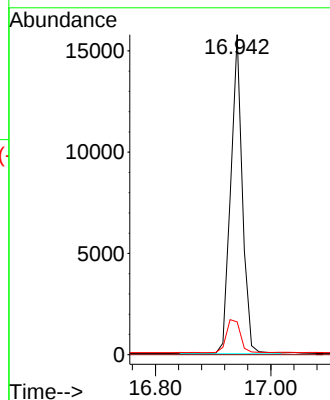
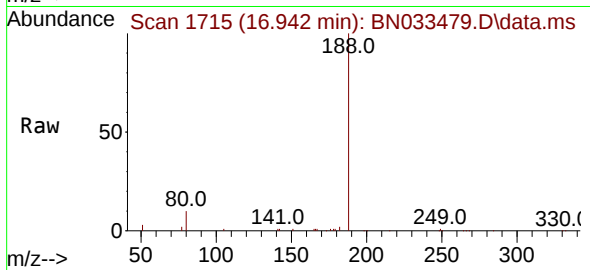
Tgt Ion:188 Resp: 22120

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.102 ng

RT: 15.322 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

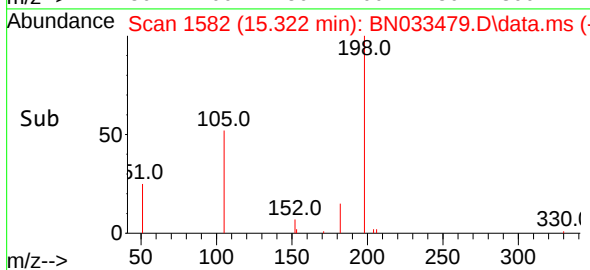
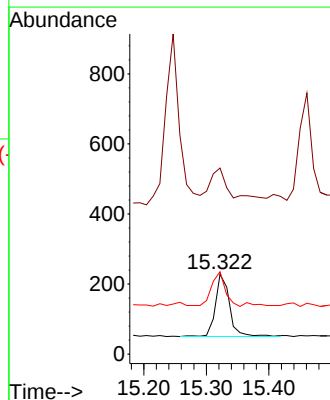
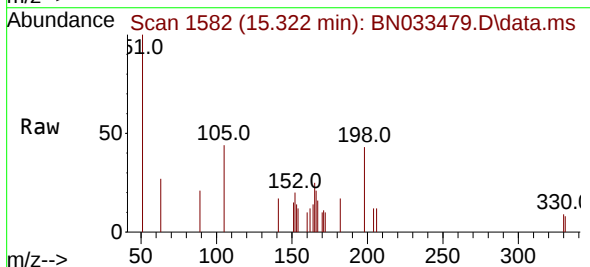
Tgt Ion:198 Resp: 282

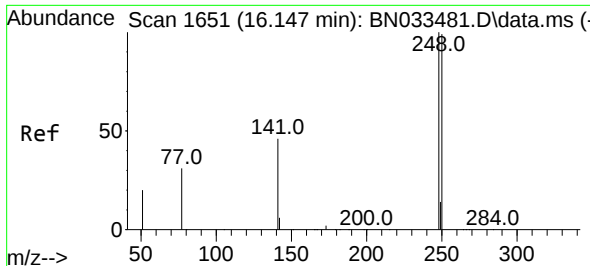
Ion Ratio Lower Upper

198 100

51 232.9 65.1 97.7#

105 103.1 44.8 67.2#

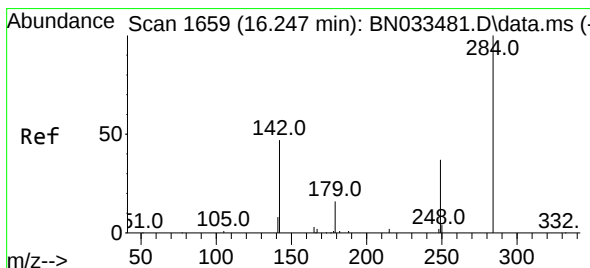
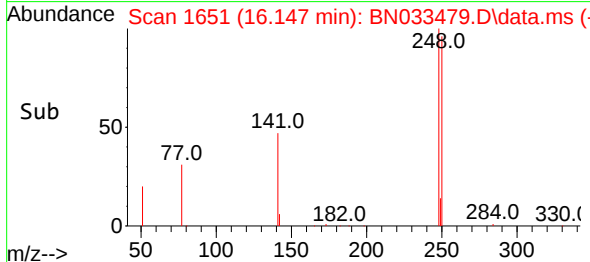
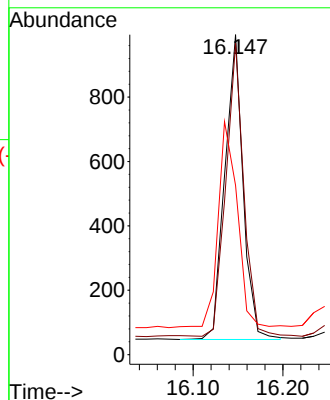
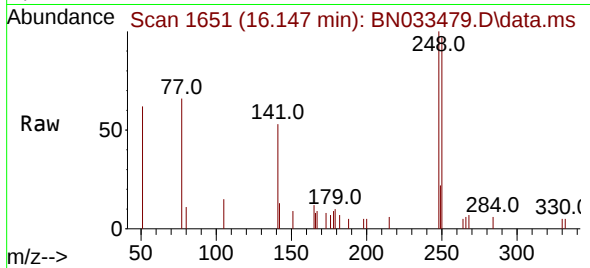




#21
4-Bromophenyl-phenylether
Concen: 0.101 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

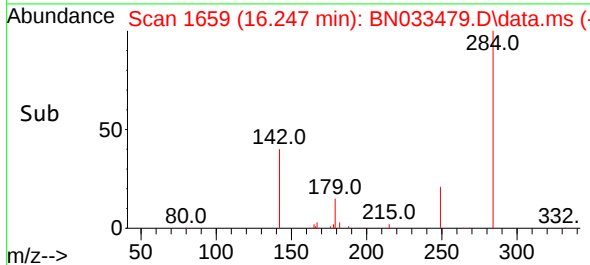
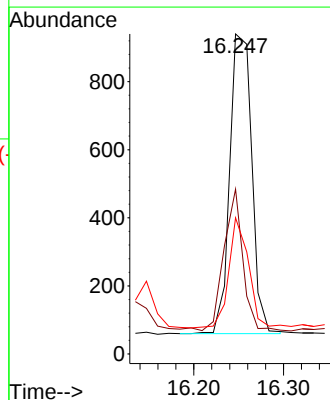
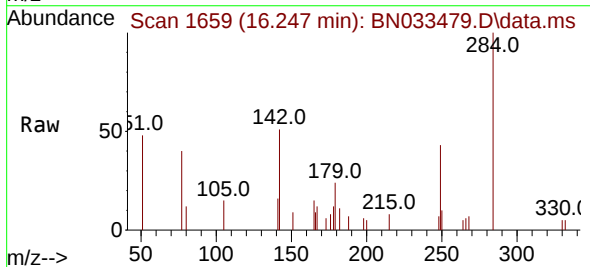
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

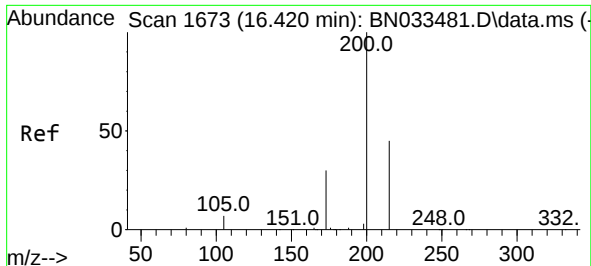
Tgt Ion:248 Resp: 1335
Ion Ratio Lower Upper
248 100
250 97.4 79.2 118.8
141 52.9 37.9 56.9



#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:284 Resp: 1497
Ion Ratio Lower Upper
284 100
142 40.0 31.8 47.6
249 32.6 26.0 39.0

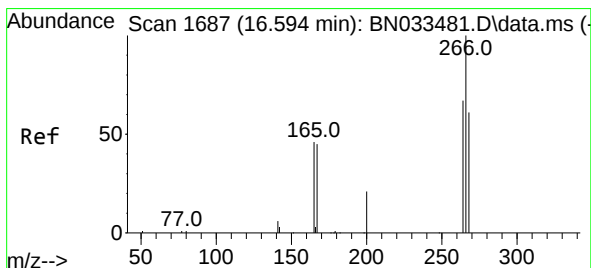
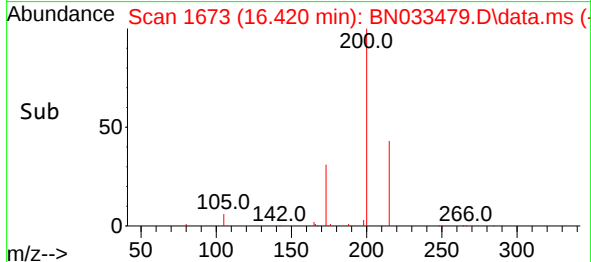
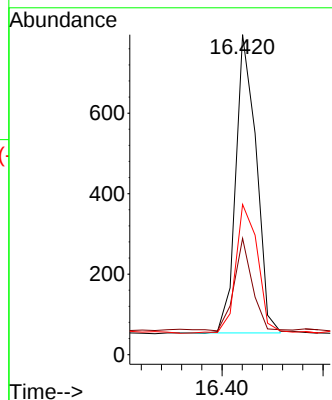
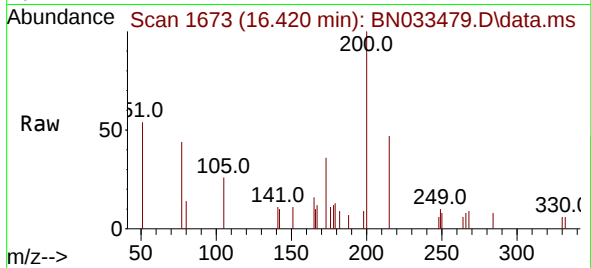




#23
Atrazine
Concen: 0.099 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

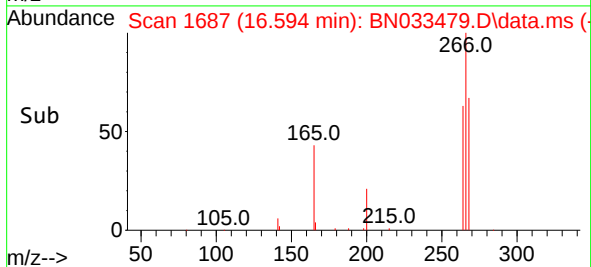
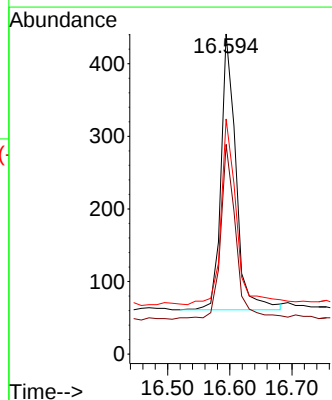
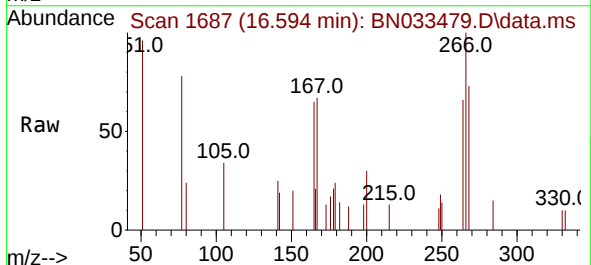
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

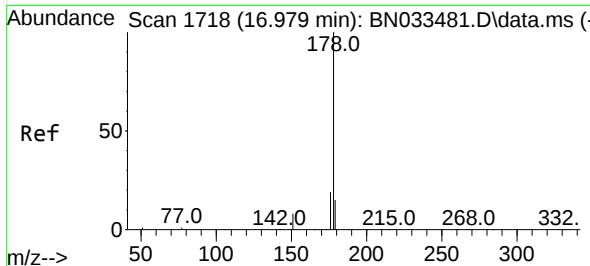
Tgt Ion:200 Resp: 1042
Ion Ratio Lower Upper
200 100
173 36.4 25.3 37.9
215 46.9 36.6 54.8



#24
Pentachlorophenol
Concen: 0.105 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:266 Resp: 633
Ion Ratio Lower Upper
266 100
264 61.3 51.9 77.9
268 69.5 51.0 76.4

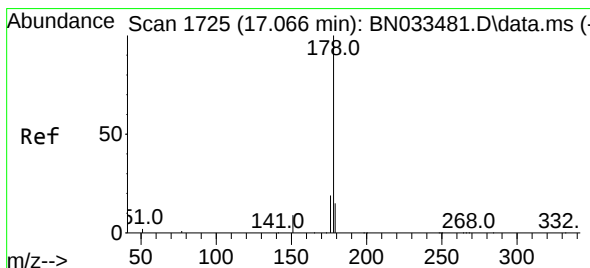
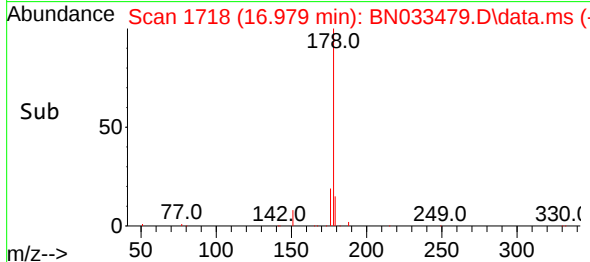
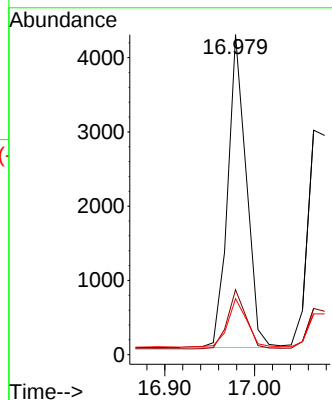
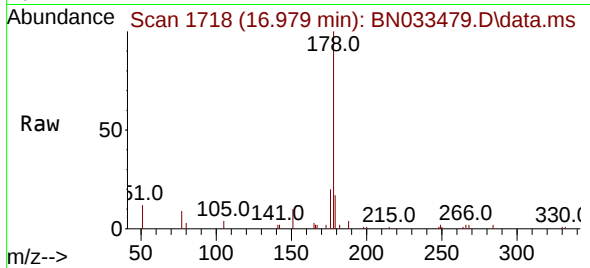




#25
Phenanthrene
Concen: 0.096 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

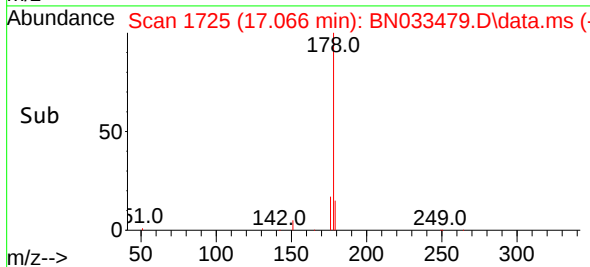
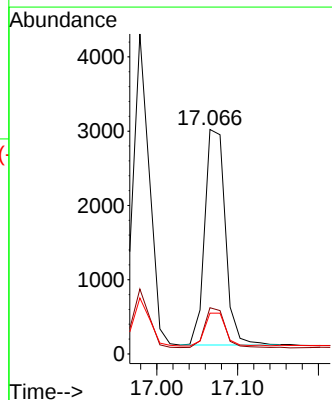
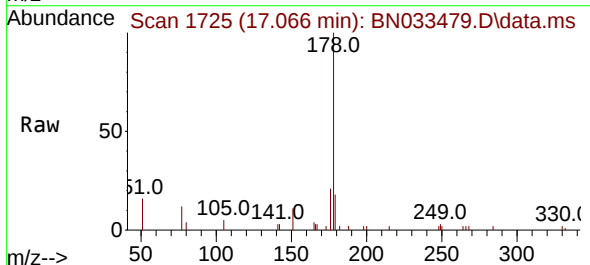
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

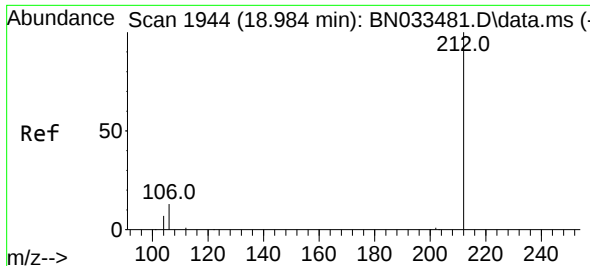
Tgt Ion:178 Resp: 6046
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 16.1 12.3 18.5



#26
Anthracene
Concen: 0.092 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:178 Resp: 5150
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.090 ng

RT: 18.984 min Scan# 1944

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

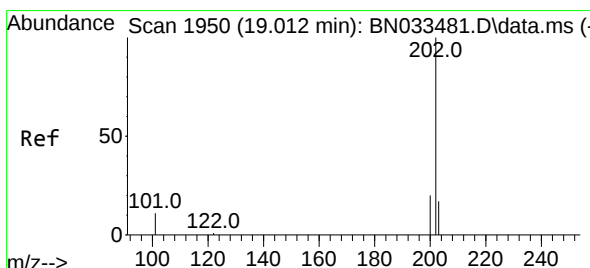
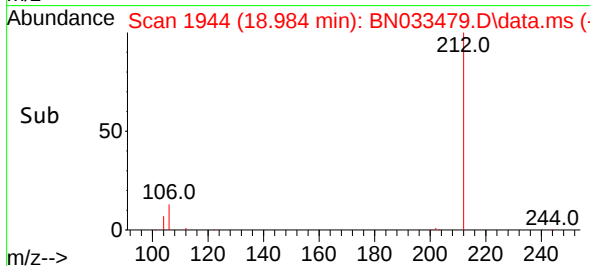
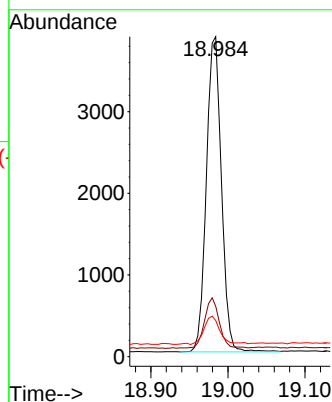
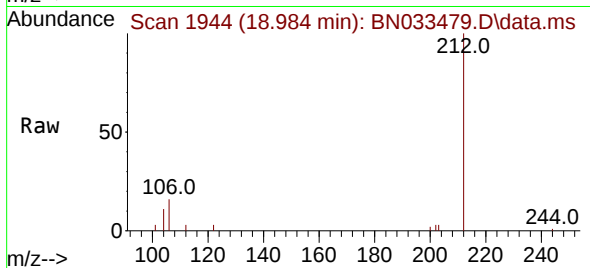
Tgt Ion:212 Resp: 5237

Ion Ratio Lower Upper

212 100

106 15.6 12.3 18.5

104 9.8 7.0 10.4



#28

Fluoranthene

Concen: 0.085 ng

RT: 19.012 min Scan# 1950

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

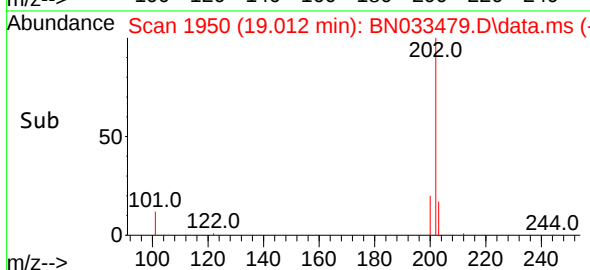
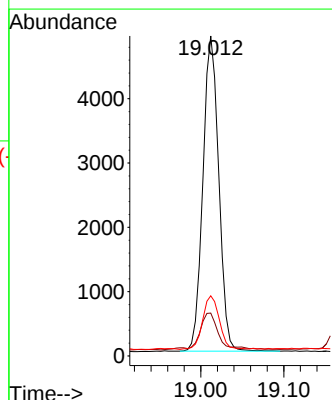
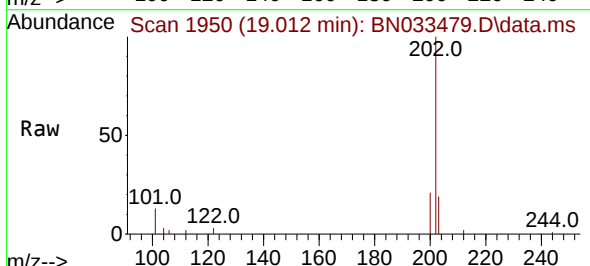
Tgt Ion:202 Resp: 6515

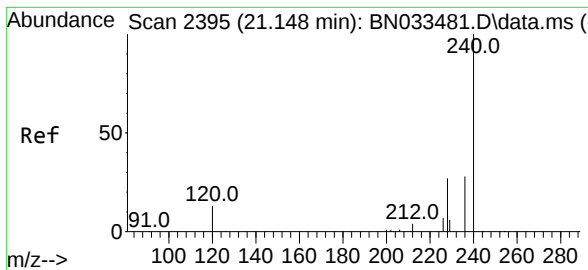
Ion Ratio Lower Upper

202 100

101 14.2 9.5 14.3

203 17.8 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

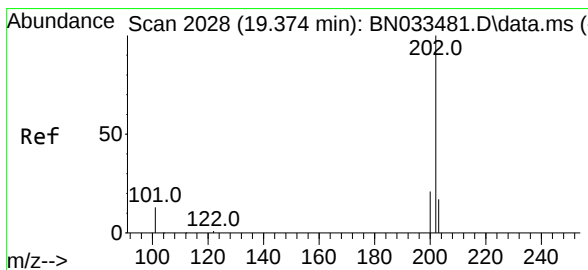
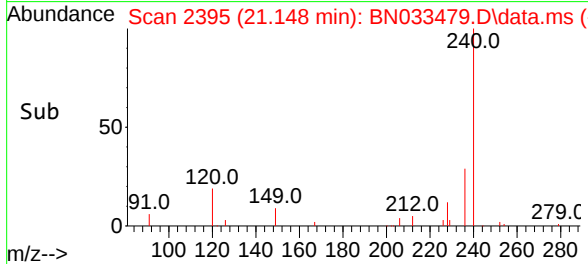
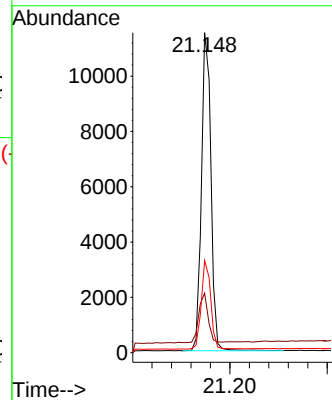
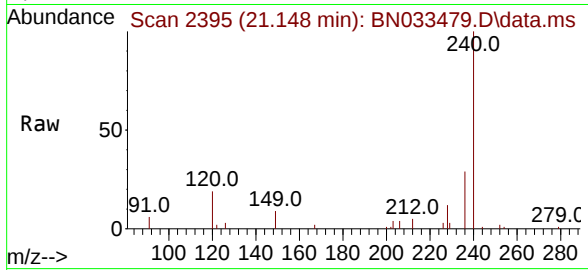
Tgt Ion:240 Resp: 15512

Ion Ratio Lower Upper

240 100

120 18.6 12.4 18.6

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.109 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

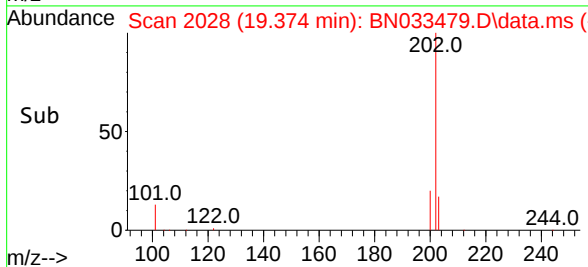
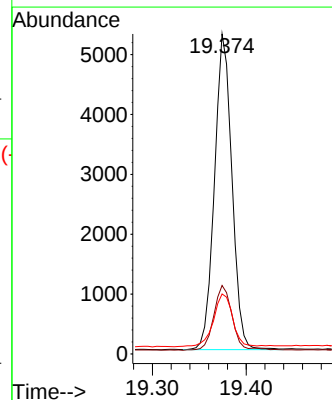
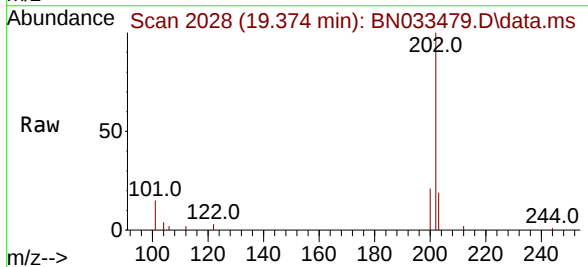
Tgt Ion:202 Resp: 6809

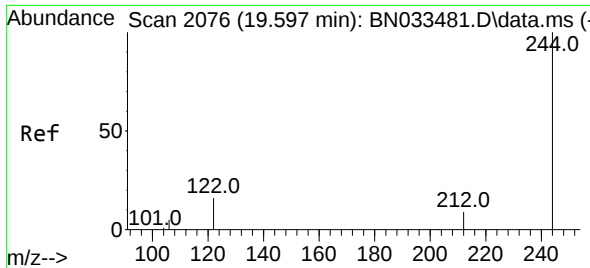
Ion Ratio Lower Upper

202 100

200 21.6 16.6 24.8

203 18.4 14.2 21.4

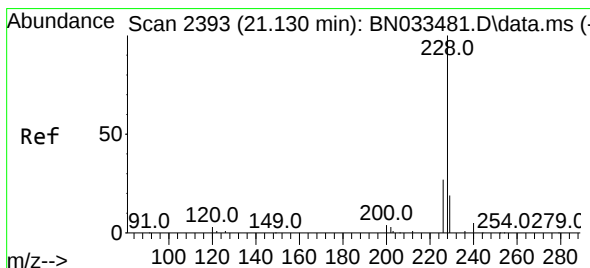
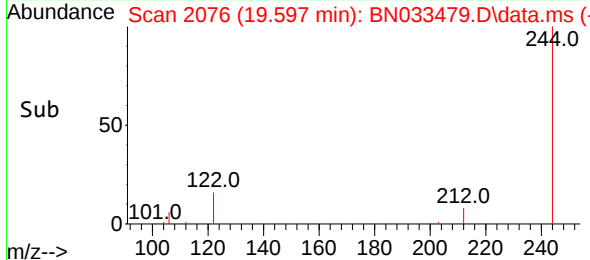
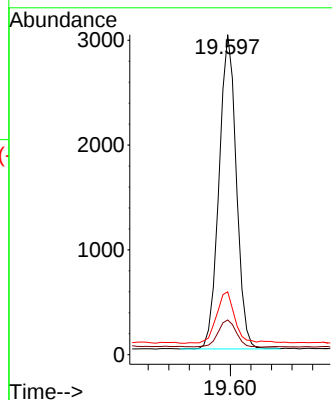
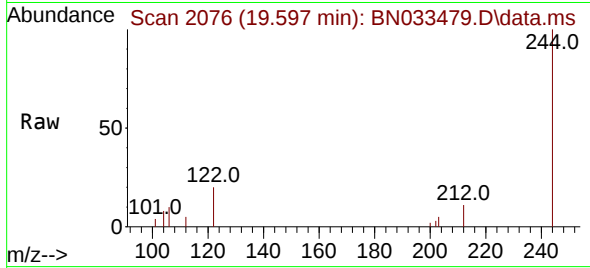




#31
 Terphenyl-d14
 Concen: 0.118 ng
 RT: 19.597 min Scan# 2076
 Delta R.T. -0.000 min
 Lab File: BN033479.D
 Acq: 19 Aug 2024 16:16

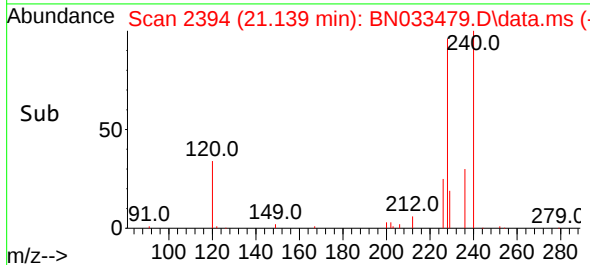
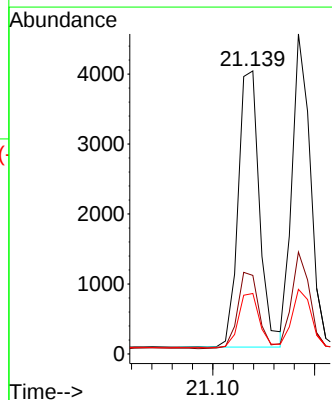
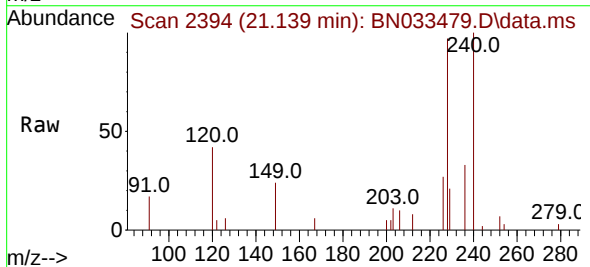
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

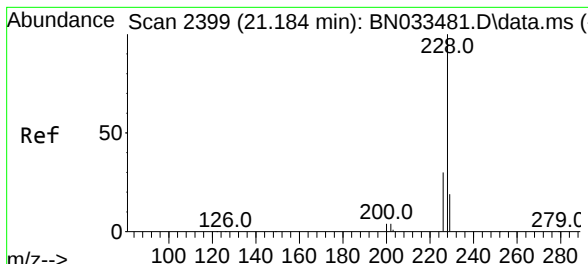
Tgt Ion:244	Resp:	3516
Ion Ratio	Lower	Upper
244	100	
212	10.8	7.8 11.6
122	19.7	13.3 19.9



#32
 Benzo(a)anthracene
 Concen: 0.100 ng
 RT: 21.139 min Scan# 2394
 Delta R.T. 0.009 min
 Lab File: BN033479.D
 Acq: 19 Aug 2024 16:16

Tgt Ion:228	Resp:	5757
Ion Ratio	Lower	Upper
228	100	
226	27.8	21.8 32.6
229	21.4	15.8 23.6

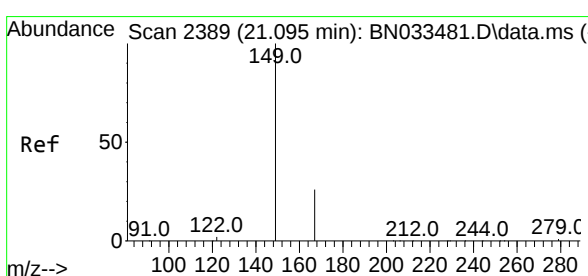
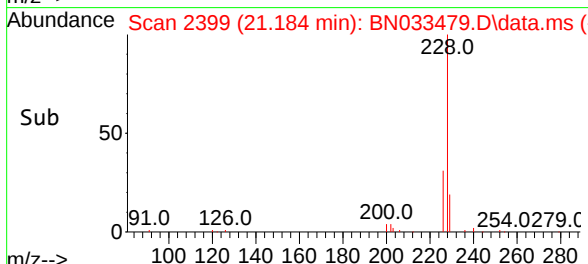
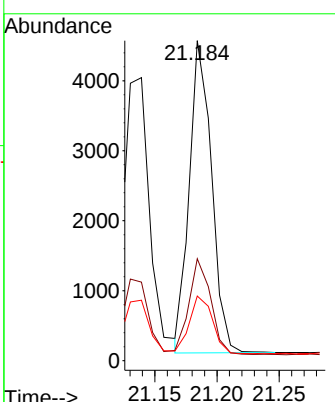
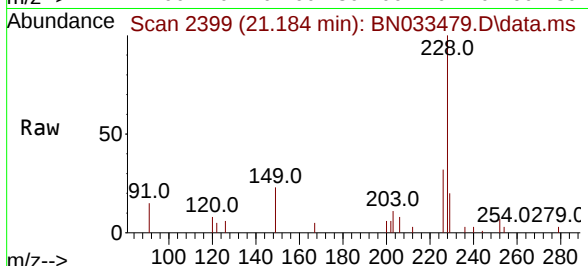




#33
 Chrysene
 Concen: 0.097 ng
 RT: 21.184 min Scan# 2118
 Delta R.T. -0.000 min
 Lab File: BN033479.D
 Acq: 19 Aug 2024 16:16

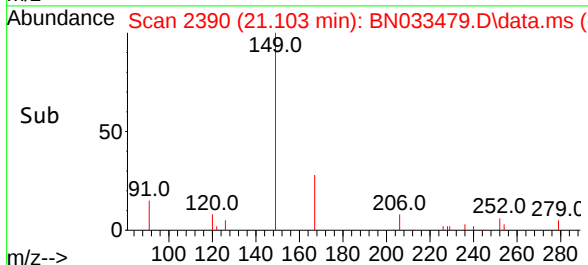
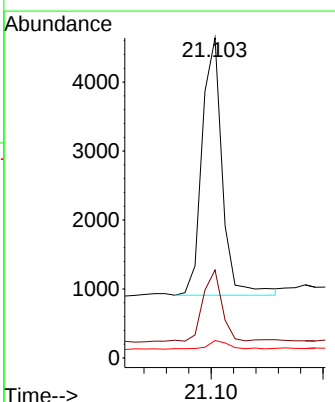
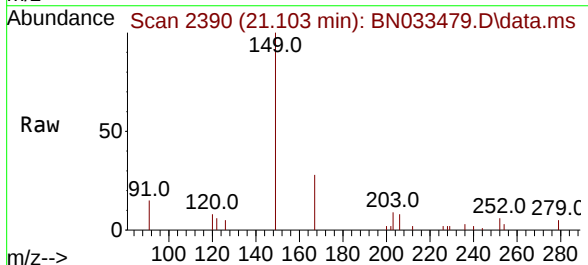
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

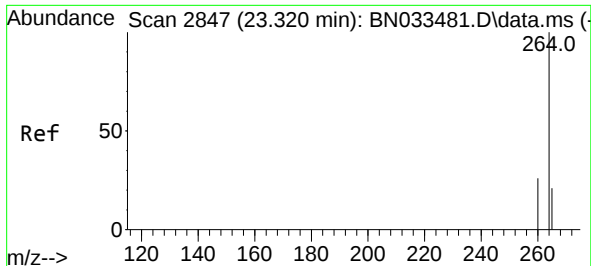
Tgt Ion:	228	Resp:	5565
Ion Ratio	Lower	Upper	
228	100		
226	31.9	23.8	35.8
229	20.2	15.6	23.4



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.170 ng
 RT: 21.103 min Scan# 2390
 Delta R.T. 0.009 min
 Lab File: BN033479.D
 Acq: 19 Aug 2024 16:16

Tgt Ion:	149	Resp:	4678
Ion Ratio	Lower	Upper	
149	100		
167	25.4	21.5	32.3
279	3.1	2.2	3.2

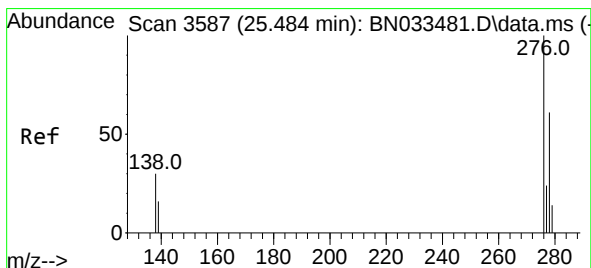
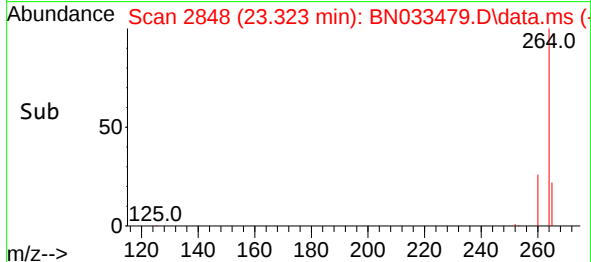
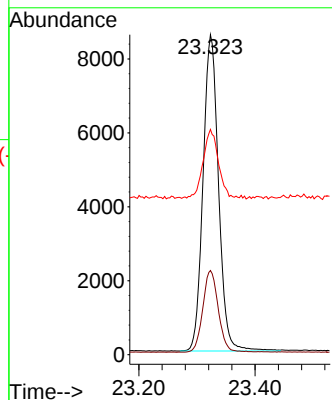
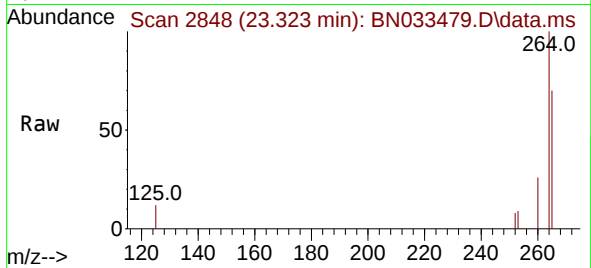




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.323 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: BN033479.D
 Acq: 19 Aug 2024 16:16

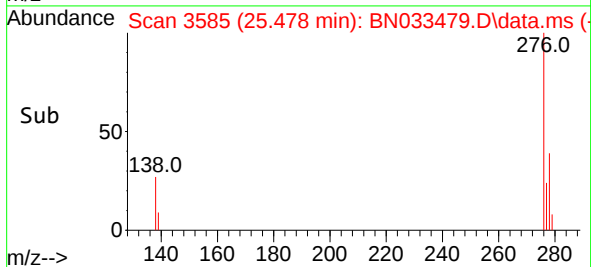
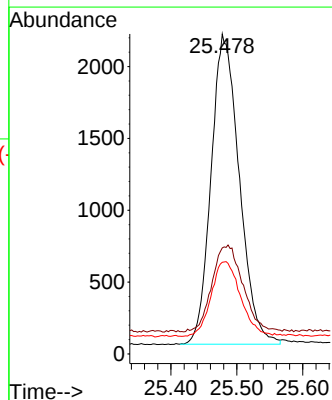
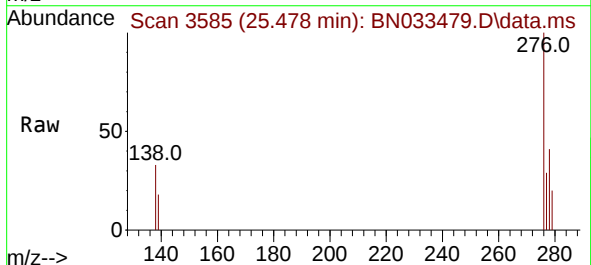
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

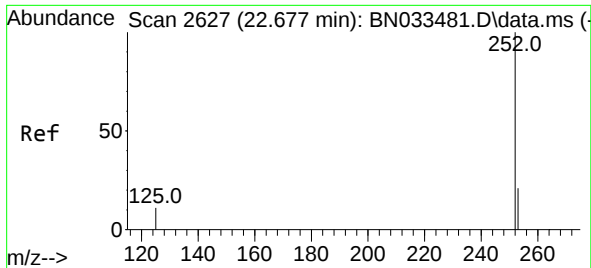
Tgt Ion:264 Resp: 15840
 Ion Ratio Lower Upper
 264 100
 260 26.3 20.8 31.2
 265 70.4 52.2 78.2



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.097 ng
 RT: 25.478 min Scan# 3585
 Delta R.T. -0.006 min
 Lab File: BN033479.D
 Acq: 19 Aug 2024 16:16

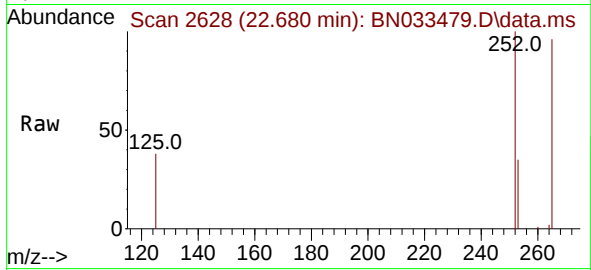
Tgt Ion:276 Resp: 6399
 Ion Ratio Lower Upper
 276 100
 138 30.6 24.4 36.6
 277 25.2 19.8 29.6



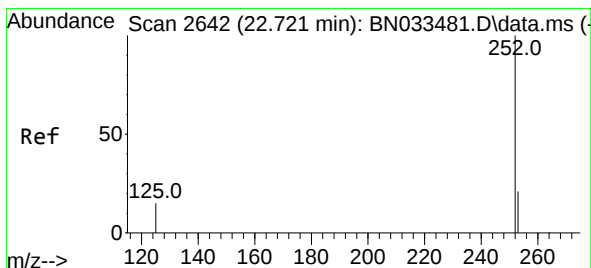
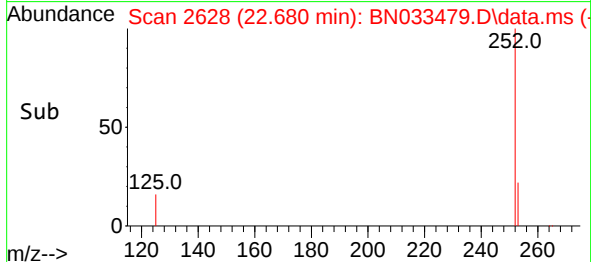
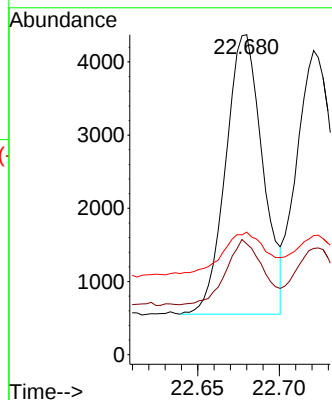


#37
Benzo(b)fluoranthene
Concen: 0.102 ng
RT: 22.680 min Scan# 2628
Delta R.T. 0.003 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

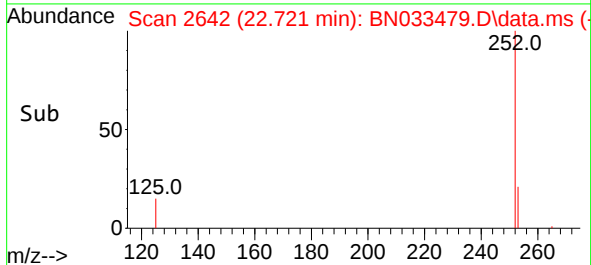
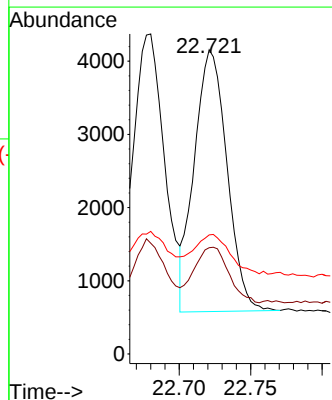
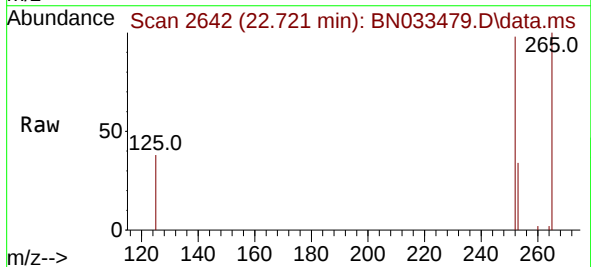


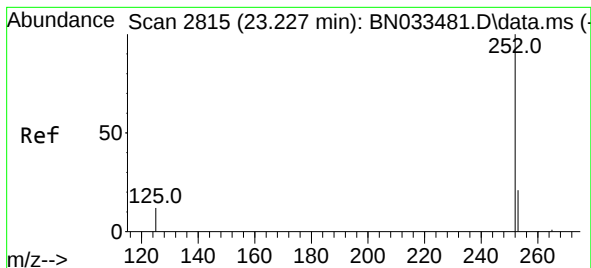
Tgt Ion:252 Resp: 6036
Ion Ratio Lower Upper
252 100
253 34.6 19.8 29.8#
125 38.3 13.9 20.9#



#38
Benzo(k)fluoranthene
Concen: 0.095 ng
RT: 22.721 min Scan# 2642
Delta R.T. -0.000 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Tgt Ion:252 Resp: 5699
Ion Ratio Lower Upper
252 100
253 34.9 19.8 29.8#
125 39.1 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.230 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN033479.D

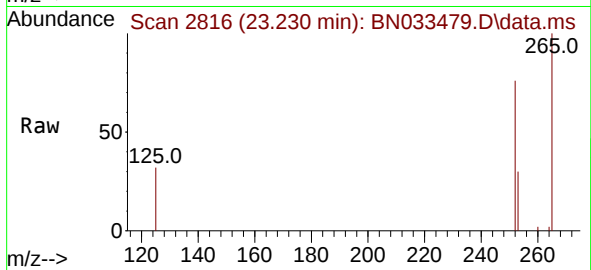
Acq: 19 Aug 2024 16:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



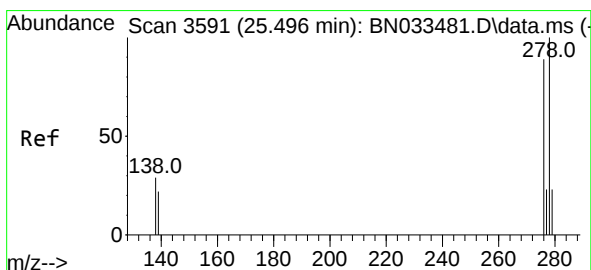
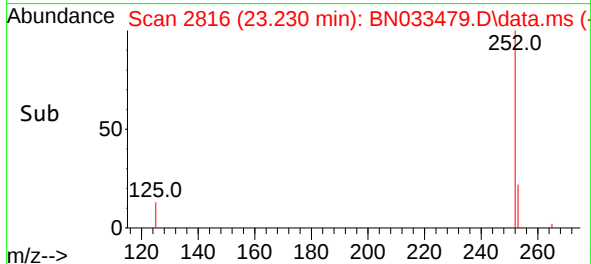
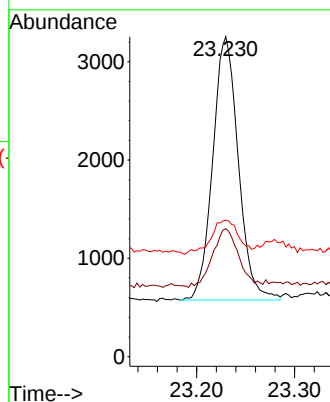
Tgt Ion:252 Resp: 4861

Ion Ratio Lower Upper

252 100

253 40.0 21.5 32.3#

125 42.6 17.0 25.4#



#40

Dibenzo(a,h)anthracene

Concen: 0.098 ng

RT: 25.498 min Scan# 3592

Delta R.T. 0.003 min

Lab File: BN033479.D

Acq: 19 Aug 2024 16:16

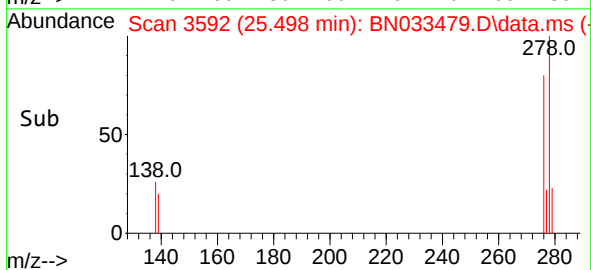
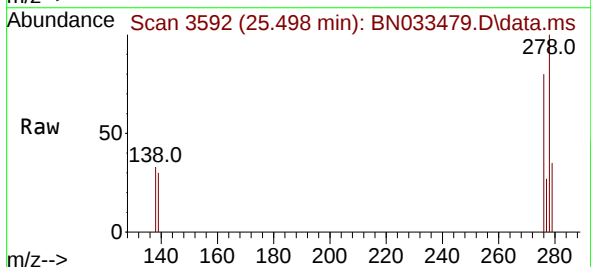
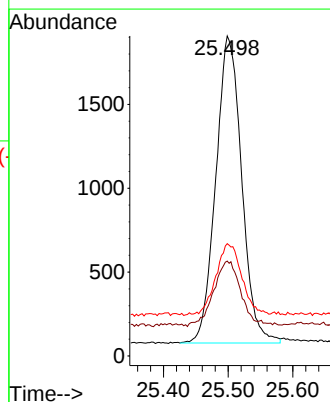
Tgt Ion:278 Resp: 5079

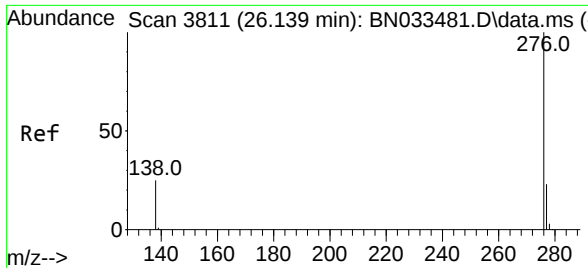
Ion Ratio Lower Upper

278 100

139 29.7 19.1 28.7#

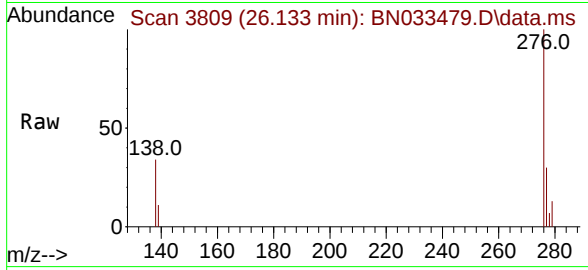
279 35.1 21.0 31.4#



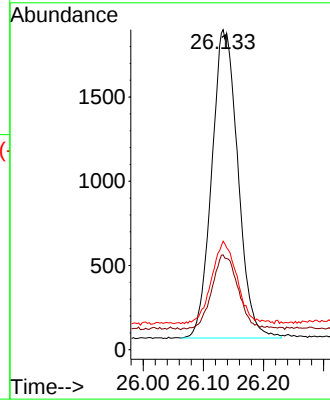
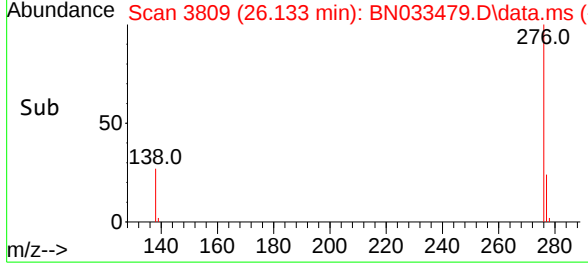


#41
Benzo(g,h,i)perylene
Concen: 0.097 ng
RT: 26.133 min Scan# 3809
Delta R.T. -0.006 min
Lab File: BN033479.D
Acq: 19 Aug 2024 16:16

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:276 Resp: 5542
Ion Ratio Lower Upper
276 100
277 29.6 19.7 29.5#
138 33.9 21.8 32.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033480.D
 Acq On : 19 Aug 2024 16:52
 Operator : MA/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/21/2024
 Supervised By :mohammad ahmed 08/22/2024

Quant Time: Aug 19 23:22:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	7894	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	21153	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	11095	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	23305	0.400	ng	0.00
29) Chrysene-d12	21.148	240	15592	0.400	ng	0.00
35) Perylene-d12	23.323	264	15116	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	5055	0.228	ng	0.00
5) Phenol-d6	6.743	99	6221	0.214	ng	0.00
8) Nitrobenzene-d5	8.692	82	3428	0.214	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	5985	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	1123	0.198	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	8881	0.198	ng	0.00
27) Fluoranthene-d10	18.980	212	10713	0.175	ng	0.00
31) Terphenyl-d14	19.598	244	6989	0.233	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.190	88	2026	0.238	ng	95
3) n-Nitrosodimethylamine	3.479	42	2169	0.197	ng	# 99
6) bis(2-Chloroethyl)ether	6.996	93	4514	0.200	ng	99
9) Naphthalene	10.368	128	11298	0.197	ng	99
10) Hexachlorobutadiene	10.667	225	2251	0.204	ng	# 100
12) 2-Methylnaphthalene	11.990	142	7058	0.184	ng	99
16) Acenaphthylene	13.911	152	8927	0.175	ng	100
17) Acenaphthene	14.253	154	6529	0.186	ng	100
18) Fluorene	15.247	166	8225	0.179	ng	99
20) 4,6-Dinitro-2-methylph...	15.322	198	589	0.203	ng	# 58
21) 4-Bromophenyl-phenylether	16.147	248	2696	0.194	ng	97
22) Hexachlorobenzene	16.247	284	3027	0.195	ng	100
23) Atrazine	16.421	200	2139	0.193	ng	98
24) Pentachlorophenol	16.594	266	1137	0.179	ng	97
25) Phenanthrene	16.979	178	12438	0.187	ng	100
26) Anthracene	17.078	178	10626	0.180	ng	100
28) Fluoranthene	19.012	202	13434	0.166	ng	99
30) Pyrene	19.375	202	13742	0.219	ng	99
32) Benzo(a)anthracene	21.131	228	10672	0.184	ng	99
33) Chrysene	21.184	228	10851	0.188	ng	98
34) Bis(2-ethylhexyl)phtha...	21.104	149	7125	0.257	ng	99
36) Indeno(1,2,3-cd)pyrene	25.481	276	11942	0.191	ng	99
37) Benzo(b)fluoranthene	22.677	252	10821	0.192	ng	# 90
38) Benzo(k)fluoranthene	22.721	252	10527m	0.184	ng	
39) Benzo(a)pyrene	23.227	252	8779	0.184	ng	# 87
40) Dibenzo(a,h)anthracene	25.496	278	9553	0.193	ng	95
41) Benzo(g,h,i)perylene	26.136	276	10368	0.190	ng	97

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

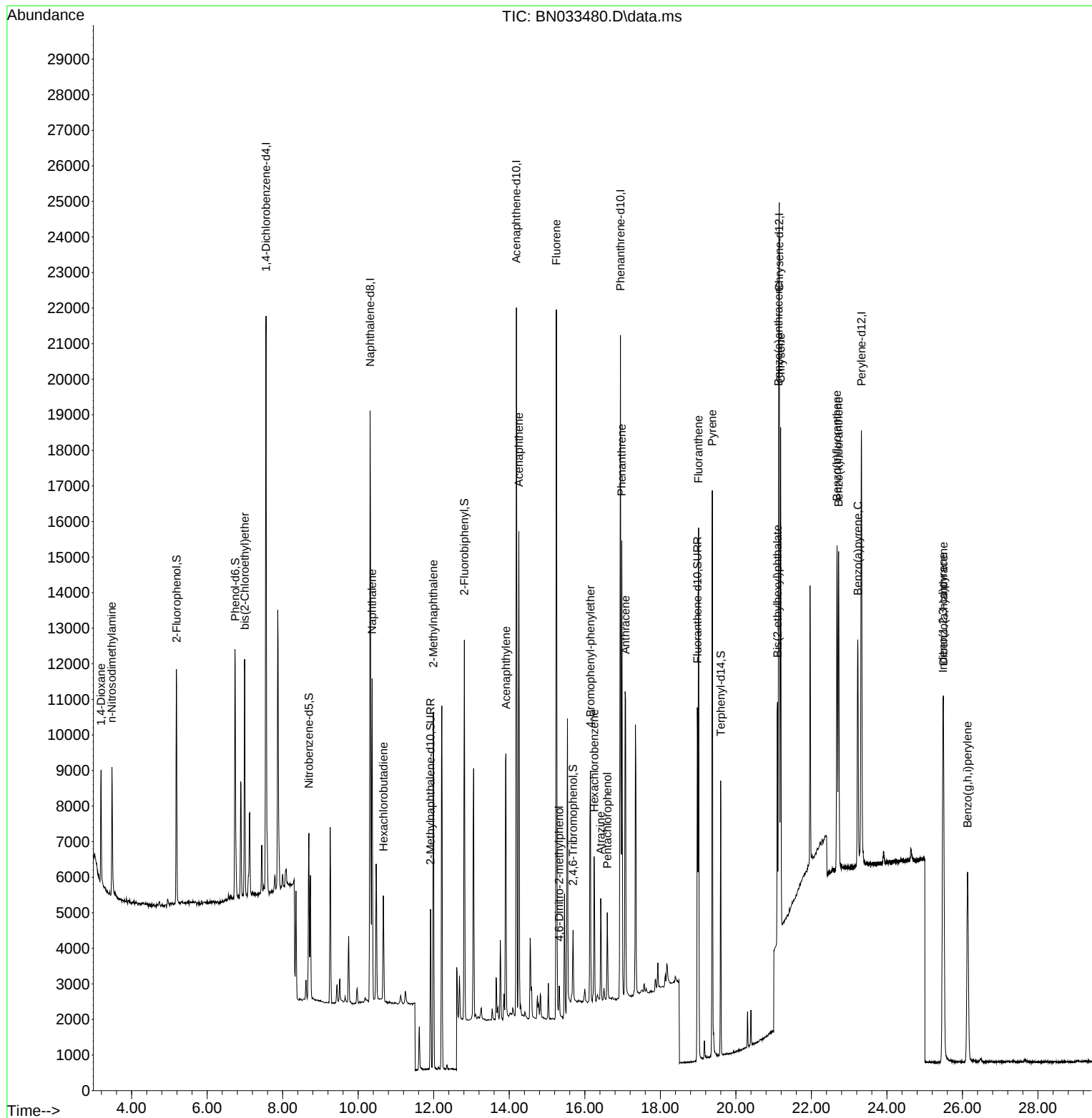
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033480.D
Acq On : 19 Aug 2024 16:52
Operator : MA/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

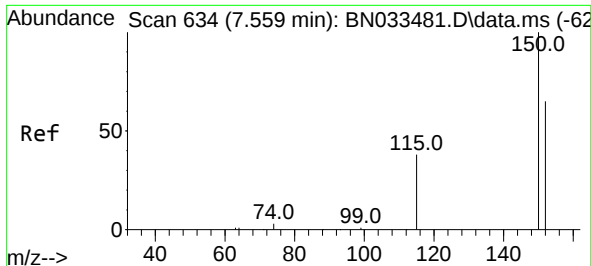
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Aug 19 23:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024





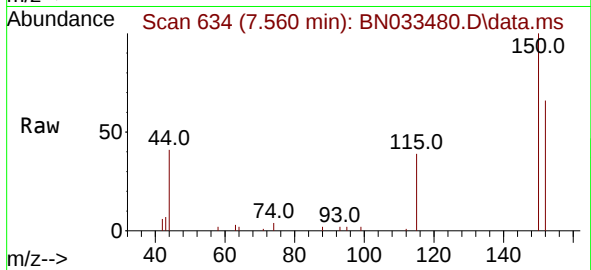
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



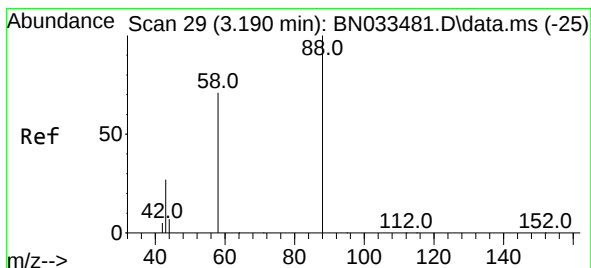
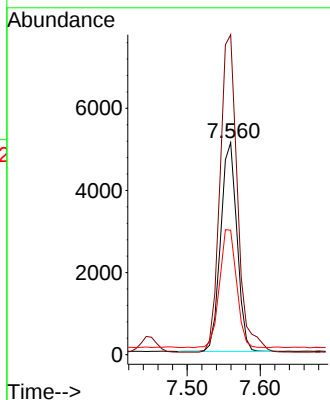
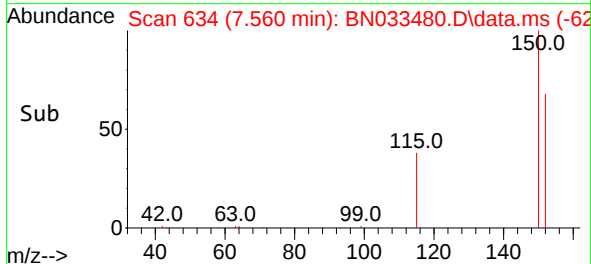
Tgt Ion:152 Resp: 7894
Ion Ratio Lower Upper
152 100
150 150.9 122.2 183.2
115 58.7 47.2 70.8

Manual Integrations

APPROVED

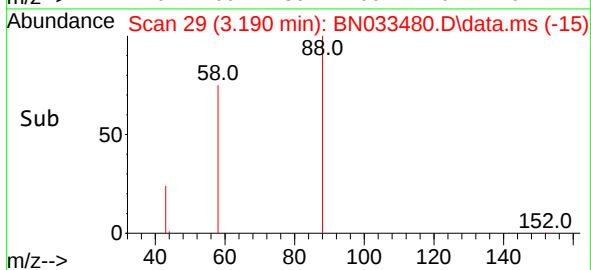
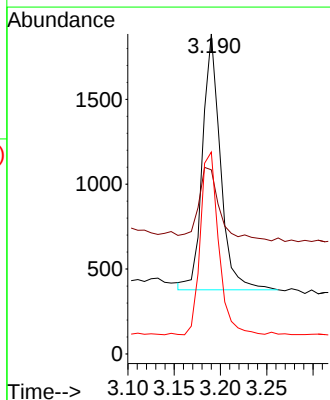
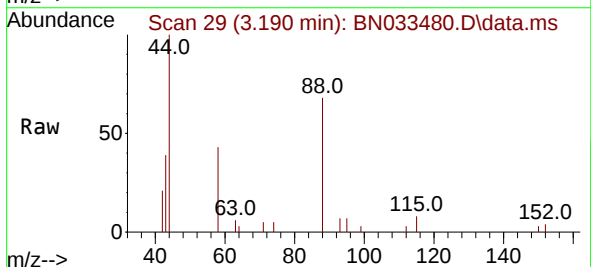
Reviewed By :Yogesh Patel 08/21/2024

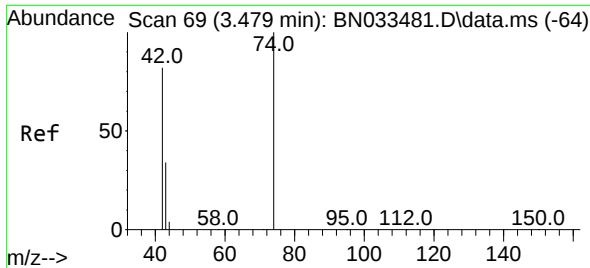
Supervised By :mohammad ahmed 08/22/2024



#2
1,4-Dioxane
Concen: 0.238 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion: 88 Resp: 2026
Ion Ratio Lower Upper
88 100
43 34.3 25.0 37.4
58 73.6 62.5 93.7





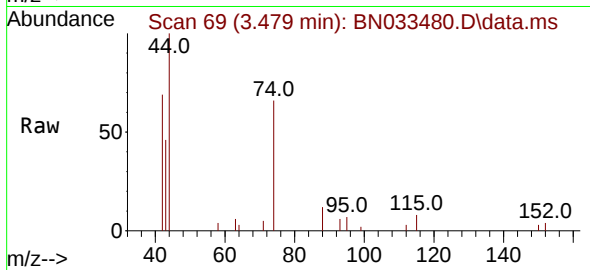
#3
n-Nitrosodimethylamine
Concen: 0.197 ng
RT: 3.479 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



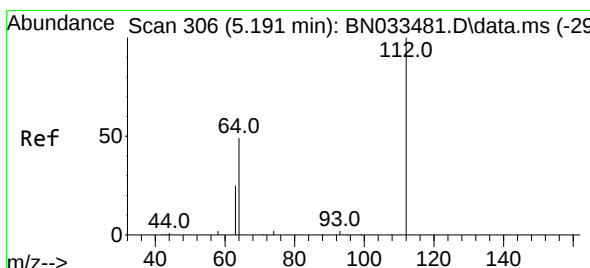
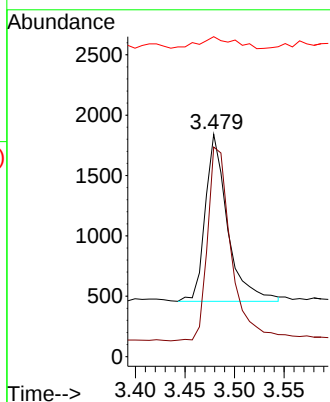
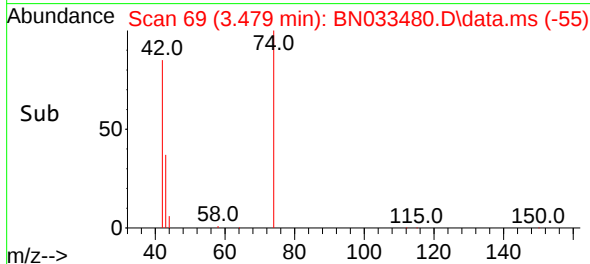
Tgt Ion: 42 Resp: 2169
Ion Ratio Lower Upper
42 100
74 124.3 100.2 150.2
44 10.2 5.3 7.9

Manual Integrations

APPROVED

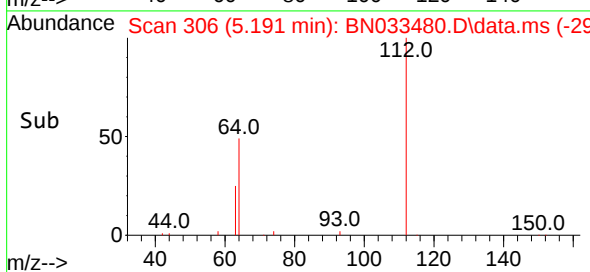
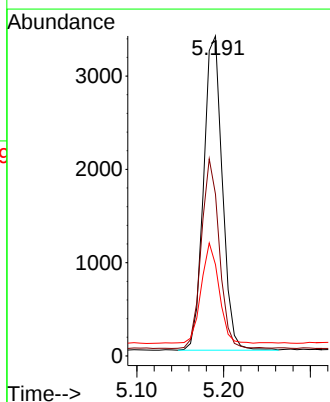
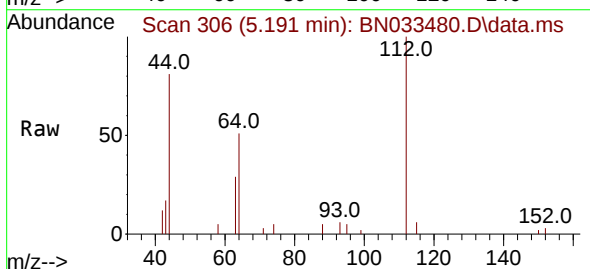
Reviewed By :Yogesh Patel 08/21/2024

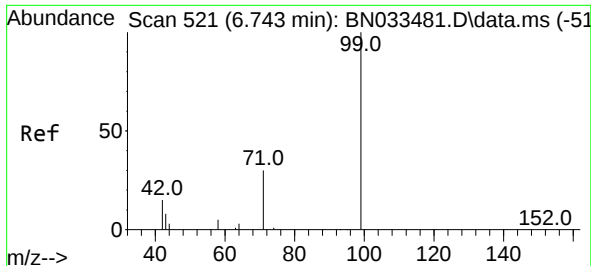
Supervised By :mohammad ahmed 08/22/2024



#4
2-Fluorophenol
Concen: 0.228 ng
RT: 5.191 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

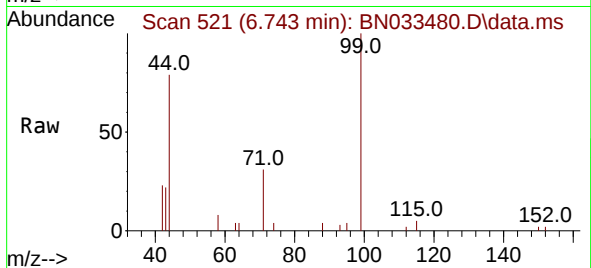
Tgt Ion:112 Resp: 5055
Ion Ratio Lower Upper
112 100
64 57.6 47.1 70.7
63 30.5 24.9 37.3





#5
Phenol-d6
Concen: 0.214 ng
RT: 6.743 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

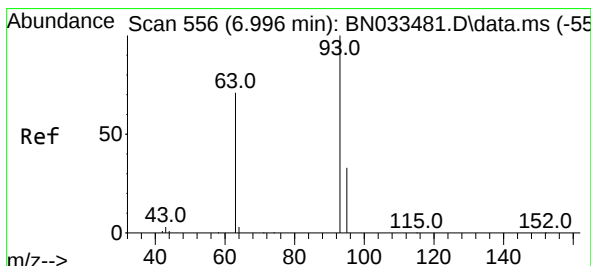
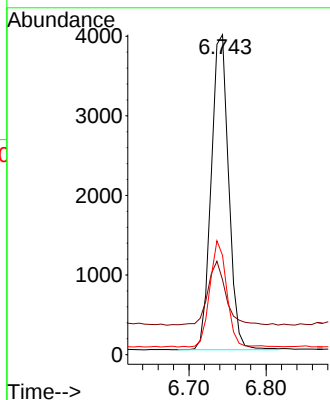
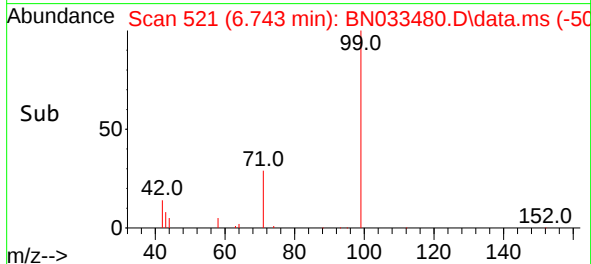
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 99 Resp: 622
Ion Ratio Lower Upper
99 100
42 21.1 16.6 24.8
71 32.5 26.2 39.4

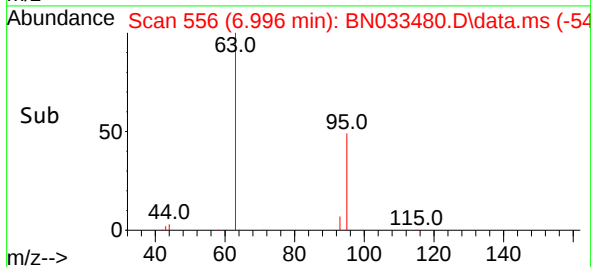
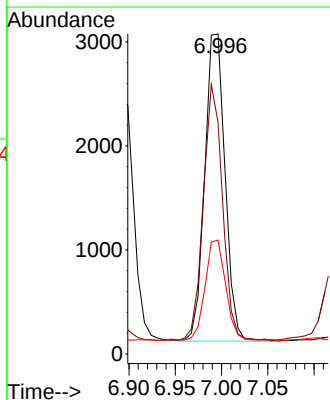
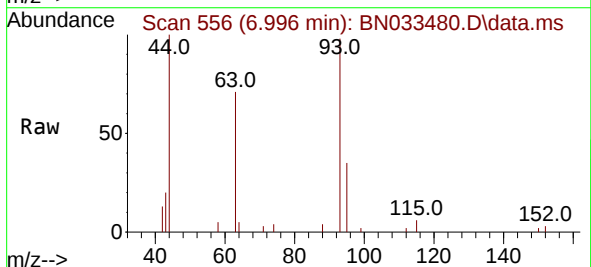
Manual Integrations
APPROVED

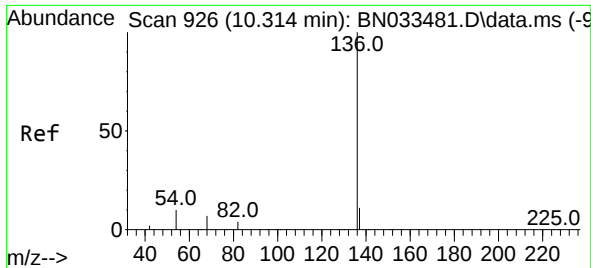
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.200 ng
RT: 6.996 min Scan# 556
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

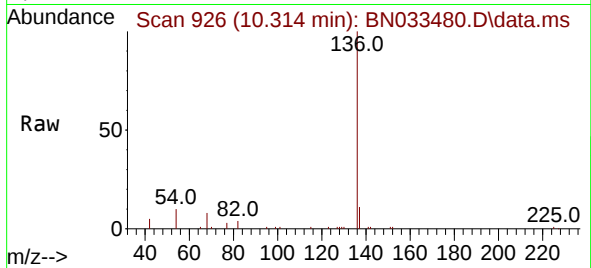
Tgt Ion: 93 Resp: 4514
Ion Ratio Lower Upper
93 100
63 79.2 63.0 94.4
95 32.9 26.0 39.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

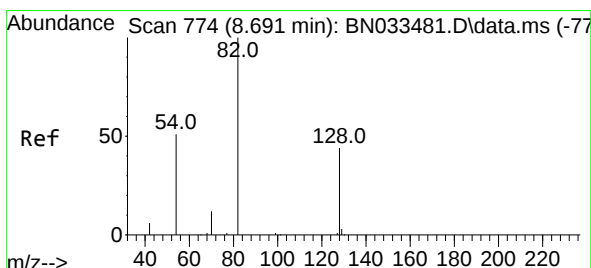
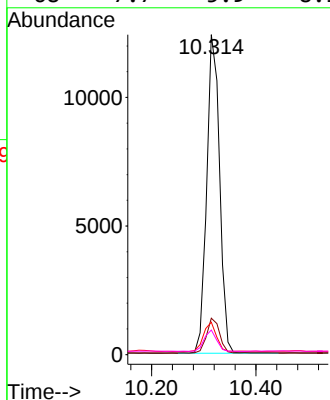
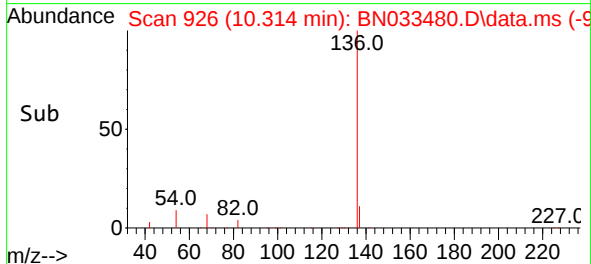
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:	136	Resp:	2115
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	10.1	8.3	12.5
68	7.7	5.9	8.9

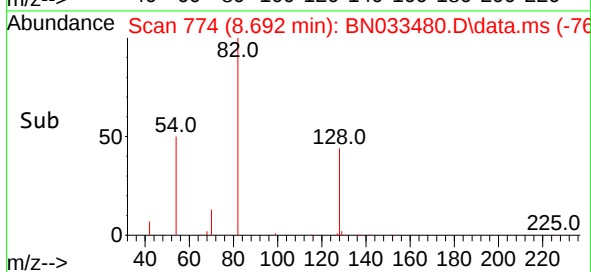
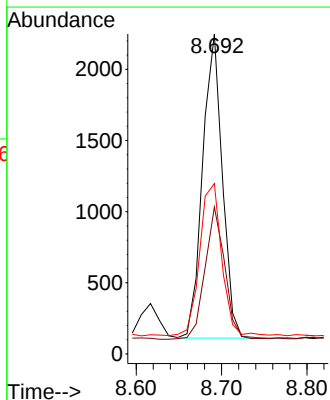
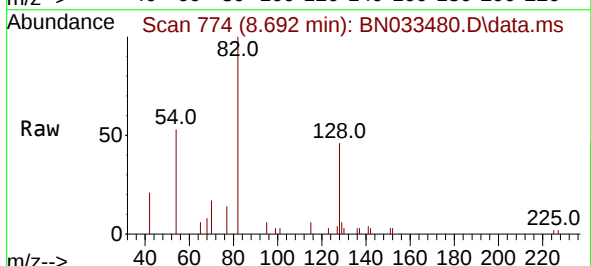
Manual Integrations
APPROVED

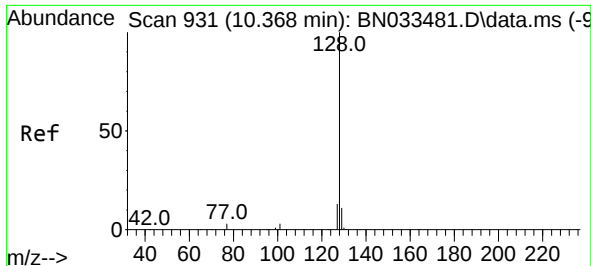
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#8
Nitrobenzene-d5
Concen: 0.214 ng
RT: 8.692 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:	82	Resp:	3428
Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.0	54.0
54	53.2	42.0	63.0





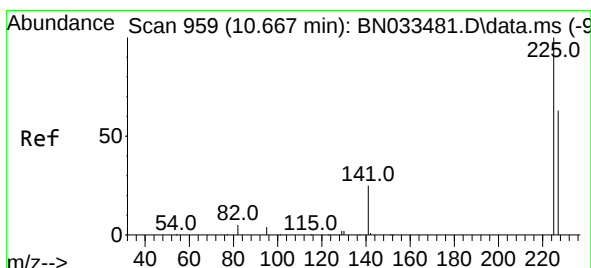
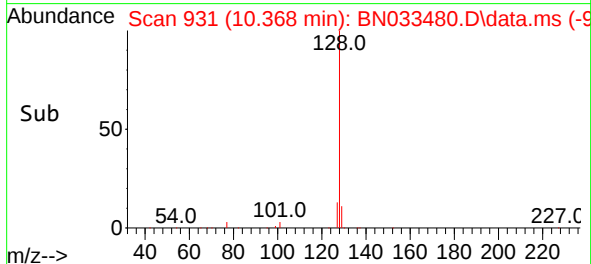
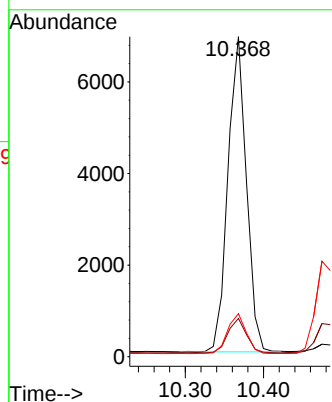
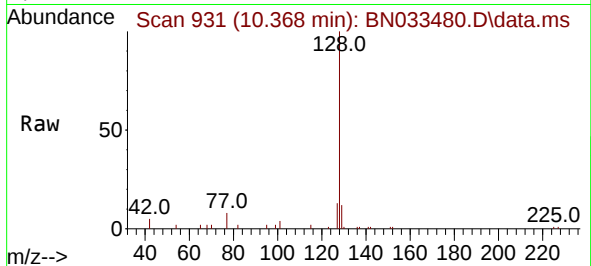
#9
Naphthalene
Concen: 0.197 ng
RT: 10.368 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 11298
Ion Ratio Lower Upper
128 100
129 11.9 9.1 13.7
127 13.5 10.7 16.1

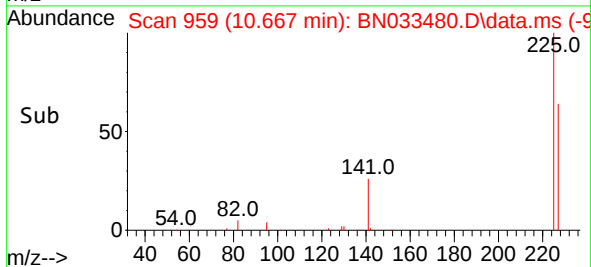
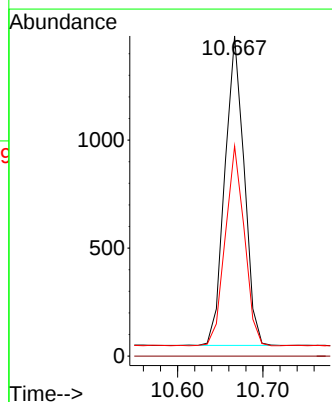
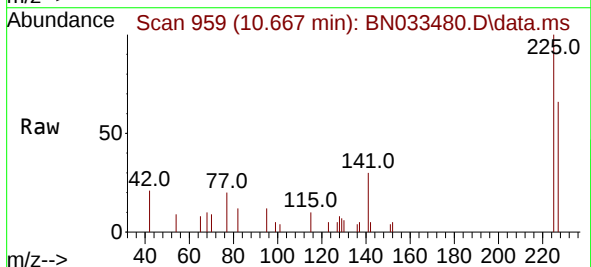
Manual Integrations
APPROVED

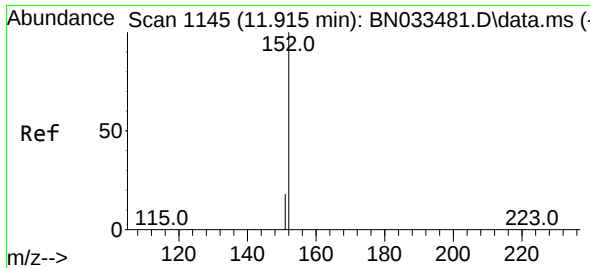
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#10
Hexachlorobutadiene
Concen: 0.204 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

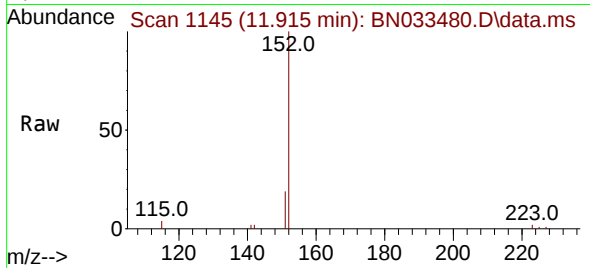
Tgt Ion:225 Resp: 2251
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.2 76.8





#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.915 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

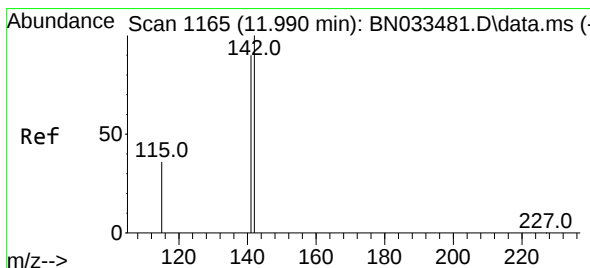
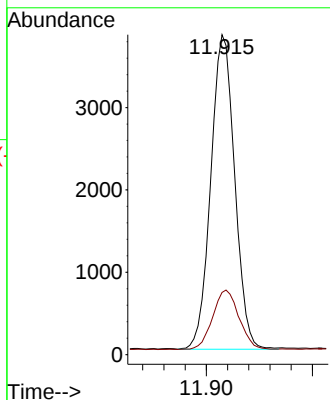
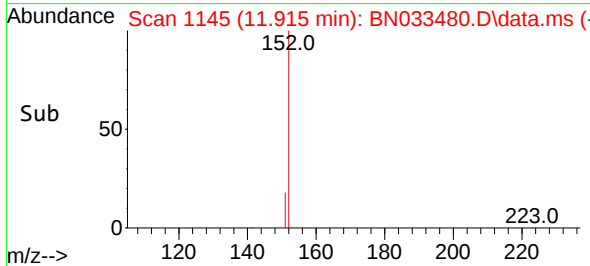
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 598
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0

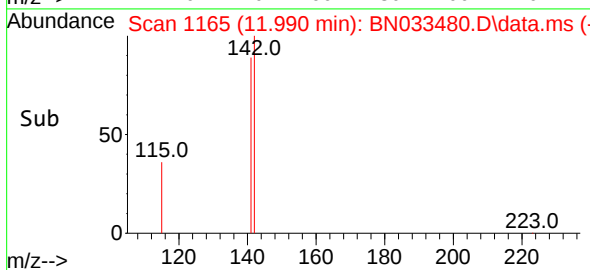
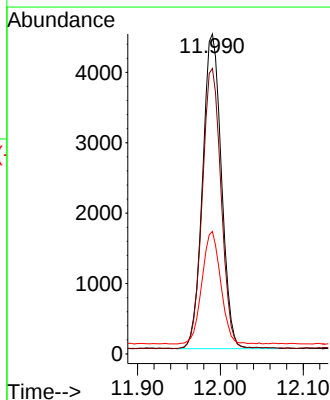
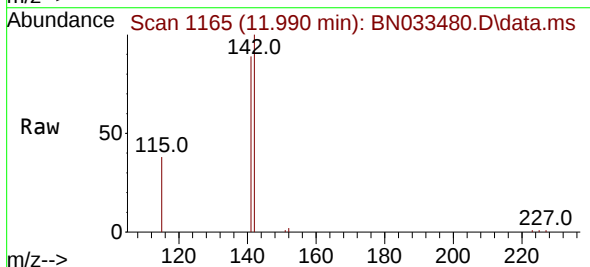
Manual Integrations
APPROVED

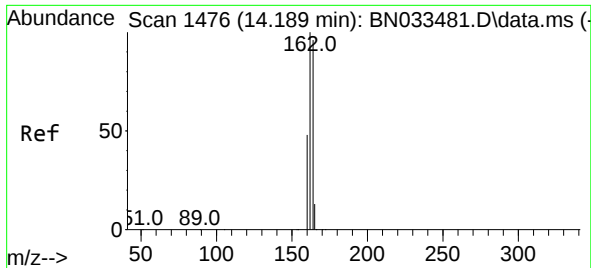
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#12
2-Methylnaphthalene
Concen: 0.184 ng
RT: 11.990 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:142 Resp: 7058
Ion Ratio Lower Upper
142 100
141 89.3 71.7 107.5
115 38.3 29.4 44.2





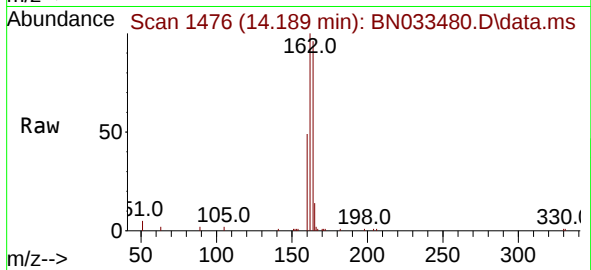
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



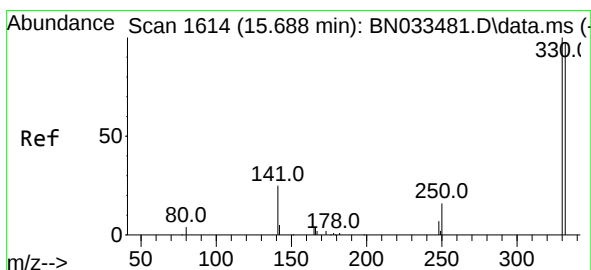
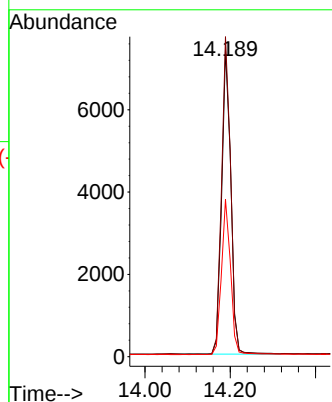
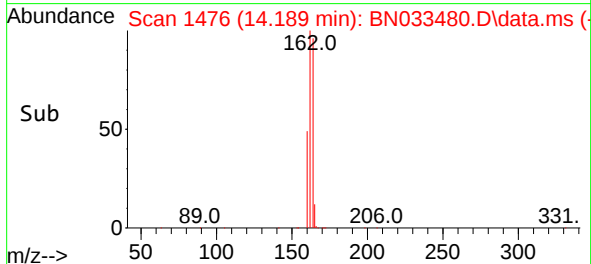
Tgt Ion:164 Resp: 1109
Ion Ratio Lower Upper
164 100
162 104.3 83.5 125.3
160 51.3 40.2 60.4

Manual Integrations

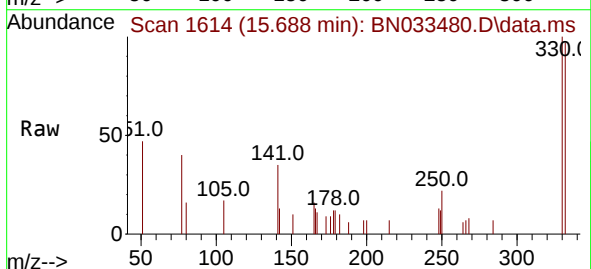
APPROVED

Reviewed By :Yogesh Patel 08/21/2024

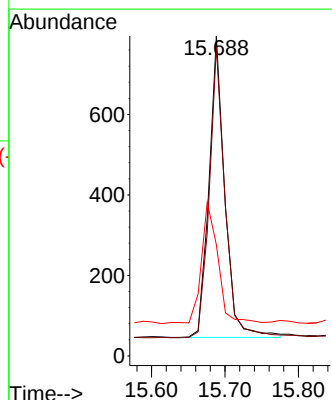
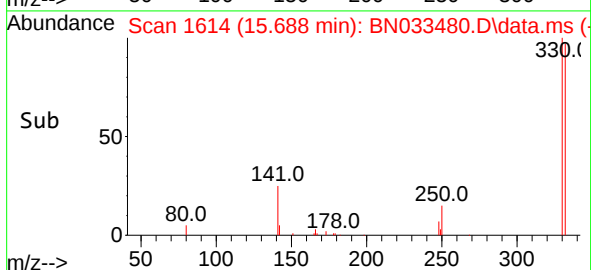
Supervised By :mohammad ahmed 08/22/2024

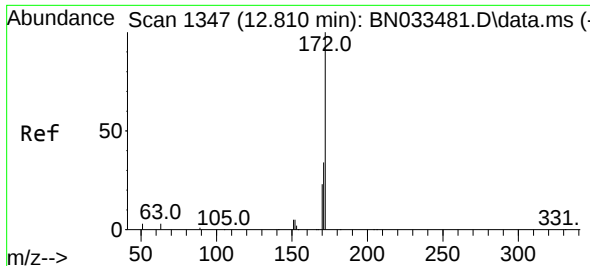


#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52



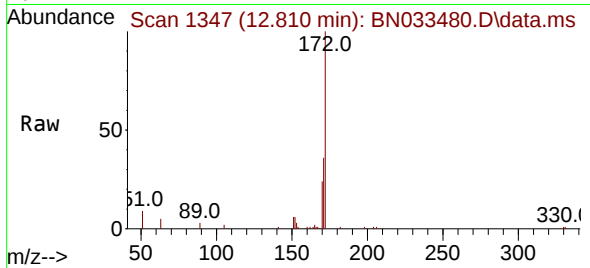
Tgt Ion:330 Resp: 1123
Ion Ratio Lower Upper
330 100
332 96.5 77.5 116.3
141 42.3 33.9 50.9





#15
2-Fluorobiphenyl
Concen: 0.198 ng
RT: 12.810 min Scan# 1347
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

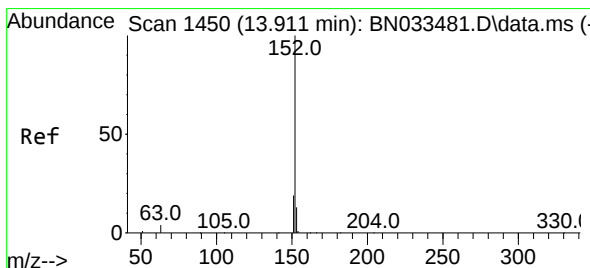
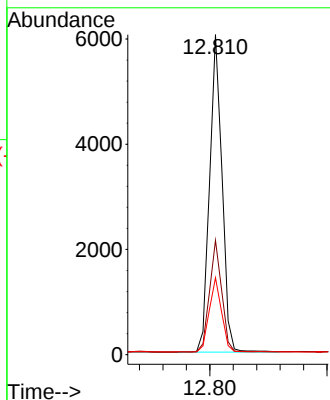
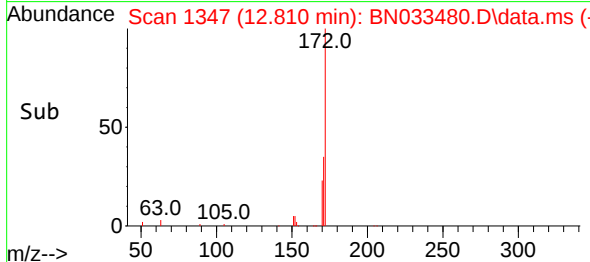
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



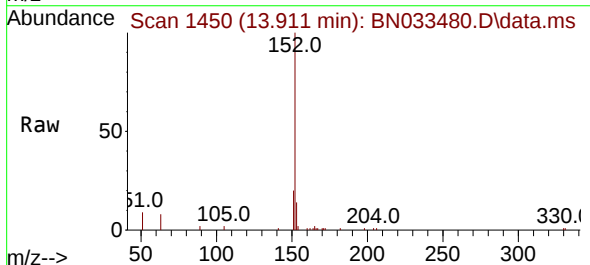
Tgt Ion:172 Resp: 888
Ion Ratio Lower Upper
172 100
171 35.7 27.7 41.5
170 24.0 18.3 27.5

Manual Integrations
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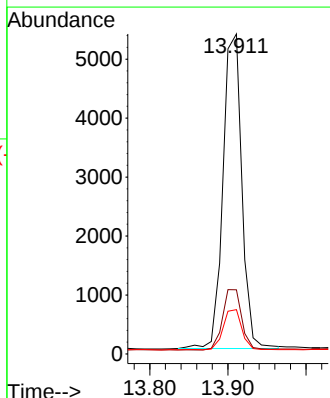
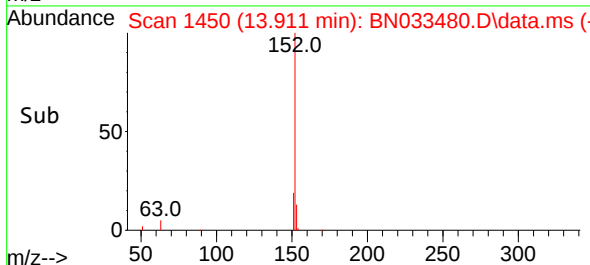
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

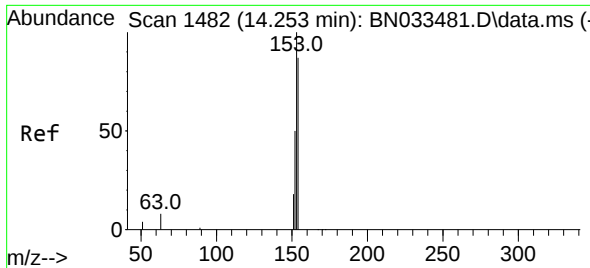


#16
Acenaphthylene
Concen: 0.175 ng
RT: 13.911 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52



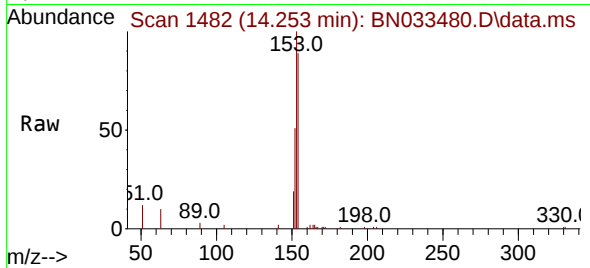
Tgt Ion:152 Resp: 8927
Ion Ratio Lower Upper
152 100
151 19.5 15.7 23.5
153 12.7 10.3 15.5





#17
Acenaphthene
Concen: 0.186 ng
RT: 14.253 min Scan# 1482
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

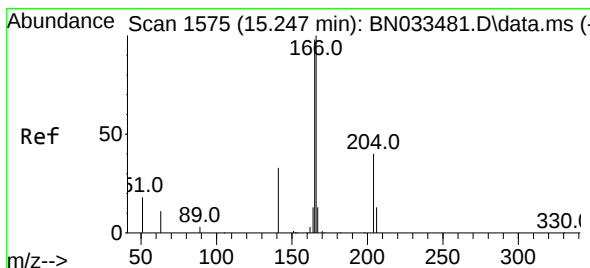
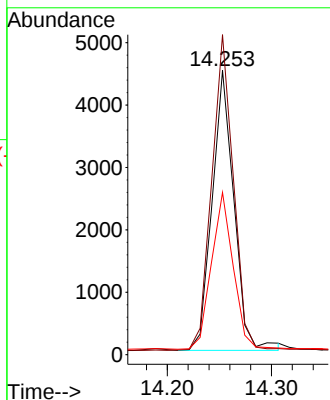
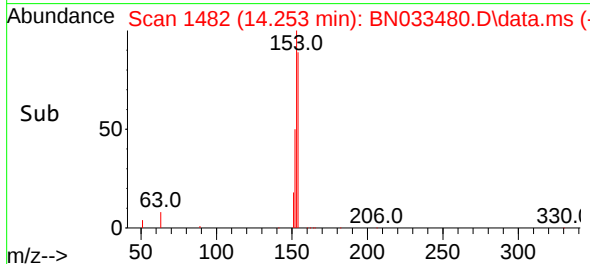
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



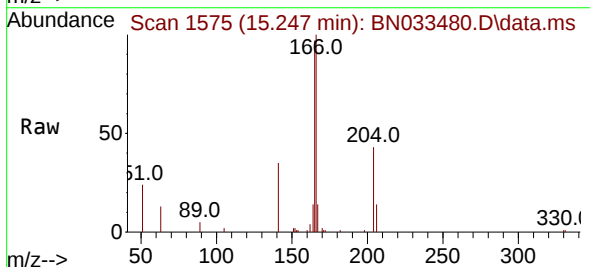
Tgt Ion:154 Resp: 6529
Ion Ratio Lower Upper
154 100
153 111.0 89.0 133.6
152 55.9 45.2 67.8

Manual Integrations
APPROVED

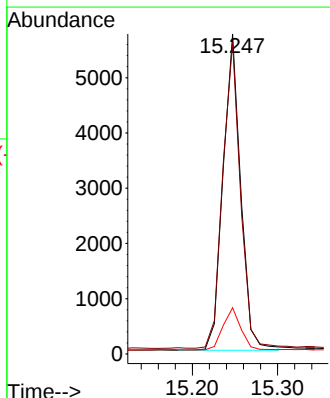
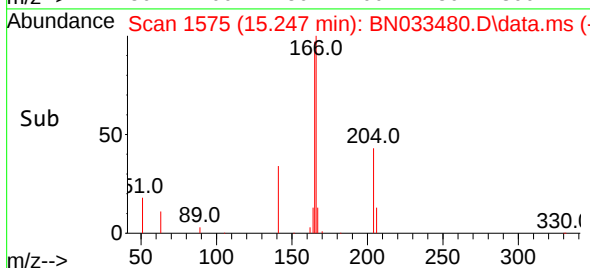
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

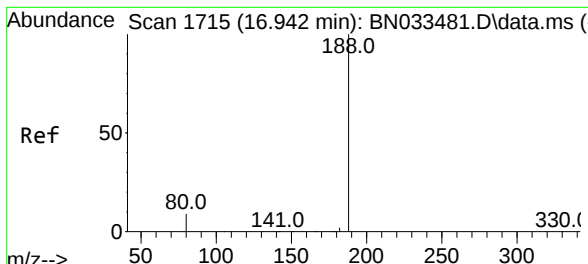


#18
Fluorene
Concen: 0.179 ng
RT: 15.247 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52



Tgt Ion:166 Resp: 8225
Ion Ratio Lower Upper
166 100
165 96.7 78.2 117.4
167 13.5 10.6 16.0





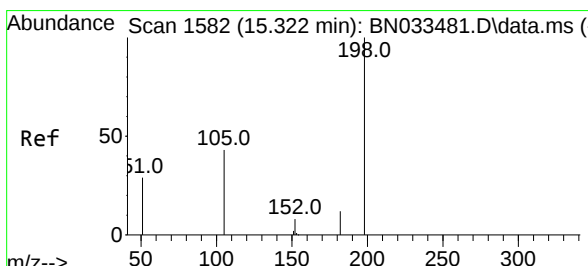
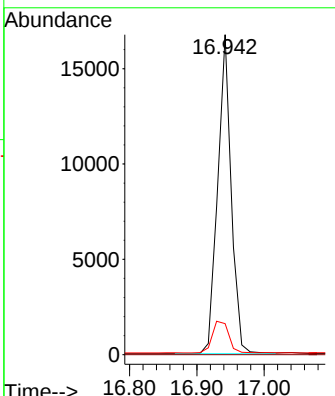
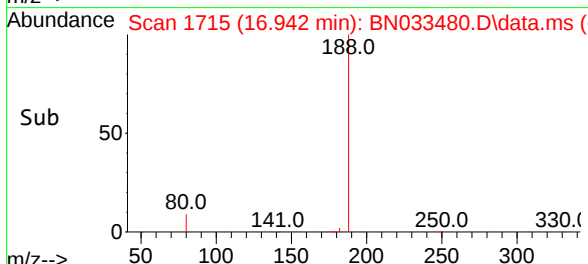
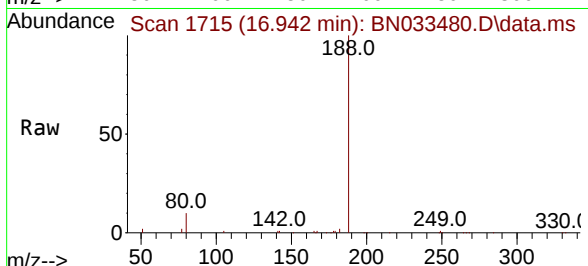
#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.942 min Scan# 1715
 Delta R.T. 0.000 min
 Lab File: BN033480.D
 Acq: 19 Aug 2024 16:52

Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

Tgt Ion:188	Resp:	2330
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	9.7	11.8

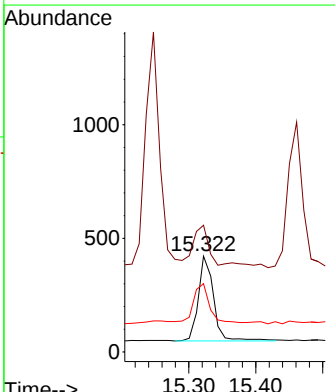
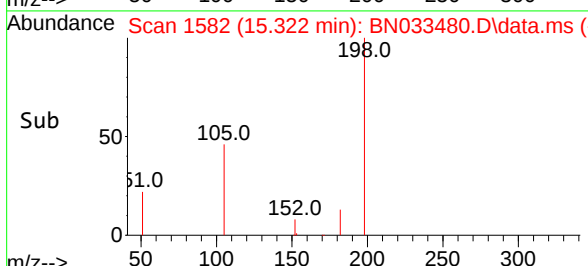
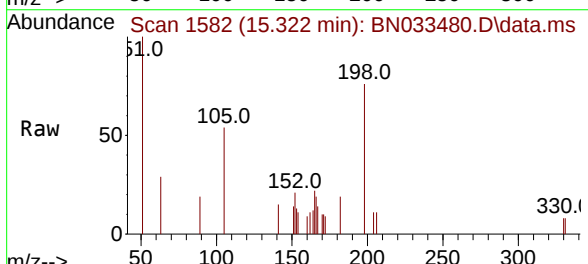
Manual Integrations
 APPROVED

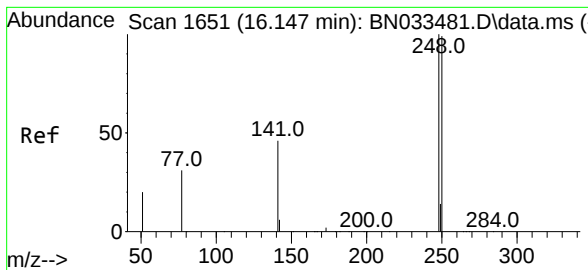
Reviewed By :Yogesh Patel 08/21/2024
 Supervised By :mohammad ahmed 08/22/2024



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.203 ng
 RT: 15.322 min Scan# 1582
 Delta R.T. 0.000 min
 Lab File: BN033480.D
 Acq: 19 Aug 2024 16:52

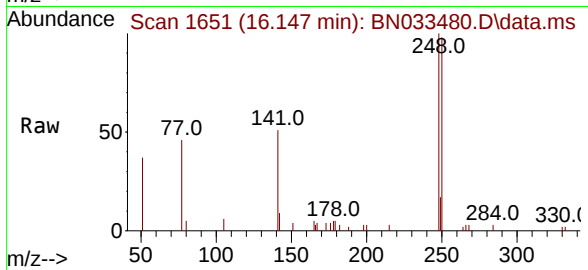
Tgt Ion:198	Resp:	589
Ion Ratio	Lower	Upper
198	100	
51	132.2	65.1
105	71.3	44.8





#21
4-Bromophenyl-phenylether
Concen: 0.194 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

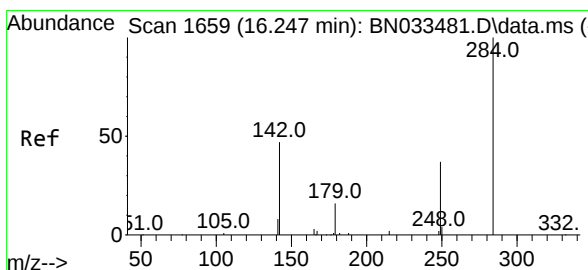
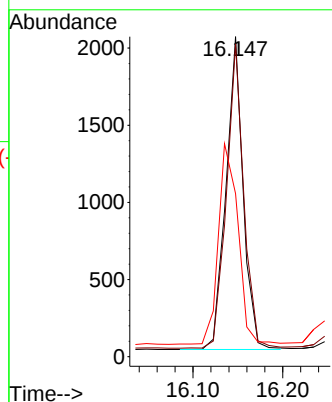
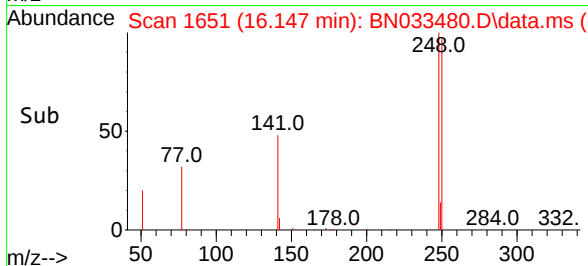
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:248 Resp: 2690
Ion Ratio Lower Upper
248 100
250 97.7 79.2 118.8
141 51.0 37.9 56.9

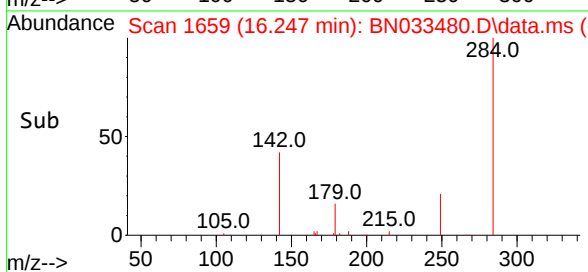
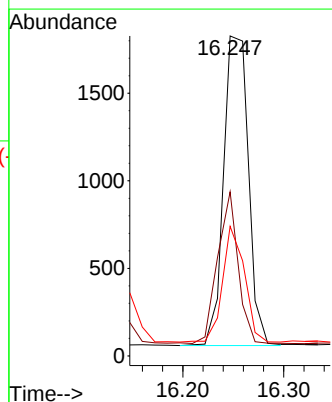
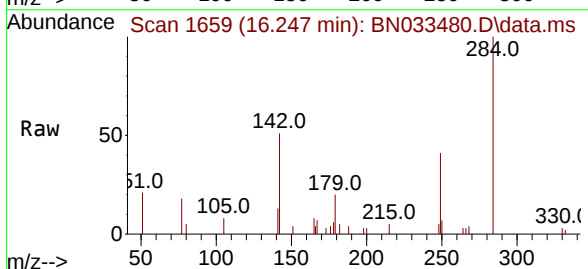
Manual Integrations
APPROVED

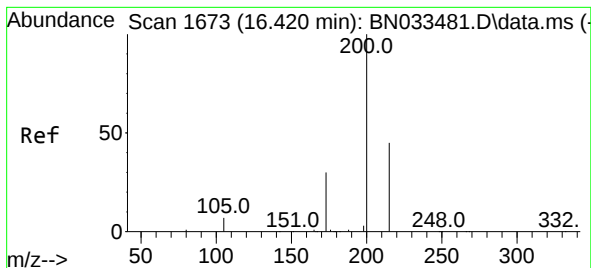
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:284 Resp: 3027
Ion Ratio Lower Upper
284 100
142 40.0 31.8 47.6
249 32.7 26.0 39.0





#23

Atrazine

Concen: 0.193 ng

RT: 16.421 min Scan# 1673

Delta R.T. 0.000 min

Lab File: BN033480.D

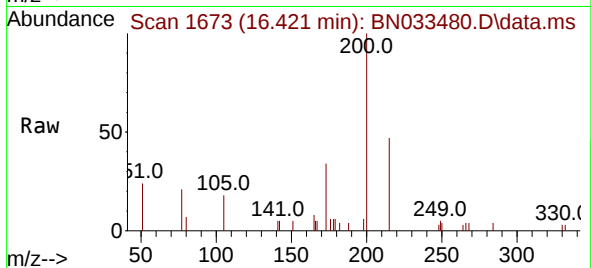
Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



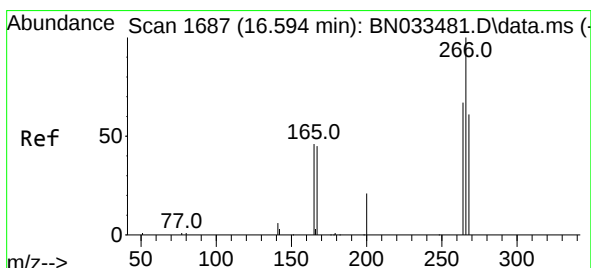
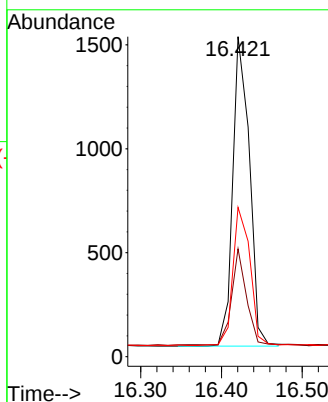
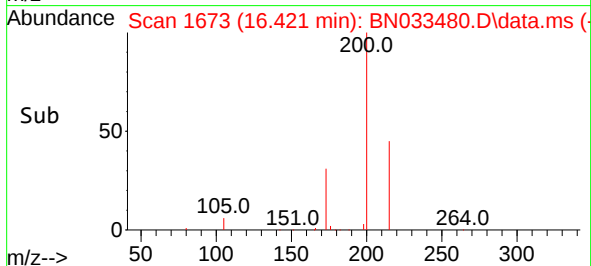
Tgt Ion:	200	Resp:	2139
Ion Ratio	Lower	Upper	
200	100		
173	33.7	25.3	37.9
215	46.7	36.6	54.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#24

Pentachlorophenol

Concen: 0.179 ng

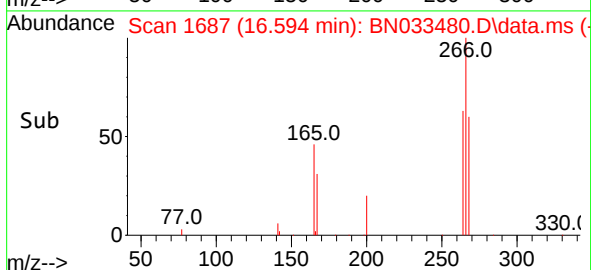
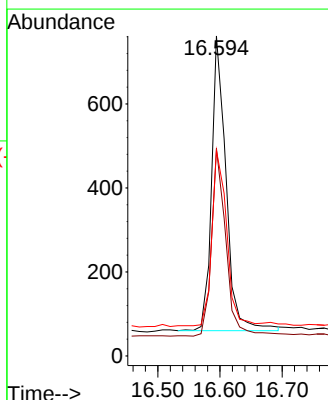
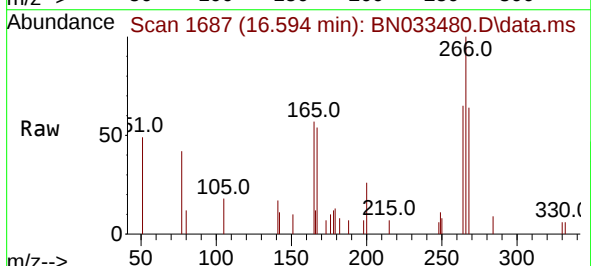
RT: 16.594 min Scan# 1687

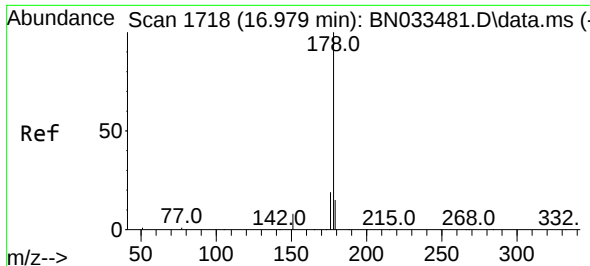
Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

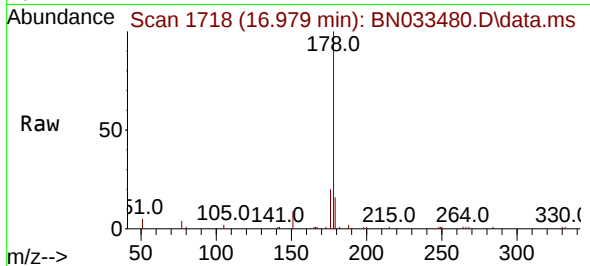
Tgt Ion:	266	Resp:	1137
Ion Ratio	Lower	Upper	
266	100		
264	63.3	51.9	77.9
268	61.2	51.0	76.4





#25
Phenanthrene
Concen: 0.187 ng
RT: 16.979 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

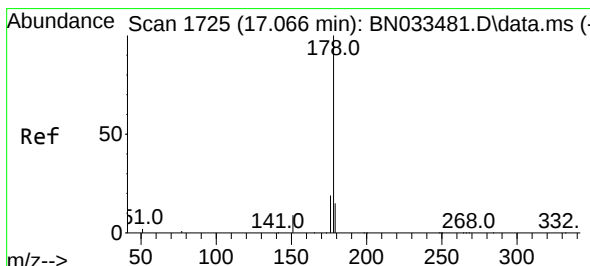
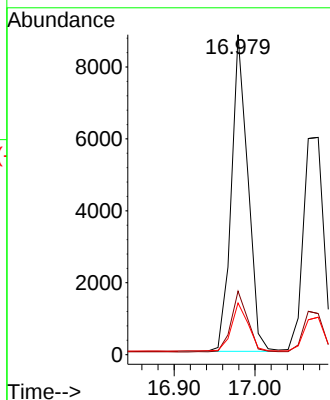
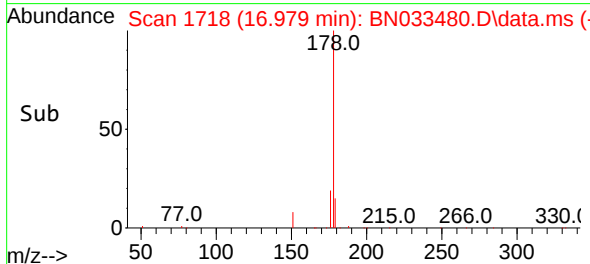
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



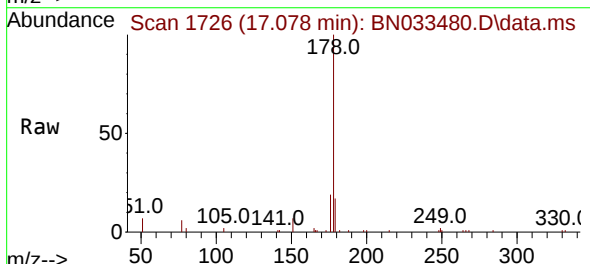
Tgt Ion:178 Resp: 12438
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.5 12.3 18.5

Manual Integrations
APPROVED

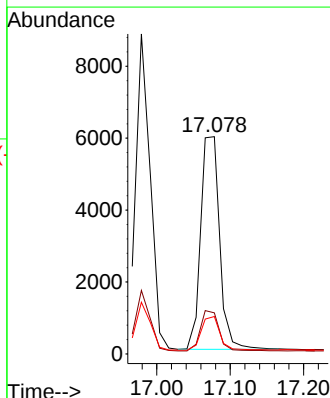
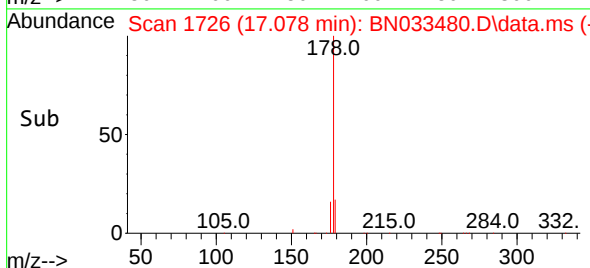
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

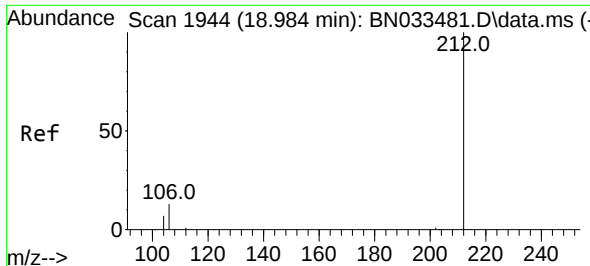


#26
Anthracene
Concen: 0.180 ng
RT: 17.078 min Scan# 1726
Delta R.T. 0.013 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52



Tgt Ion:178 Resp: 10626
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.5 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.175 ng
RT: 18.980 min Scan# 1944
Delta R.T. -0.005 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

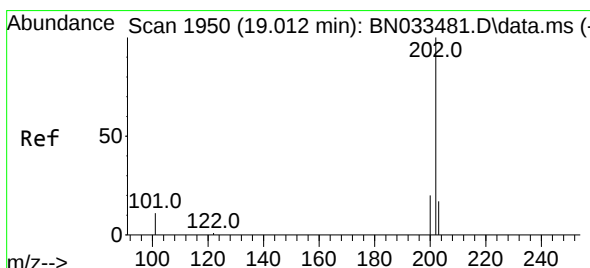
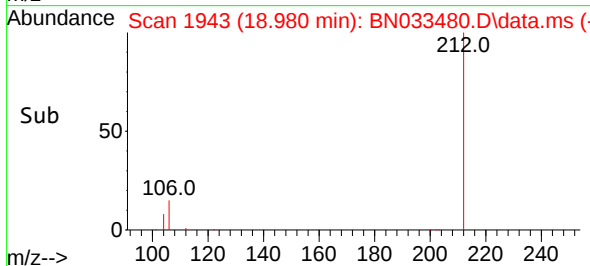
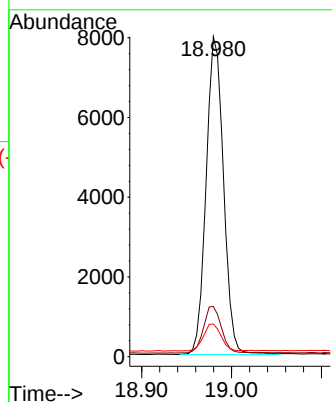
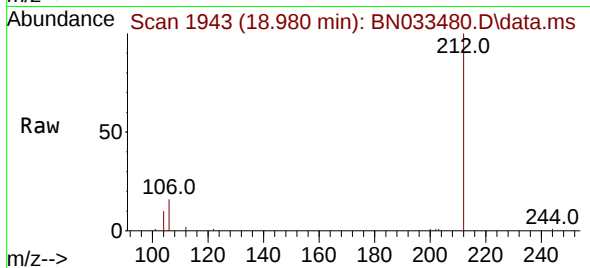
SSTDICC0.2

Tgt Ion:212 Resp: 1071
Ion Ratio Lower Upper
212 100
106 15.0 12.3 18.5
104 8.7 7.0 10.4

Manual Integrations

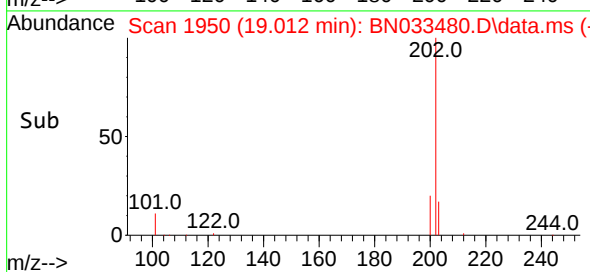
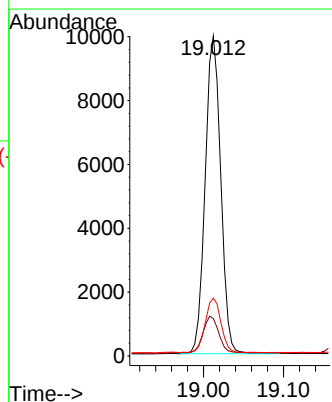
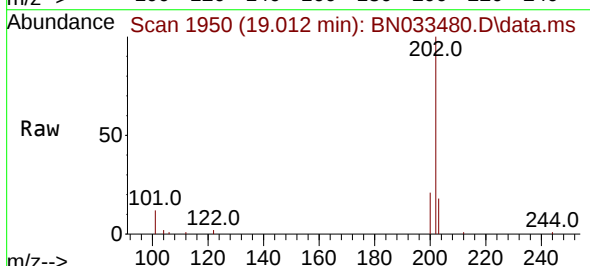
APPROVED

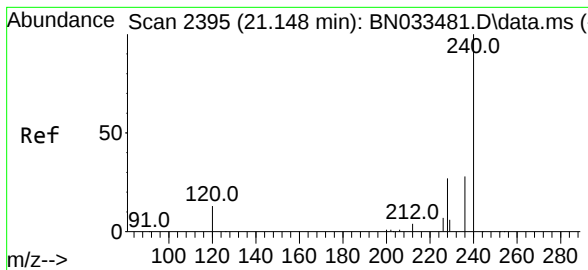
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#28
Fluoranthene
Concen: 0.166 ng
RT: 19.012 min Scan# 1950
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

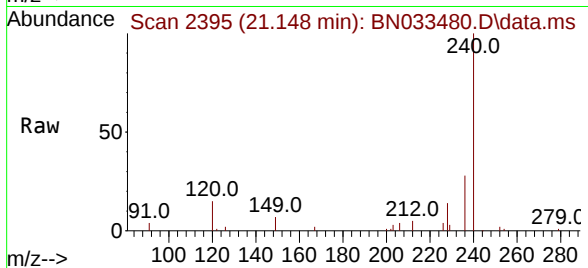
Tgt Ion:202 Resp: 13434
Ion Ratio Lower Upper
202 100
101 12.4 9.5 14.3
203 17.1 13.8 20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

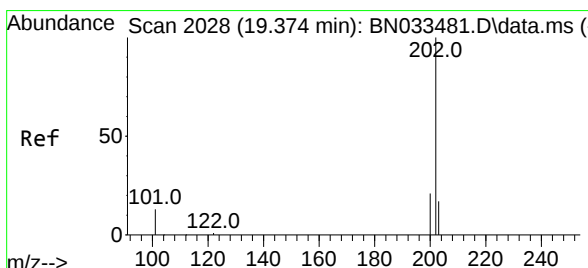
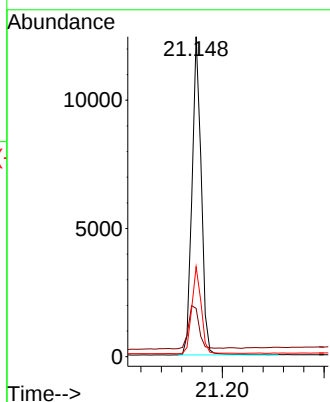
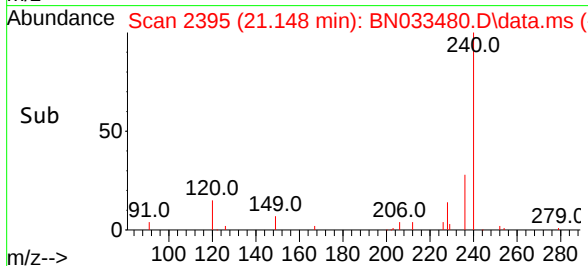
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



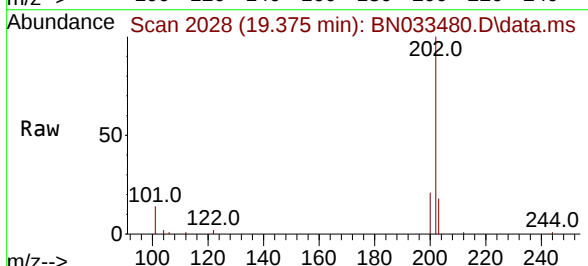
Tgt Ion:240 Resp: 15592
Ion Ratio Lower Upper
240 100
120 15.1 12.4 18.6
236 28.1 23.0 34.6

Manual Integrations
APPROVED

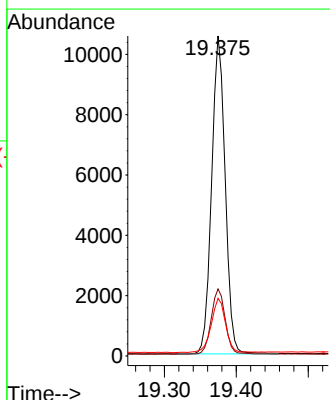
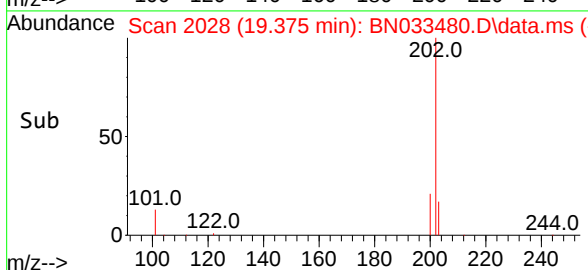
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

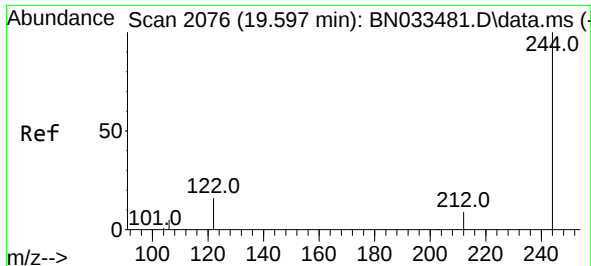


#30
Pyrene
Concen: 0.219 ng
RT: 19.375 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52



Tgt Ion:202 Resp: 13742
Ion Ratio Lower Upper
202 100
200 21.2 16.6 24.8
203 18.0 14.2 21.4





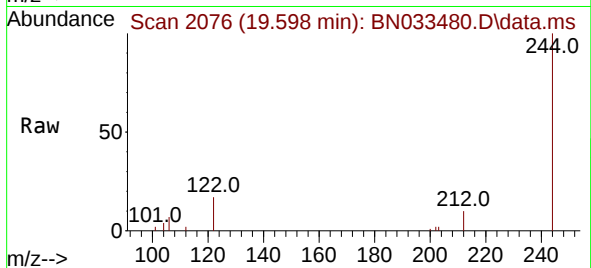
#31
 Terphenyl-d14
 Concen: 0.233 ng
 RT: 19.598 min Scan# 2076
 Delta R.T. 0.000 min
 Lab File: BN033480.D
 Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



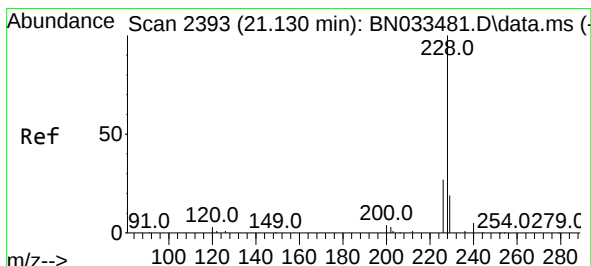
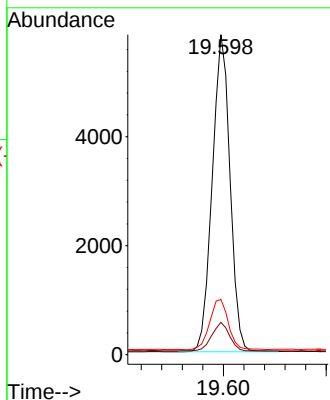
Tgt Ion:244 Resp: 6989
 Ion Ratio Lower Upper
 244 100
 212 10.1 7.8 11.6
 122 17.3 13.3 19.9

Manual Integrations

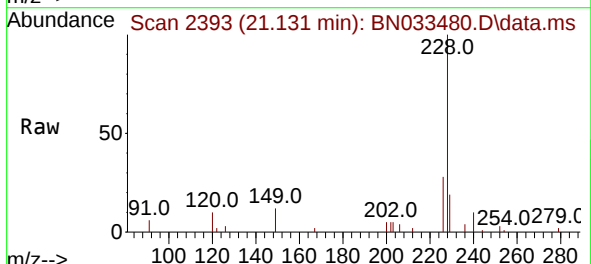
APPROVED

Reviewed By :Yogesh Patel 08/21/2024

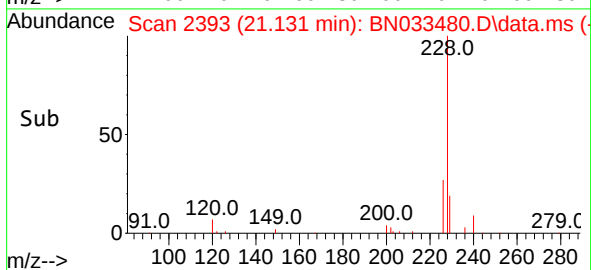
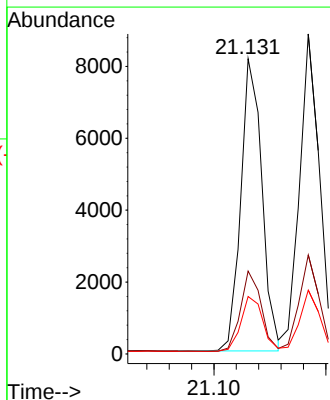
Supervised By :mohammad ahmed 08/22/2024

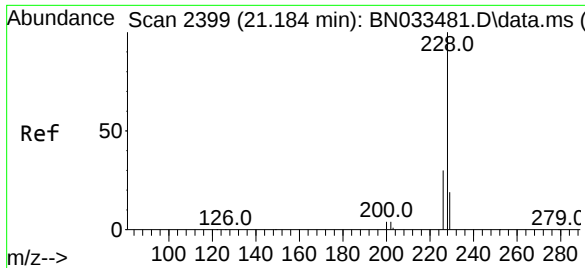


#32
 Benzo(a)anthracene
 Concen: 0.184 ng
 RT: 21.131 min Scan# 2393
 Delta R.T. 0.000 min
 Lab File: BN033480.D
 Acq: 19 Aug 2024 16:52



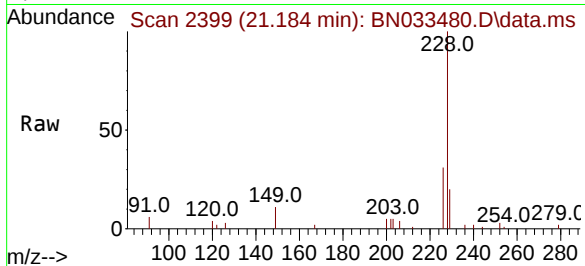
Tgt Ion:228 Resp: 10672
 Ion Ratio Lower Upper
 228 100
 226 28.1 21.8 32.6
 229 19.5 15.8 23.6





#33
Chrysene
Concen: 0.188 ng
RT: 21.184 min Scan# 21184
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

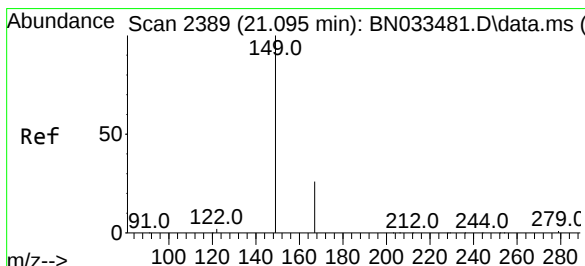
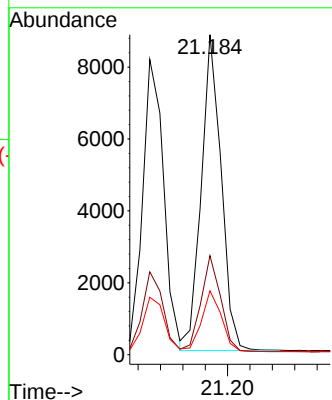
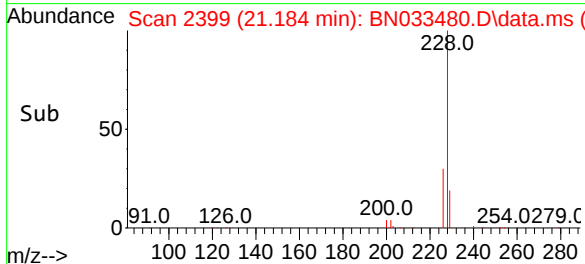
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



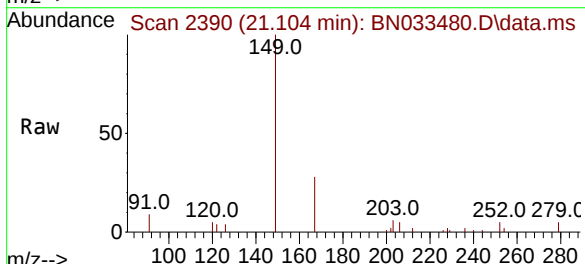
Tgt Ion:228 Resp: 1085
Ion Ratio Lower Upper
228 100
226 30.9 23.8 35.8
229 19.9 15.6 23.4

Manual Integrations
APPROVED

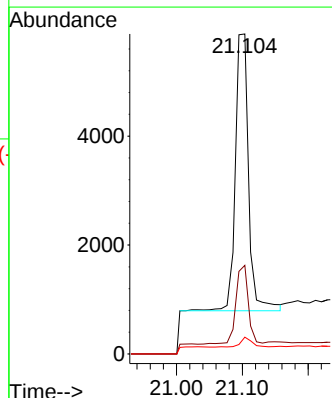
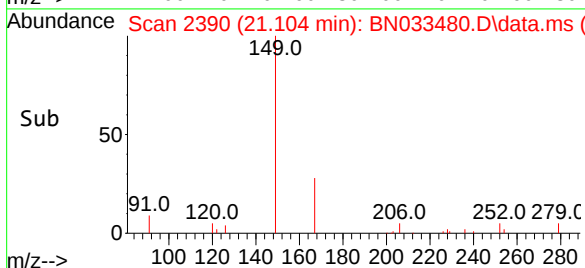
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024

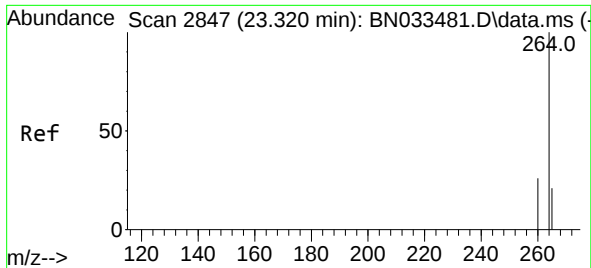


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.257 ng
RT: 21.104 min Scan# 2390
Delta R.T. 0.009 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52



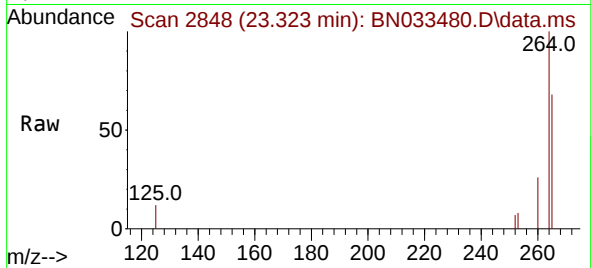
Tgt Ion:149 Resp: 7125
Ion Ratio Lower Upper
149 100
167 26.5 21.5 32.3
279 2.9 2.2 3.2





#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.323 min Scan# 2848
 Delta R.T. 0.003 min
 Lab File: BN033480.D
 Acq: 19 Aug 2024 16:52

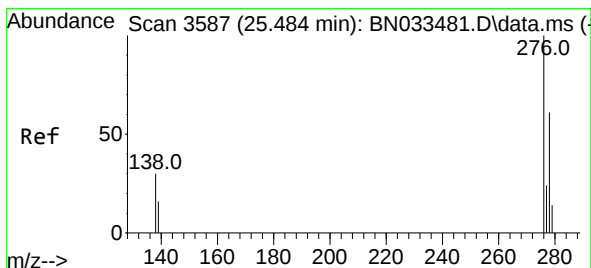
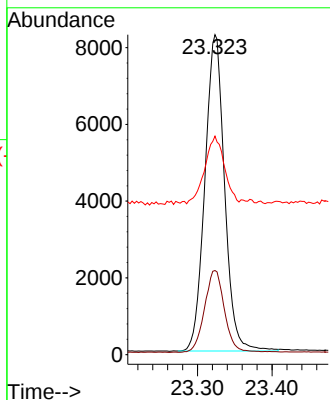
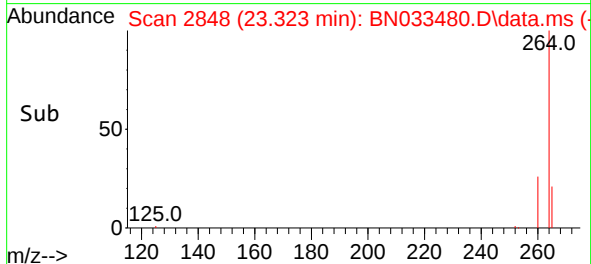
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion:264 Resp: 15110
 Ion Ratio Lower Upper
 264 100
 260 26.3 20.8 31.2
 265 68.3 52.2 78.2

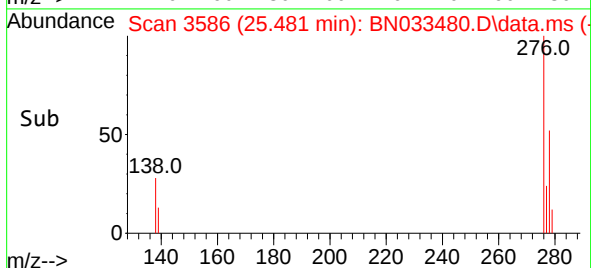
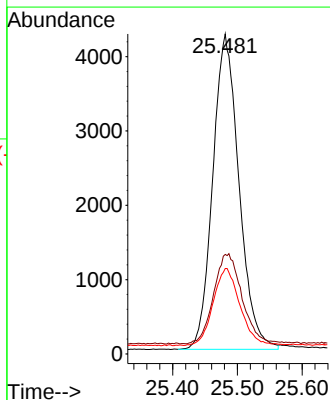
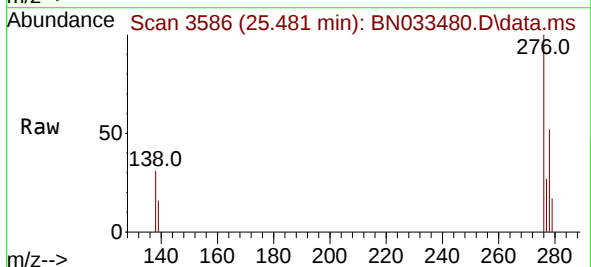
Manual Integrations
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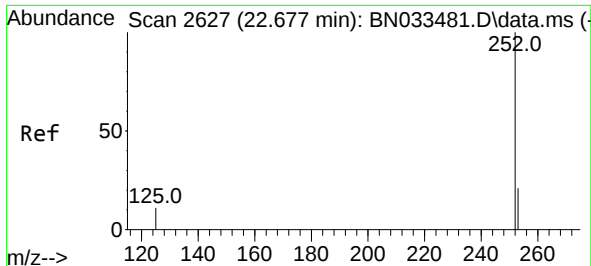
Reviewed By :Yogesh Patel 08/21/2024
 Supervised By :mohammad ahmed 08/22/2024



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.191 ng
 RT: 25.481 min Scan# 3586
 Delta R.T. -0.003 min
 Lab File: BN033480.D
 Acq: 19 Aug 2024 16:52

Tgt Ion:276 Resp: 11942
 Ion Ratio Lower Upper
 276 100
 138 30.9 24.4 36.6
 277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.192 ng

RT: 22.677 min Scan# 2627

Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

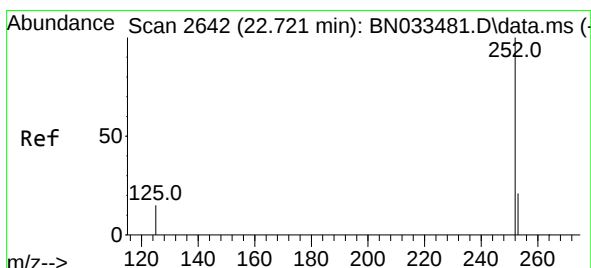
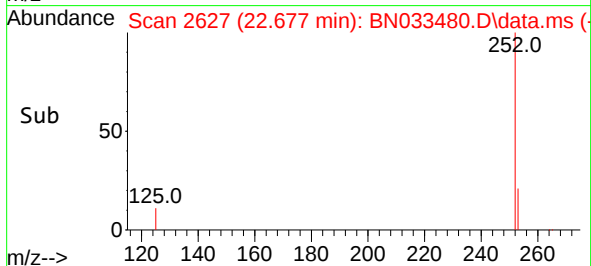
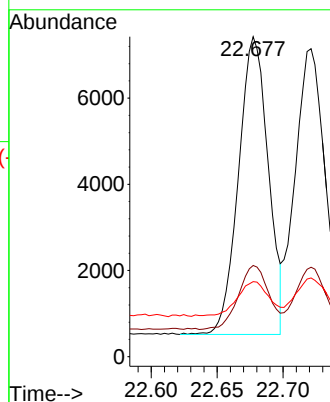
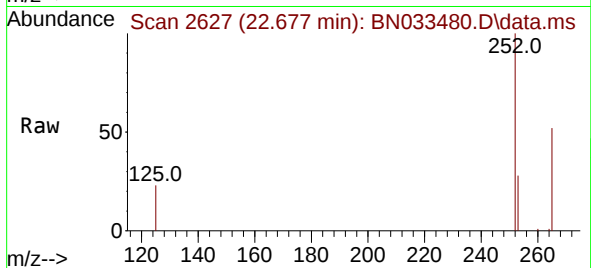
Tgt Ion:	252	Resp:	1082
Ion Ratio	Lower	Upper	
252	100		
253	28.5	19.8	29.8
125	23.5	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



#38

Benzo(k)fluoranthene

Concen: 0.184 ng m

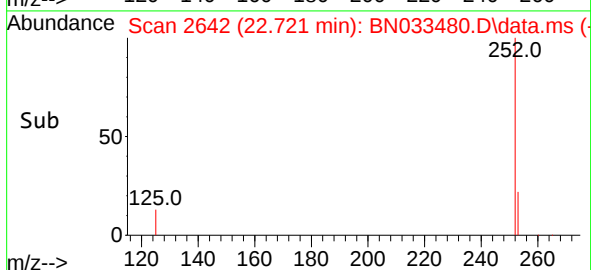
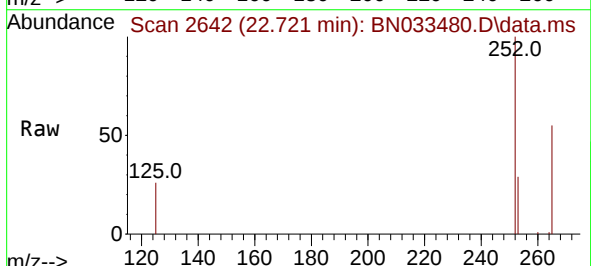
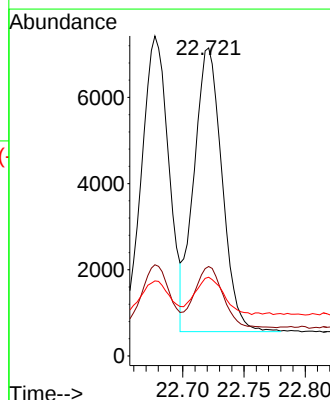
RT: 22.721 min Scan# 2642

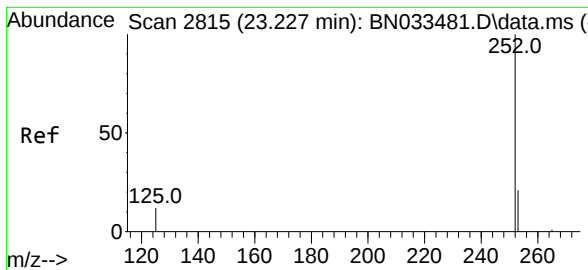
Delta R.T. 0.000 min

Lab File: BN033480.D

Acq: 19 Aug 2024 16:52

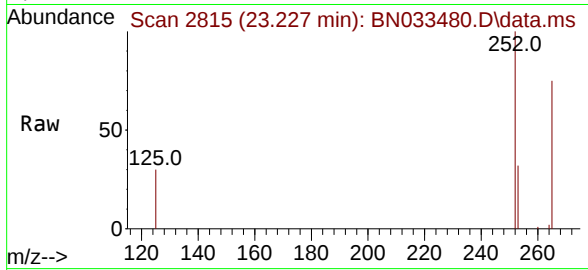
Tgt Ion:	252	Resp:	10527
Ion Ratio	Lower	Upper	
252	100		
253	29.0	19.8	29.8
125	25.6	15.8	23.8





#39
Benzo(a)pyrene
Concen: 0.184 ng
RT: 23.227 min Scan# 2815
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

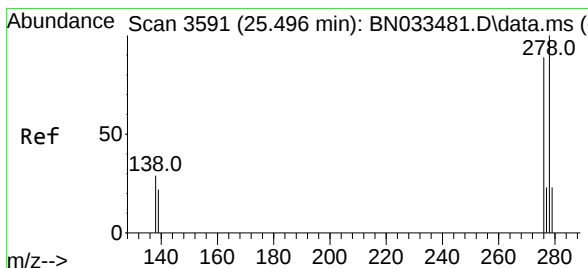
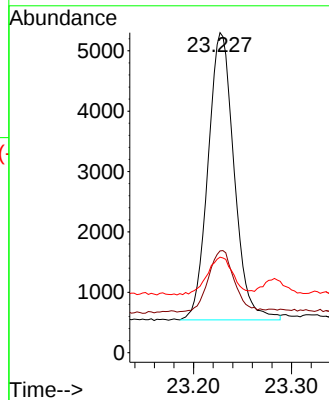
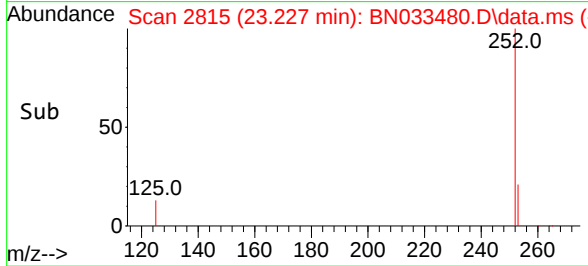
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:252 Resp: 8779
Ion Ratio Lower Upper
252 100
253 31.8 21.5 32.3
125 29.9 17.0 25.4

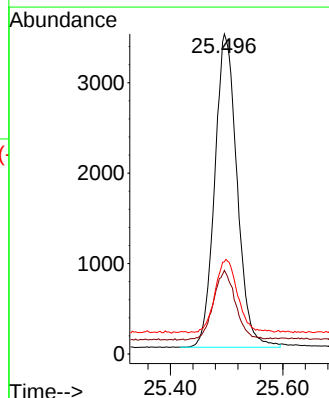
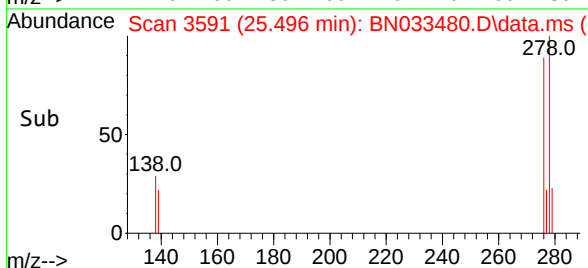
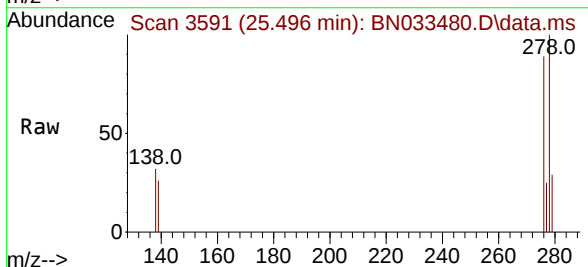
Manual Integrations
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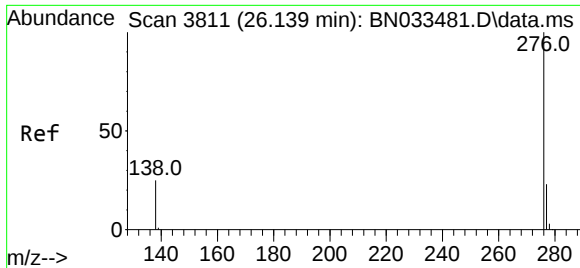
Reviewed By :Yogesh Patel 08/21/2024
Supervised By :mohammad ahmed 08/22/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.193 ng
RT: 25.496 min Scan# 3591
Delta R.T. 0.000 min
Lab File: BN033480.D
Acq: 19 Aug 2024 16:52

Tgt Ion:278 Resp: 9553
Ion Ratio Lower Upper
278 100
139 26.1 19.1 28.7
279 28.8 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.190 ng

RT: 26.136 min Scan# 3811

Delta R.T. -0.003 min

Lab File: BN033480.D

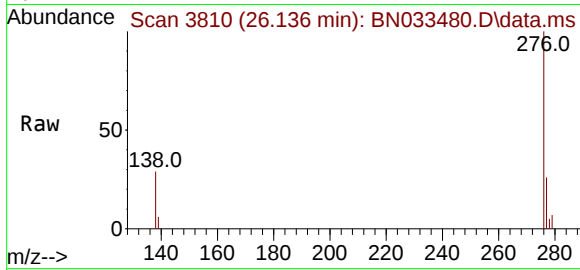
Acq: 19 Aug 2024 16:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 10368

Ion Ratio Lower Upper

276 100

277 26.2 19.7 29.5

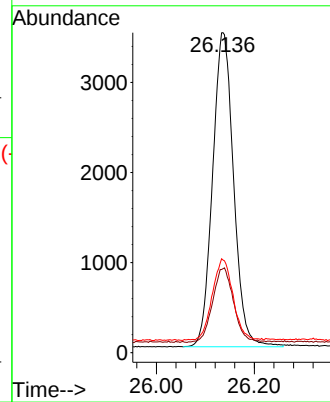
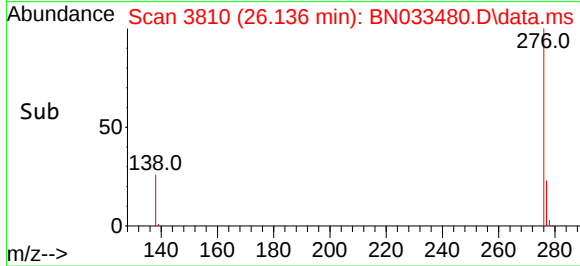
138 29.0 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2024

Supervised By :mohammad ahmed 08/22/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033481.D
 Acq On : 19 Aug 2024 17:28
 Operator : MA/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Aug 19 23:22:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

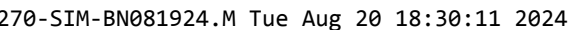
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

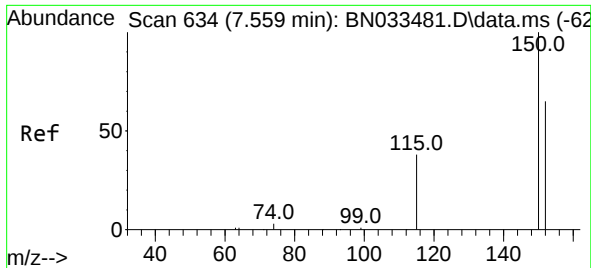
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	12893	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	24390	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	12011	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	24497	0.400	ng	0.00
29) Chrysene-d12	21.148	240	16119	0.400	ng	0.00
35) Perylene-d12	23.320	264	15903	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	16332	0.450	ng	0.00
5) Phenol-d6	6.743	99	17540	0.370	ng	0.00
8) Nitrobenzene-d5	8.691	82	7402	0.401	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	12006	0.327	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	2219	0.362	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	17864	0.367	ng	0.00
27) Fluoranthene-d10	18.984	212	21323	0.332	ng	0.00
31) Terphenyl-d14	19.597	244	13894	0.447	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.190	88	4244	0.306	ng	100
3) n-Nitrosodimethylamine	3.479	42	5877	0.327	ng	100
6) bis(2-Chloroethyl)ether	6.996	93	9709	0.263	ng	100
9) Naphthalene	10.368	128	23095	0.349	ng	100
10) Hexachlorobutadiene	10.667	225	4688	0.369	ng	# 100
12) 2-Methylnaphthalene	11.990	142	14284	0.323	ng	100
16) Acenaphthylene	13.911	152	18435	0.334	ng	100
17) Acenaphthene	14.253	154	13259	0.349	ng	100
18) Fluorene	15.247	166	16584	0.334	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	1253	0.410	ng	100
21) 4-Bromophenyl-phenylether	16.147	248	5430	0.372	ng	100
22) Hexachlorobenzene	16.247	284	6099	0.374	ng	100
23) Atrazine	16.420	200	4249	0.365	ng	100
24) Pentachlorophenol	16.594	266	2368	0.354	ng	100
25) Phenanthrene	16.979	178	25297	0.361	ng	100
26) Anthracene	17.066	178	21458	0.347	ng	100
28) Fluoranthene	19.012	202	27103	0.319	ng	100
30) Pyrene	19.374	202	27468	0.423	ng	100
32) Benzo(a)anthracene	21.130	228	21232	0.355	ng	100
33) Chrysene	21.184	228	21457	0.360	ng	100
34) Bis(2-ethylhexyl)phtha...	21.095	149	13125	0.459	ng	98
36) Indeno(1,2,3-cd)pyrene	25.484	276	24410	0.370	ng	100
37) Benzo(b)fluoranthene	22.677	252	21250	0.358	ng	100
38) Benzo(k)fluoranthene	22.721	252	21063	0.350	ng	100
39) Benzo(a)pyrene	23.227	252	17428	0.348	ng	100
40) Dibenzo(a,h)anthracene	25.496	278	19569	0.375	ng	100
41) Benzo(g,h,i)perylene	26.139	276	20604	0.359	ng	100

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

BNA N

ClientSampleId :
SSTDICCC0.4

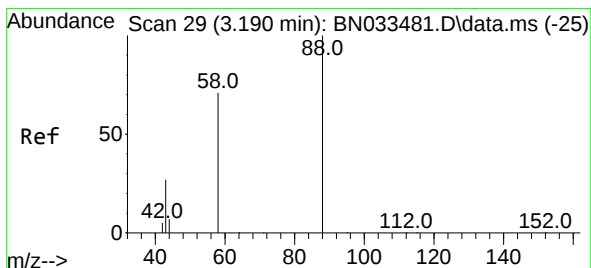
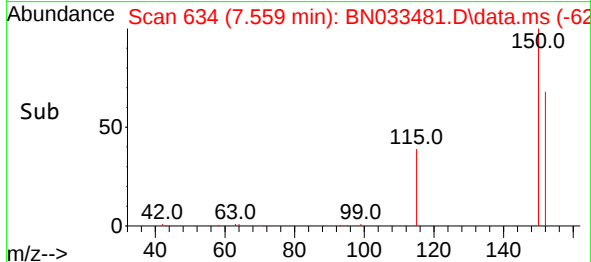
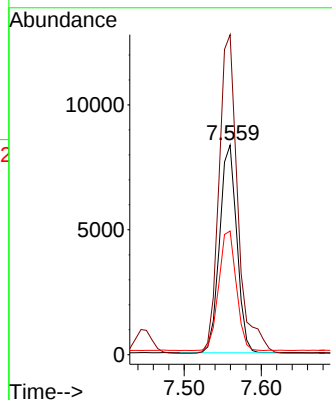
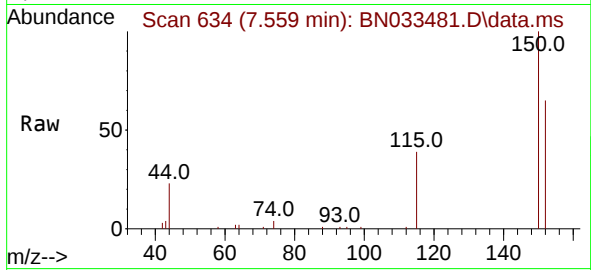
Abundance TIC: BN033481.D\data.ms



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

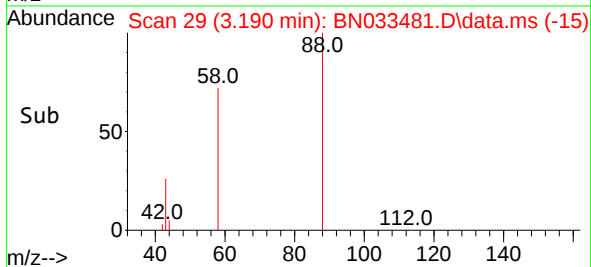
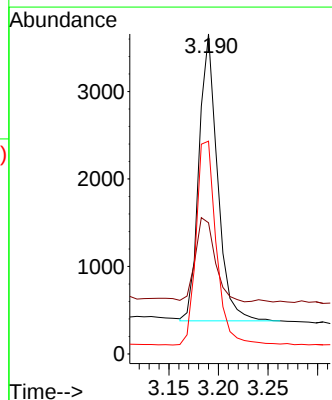
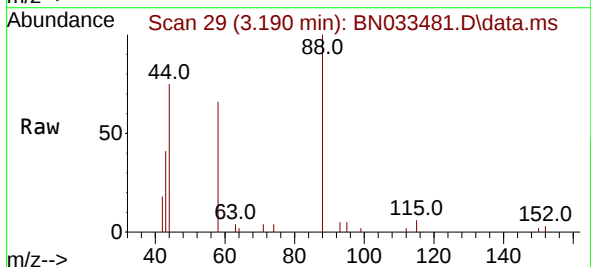
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

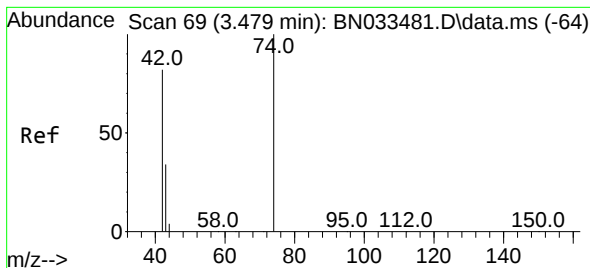
Tgt Ion:152 Resp: 12893
Ion Ratio Lower Upper
152 100
150 152.7 122.2 183.2
115 59.0 47.2 70.8



#2
1,4-Dioxane
Concen: 0.306 ng
RT: 3.190 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion: 88 Resp: 4244
Ion Ratio Lower Upper
88 100
43 31.2 25.0 37.4
58 78.1 62.5 93.7





#3

n-Nitrosodimethylamine

Concen: 0.327 ng

RT: 3.479 min Scan# 69

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

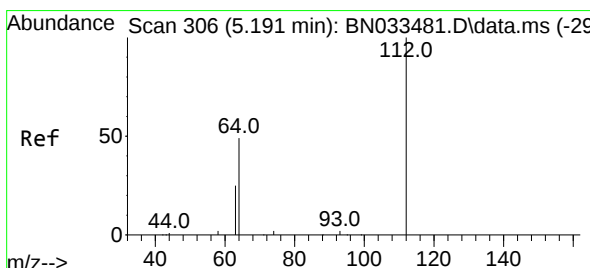
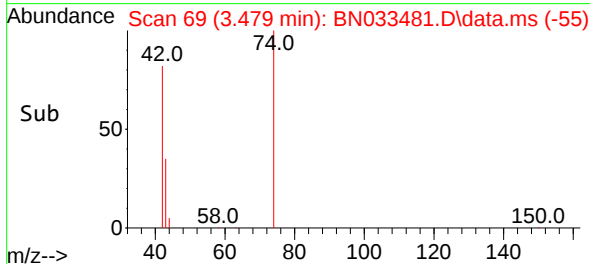
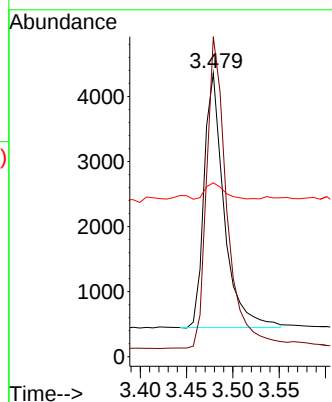
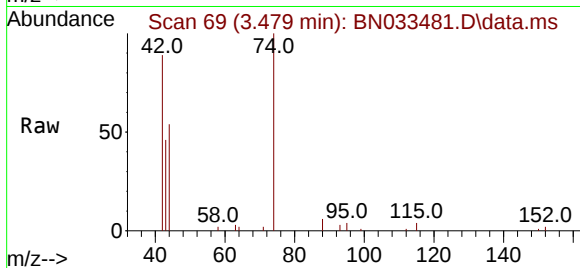
Tgt Ion: 42 Resp: 5877

Ion Ratio Lower Upper

42 100

74 125.2 100.2 150.2

44 6.6 5.3 7.9



#4

2-Fluorophenol

Concen: 0.450 ng

RT: 5.191 min Scan# 306

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

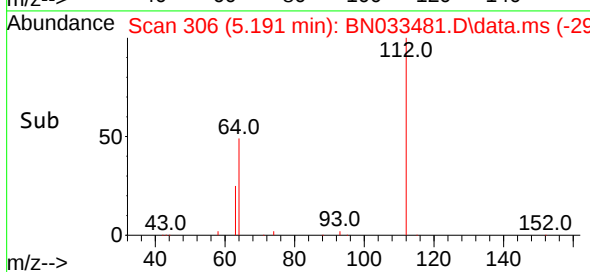
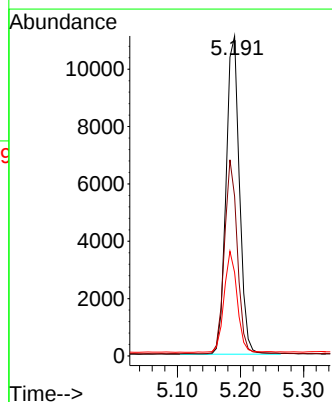
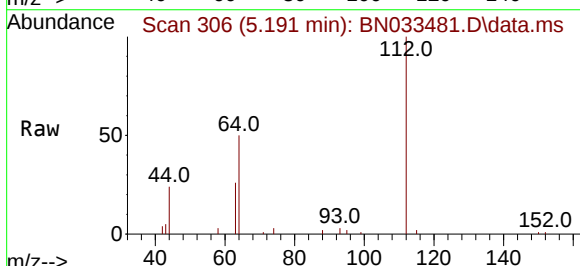
Tgt Ion: 112 Resp: 16332

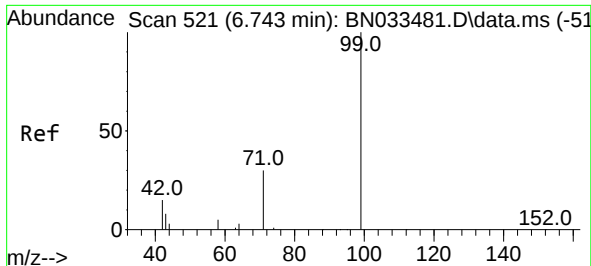
Ion Ratio Lower Upper

112 100

64 59.0 47.1 70.7

63 31.0 24.9 37.3

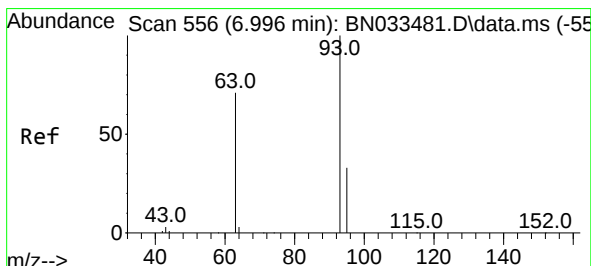
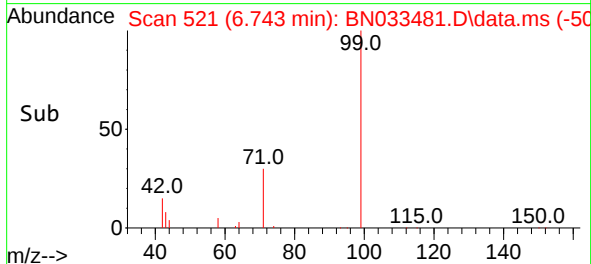
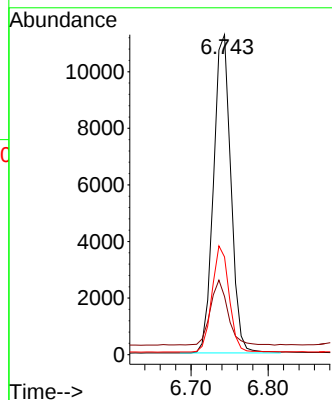
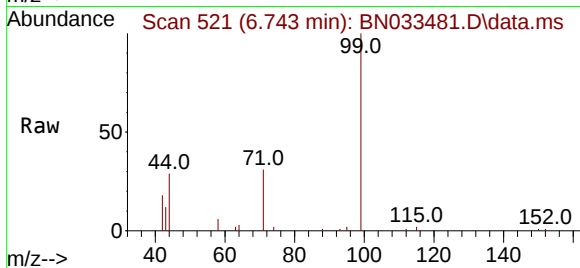




#5
Phenol-d6
Concen: 0.370 ng
RT: 6.743 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

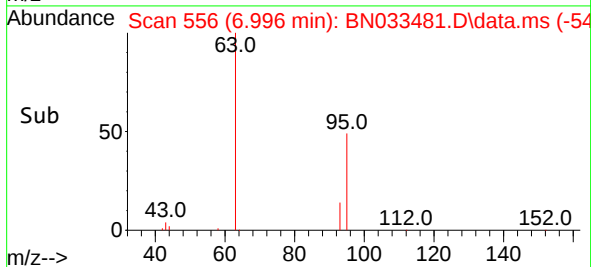
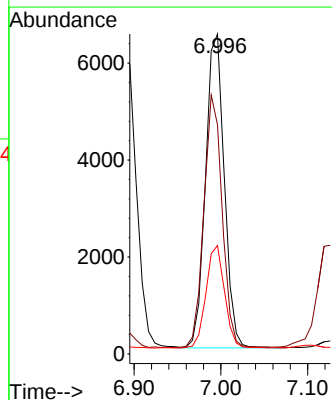
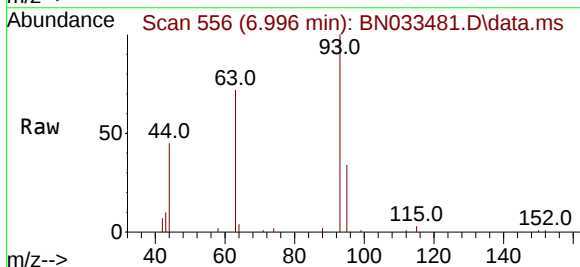
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

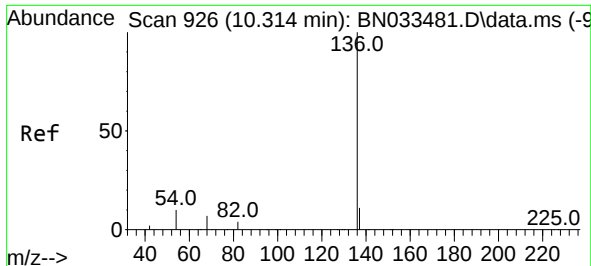
Tgt Ion: 99 Resp: 17540
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 32.9 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.263 ng
RT: 6.996 min Scan# 556
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion: 93 Resp: 9709
Ion Ratio Lower Upper
93 100
63 78.6 63.0 94.4
95 32.4 26.0 39.0

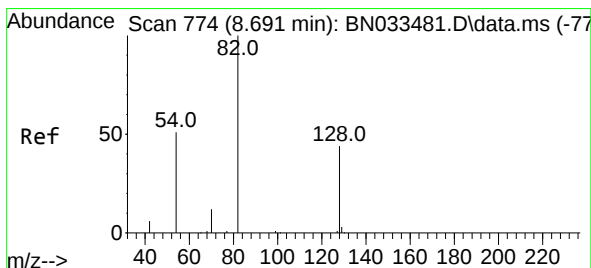
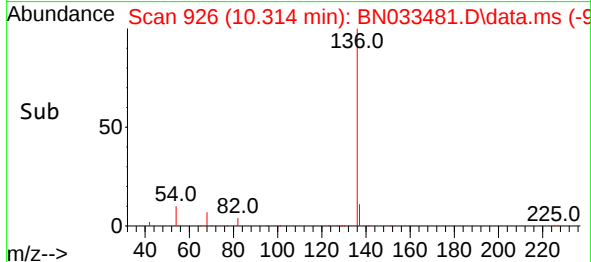
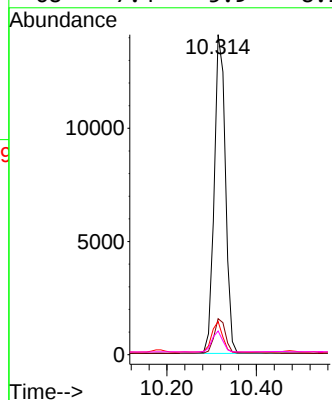
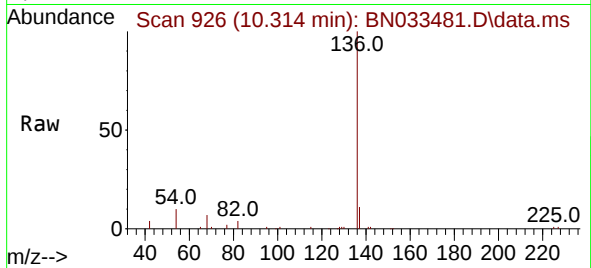




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

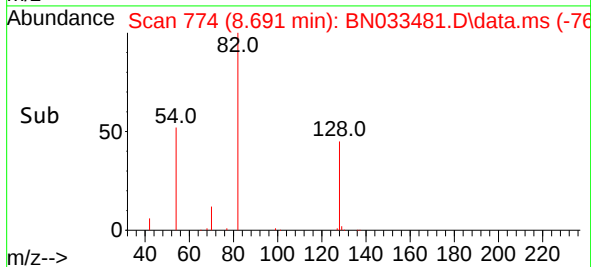
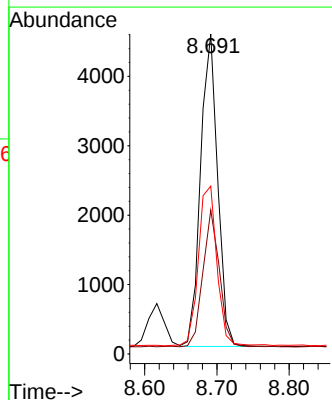
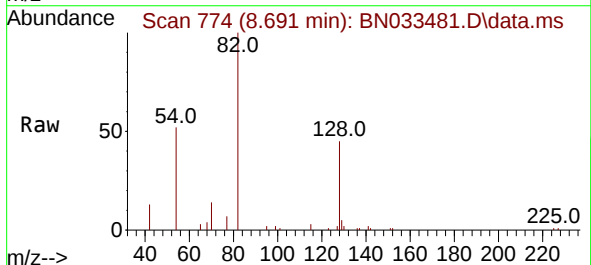
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

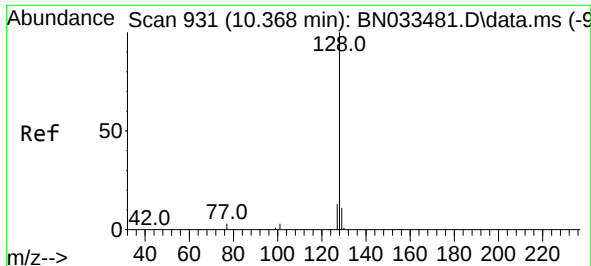
Tgt Ion:	136	Resp:	24390
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	10.4	8.3	12.5
68	7.4	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.691 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:	82	Resp:	7402
Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.0	54.0
54	52.5	42.0	63.0

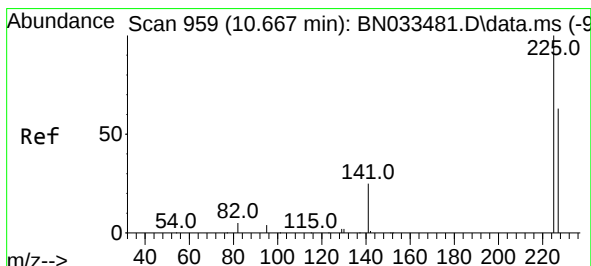
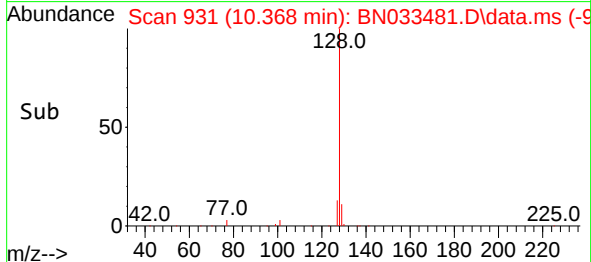
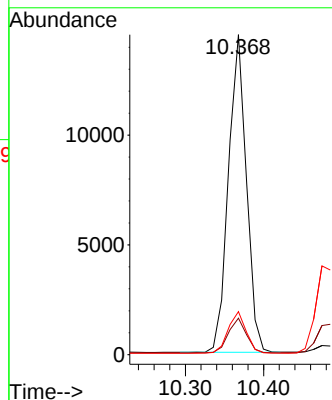
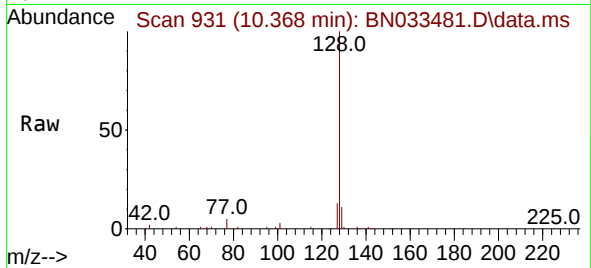




#9
Naphthalene
Concen: 0.349 ng
RT: 10.368 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

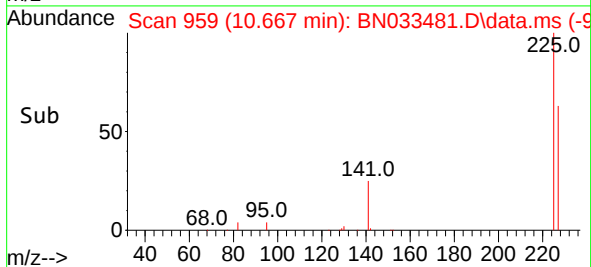
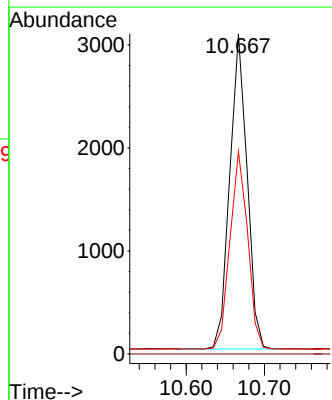
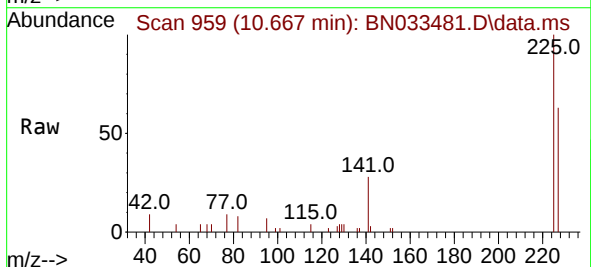
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

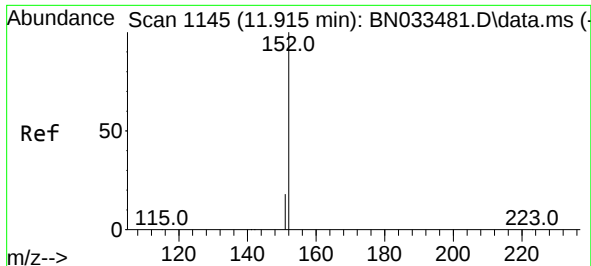
Tgt Ion:128 Resp: 23095
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.4 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.369 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:225 Resp: 4688
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.2 76.8

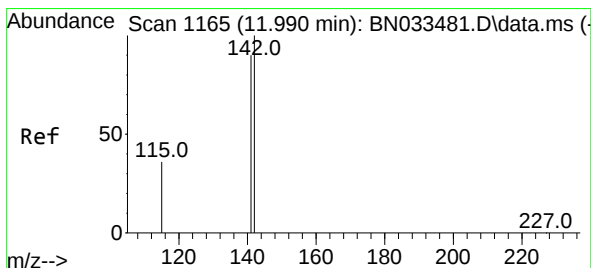
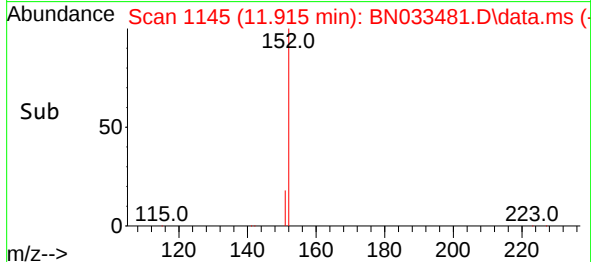
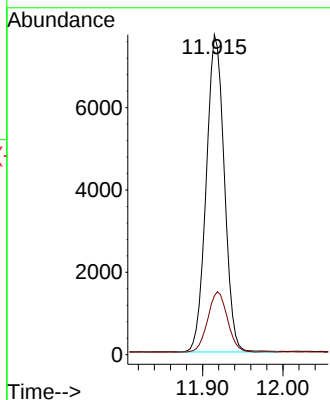
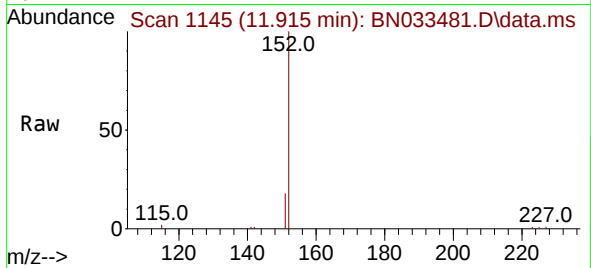




#11
2-Methylnaphthalene-d10
Concen: 0.327 ng
RT: 11.915 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

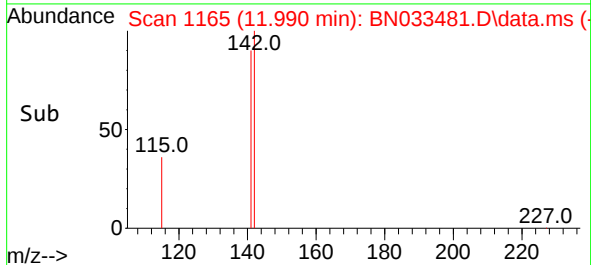
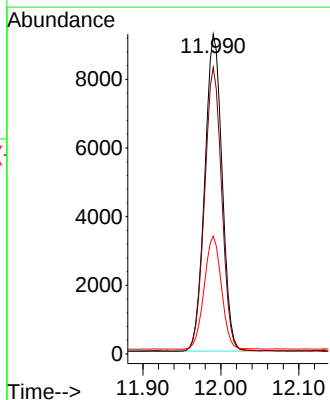
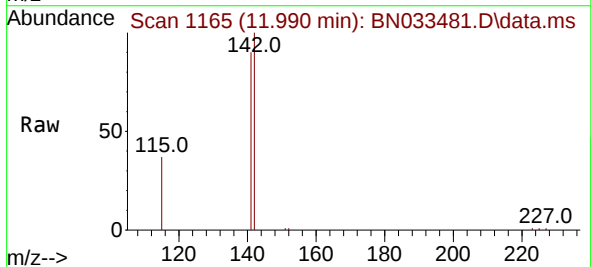
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

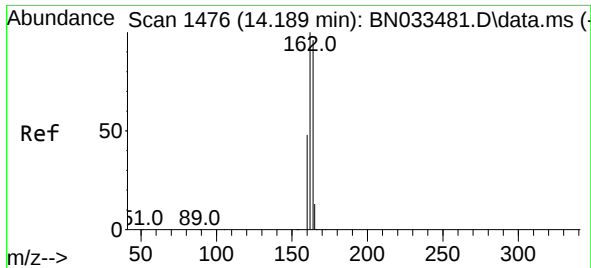
Tgt Ion:152 Resp: 12006
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.323 ng
RT: 11.990 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:142 Resp: 14284
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 36.8 29.4 44.2

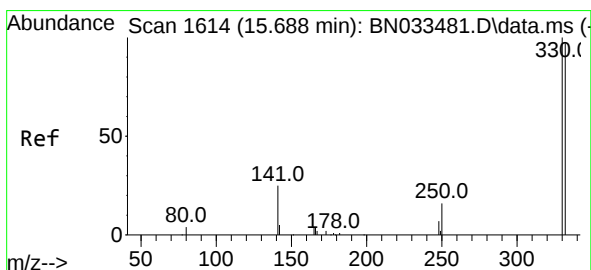
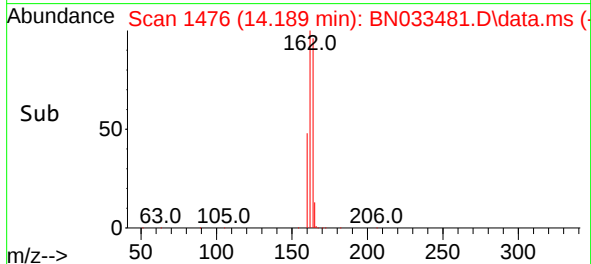
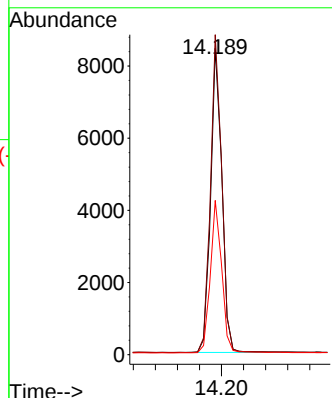
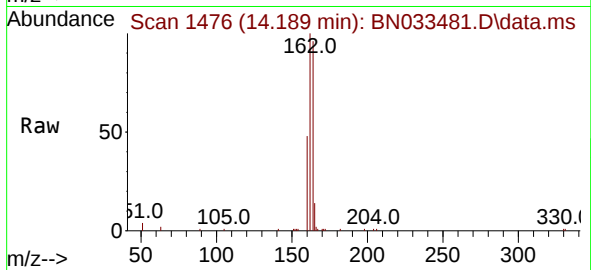




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

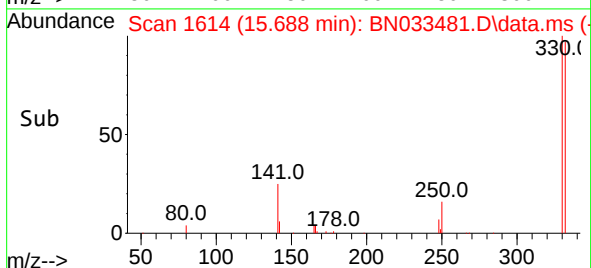
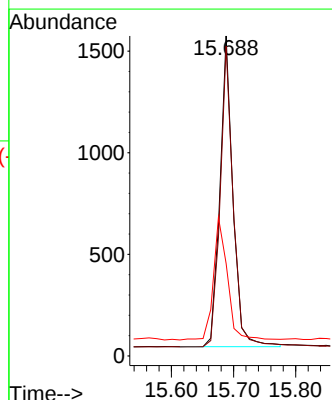
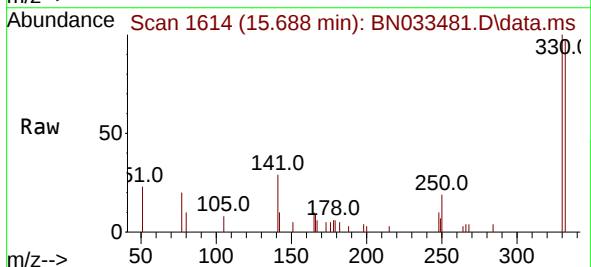
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

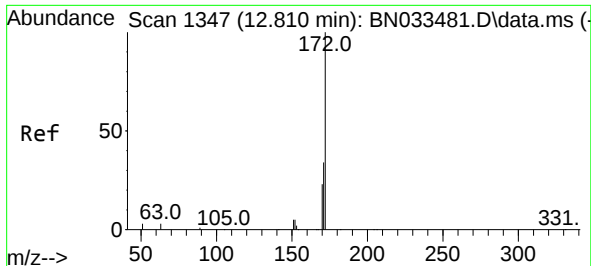
Tgt Ion:164 Resp: 12011
Ion Ratio Lower Upper
164 100
162 104.4 83.5 125.3
160 50.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.362 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:330 Resp: 2219
Ion Ratio Lower Upper
330 100
332 96.9 77.5 116.3
141 42.4 33.9 50.9

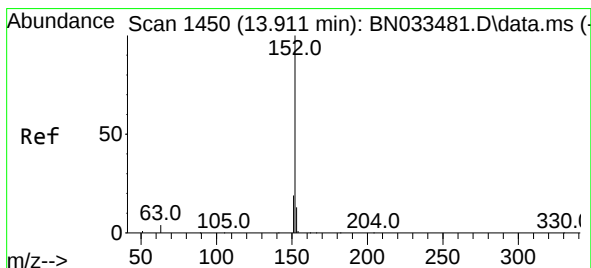
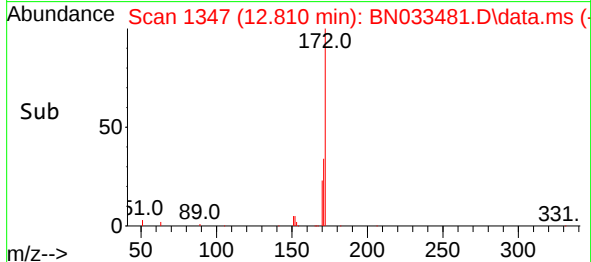
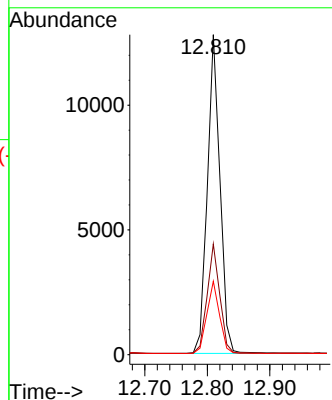
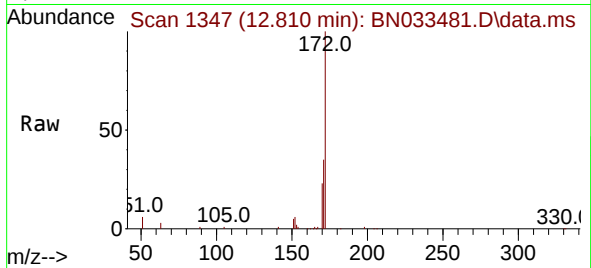




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.810 min Scan# 1347
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

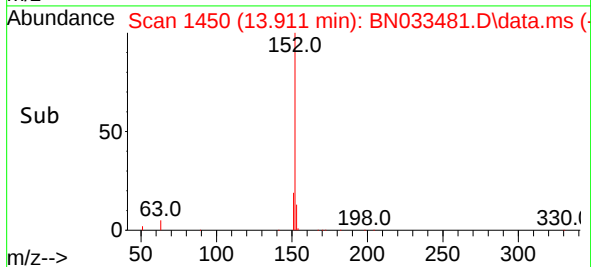
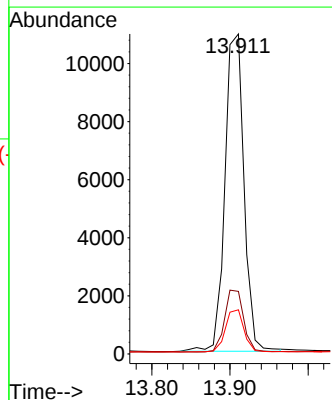
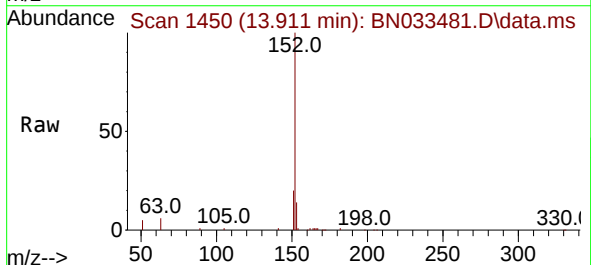
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

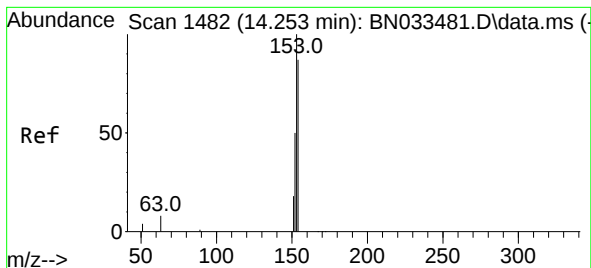
Tgt Ion:172 Resp: 17864
Ion Ratio Lower Upper
172 100
171 34.6 27.7 41.5
170 22.9 18.3 27.5



#16
Acenaphthylene
Concen: 0.334 ng
RT: 13.911 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:152 Resp: 18435
Ion Ratio Lower Upper
152 100
151 19.6 15.7 23.5
153 12.9 10.3 15.5





#17

Acenaphthene

Concen: 0.349 ng

RT: 14.253 min Scan# 1482

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

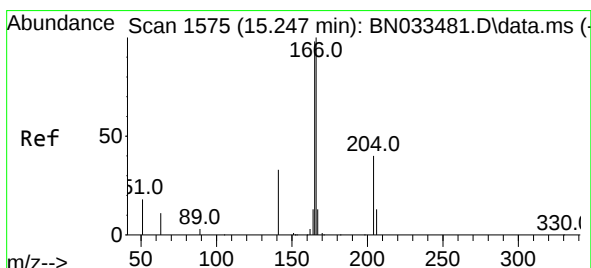
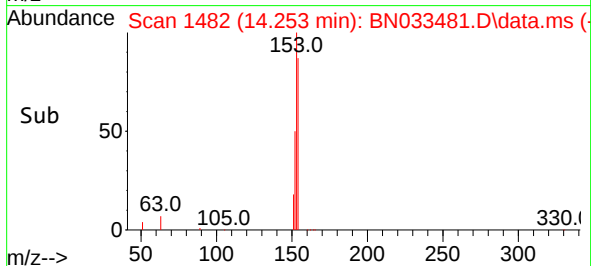
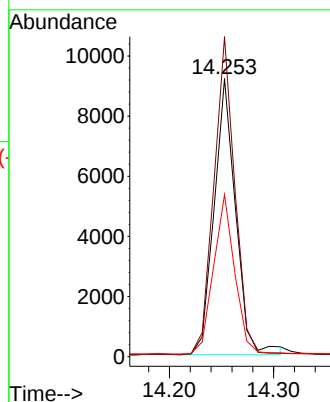
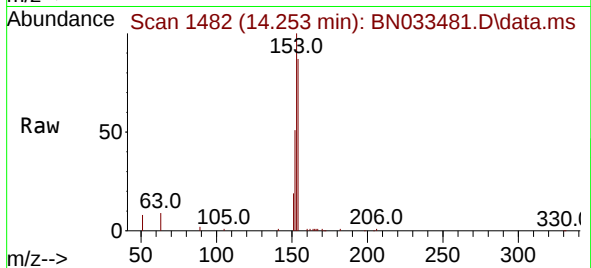
Tgt Ion:154 Resp: 13259

Ion Ratio Lower Upper

154 100

153 111.3 89.0 133.6

152 56.5 45.2 67.8



#18

Fluorene

Concen: 0.334 ng

RT: 15.247 min Scan# 1575

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

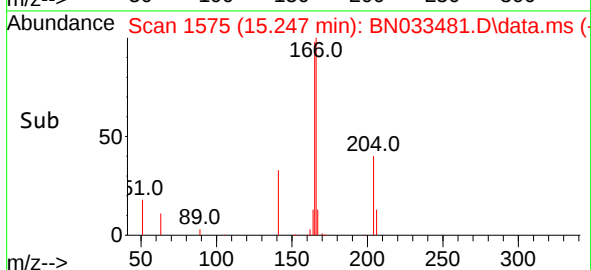
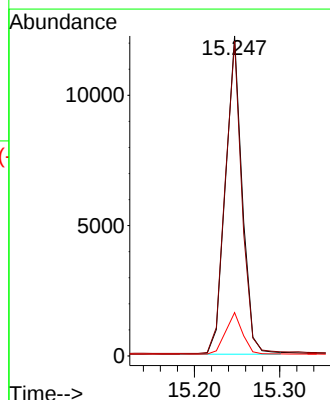
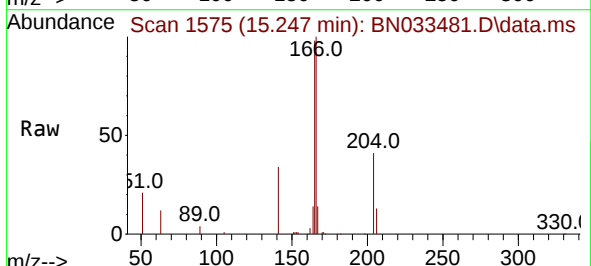
Tgt Ion:166 Resp: 16584

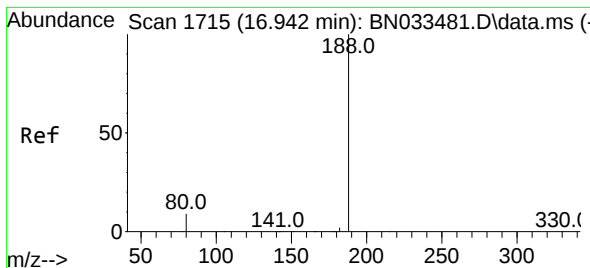
Ion Ratio Lower Upper

166 100

165 97.8 78.2 117.4

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

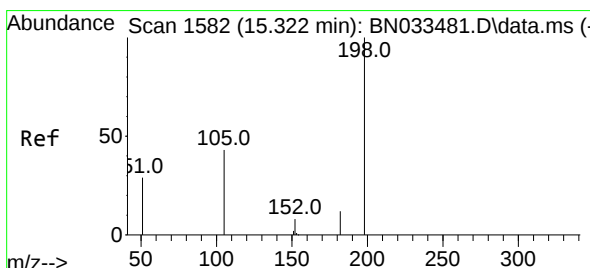
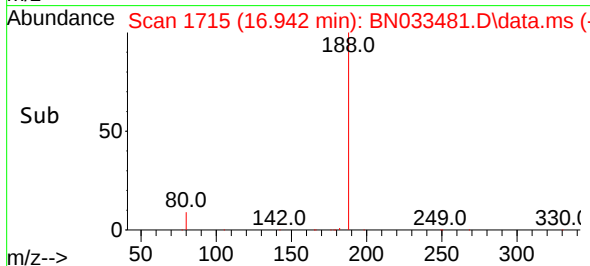
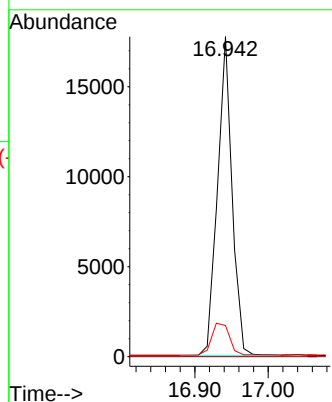
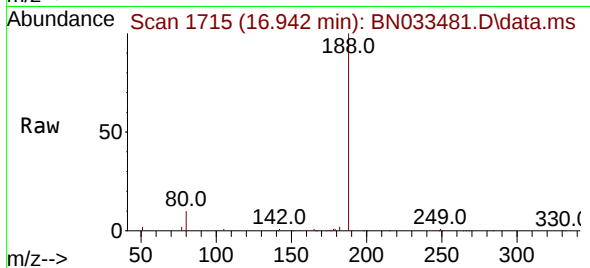
Tgt Ion:188 Resp: 24497

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.8 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.410 ng

RT: 15.322 min Scan# 1582

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

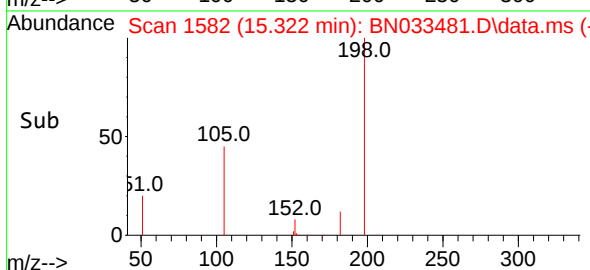
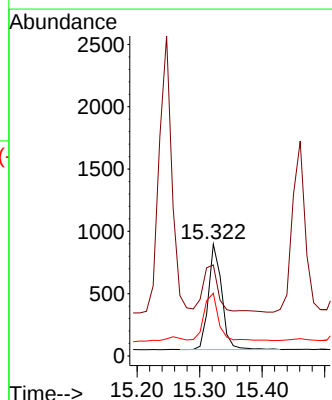
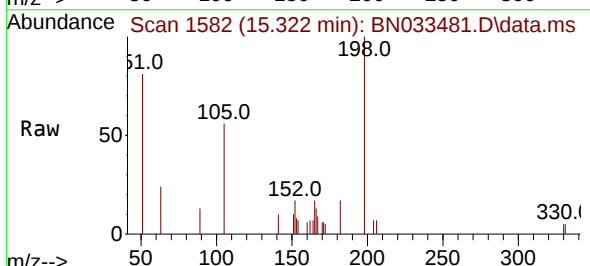
Tgt Ion:198 Resp: 1253

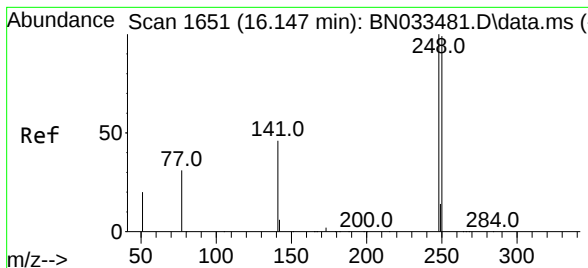
Ion Ratio Lower Upper

198 100

51 81.4 65.1 97.7

105 56.0 44.8 67.2

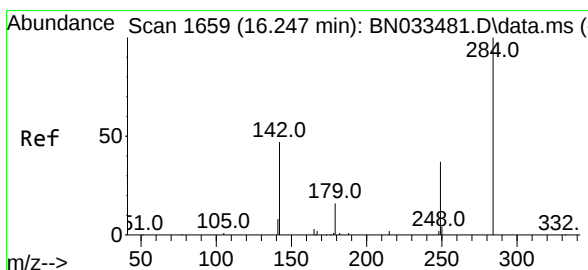
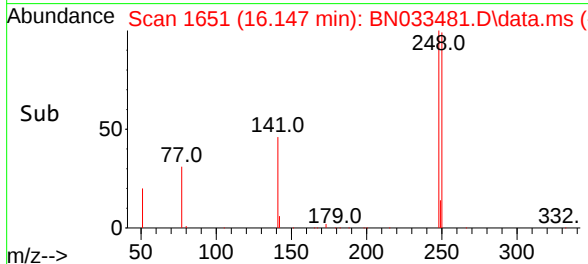
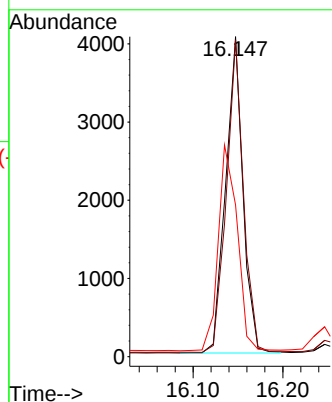
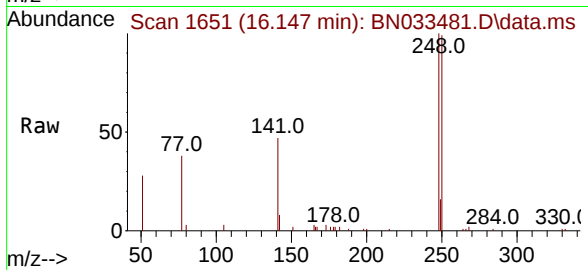




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

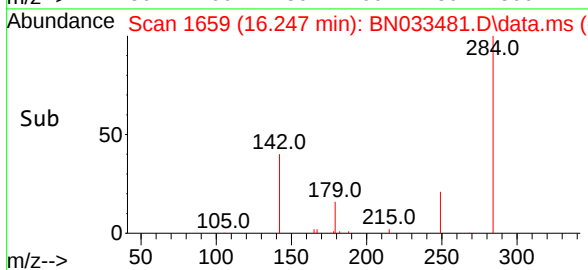
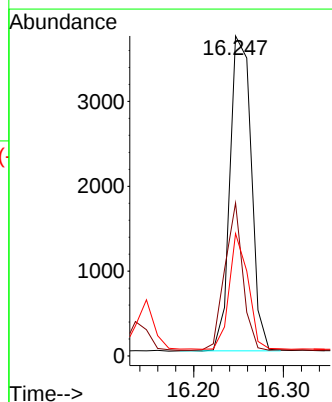
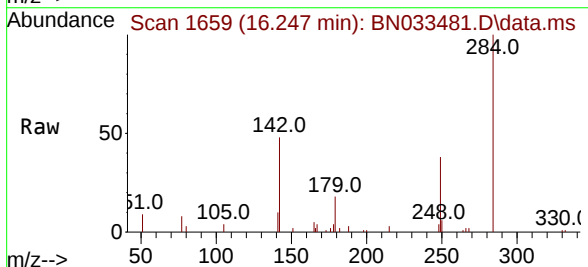
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

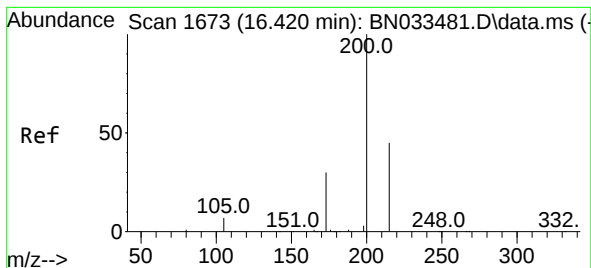
Tgt Ion:248 Resp: 5430
Ion Ratio Lower Upper
248 100
250 99.0 79.2 118.8
141 47.4 37.9 56.9



#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:284 Resp: 6099
Ion Ratio Lower Upper
284 100
142 39.7 31.8 47.6
249 32.5 26.0 39.0





#23

Atrazine

Concen: 0.365 ng

RT: 16.420 min Scan# 1673

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

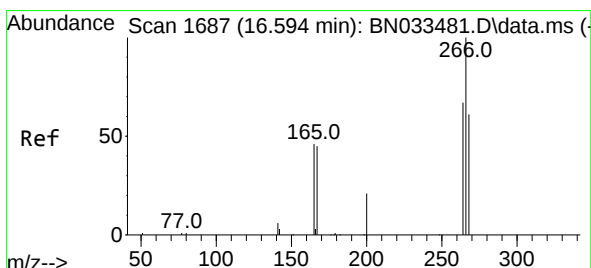
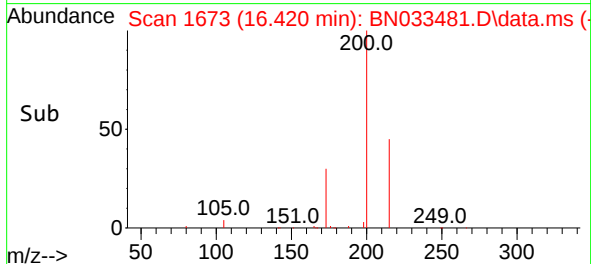
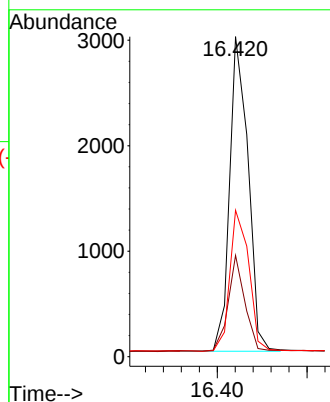
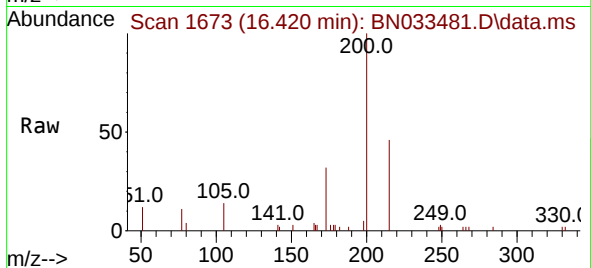
Tgt Ion:200 Resp: 4249

Ion Ratio Lower Upper

200 100

173 31.6 25.3 37.9

215 45.7 36.6 54.8



#24

Pentachlorophenol

Concen: 0.354 ng

RT: 16.594 min Scan# 1687

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

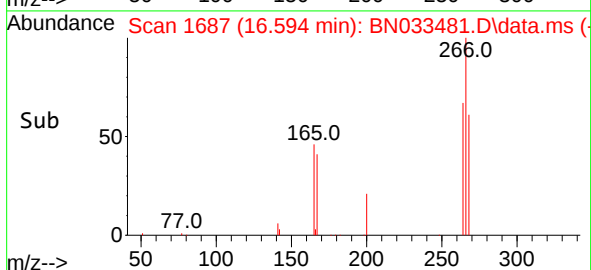
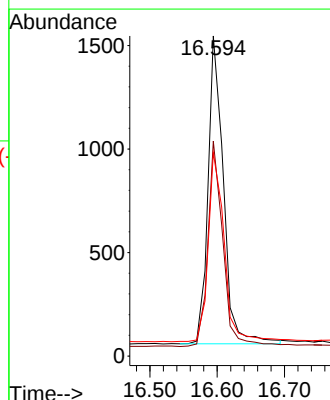
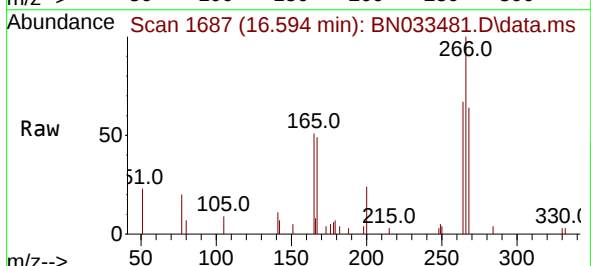
Tgt Ion:266 Resp: 2368

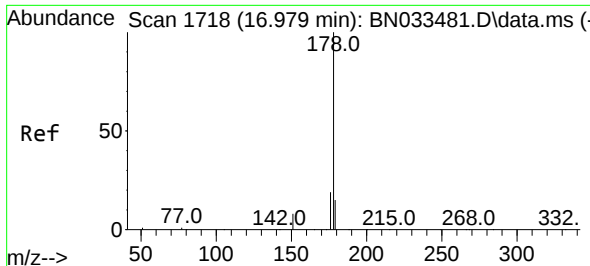
Ion Ratio Lower Upper

266 100

264 64.9 51.9 77.9

268 63.7 51.0 76.4

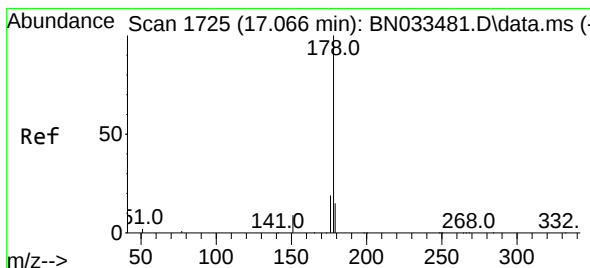
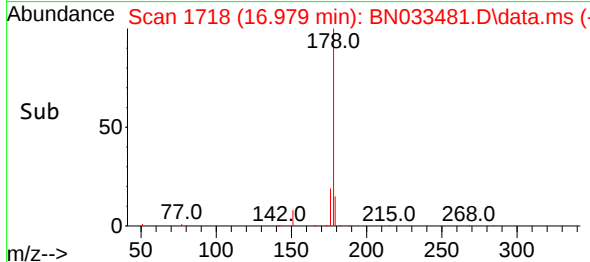
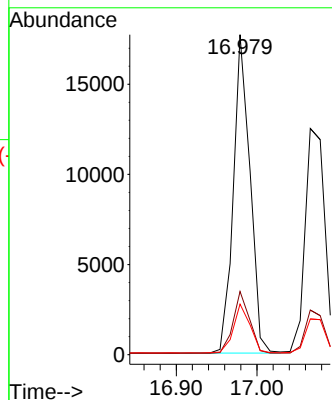
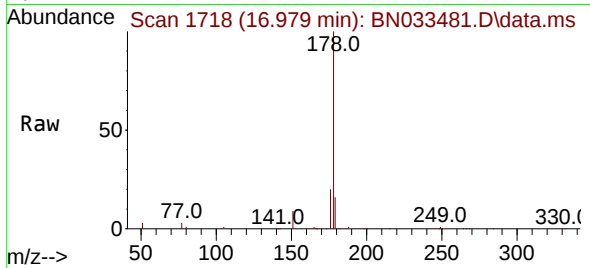




#25
Phenanthrene
Concen: 0.361 ng
RT: 16.979 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

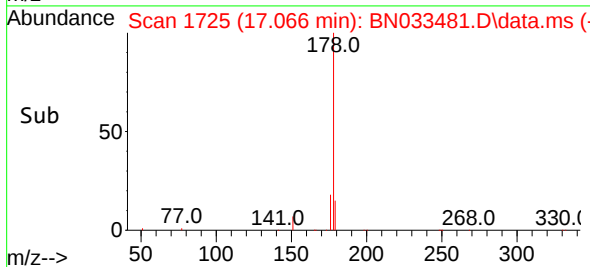
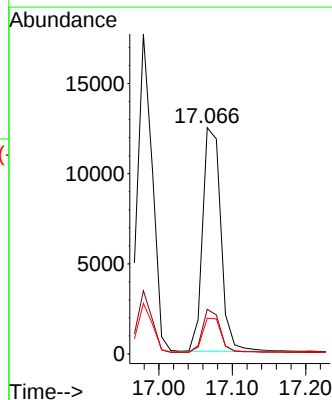
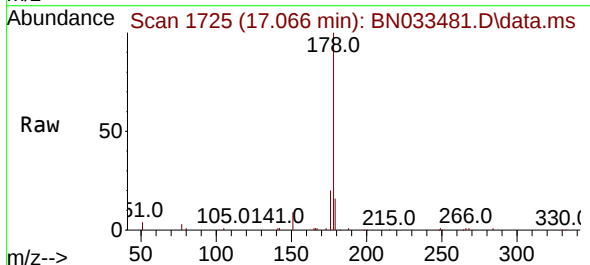
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

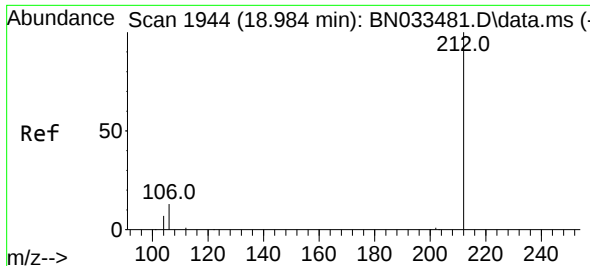
Tgt Ion:178 Resp: 25297
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.347 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:178 Resp: 21458
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.5 12.4 18.6

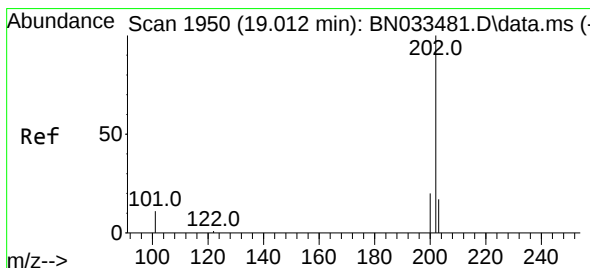
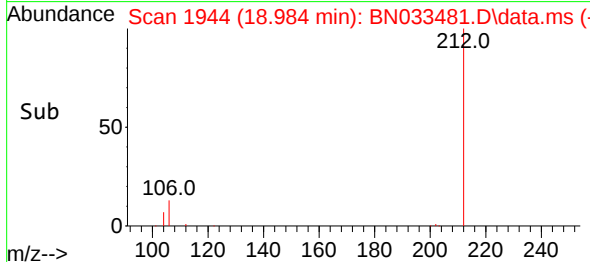
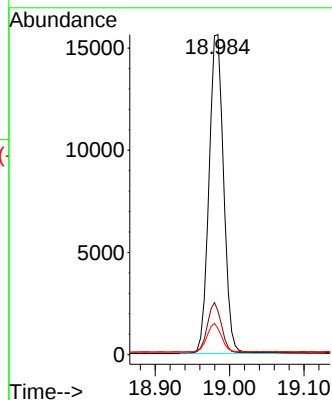
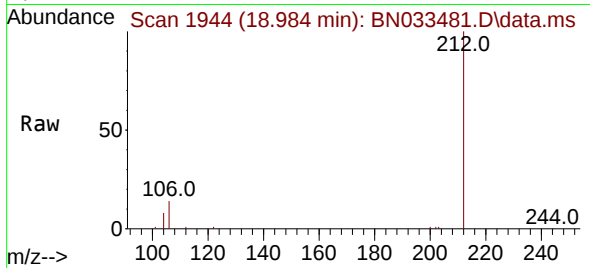




#27
Fluoranthene-d10
Concen: 0.332 ng
RT: 18.984 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

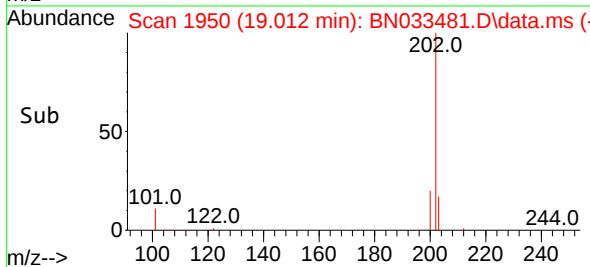
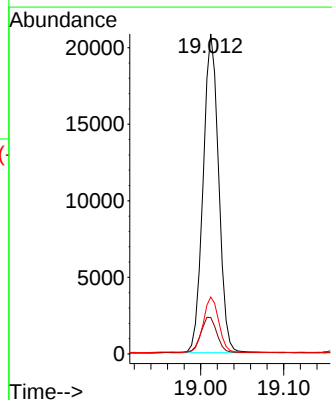
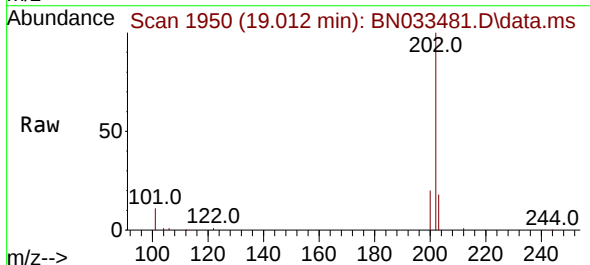
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

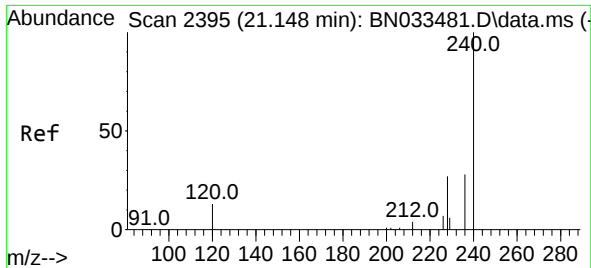
Tgt Ion:212 Resp: 21323
Ion Ratio Lower Upper
212 100
106 15.4 12.3 18.5
104 8.7 7.0 10.4



#28
Fluoranthene
Concen: 0.319 ng
RT: 19.012 min Scan# 1950
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:202 Resp: 27103
Ion Ratio Lower Upper
202 100
101 11.9 9.5 14.3
203 17.2 13.8 20.6

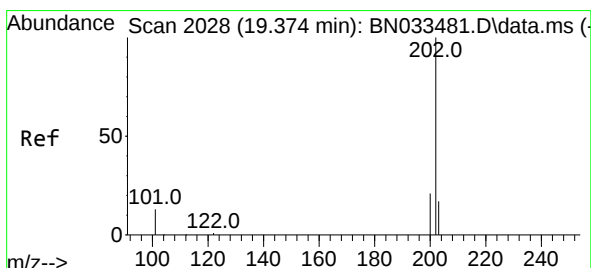
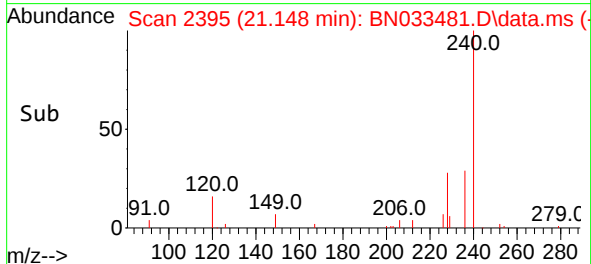
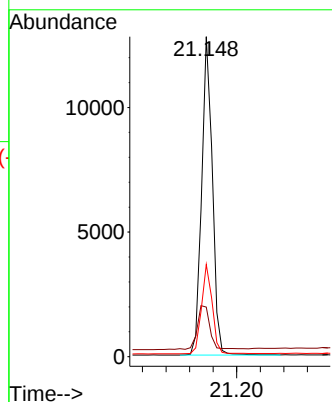
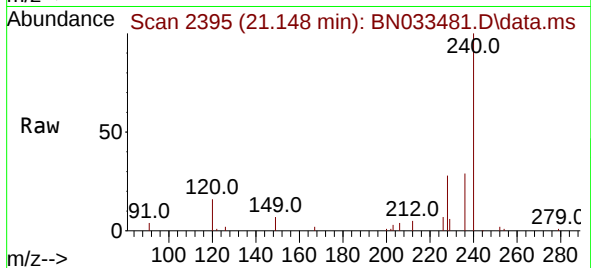




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

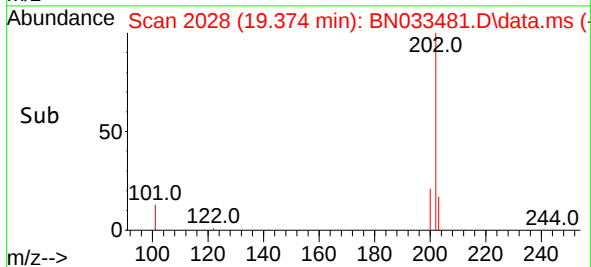
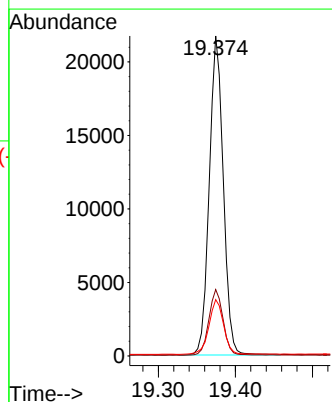
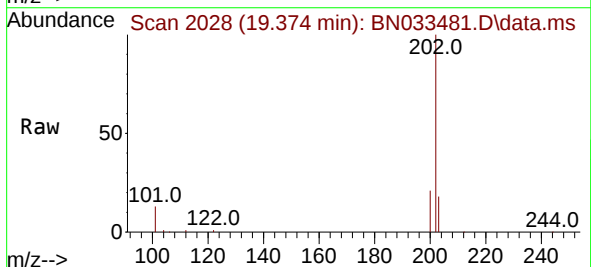
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

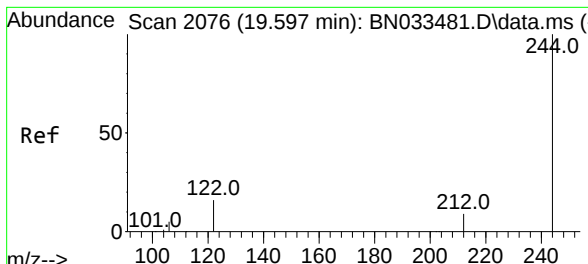
Tgt Ion:240 Resp: 16119
Ion Ratio Lower Upper
240 100
120 15.5 12.4 18.6
236 28.8 23.0 34.6



#30
Pyrene
Concen: 0.423 ng
RT: 19.374 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:202 Resp: 27468
Ion Ratio Lower Upper
202 100
200 20.7 16.6 24.8
203 17.8 14.2 21.4

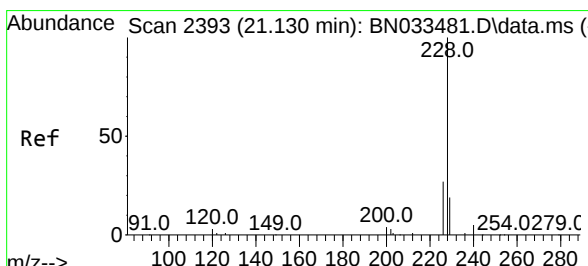
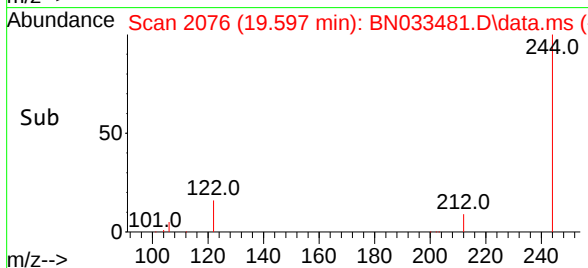
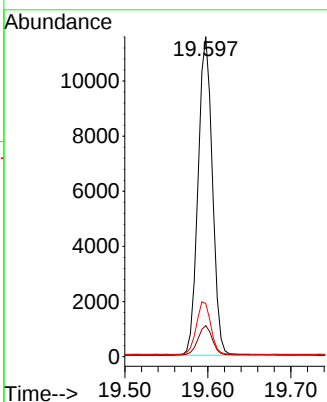
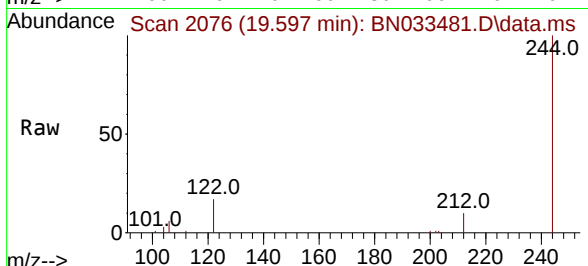




#31
 Terphenyl-d14
 Concen: 0.447 ng
 RT: 19.597 min Scan# 2076
 Delta R.T. 0.000 min
 Lab File: BN033481.D
 Acq: 19 Aug 2024 17:28

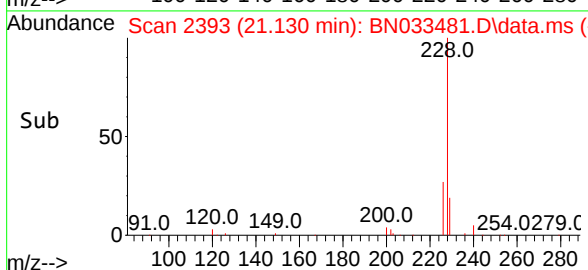
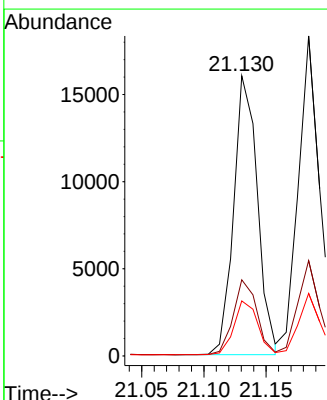
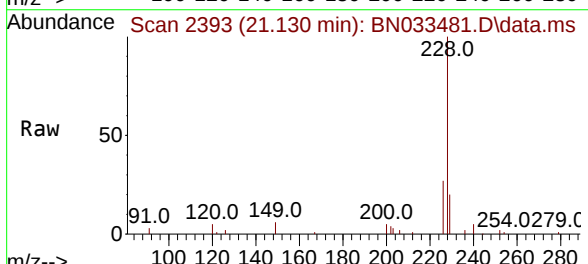
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.4

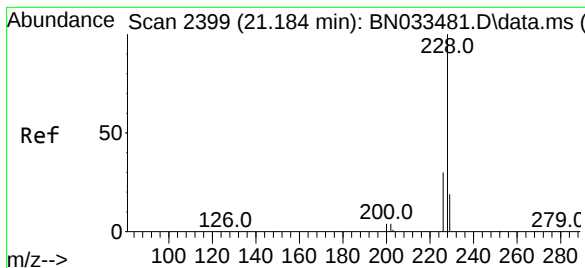
Tgt Ion:	244	Resp:	13894
Ion Ratio	Lower	Upper	
244	100		
212	9.7	7.8	11.6
122	16.6	13.3	19.9



#32
 Benzo(a)anthracene
 Concen: 0.355 ng
 RT: 21.130 min Scan# 2393
 Delta R.T. 0.000 min
 Lab File: BN033481.D
 Acq: 19 Aug 2024 17:28

Tgt Ion:	228	Resp:	21232
Ion Ratio	Lower	Upper	
228	100		
226	27.2	21.8	32.6
229	19.7	15.8	23.6





#33

Chrysene

Concen: 0.360 ng

RT: 21.184 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

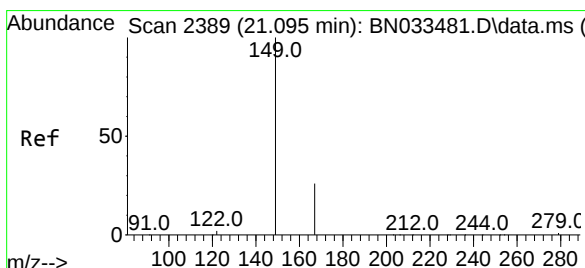
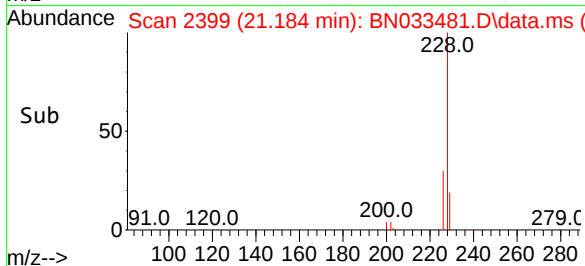
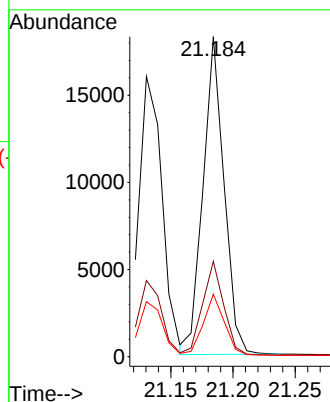
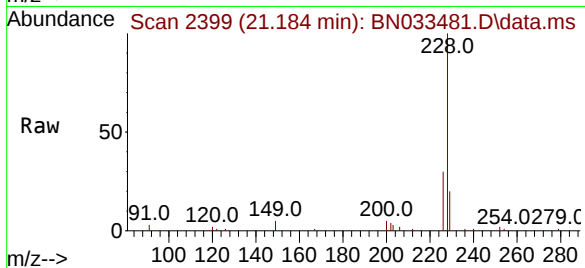
Tgt Ion:228 Resp: 21457

Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.8

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.459 ng

RT: 21.095 min Scan# 2389

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

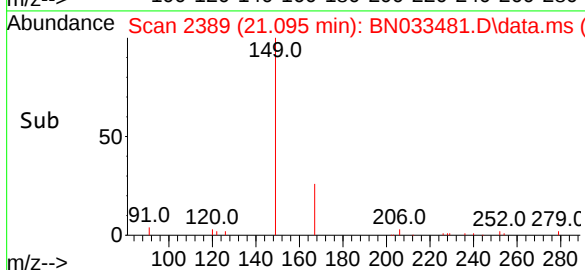
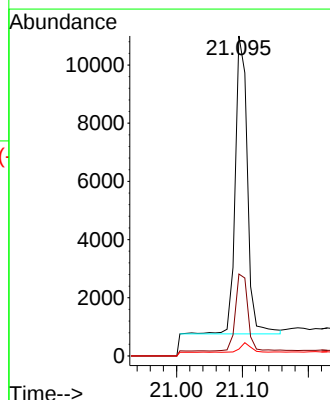
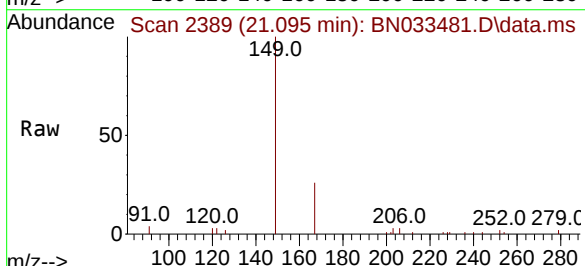
Tgt Ion:149 Resp: 13125

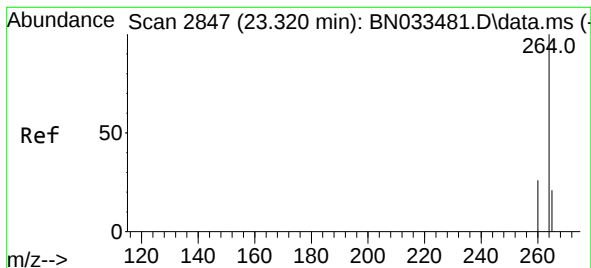
Ion Ratio Lower Upper

149 100

167 25.9 21.5 32.3

279 2.7 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.320 min Scan# 2847

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

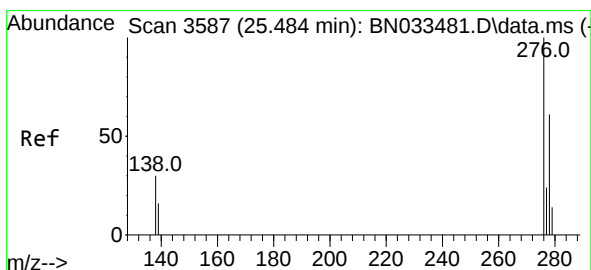
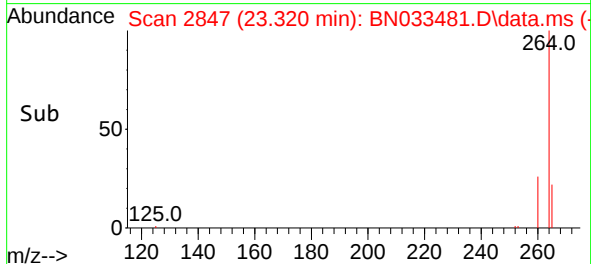
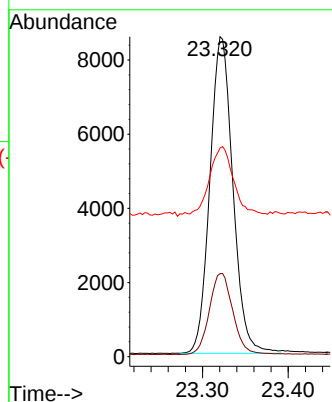
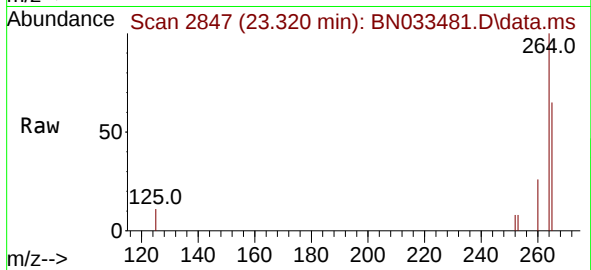
Tgt Ion:264 Resp: 15903

Ion Ratio Lower Upper

264 100

260 26.0 20.8 31.2

265 65.2 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.370 ng

RT: 25.484 min Scan# 3587

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

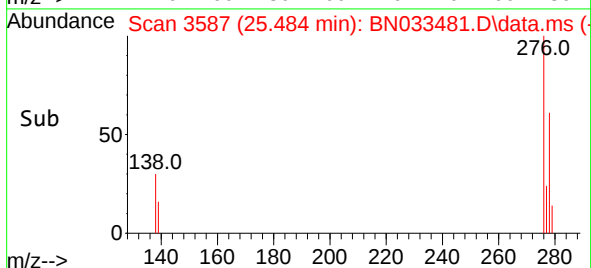
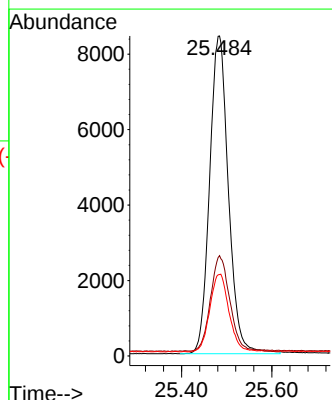
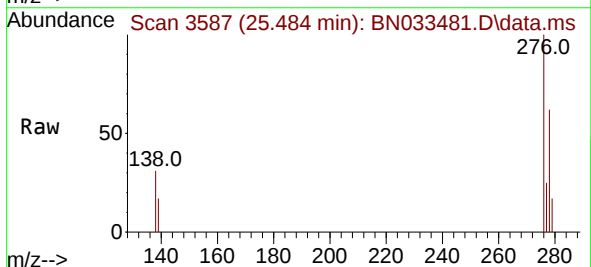
Tgt Ion:276 Resp: 24410

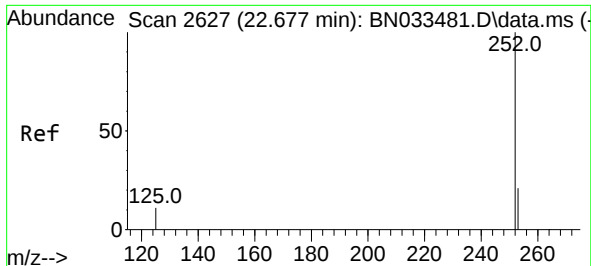
Ion Ratio Lower Upper

276 100

138 30.5 24.4 36.6

277 24.7 19.8 29.6

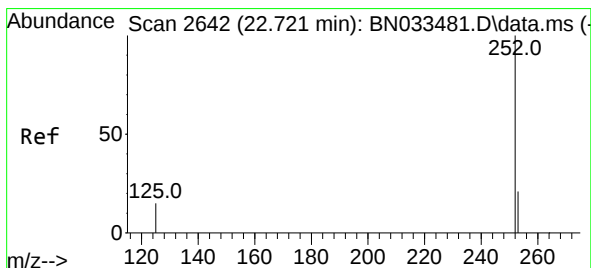
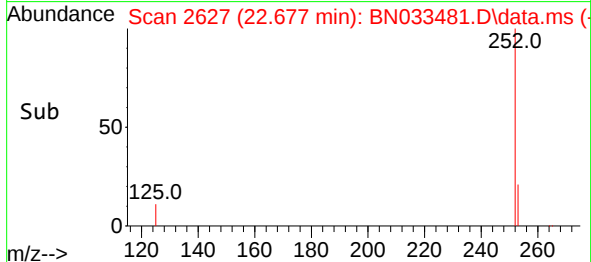
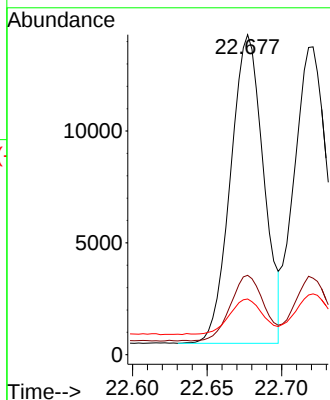
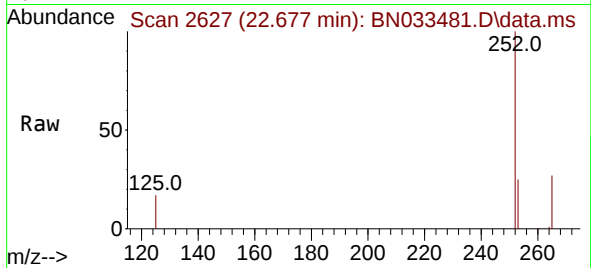




#37
Benzo(b)fluoranthene
Concen: 0.358 ng
RT: 22.677 min Scan# 2627
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

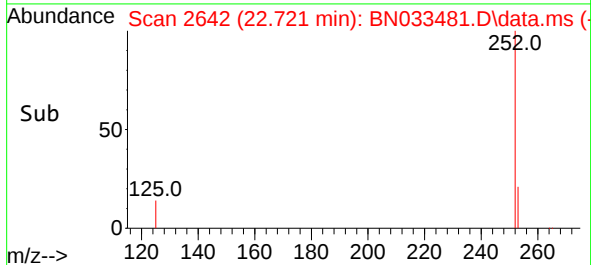
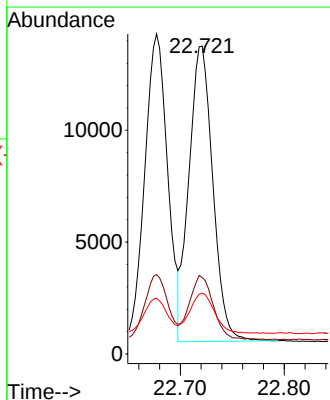
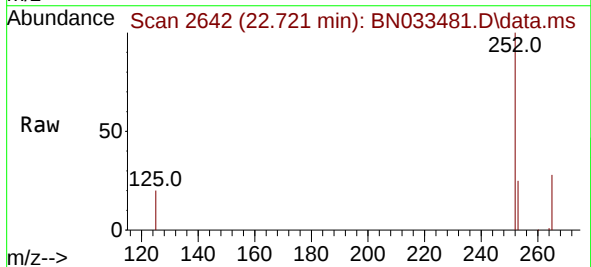
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

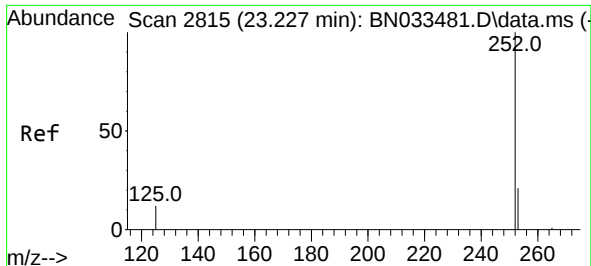
Tgt Ion:252 Resp: 21250
Ion Ratio Lower Upper
252 100
253 24.8 19.8 29.8
125 17.4 13.9 20.9



#38
Benzo(k)fluoranthene
Concen: 0.350 ng
RT: 22.721 min Scan# 2642
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Tgt Ion:252 Resp: 21063
Ion Ratio Lower Upper
252 100
253 24.8 19.8 29.8
125 19.8 15.8 23.8





#39

Benzo(a)pyrene

Concen: 0.348 ng

RT: 23.227 min Scan# 2815

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

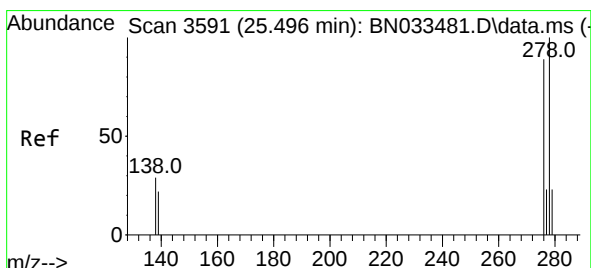
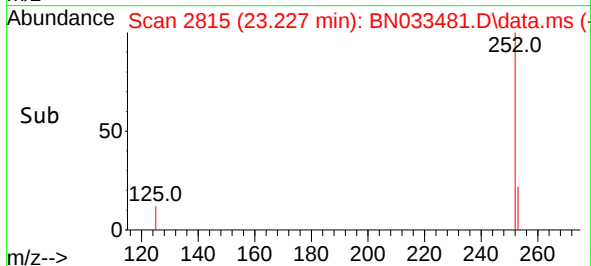
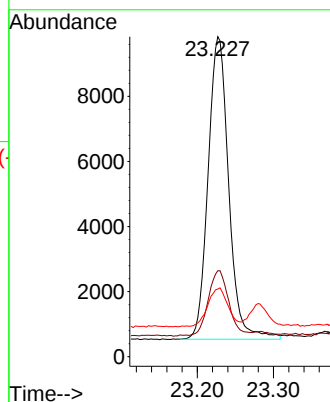
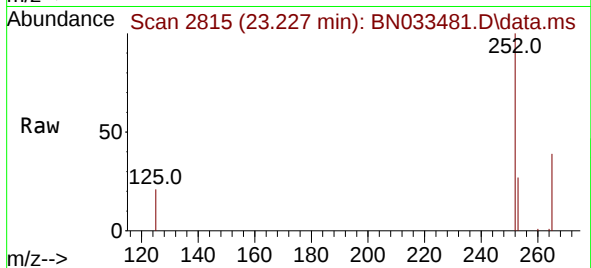
Tgt Ion:252 Resp: 17428

Ion Ratio Lower Upper

252 100

253 26.9 21.5 32.3

125 21.2 17.0 25.4



#40

Dibenzo(a,h)anthracene

Concen: 0.375 ng

RT: 25.496 min Scan# 3591

Delta R.T. 0.000 min

Lab File: BN033481.D

Acq: 19 Aug 2024 17:28

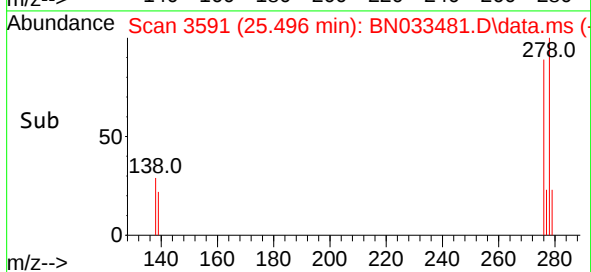
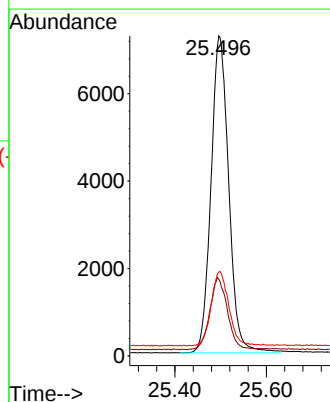
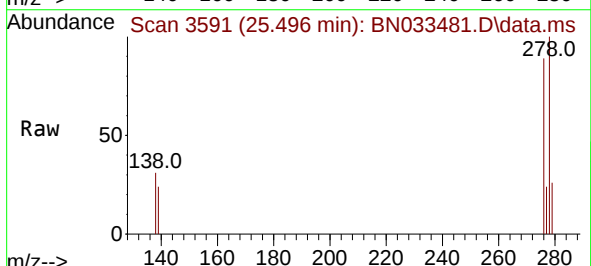
Tgt Ion:278 Resp: 19569

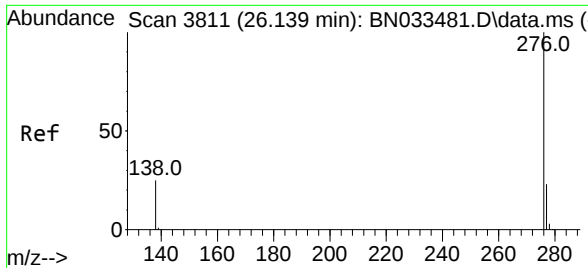
Ion Ratio Lower Upper

278 100

139 23.9 19.1 28.7

279 26.2 21.0 31.4

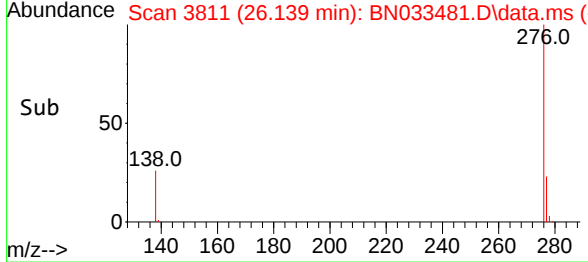
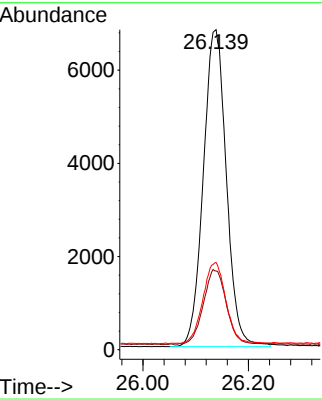
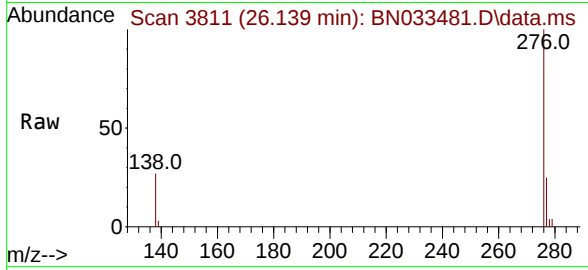




#41
Benzo(g,h,i)perylene
Concen: 0.359 ng
RT: 26.139 min Scan# 3811
Delta R.T. 0.000 min
Lab File: BN033481.D
Acq: 19 Aug 2024 17:28

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:	276	Resp:	20604
Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.7	29.5
138	27.2	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033482.D
 Acq On : 19 Aug 2024 18:05
 Operator : MA/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Aug 19 23:22:59 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

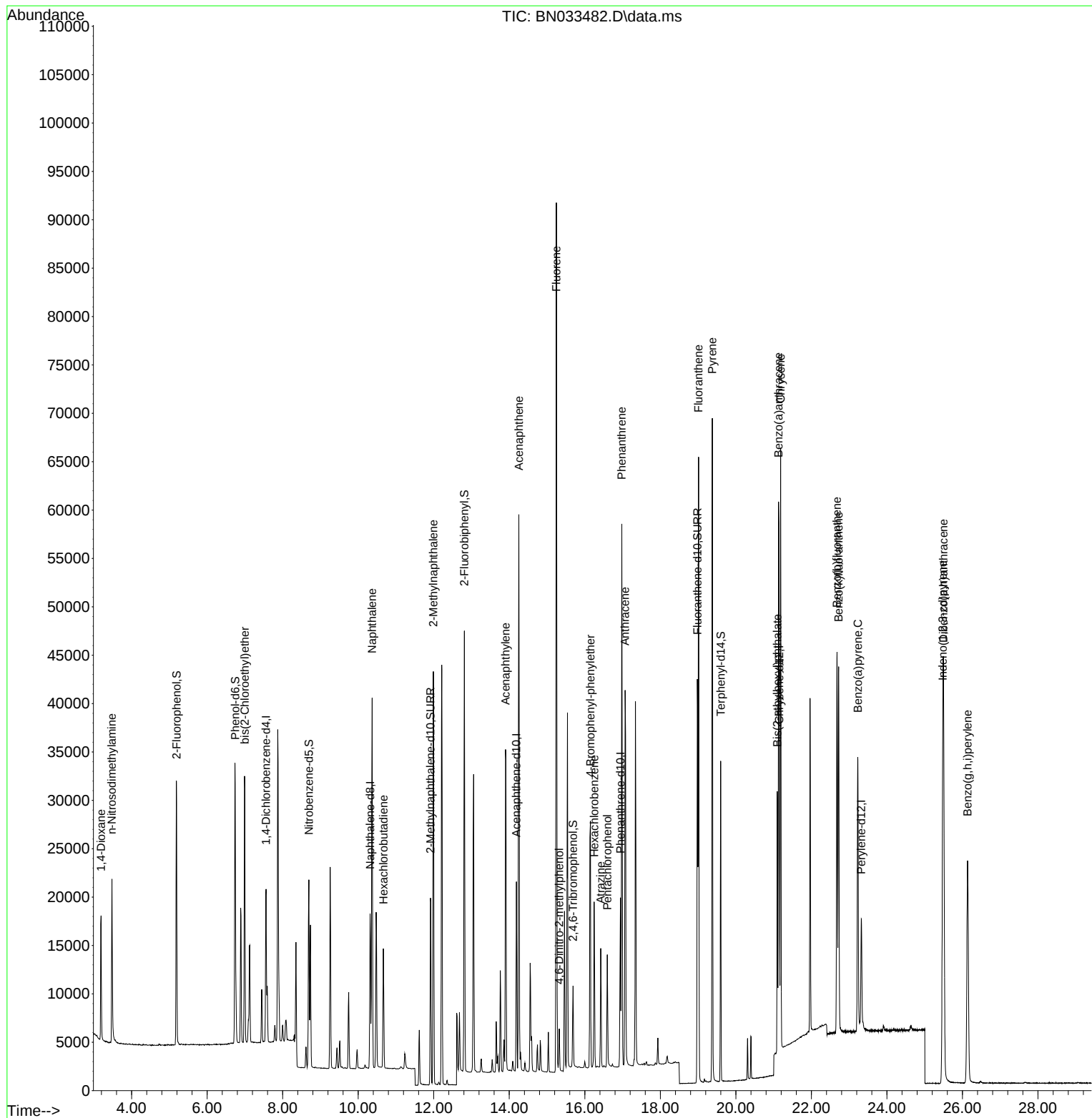
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	7632	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	20426	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	10526	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	22134	0.400	ng	0.00
29) Chrysene-d12	21.148	240	15199	0.400	ng	0.00
35) Perylene-d12	23.320	264	14574	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	20603	0.960	ng	0.00
5) Phenol-d6	6.743	99	25598	0.913	ng	0.00
8) Nitrobenzene-d5	8.691	82	14373	0.929	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	25169	0.820	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	4621	0.860	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	37063	0.870	ng	0.00
27) Fluoranthene-d10	18.980	212	44745	0.771	ng	0.00
31) Terphenyl-d14	19.597	244	29355	1.002	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.190	88	8005	0.974	ng	99
3) n-Nitrosodimethylamine	3.479	42	9391	0.883	ng	97
6) bis(2-Chloroethyl)ether	6.996	93	18731	0.856	ng	99
9) Naphthalene	10.368	128	47199	0.852	ng	99
10) Hexachlorobutadiene	10.667	225	9402	0.884	ng	# 100
12) 2-Methylnaphthalene	11.990	142	29902	0.806	ng	98
16) Acenaphthylene	13.900	152	39367	0.814	ng	100
17) Acenaphthene	14.253	154	27891	0.838	ng	99
18) Fluorene	15.247	166	35084	0.805	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	2836	1.027	ng	# 78
21) 4-Bromophenyl-phenylether	16.147	248	11281	0.854	ng	97
22) Hexachlorobenzene	16.247	284	12452	0.844	ng	99
23) Atrazine	16.420	200	8886	0.845	ng	99
24) Pentachlorophenol	16.594	266	5244	0.869	ng	98
25) Phenanthrene	16.979	178	52082	0.822	ng	100
26) Anthracene	17.066	178	45804	0.819	ng	99
28) Fluoranthene	19.012	202	57702	0.751	ng	100
30) Pyrene	19.374	202	57799	0.944	ng	100
32) Benzo(a)anthracene	21.130	228	46368	0.822	ng	99
33) Chrysene	21.184	228	47324	0.841	ng	99
34) Bis(2-ethylhexyl)phtha...	21.095	149	26434	0.980	ng	99
36) Indeno(1,2,3-cd)pyrene	25.478	276	51859	0.858	ng	99
37) Benzo(b)fluoranthene	22.677	252	46009	0.846	ng	95
38) Benzo(k)fluoranthene	22.721	252	45348	0.822	ng	# 94
39) Benzo(a)pyrene	23.227	252	38156	0.831	ng	# 93
40) Dibenzo(a,h)anthracene	25.499	278	41569	0.869	ng	96
41) Benzo(g,h,i)perylene	26.136	276	44249	0.842	ng	98

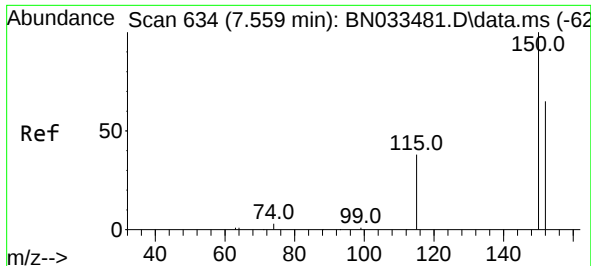
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033482.D
Acq On : 19 Aug 2024 18:05
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

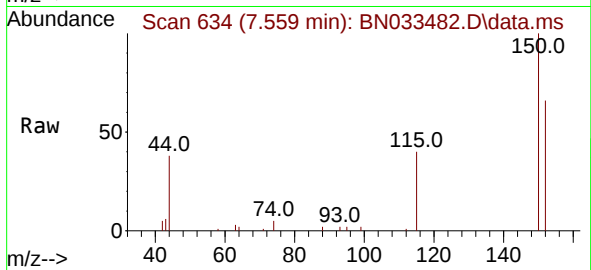
Quant Time: Aug 19 23:22:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration





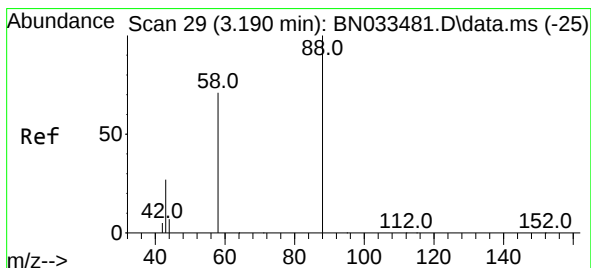
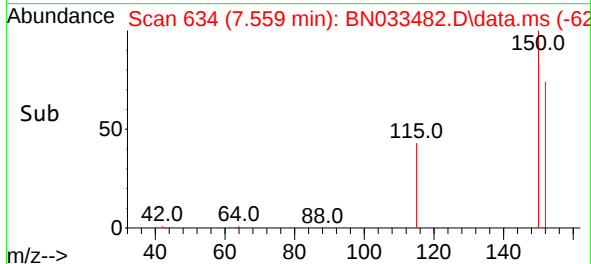
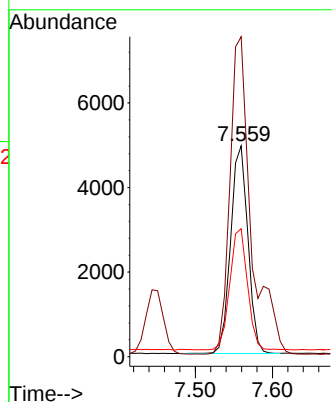
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.559 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN033482.D
 Acq: 19 Aug 2024 18:05

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8



Tgt Ion:152 Resp: 7632

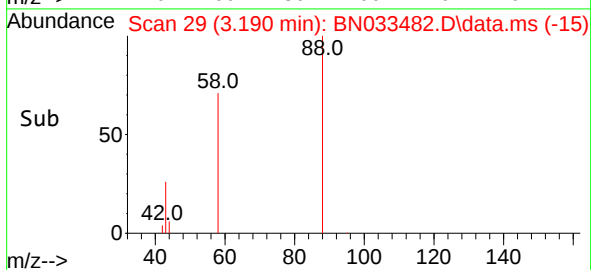
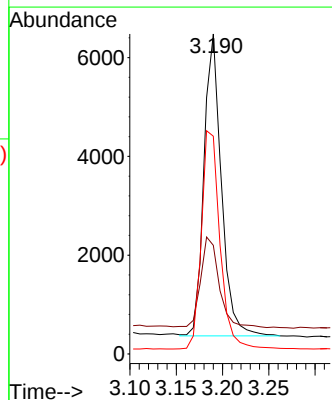
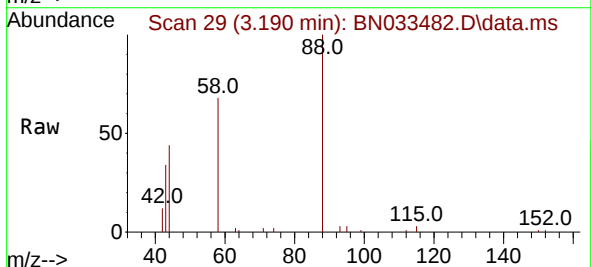
Ion	Ratio	Lower	Upper
152	100		
150	151.8	122.2	183.2
115	60.8	47.2	70.8

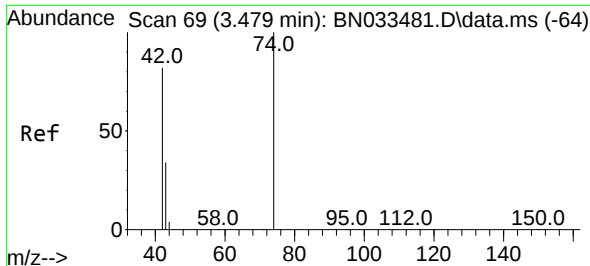


#2
 1,4-Dioxane
 Concen: 0.974 ng
 RT: 3.190 min Scan# 29
 Delta R.T. 0.000 min
 Lab File: BN033482.D
 Acq: 19 Aug 2024 18:05

Tgt Ion: 88 Resp: 8005

Ion	Ratio	Lower	Upper
88	100		
43	31.8	25.0	37.4
58	77.2	62.5	93.7

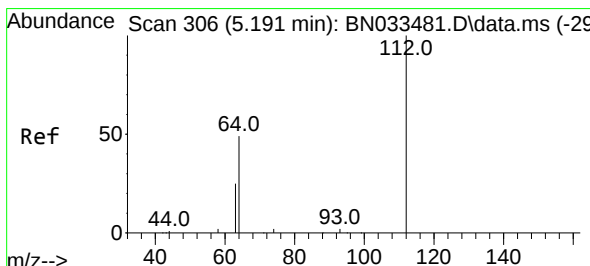
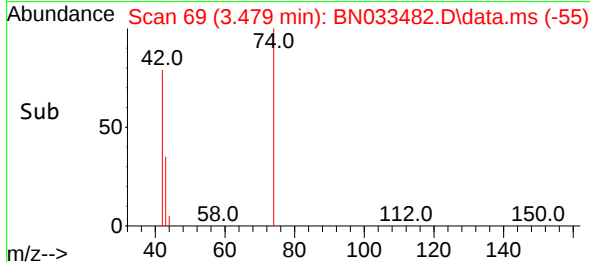
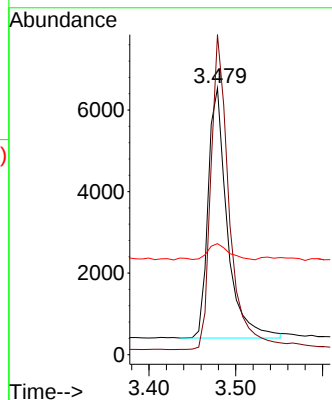
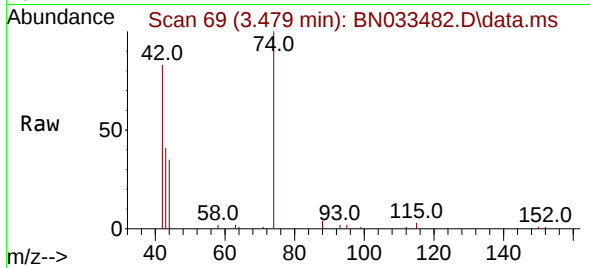




#3
n-Nitrosodimethylamine
Concen: 0.883 ng
RT: 3.479 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

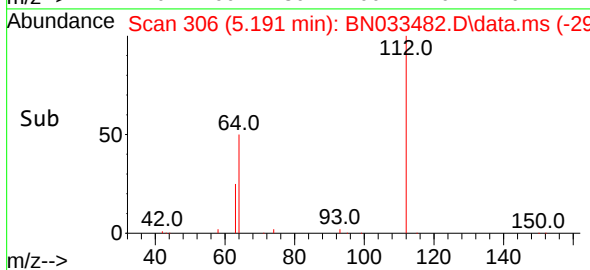
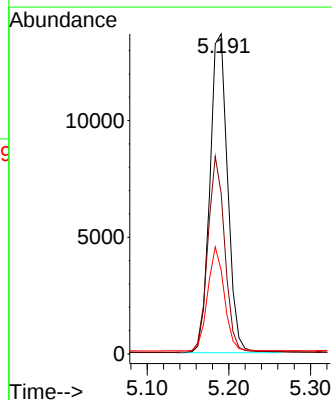
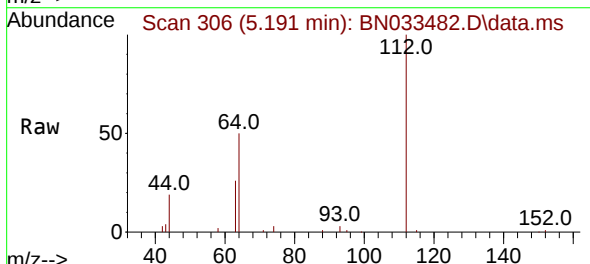
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

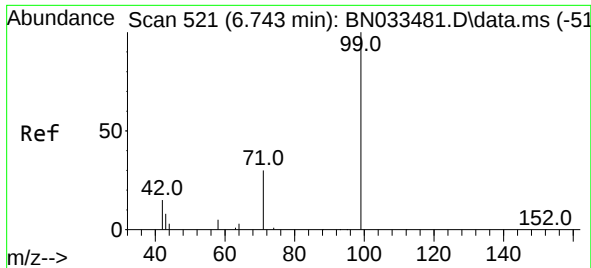
Tgt Ion: 42 Resp: 9391
Ion Ratio Lower Upper
42 100
74 121.6 100.2 150.2
44 6.9 5.3 7.9



#4
2-Fluorophenol
Concen: 0.960 ng
RT: 5.191 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion: 112 Resp: 20603
Ion Ratio Lower Upper
112 100
64 58.5 47.1 70.7
63 30.7 24.9 37.3





#5

Phenol-d6

Concen: 0.913 ng

RT: 6.743 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

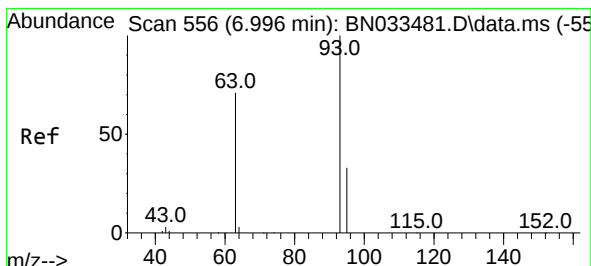
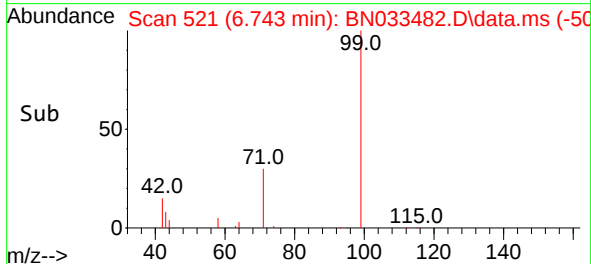
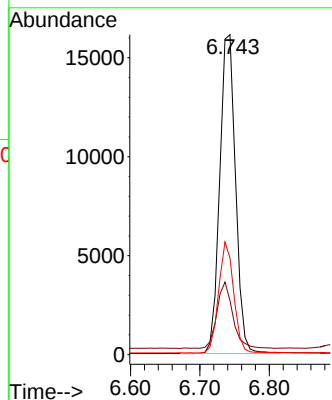
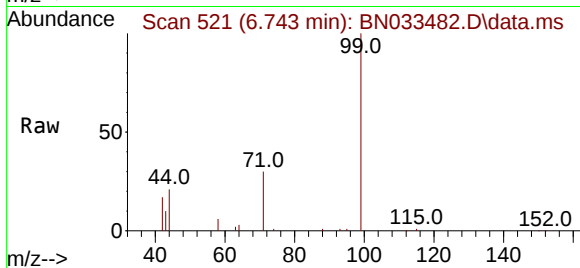
Tgt Ion: 99 Resp: 25598

Ion Ratio Lower Upper

99 100

42 20.7 16.6 24.8

71 33.1 26.2 39.4



#6

bis(2-Chloroethyl)ether

Concen: 0.856 ng

RT: 6.996 min Scan# 556

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

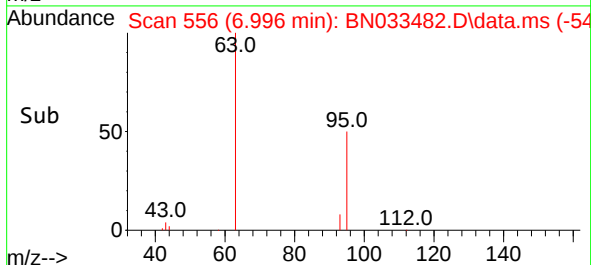
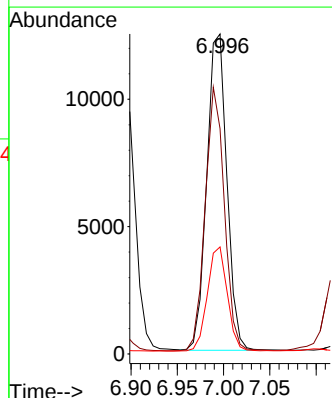
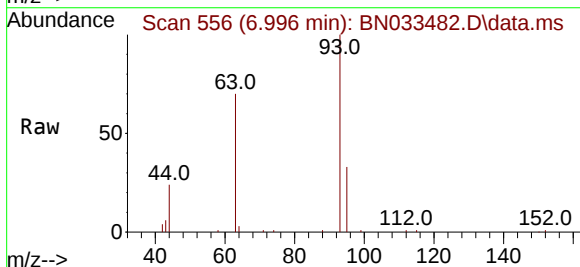
Tgt Ion: 93 Resp: 18731

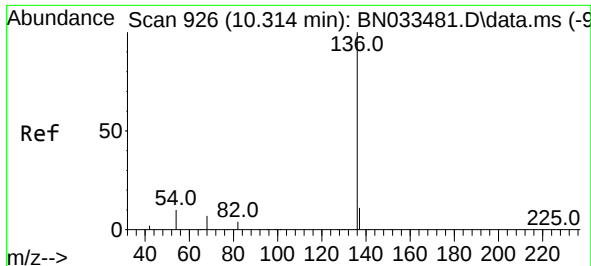
Ion Ratio Lower Upper

93 100

63 79.6 63.0 94.4

95 32.7 26.0 39.0

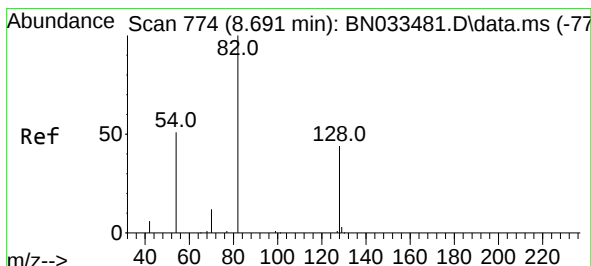
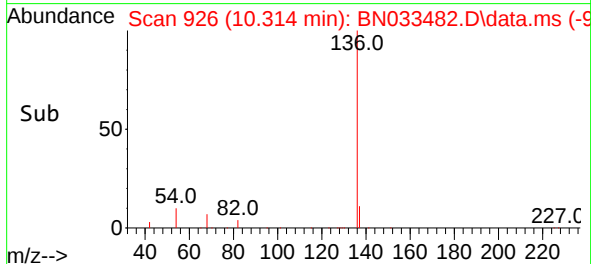
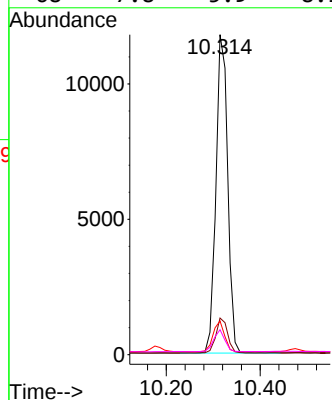
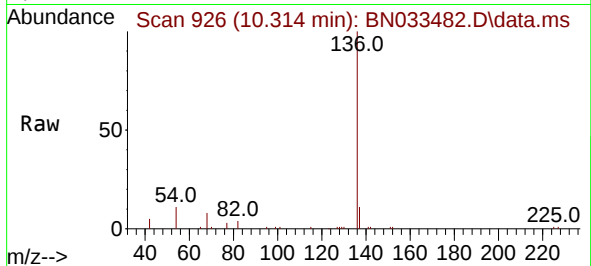




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

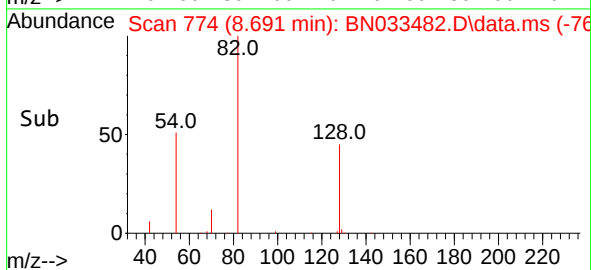
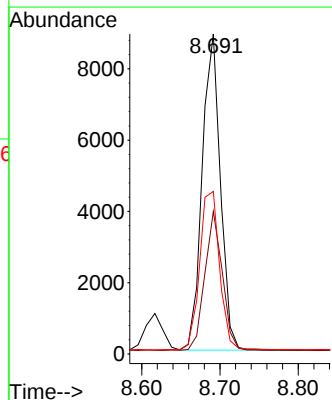
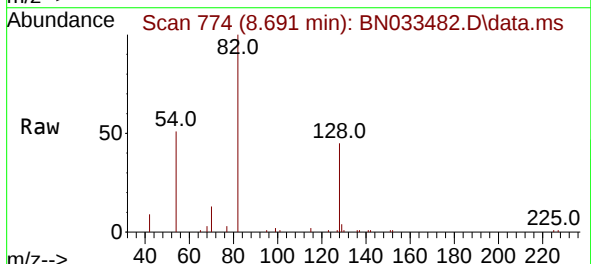
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

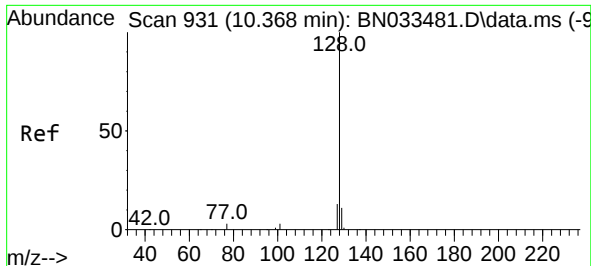
Tgt Ion:	136	Resp:	20426
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	10.5	8.3	12.5
68	7.8	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.929 ng
RT: 8.691 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:	82	Resp:	14373
Ion	Ratio	Lower	Upper
82	100		
128	44.5	36.0	54.0
54	50.8	42.0	63.0

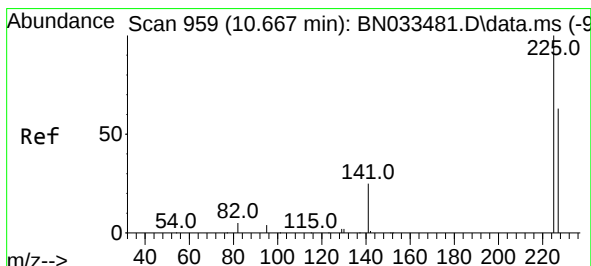
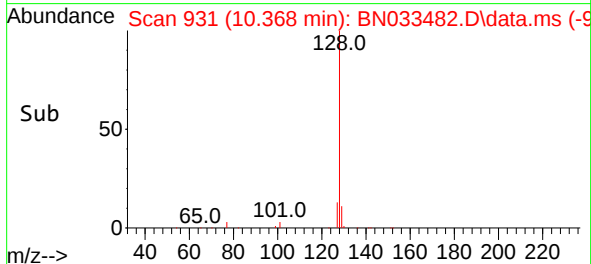
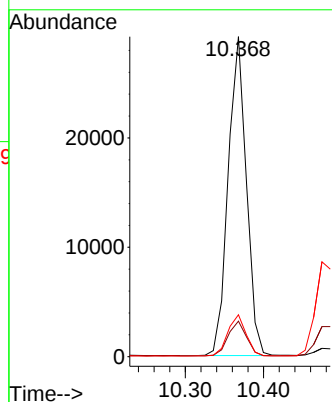
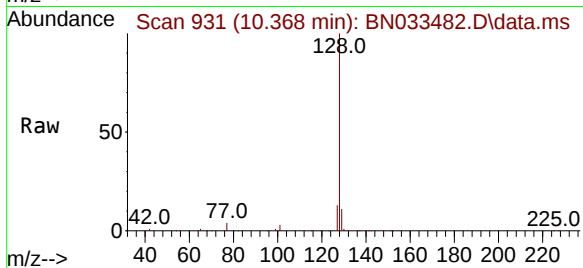




#9
Naphthalene
Concen: 0.852 ng
RT: 10.368 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

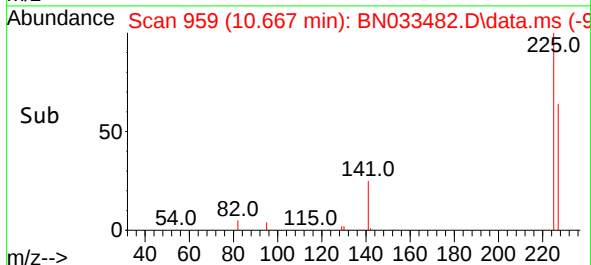
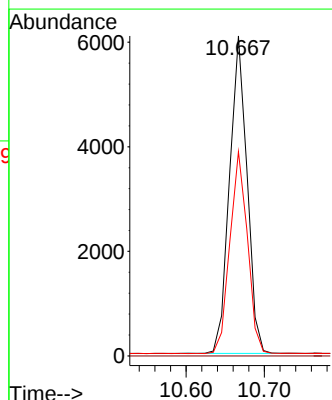
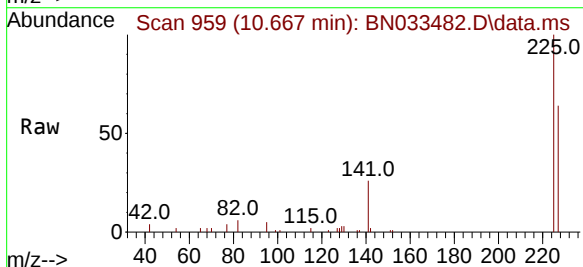
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

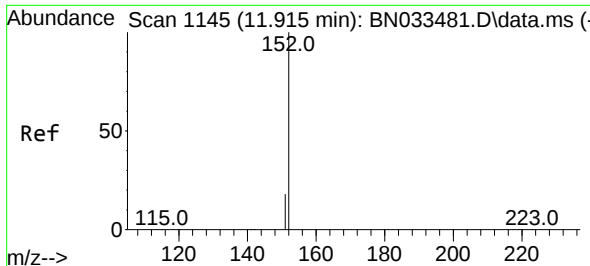
Tgt Ion:128 Resp: 47199
Ion Ratio Lower Upper
128 100
129 11.1 9.1 13.7
127 13.1 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.884 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:225 Resp: 9402
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 51.2 76.8

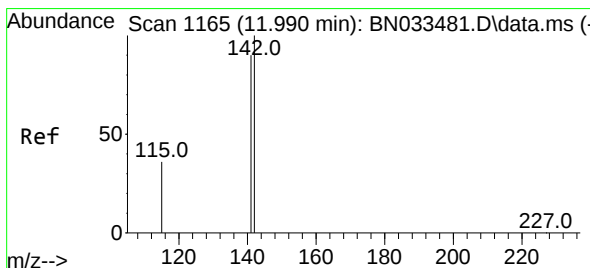
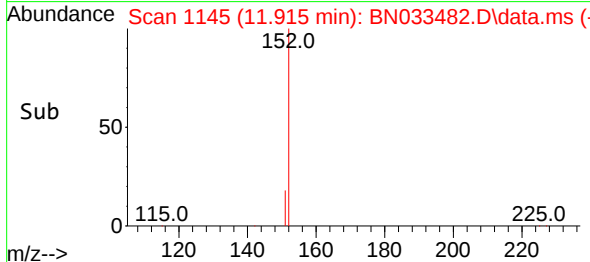
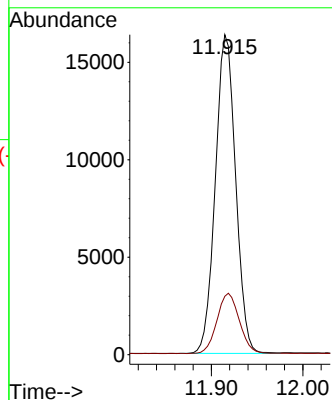
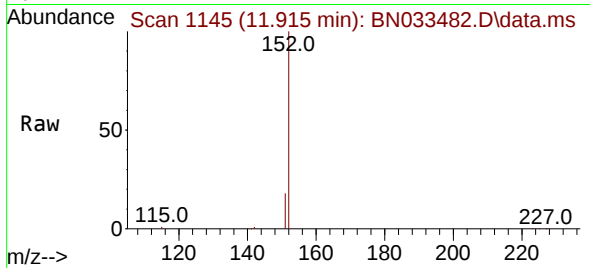




#11
2-Methylnaphthalene-d10
Concen: 0.820 ng
RT: 11.915 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

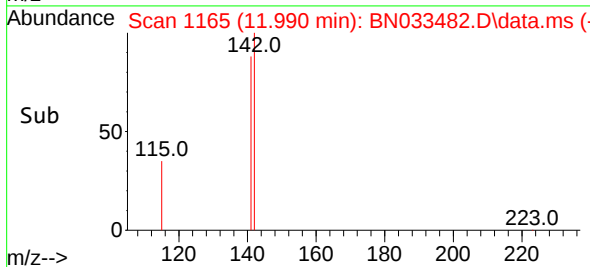
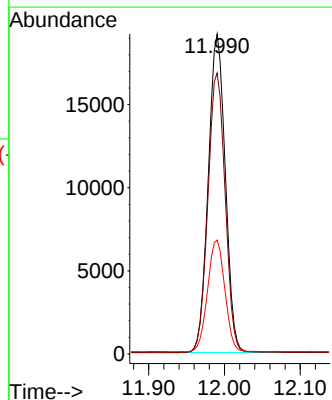
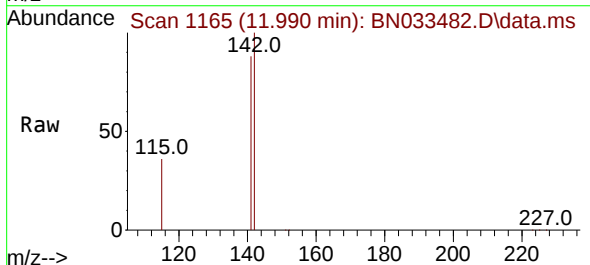
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

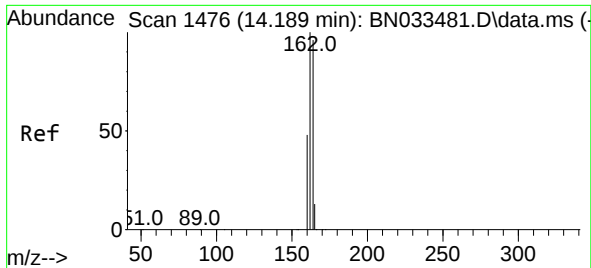
Tgt Ion:152 Resp: 25169
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.806 ng
RT: 11.990 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:142 Resp: 29902
Ion Ratio Lower Upper
142 100
141 87.8 71.7 107.5
115 35.6 29.4 44.2

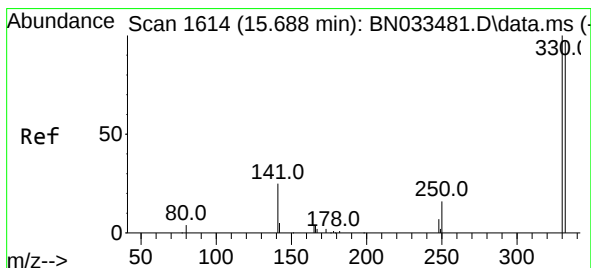
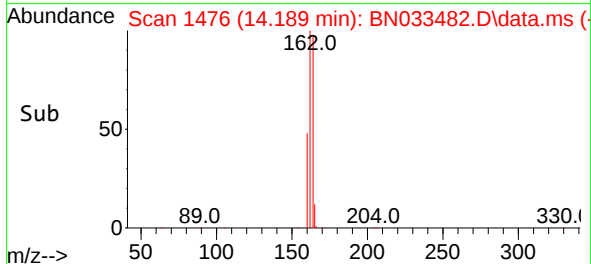
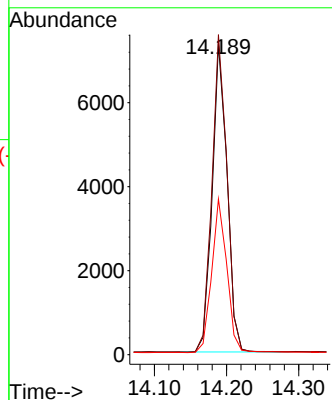
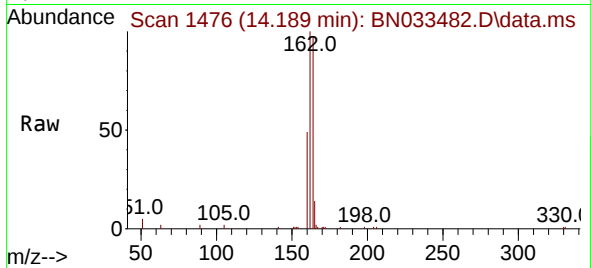




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

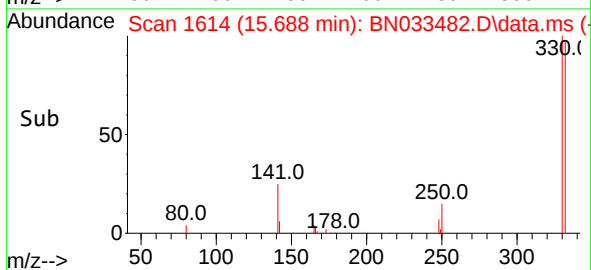
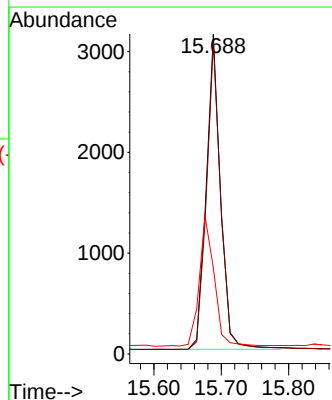
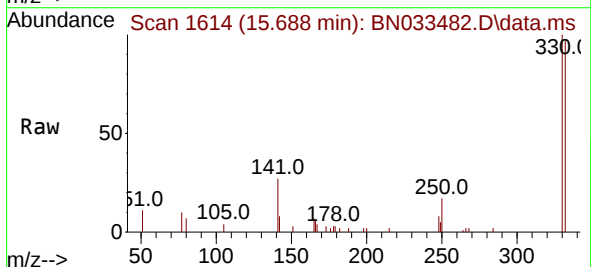
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

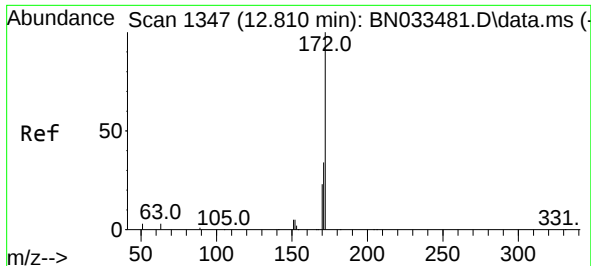
Tgt Ion:164 Resp: 10526
Ion Ratio Lower Upper
164 100
162 103.0 83.5 125.3
160 50.1 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.860 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:330 Resp: 4621
Ion Ratio Lower Upper
330 100
332 97.1 77.5 116.3
141 42.6 33.9 50.9

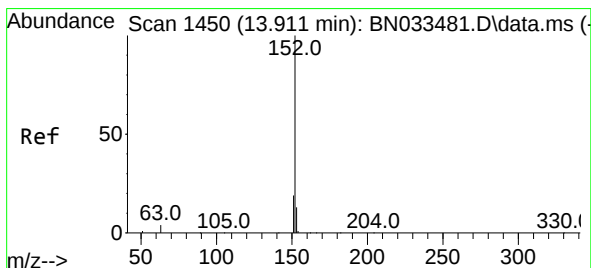
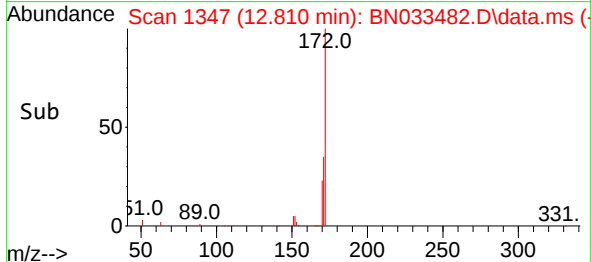
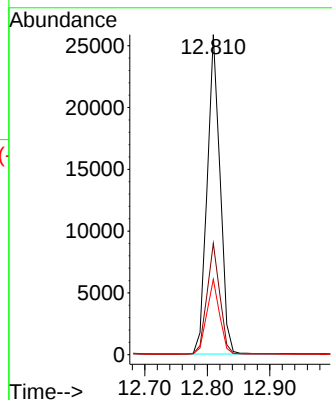
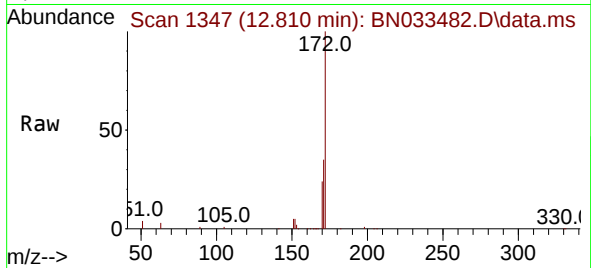




#15
2-Fluorobiphenyl
Concen: 0.870 ng
RT: 12.810 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

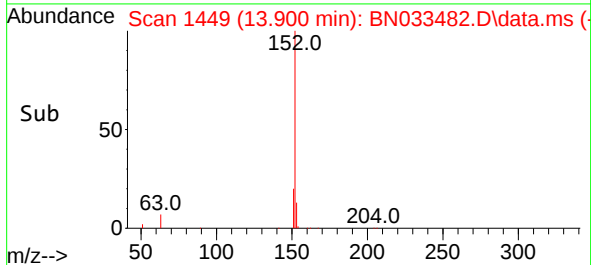
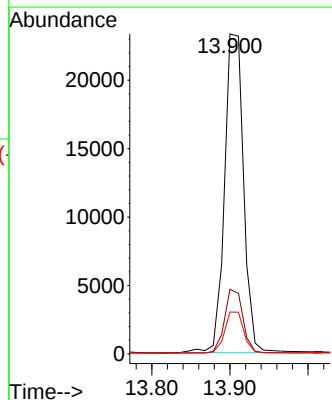
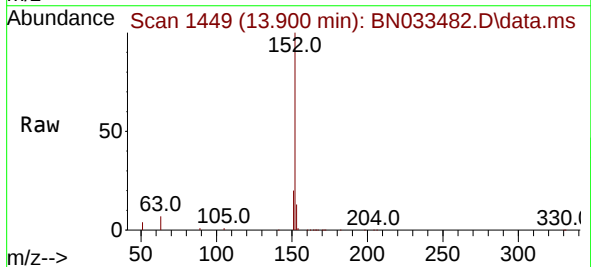
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

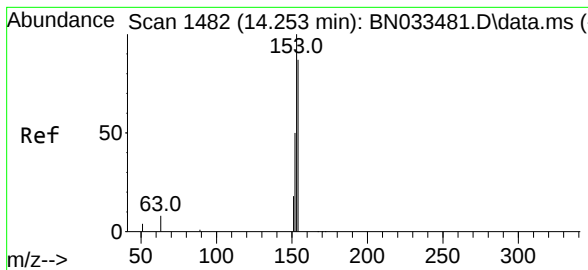
Tgt Ion:172 Resp: 37063
Ion Ratio Lower Upper
172 100
171 34.8 27.7 41.5
170 23.5 18.3 27.5



#16
Acenaphthylene
Concen: 0.814 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:152 Resp: 39367
Ion Ratio Lower Upper
152 100
151 19.3 15.7 23.5
153 13.0 10.3 15.5

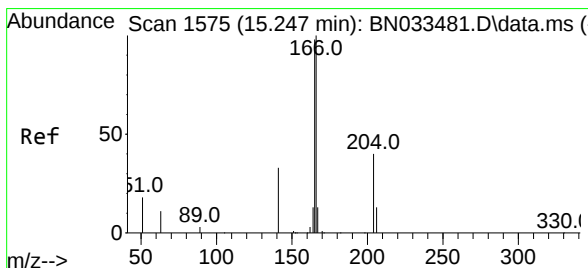
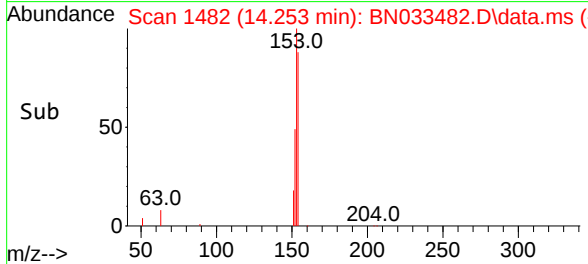
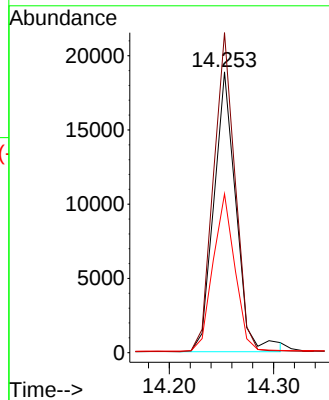
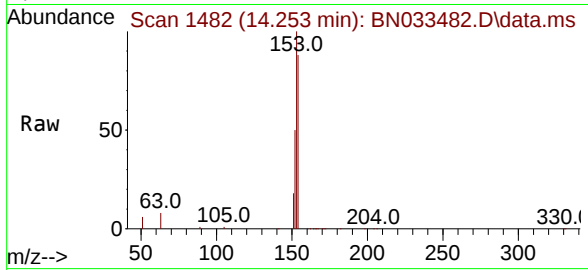




#17
Acenaphthene
Concen: 0.838 ng
RT: 14.253 min Scan# 1482
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

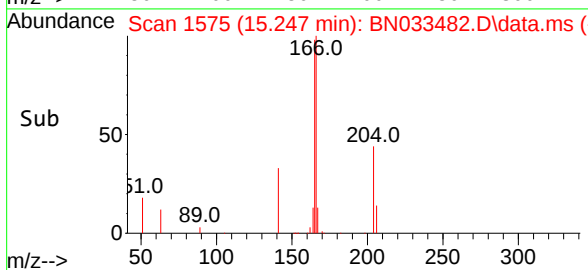
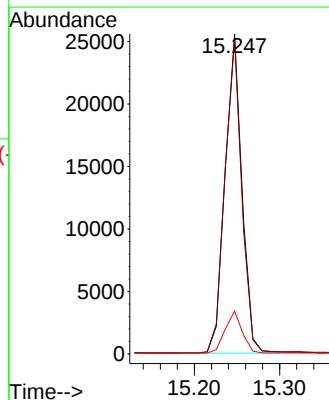
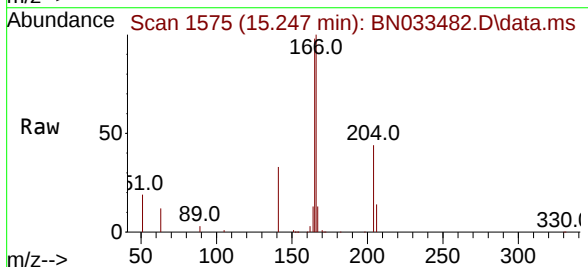
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

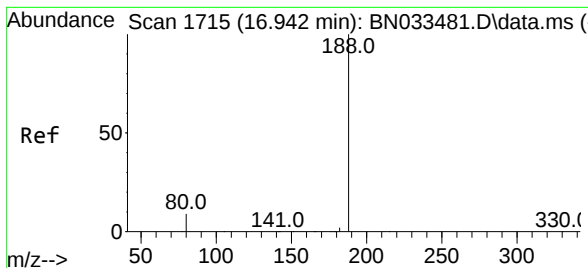
Tgt Ion:154 Resp: 27891
Ion Ratio Lower Upper
154 100
153 110.4 89.0 133.6
152 55.3 45.2 67.8



#18
Fluorene
Concen: 0.805 ng
RT: 15.247 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:166 Resp: 35084
Ion Ratio Lower Upper
166 100
165 98.0 78.2 117.4
167 13.2 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

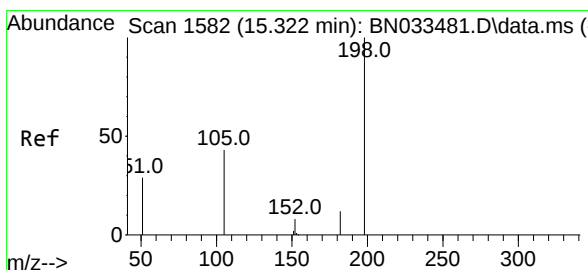
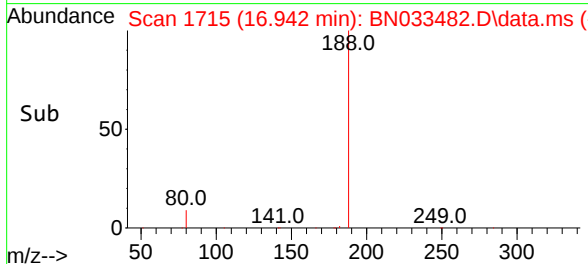
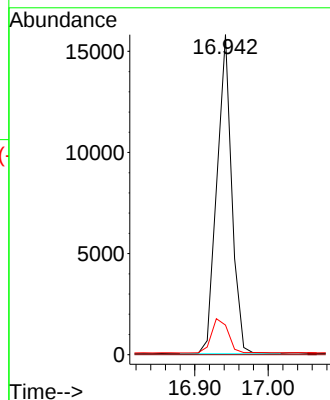
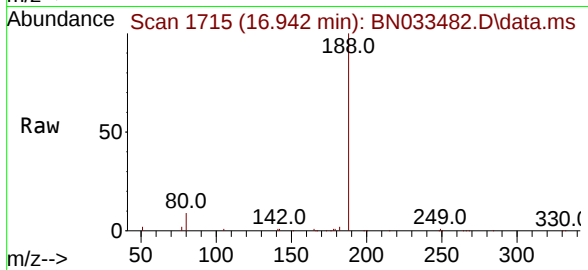
Tgt Ion:188 Resp: 22134

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 1.027 ng

RT: 15.322 min Scan# 1582

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

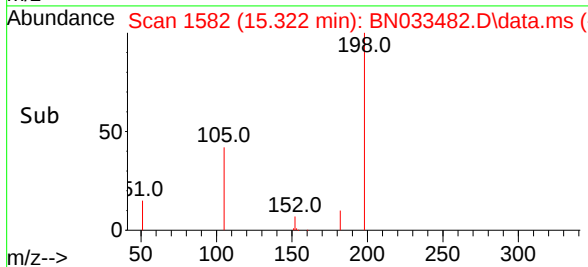
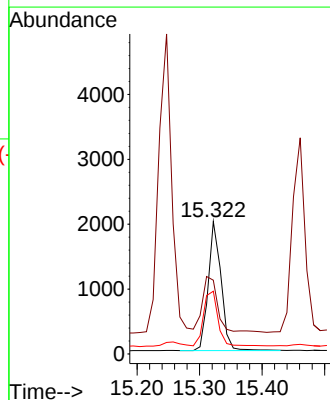
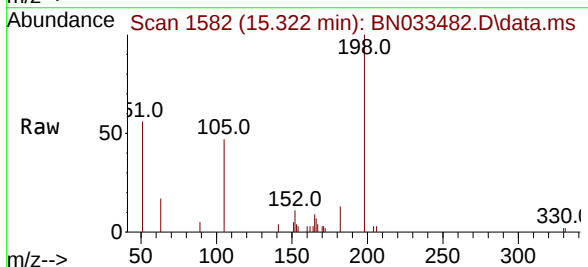
Tgt Ion:198 Resp: 2836

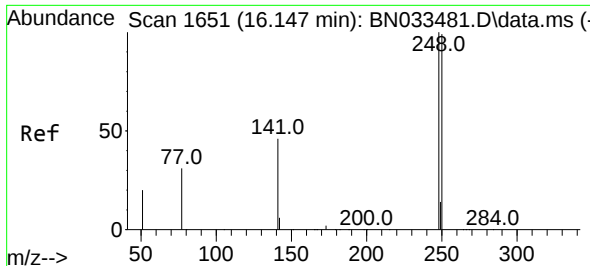
Ion Ratio Lower Upper

198 100

51 55.6 65.1 97.7#

105 47.3 44.8 67.2

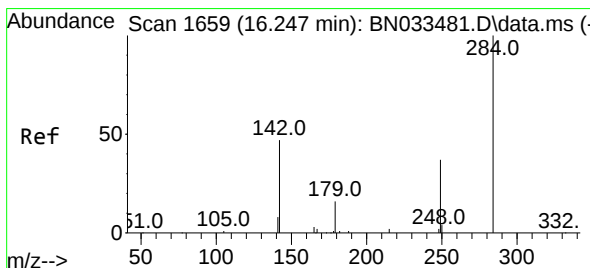
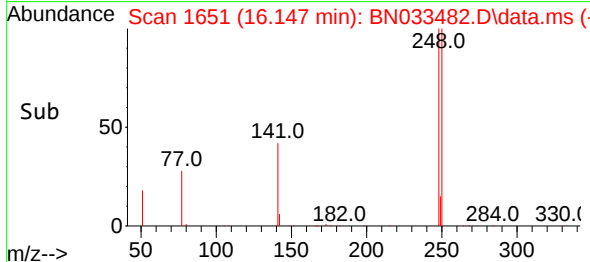
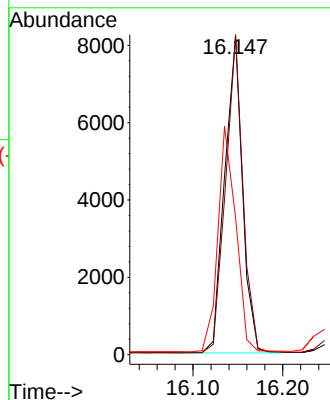
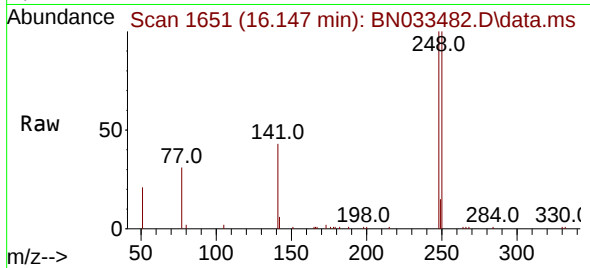




#21
4-Bromophenyl-phenylether
Concen: 0.854 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

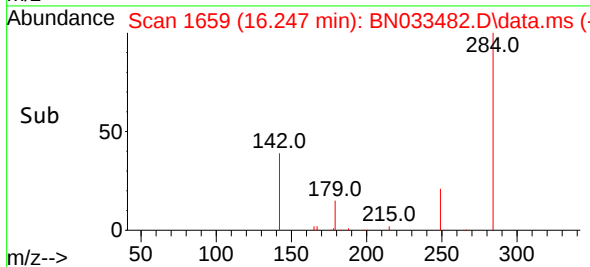
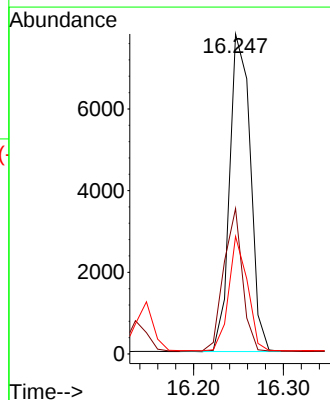
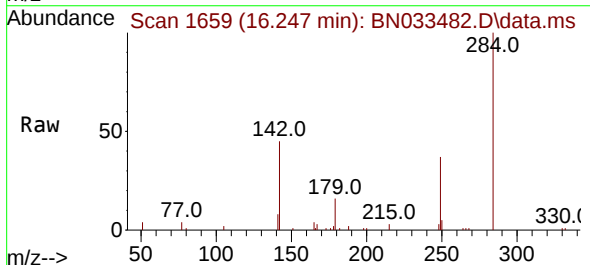
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

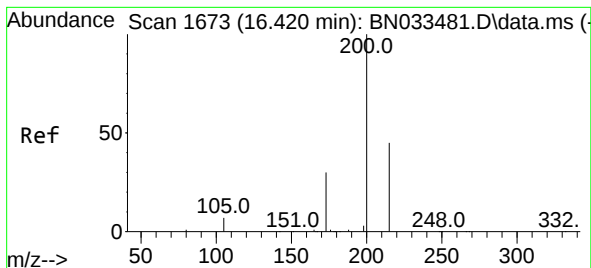
Tgt Ion:248 Resp: 11281
Ion Ratio Lower Upper
248 100
250 100.3 79.2 118.8
141 43.0 37.9 56.9



#22
Hexachlorobenzene
Concen: 0.844 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:284 Resp: 12452
Ion Ratio Lower Upper
284 100
142 40.5 31.8 47.6
249 32.6 26.0 39.0





#23

Atrazine

Concen: 0.845 ng

RT: 16.420 min Scan# 1673

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

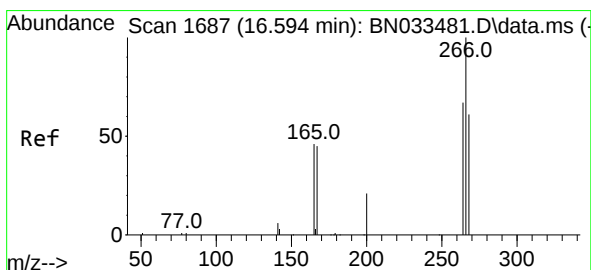
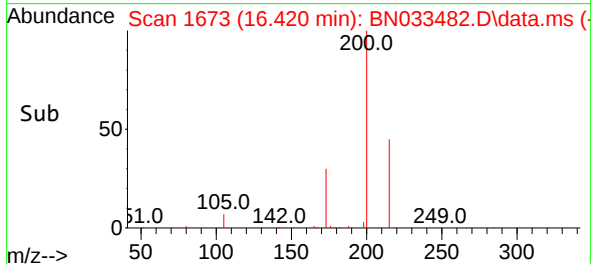
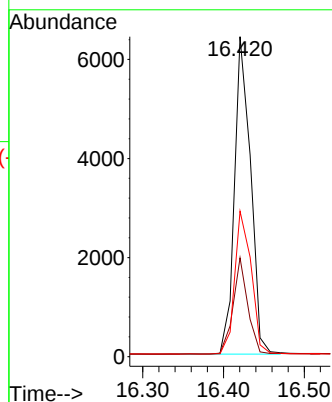
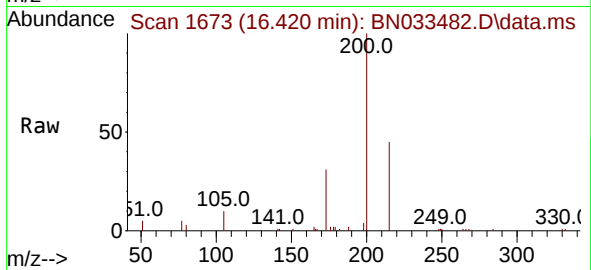
Tgt Ion:200 Resp: 8886

Ion Ratio Lower Upper

200 100

173 30.9 25.3 37.9

215 45.4 36.6 54.8



#24

Pentachlorophenol

Concen: 0.869 ng

RT: 16.594 min Scan# 1687

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

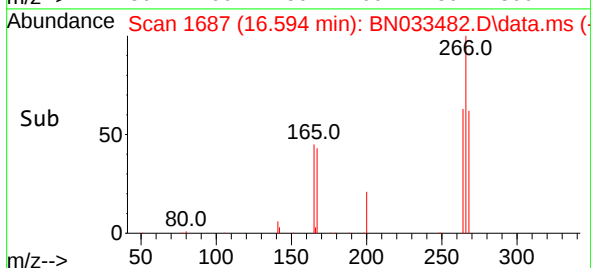
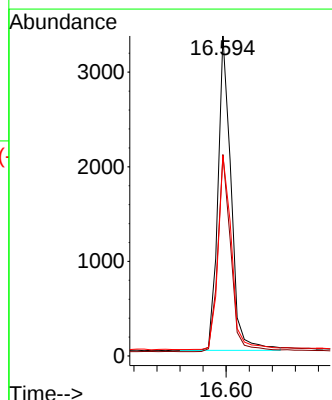
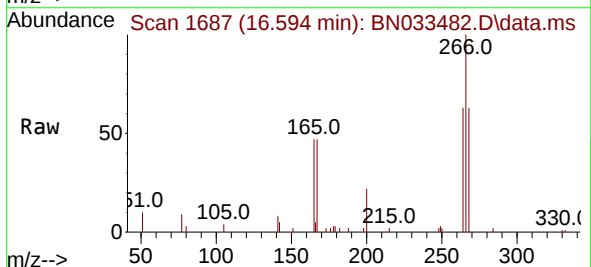
Tgt Ion:266 Resp: 5244

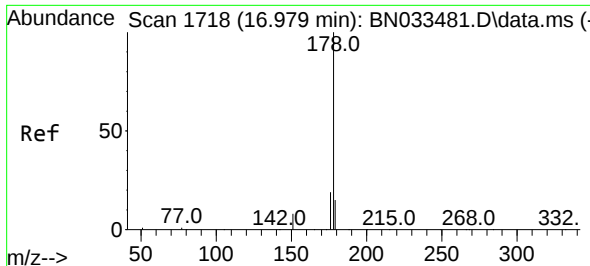
Ion Ratio Lower Upper

266 100

264 62.2 51.9 77.9

268 63.3 51.0 76.4

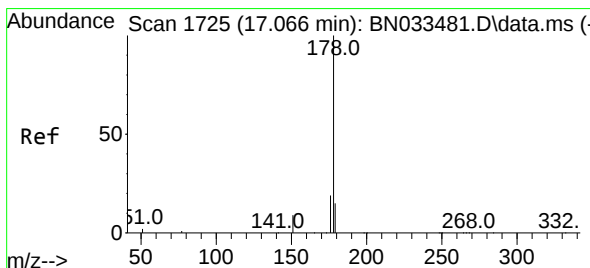
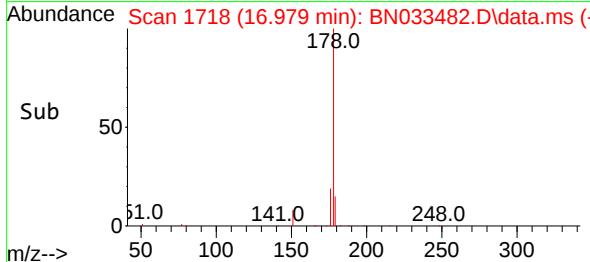
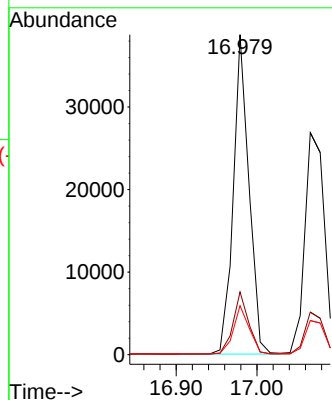
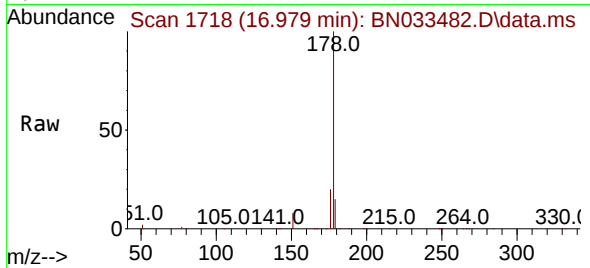




#25
Phenanthrene
Concen: 0.822 ng
RT: 16.979 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

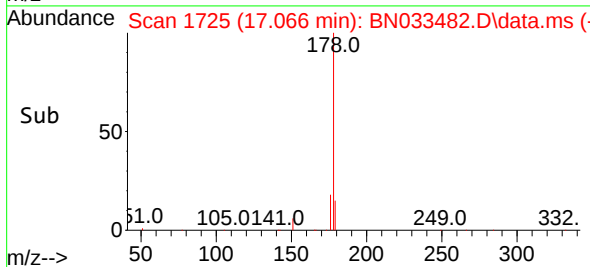
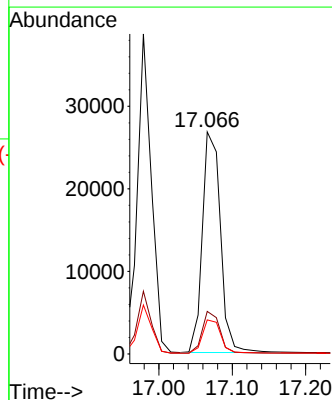
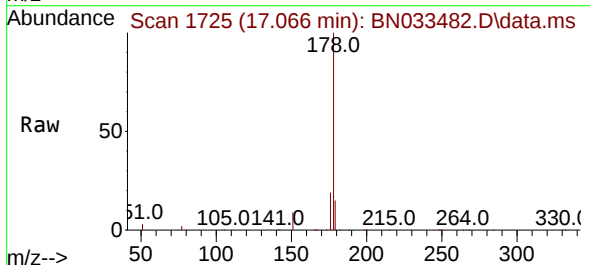
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

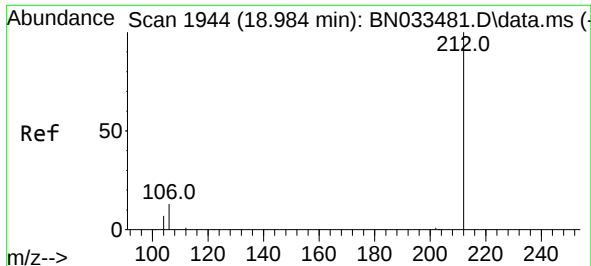
Tgt Ion:178 Resp: 52082
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.2 12.3 18.5



#26
Anthracene
Concen: 0.819 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:178 Resp: 45804
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.2 12.4 18.6

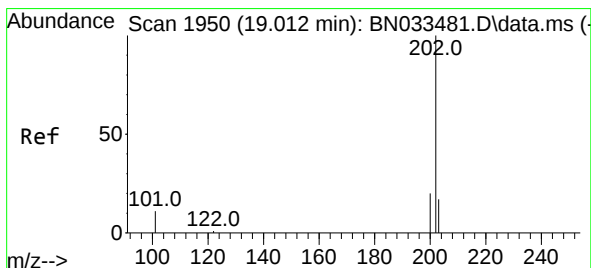
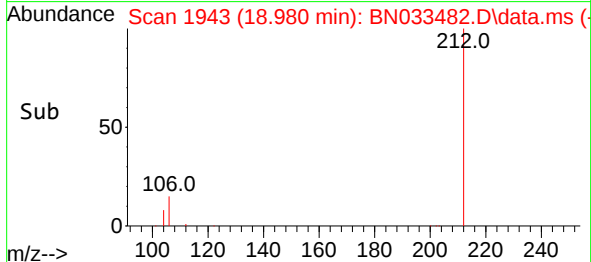
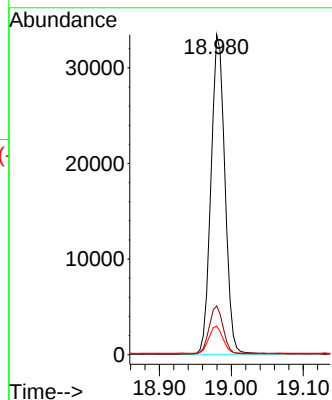
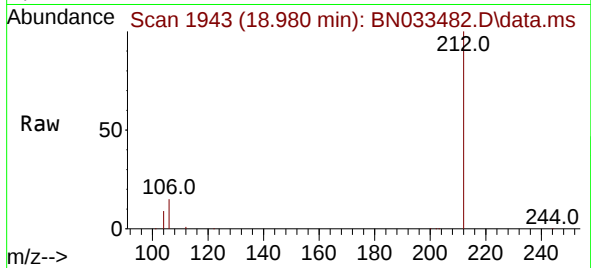




#27
Fluoranthene-d10
Concen: 0.771 ng
RT: 18.980 min Scan# 1944
Delta R.T. -0.005 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

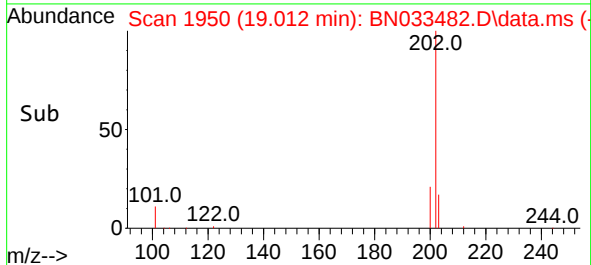
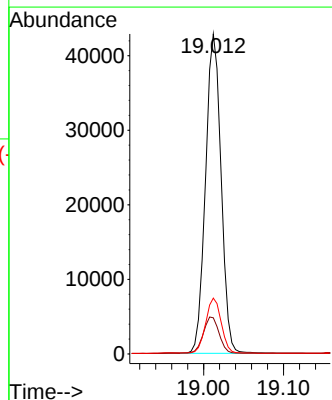
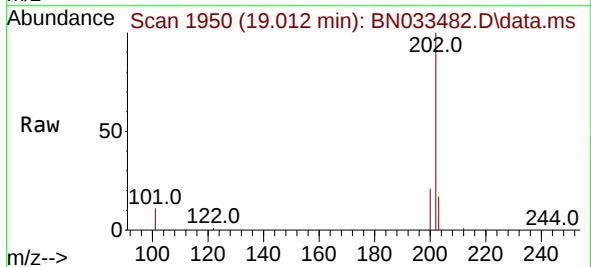
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

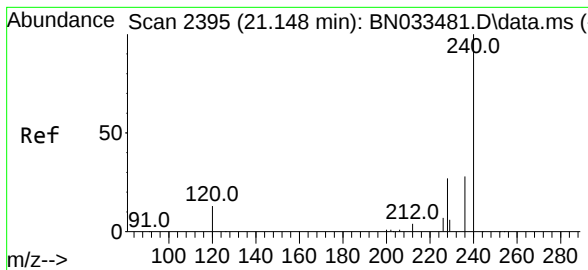
Tgt Ion:212 Resp: 44745
Ion Ratio Lower Upper
212 100
106 15.1 12.3 18.5
104 8.6 7.0 10.4



#28
Fluoranthene
Concen: 0.751 ng
RT: 19.012 min Scan# 1950
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:202 Resp: 57702
Ion Ratio Lower Upper
202 100
101 11.9 9.5 14.3
203 17.1 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

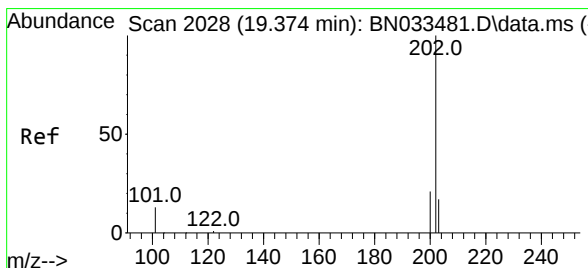
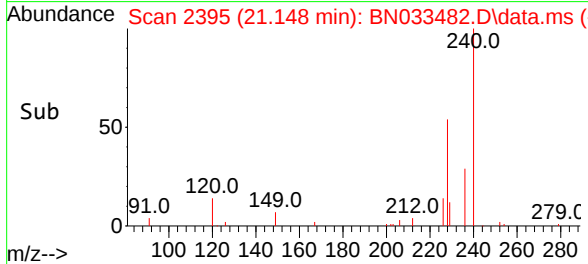
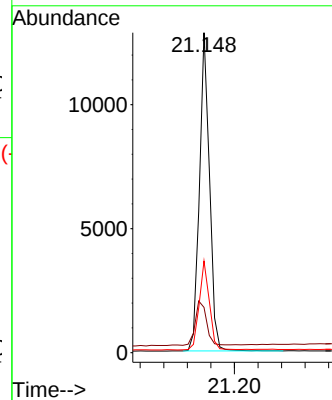
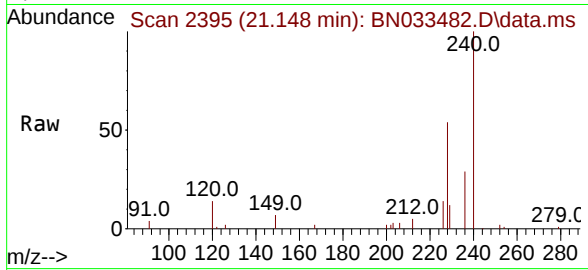
Tgt Ion:240 Resp: 15199

Ion Ratio Lower Upper

240 100

120 14.1 12.4 18.6

236 28.6 23.0 34.6



#30

Pyrene

Concen: 0.944 ng

RT: 19.374 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

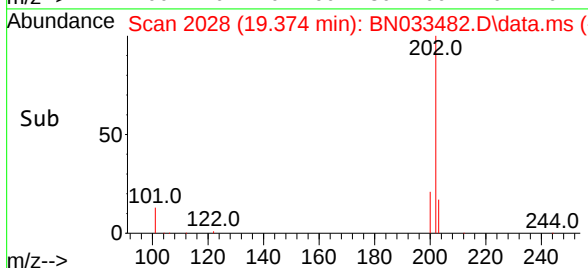
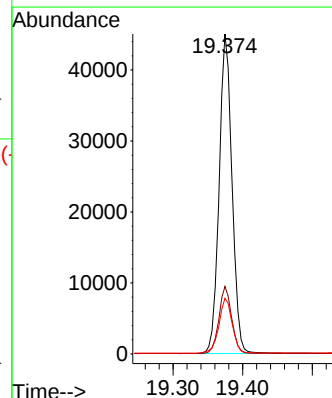
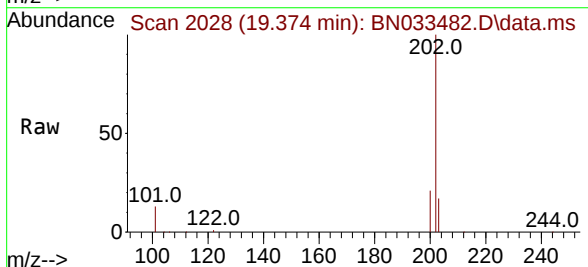
Tgt Ion:202 Resp: 57799

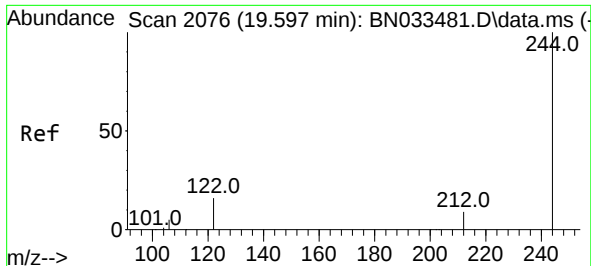
Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

203 17.7 14.2 21.4

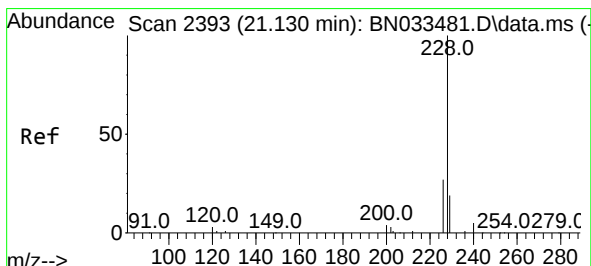
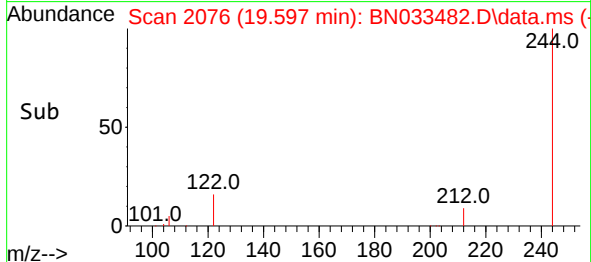
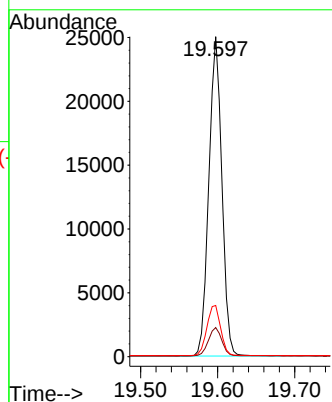
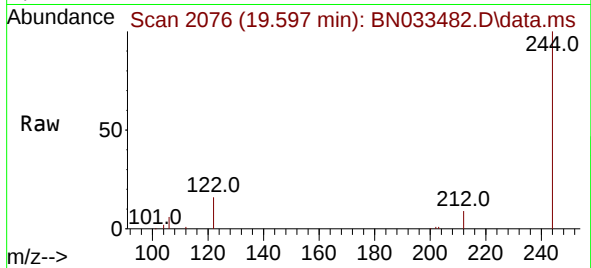




#31
 Terphenyl-d14
 Concen: 1.002 ng
 RT: 19.597 min Scan# 2076
 Delta R.T. 0.000 min
 Lab File: BN033482.D
 Acq: 19 Aug 2024 18:05

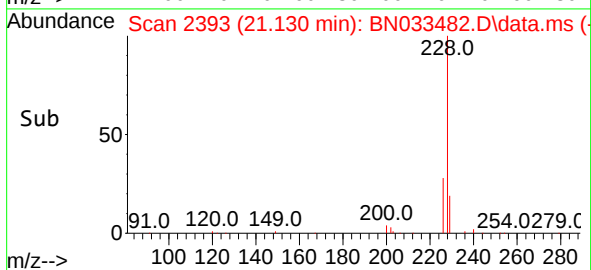
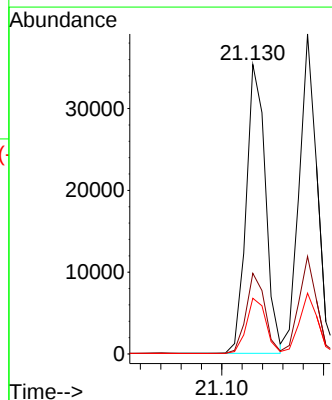
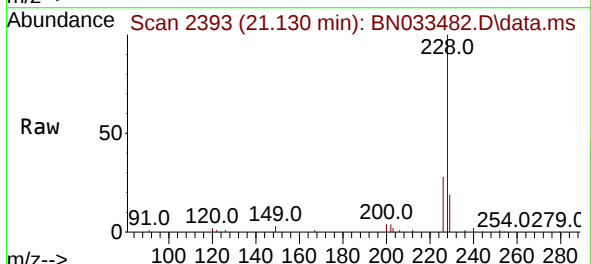
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

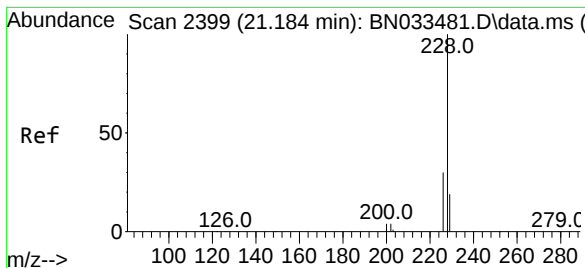
Tgt Ion:244	Resp:	29355
Ion Ratio	Lower	Upper
244	100	
212	9.1	7.8 11.6
122	16.0	13.3 19.9



#32
 Benzo(a)anthracene
 Concen: 0.822 ng
 RT: 21.130 min Scan# 2393
 Delta R.T. 0.000 min
 Lab File: BN033482.D
 Acq: 19 Aug 2024 18:05

Tgt Ion:228	Resp:	46368
Ion Ratio	Lower	Upper
228	100	
226	27.9	21.8 32.6
229	19.2	15.8 23.6





#33

Chrysene

Concen: 0.841 ng

RT: 21.184 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

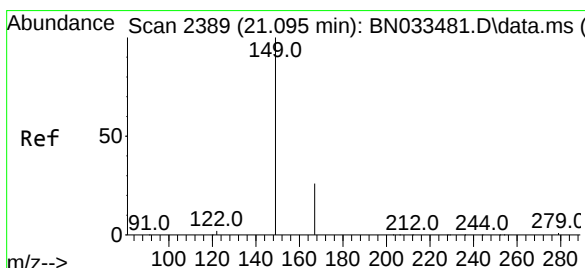
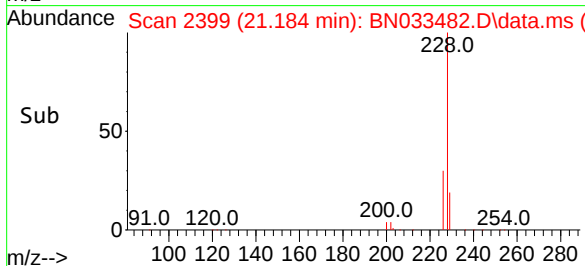
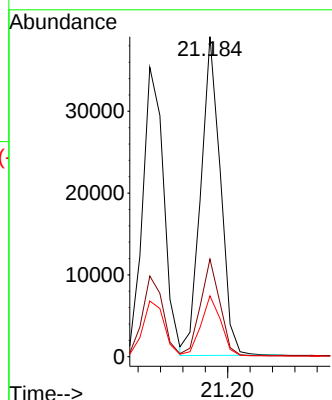
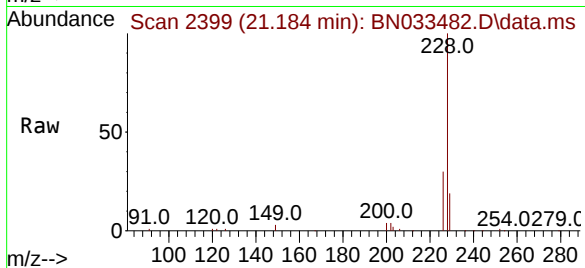
Tgt Ion:228 Resp: 47324

Ion Ratio Lower Upper

228 100

226 30.5 23.8 35.8

229 19.0 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.980 ng

RT: 21.095 min Scan# 2389

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

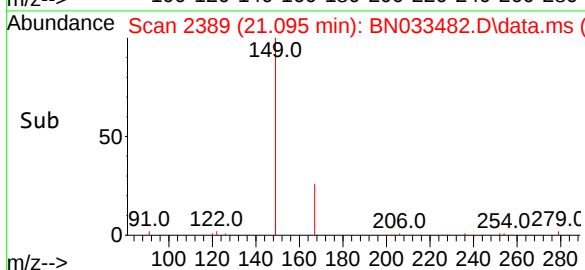
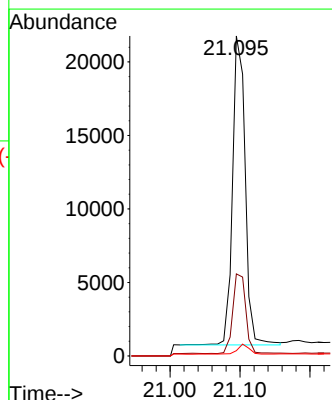
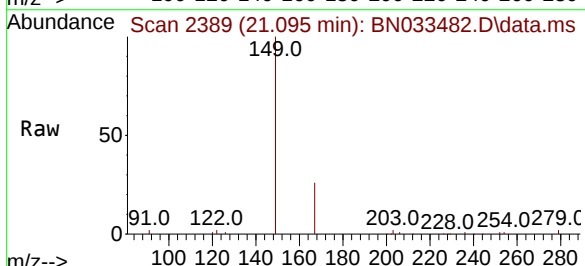
Tgt Ion:149 Resp: 26434

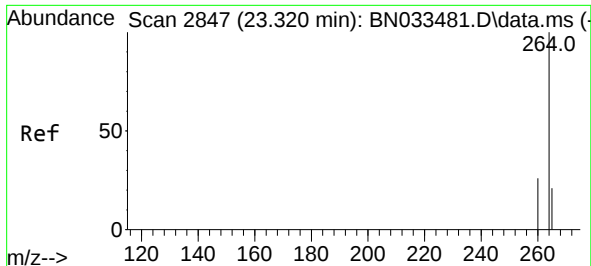
Ion Ratio Lower Upper

149 100

167 26.4 21.5 32.3

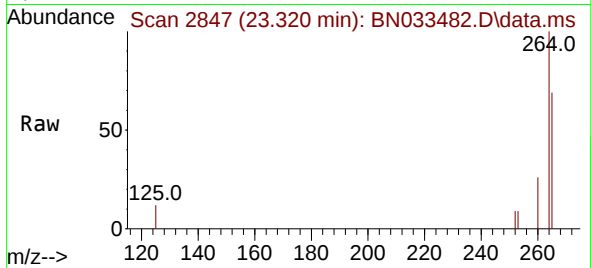
279 2.8 2.2 3.2



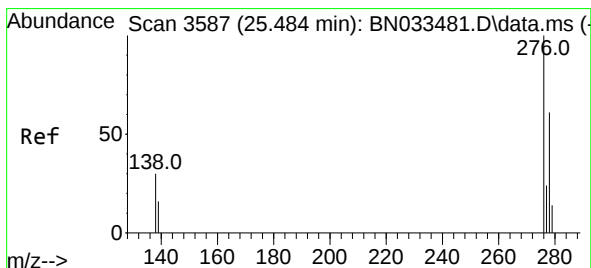
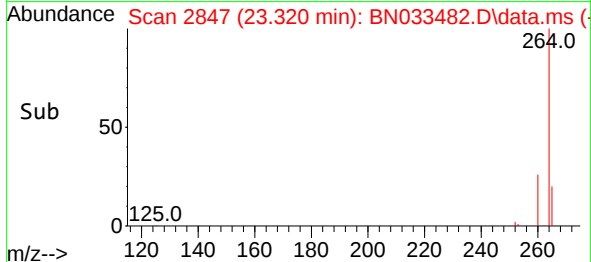
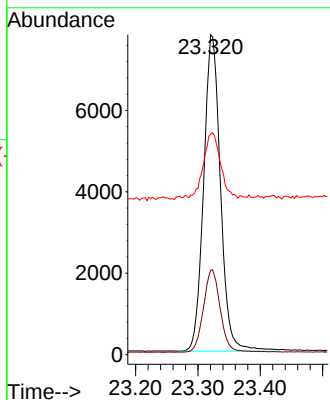


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.320 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

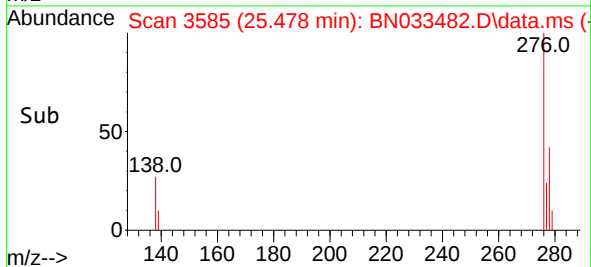
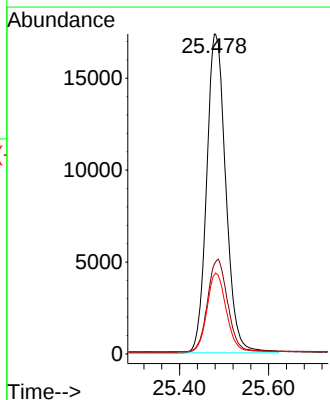
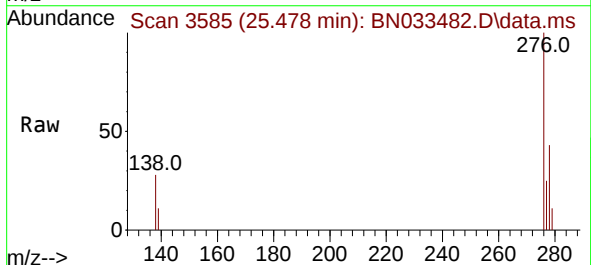


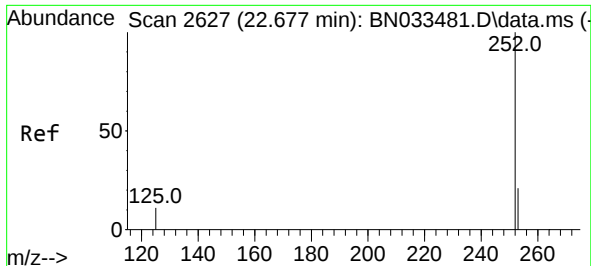
Tgt Ion:264 Resp: 14574
Ion Ratio Lower Upper
264 100
260 26.4 20.8 31.2
265 68.9 52.2 78.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.858 ng
RT: 25.478 min Scan# 3585
Delta R.T. -0.006 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:276 Resp: 51859
Ion Ratio Lower Upper
276 100
138 30.1 24.4 36.6
277 24.8 19.8 29.6

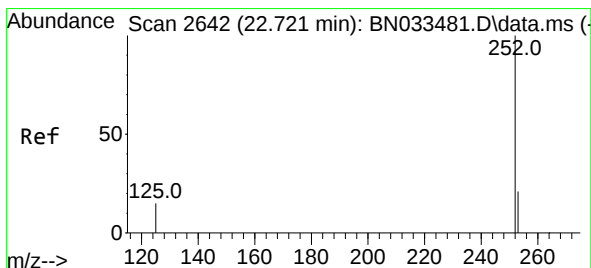
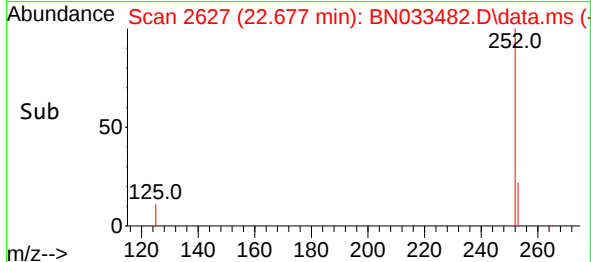
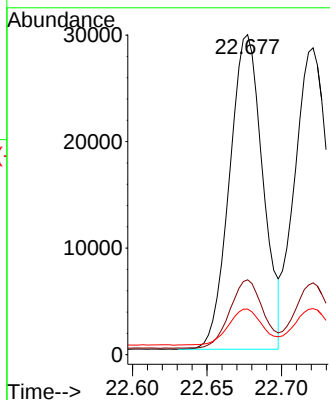
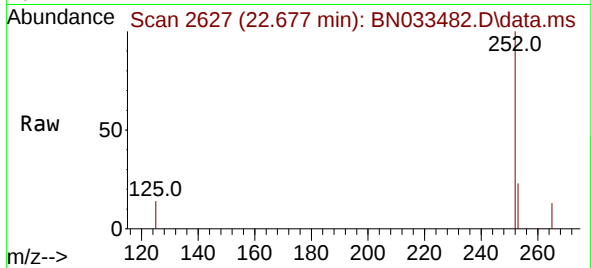




#37
Benzo(b)fluoranthene
Concen: 0.846 ng
RT: 22.677 min Scan# 2627
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

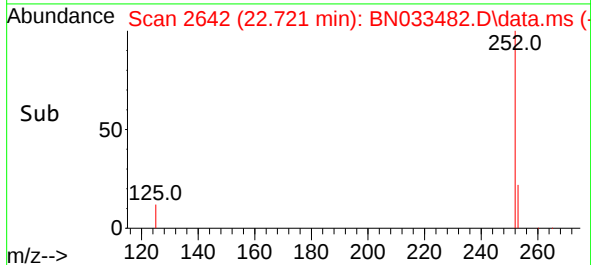
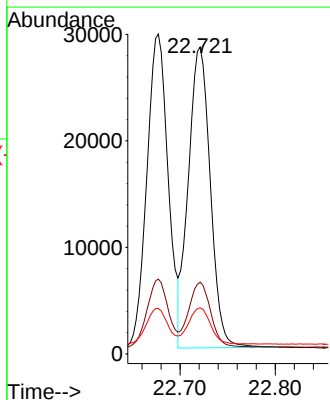
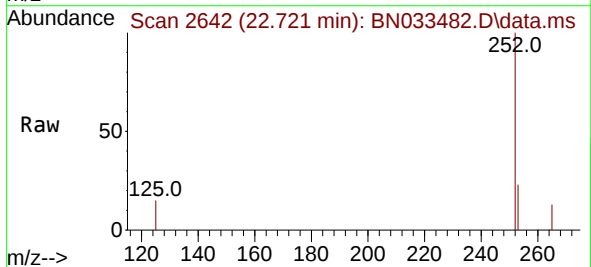
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

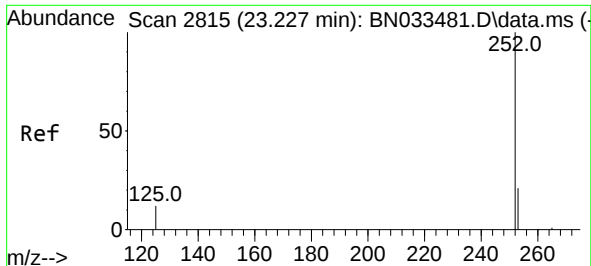
Tgt Ion:252 Resp: 46009
Ion Ratio Lower Upper
252 100
253 23.4 19.8 29.8
125 14.2 13.9 20.9



#38
Benzo(k)fluoranthene
Concen: 0.822 ng
RT: 22.721 min Scan# 2642
Delta R.T. 0.000 min
Lab File: BN033482.D
Acq: 19 Aug 2024 18:05

Tgt Ion:252 Resp: 45348
Ion Ratio Lower Upper
252 100
253 23.4 19.8 29.8
125 15.0 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 0.831 ng

RT: 23.227 min Scan# 2815

Delta R.T. 0.000 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

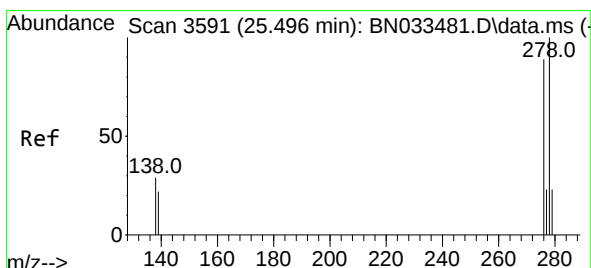
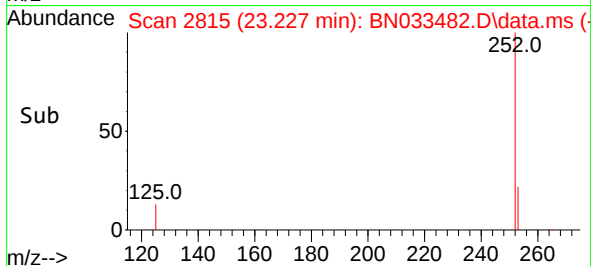
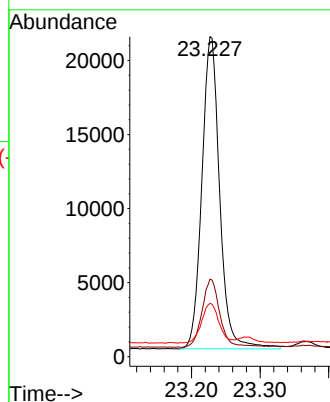
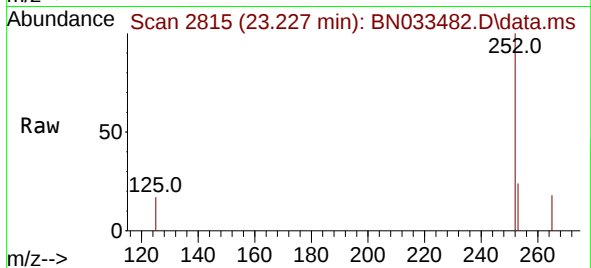
Tgt Ion:252 Resp: 38156

Ion Ratio Lower Upper

252 100

253 24.2 21.5 32.3

125 16.7 17.0 25.4#



#40

Dibenzo(a,h)anthracene

Concen: 0.869 ng

RT: 25.499 min Scan# 3592

Delta R.T. 0.003 min

Lab File: BN033482.D

Acq: 19 Aug 2024 18:05

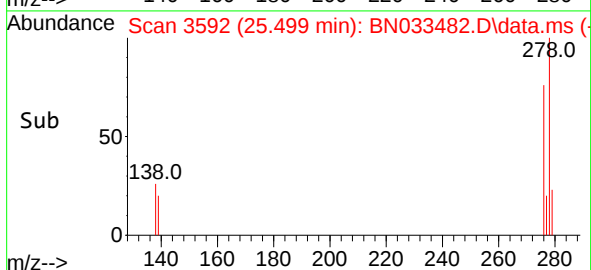
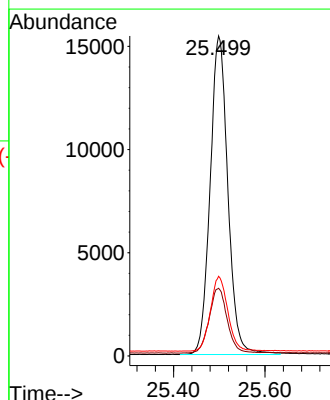
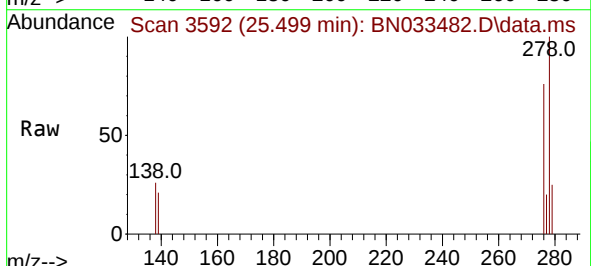
Tgt Ion:278 Resp: 41569

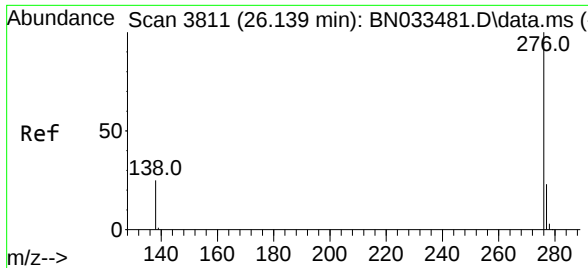
Ion Ratio Lower Upper

278 100

139 21.1 19.1 28.7

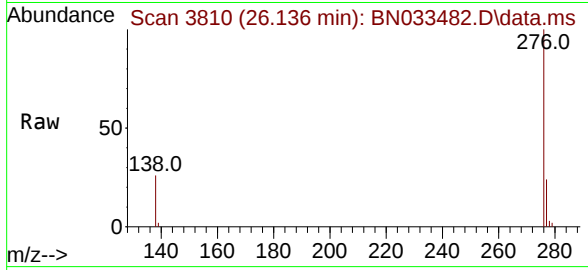
279 24.9 21.0 31.4



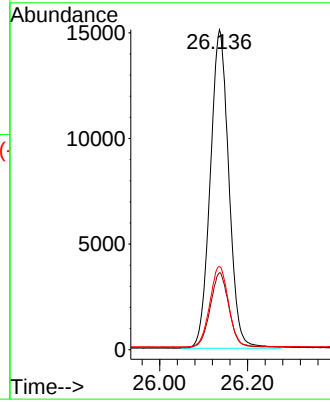
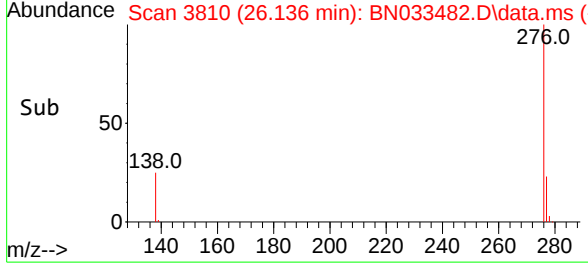


#41
 Benzo(g,h,i)perylene
 Concen: 0.842 ng
 RT: 26.136 min Scan# 3811
 Delta R.T. -0.003 min
 Lab File: BN033482.D
 Acq: 19 Aug 2024 18:05

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8



Tgt Ion:	276	Resp:	44249
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.7	29.5
138	26.0	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033483.D
 Acq On : 19 Aug 2024 18:41
 Operator : MA/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Aug 19 23:23:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

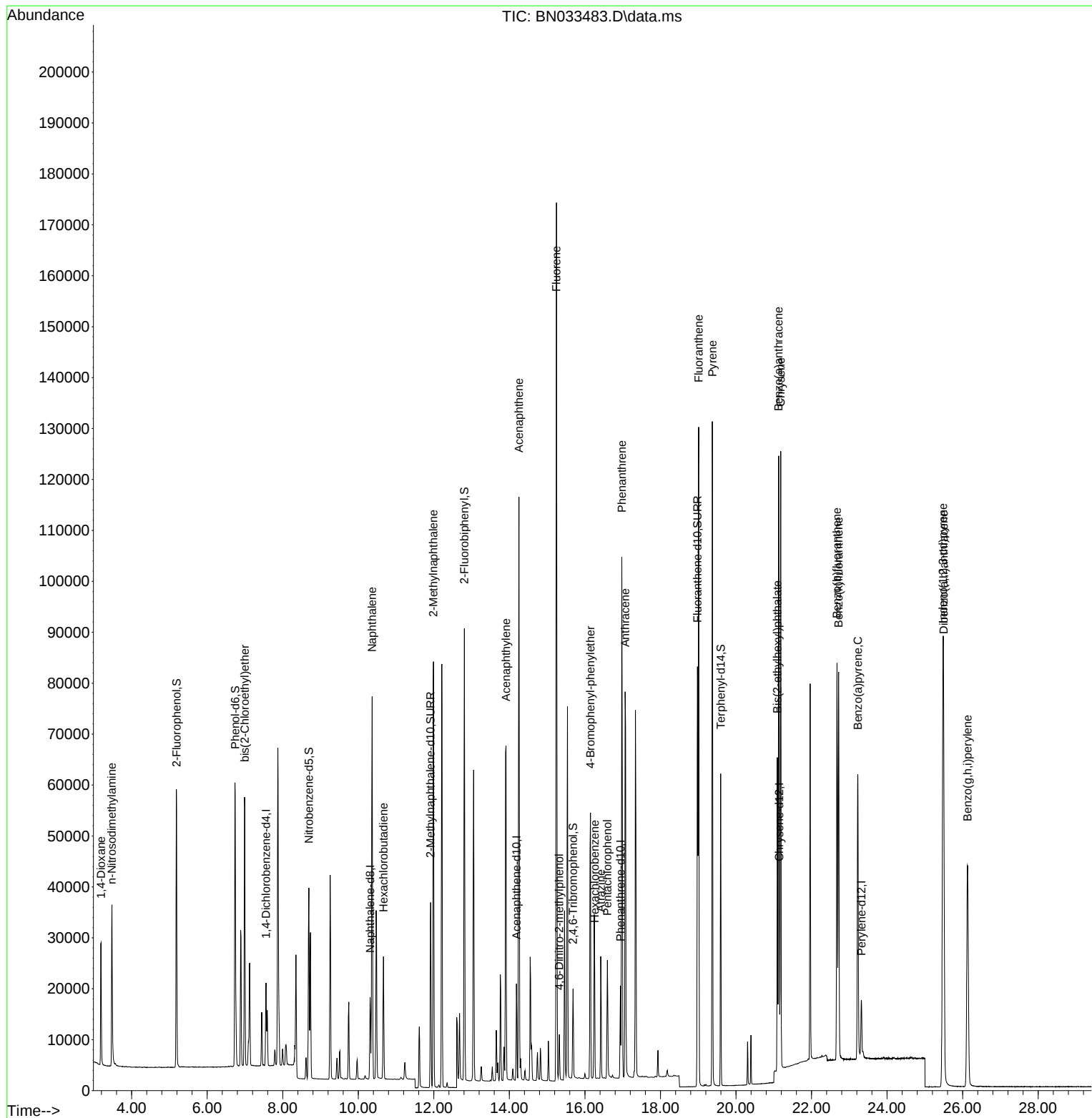
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	7702	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	20093	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	10300	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	21446	0.400	ng	0.00
29) Chrysene-d12	21.148	240	15163	0.400	ng	0.00
35) Perylene-d12	23.320	264	14214	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	40890	1.888	ng	0.00
5) Phenol-d6	6.743	99	49228	1.739	ng	0.00
8) Nitrobenzene-d5	8.691	82	27737	1.822	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	48489	1.605	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	9316	1.771	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	71311	1.711	ng	0.00
27) Fluoranthene-d10	18.980	212	87075	1.549	ng	0.00
31) Terphenyl-d14	19.597	244	57186	1.957	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.190	88	15020	1.812	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.472	42	17709	1.649	ng	96
6) bis(2-Chloroethyl)ether	6.996	93	35921	1.627	ng	100
9) Naphthalene	10.368	128	90555	1.661	ng	99
10) Hexachlorobutadiene	10.667	225	18053	1.726	ng	# 99
12) 2-Methylnaphthalene	11.990	142	57541	1.577	ng	99
16) Acenaphthylene	13.911	152	78001	1.648	ng	100
17) Acenaphthene	14.253	154	54451	1.672	ng	98
18) Fluorene	15.247	166	67863	1.592	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	5910	2.209	ng	# 73
21) 4-Bromophenyl-phenylether	16.147	248	21901	1.712	ng	98
22) Hexachlorobenzene	16.259	284	24018	1.681	ng	99
23) Atrazine	16.420	200	17440	1.712	ng	99
24) Pentachlorophenol	16.594	266	10462	1.789	ng	98
25) Phenanthrene	16.979	178	100158	1.632	ng	100
26) Anthracene	17.066	178	89744	1.655	ng	99
28) Fluoranthene	19.012	202	112640	1.513	ng	100
30) Pyrene	19.374	202	112513	1.842	ng	100
32) Benzo(a)anthracene	21.130	228	92764	1.649	ng	99
33) Chrysene	21.184	228	91851	1.637	ng	100
34) Bis(2-ethylhexyl)phtha...	21.095	149	52726	1.959	ng	99
36) Indeno(1,2,3-cd)pyrene	25.478	276	99989	1.697	ng	99
37) Benzo(b)fluoranthene	22.674	252	89426	1.685	ng	# 93
38) Benzo(k)fluoranthene	22.718	252	89588	1.666	ng	# 91
39) Benzo(a)pyrene	23.224	252	74888	1.673	ng	# 90
40) Dibenzo(a,h)anthracene	25.496	278	80194	1.720	ng	94
41) Benzo(g,h,i)perylene	26.130	276	85629	1.670	ng	98

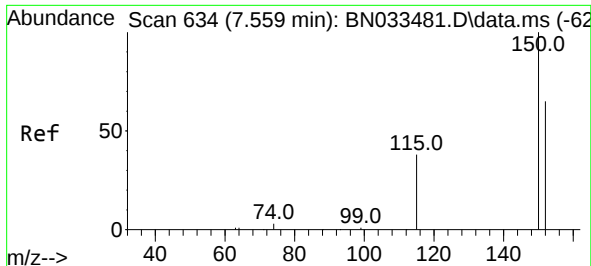
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033483.D
Acq On : 19 Aug 2024 18:41
Operator : MA/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Aug 19 23:23:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

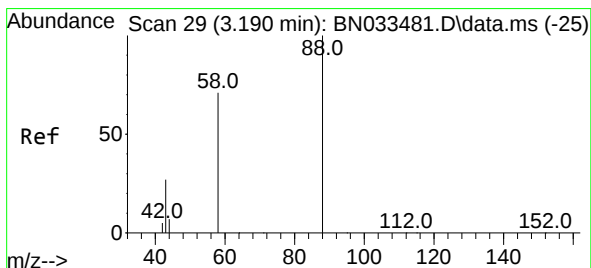
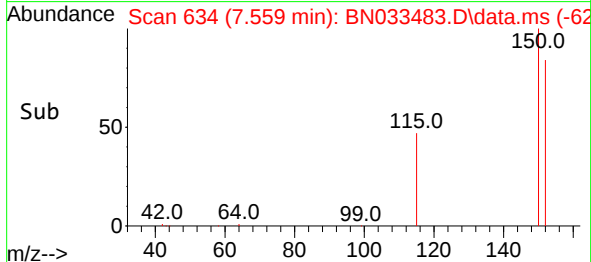
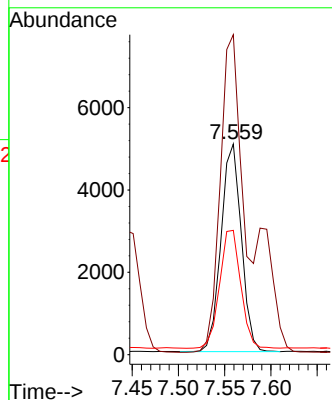
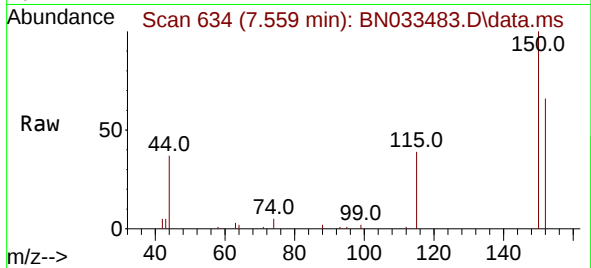




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.559 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

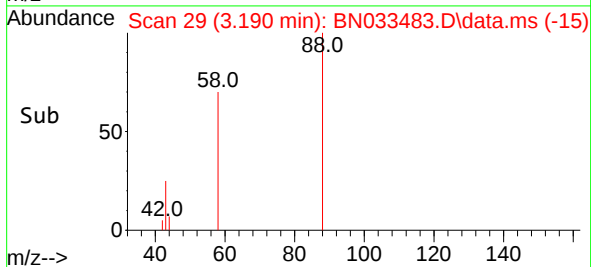
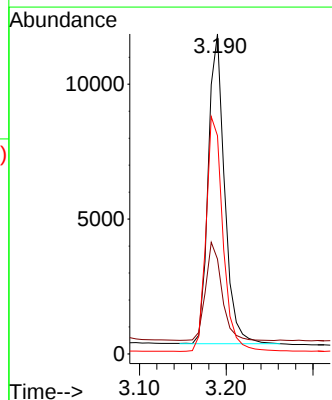
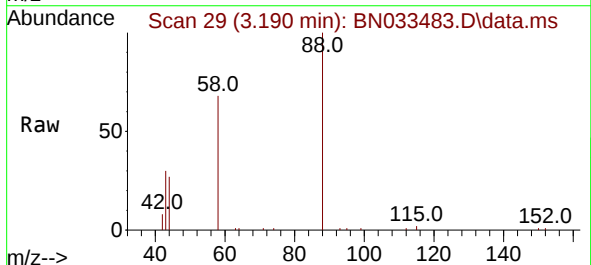
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

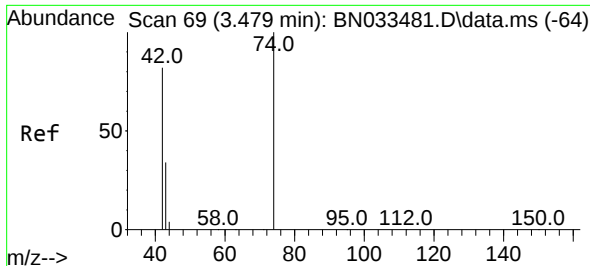
Tgt Ion:152 Resp: 7702
 Ion Ratio Lower Upper
 152 100
 150 151.8 122.2 183.2
 115 59.0 47.2 70.8



#2
 1,4-Dioxane
 Concen: 1.812 ng
 RT: 3.190 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

Tgt Ion: 88 Resp: 15020
 Ion Ratio Lower Upper
 88 100
 43 31.3 25.0 37.4
 58 78.6 62.5 93.7

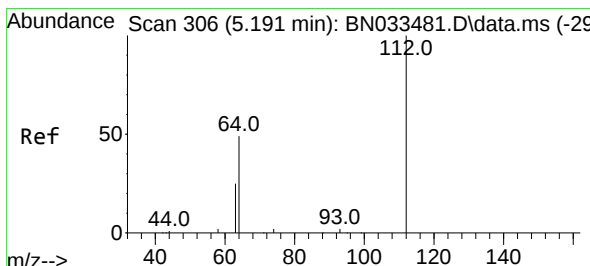
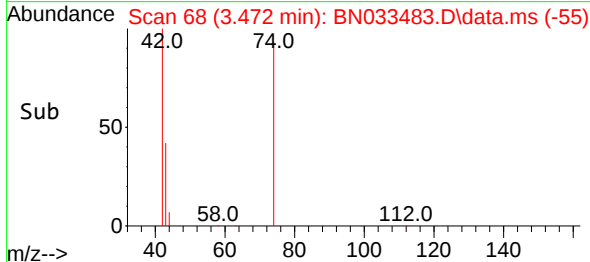
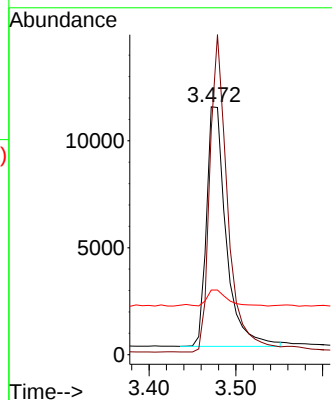
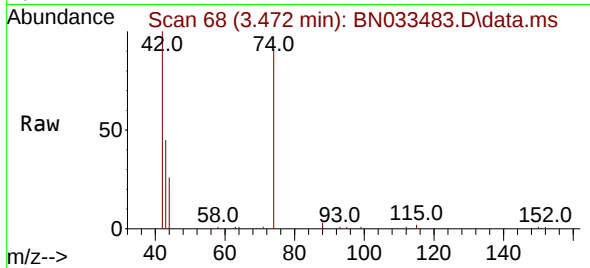




#3
 n-Nitrosodimethylamine
 Concen: 1.649 ng
 RT: 3.472 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

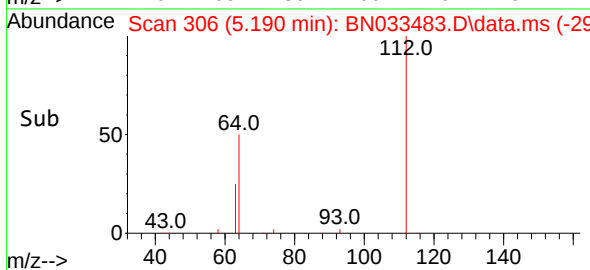
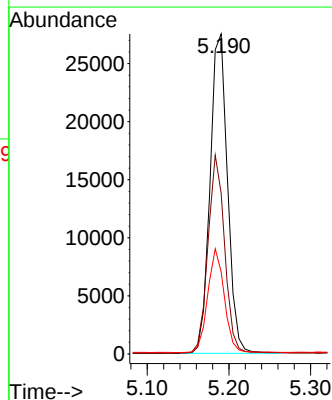
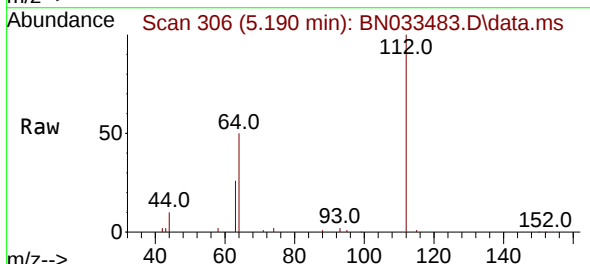
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

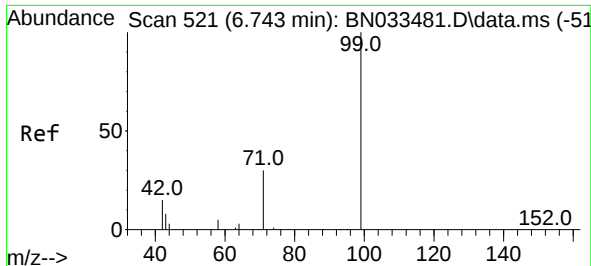
Tgt Ion: 42 Resp: 17709
 Ion Ratio Lower Upper
 42 100
 74 120.3 100.2 150.2
 44 7.1 5.3 7.9



#4
 2-Fluorophenol
 Concen: 1.888 ng
 RT: 5.190 min Scan# 306
 Delta R.T. -0.000 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

Tgt Ion: 112 Resp: 40890
 Ion Ratio Lower Upper
 112 100
 64 59.0 47.1 70.7
 63 30.8 24.9 37.3

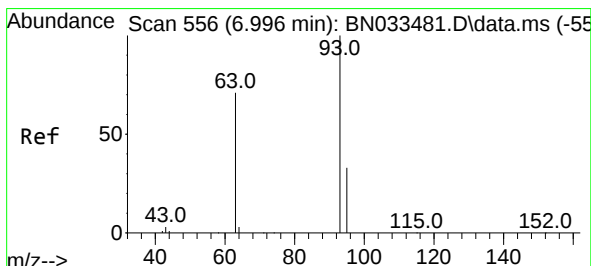
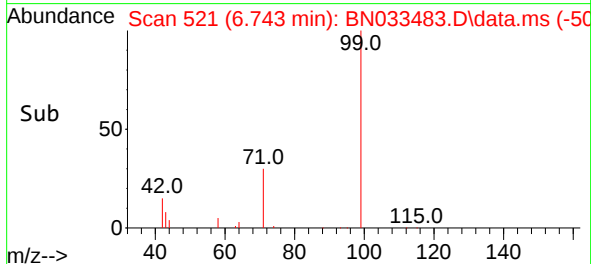
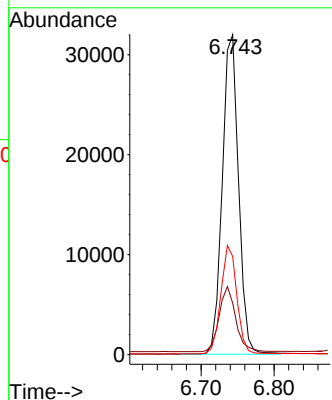
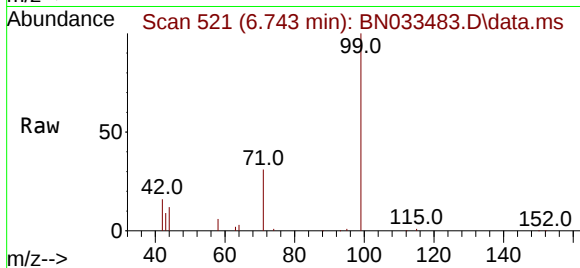




#5
Phenol-d6
Concen: 1.739 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

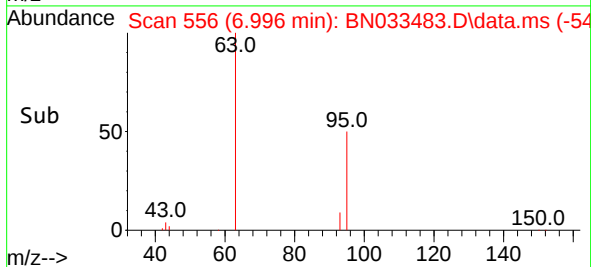
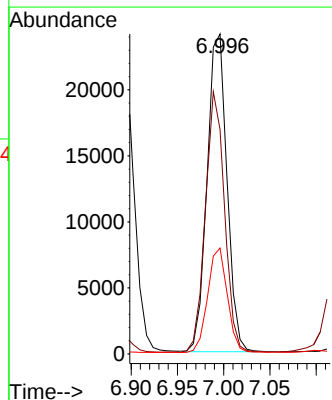
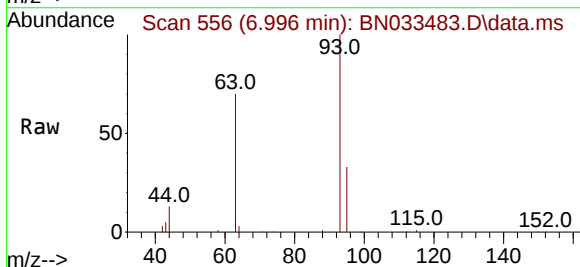
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

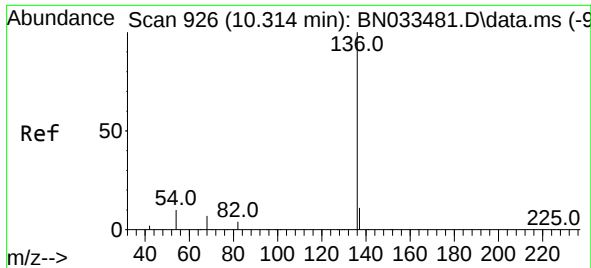
Tgt Ion: 99 Resp: 49228
Ion Ratio Lower Upper
99 100
42 20.8 16.6 24.8
71 33.3 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 1.627 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion: 93 Resp: 35921
Ion Ratio Lower Upper
93 100
63 79.1 63.0 94.4
95 32.6 26.0 39.0

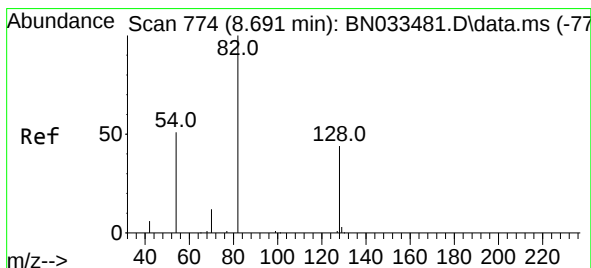
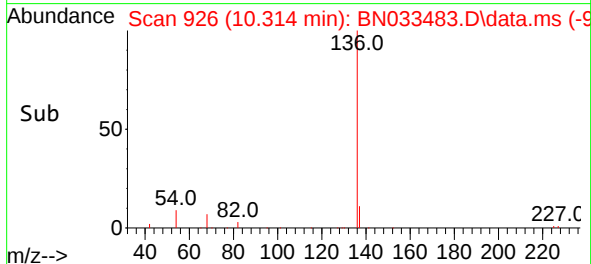
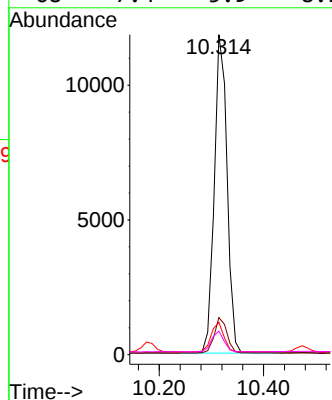
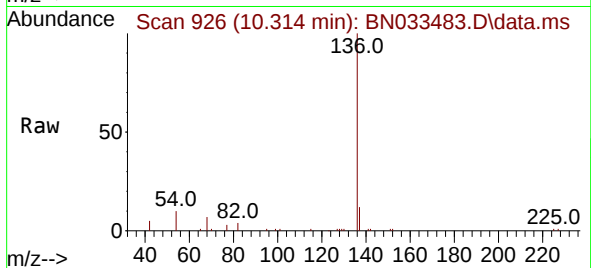




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

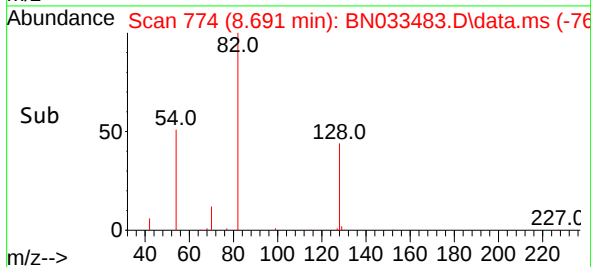
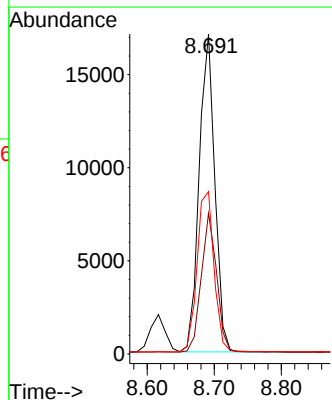
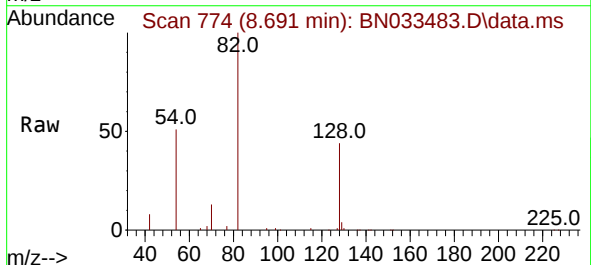
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

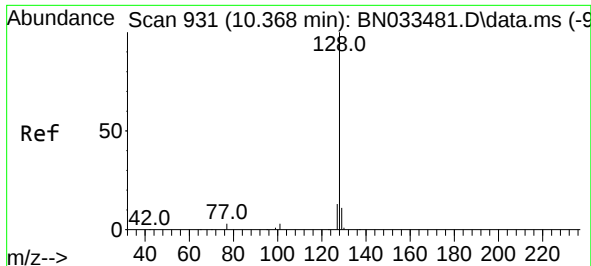
Tgt Ion:	136	Resp:	20093
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.0	13.6
54	10.1	8.3	12.5
68	7.4	5.9	8.9



#8
Nitrobenzene-d5
Concen: 1.822 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:	82	Resp:	27737
Ion	Ratio	Lower	Upper
82	100		
128	44.0	36.0	54.0
54	50.8	42.0	63.0

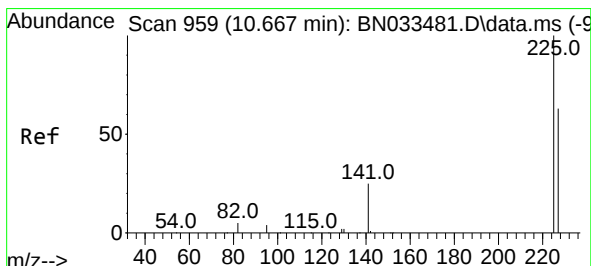
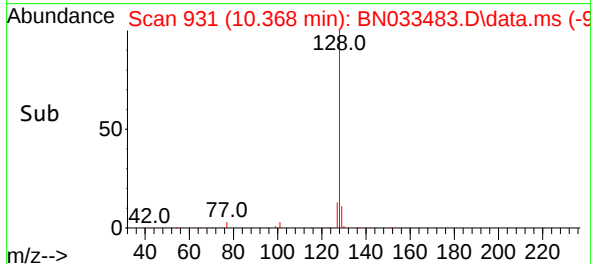
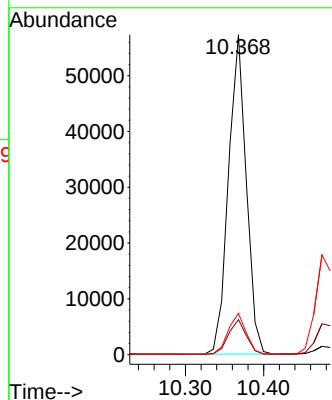
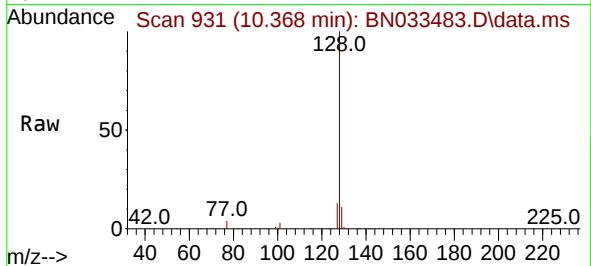




#9
Naphthalene
Concen: 1.661 ng
RT: 10.368 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

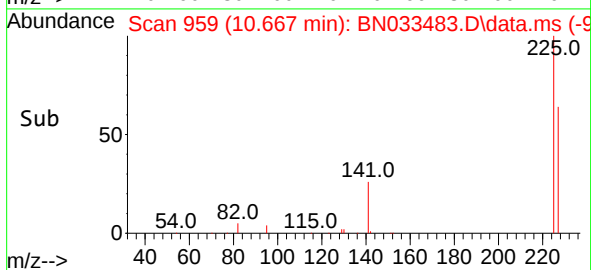
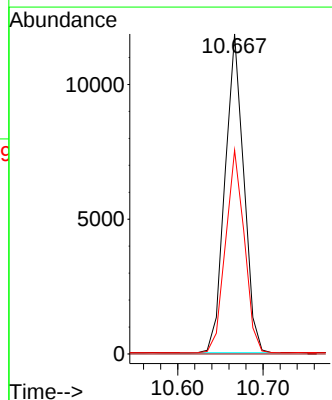
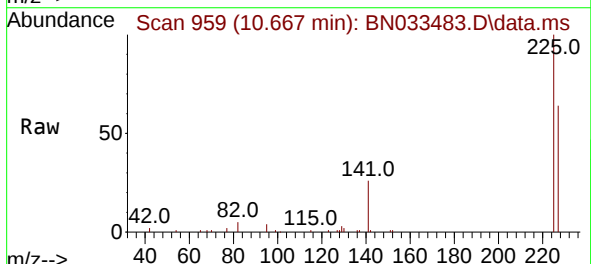
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

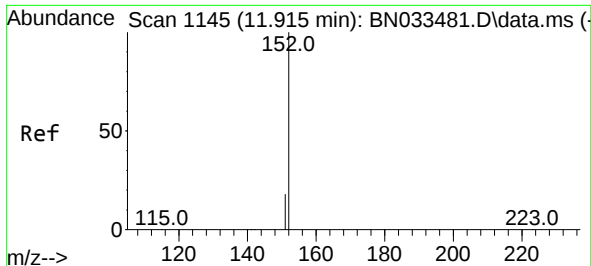
Tgt Ion:128 Resp: 90555
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 12.9 10.7 16.1



#10
Hexachlorobutadiene
Concen: 1.726 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:225 Resp: 18053
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.2 76.8

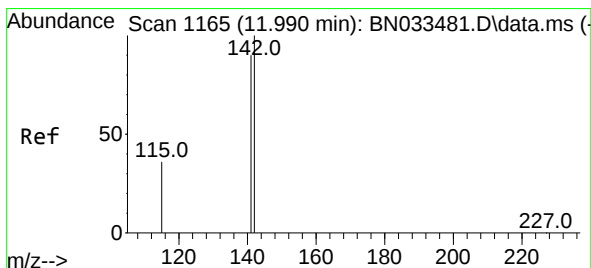
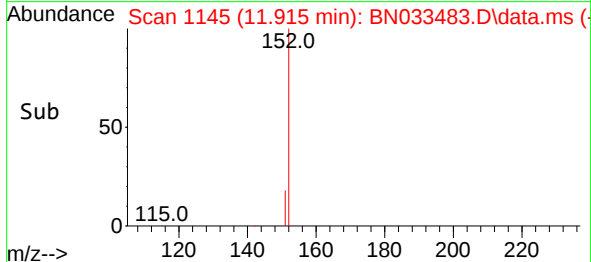
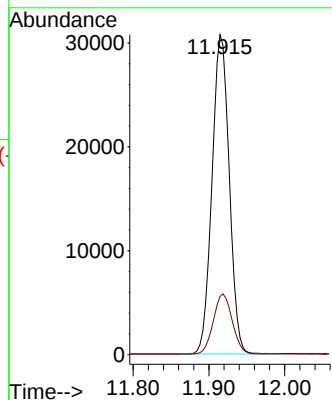
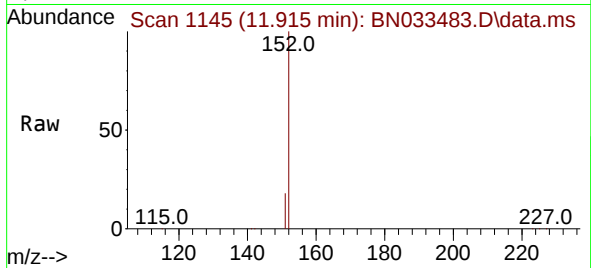




#11
2-Methylnaphthalene-d10
Concen: 1.605 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

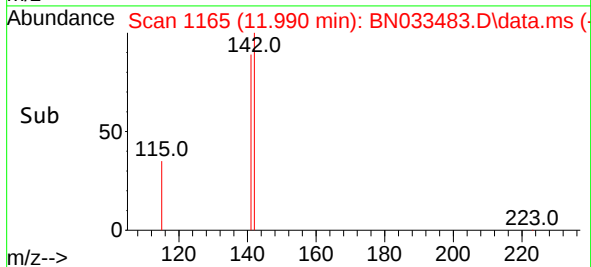
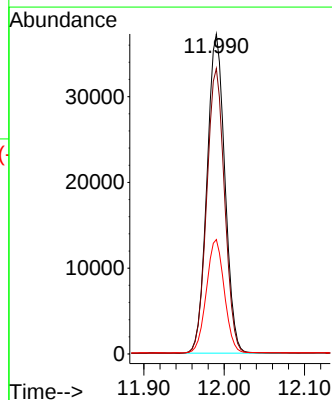
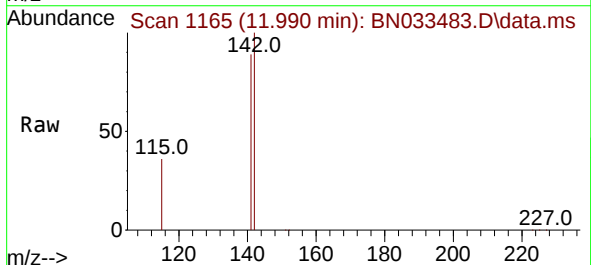
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

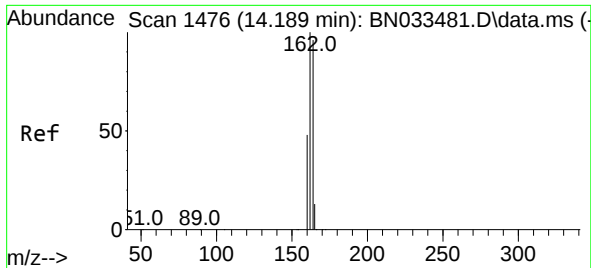
Tgt Ion:152 Resp: 48489
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 1.577 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:142 Resp: 57541
Ion Ratio Lower Upper
142 100
141 89.2 71.7 107.5
115 35.7 29.4 44.2

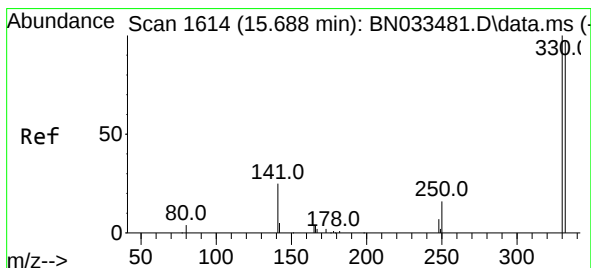
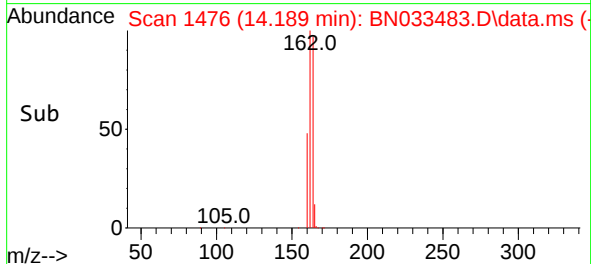
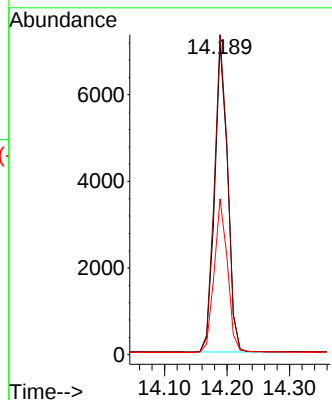
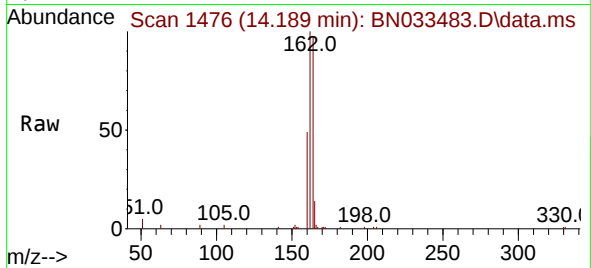




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

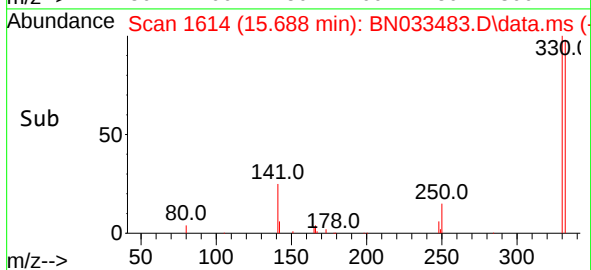
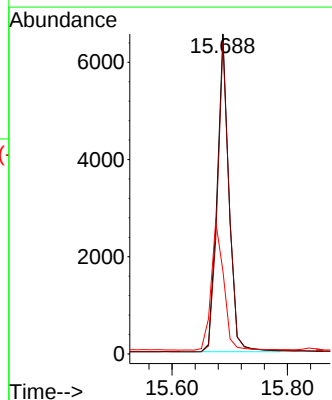
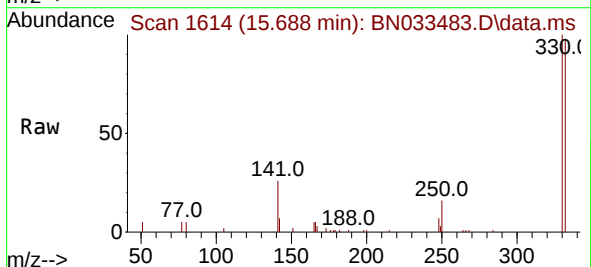
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

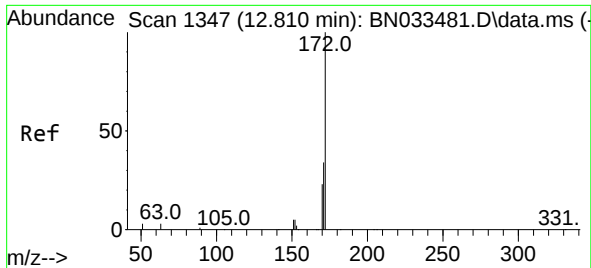
Tgt Ion:164 Resp: 10300
Ion Ratio Lower Upper
164 100
162 103.0 83.5 125.3
160 50.2 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 1.771 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:330 Resp: 9316
Ion Ratio Lower Upper
330 100
332 96.7 77.5 116.3
141 42.8 33.9 50.9

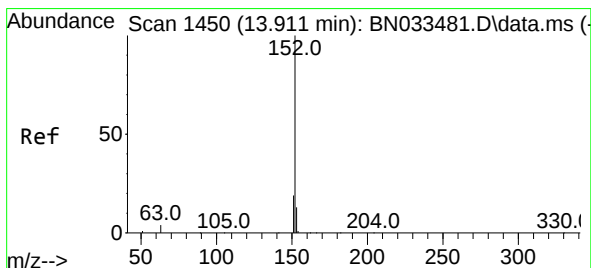
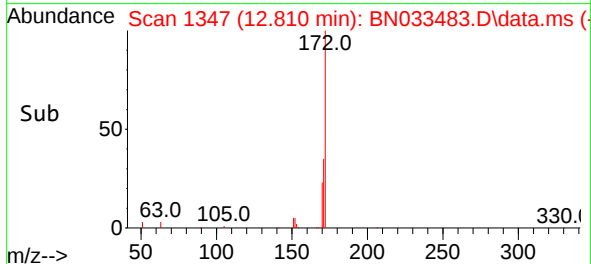
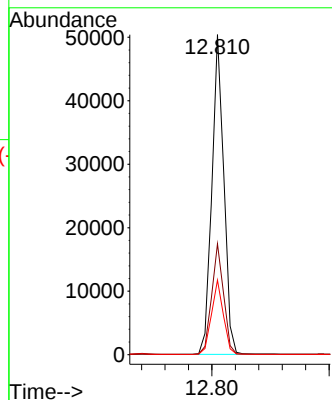
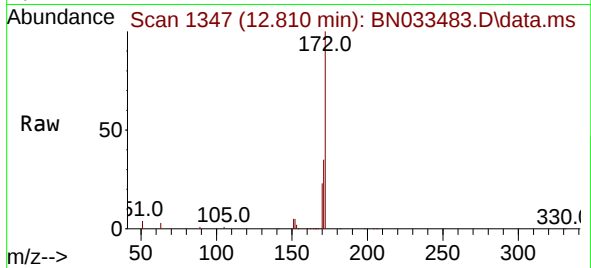




#15
2-Fluorobiphenyl
Concen: 1.711 ng
RT: 12.810 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

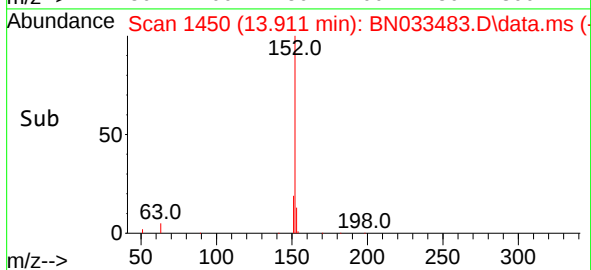
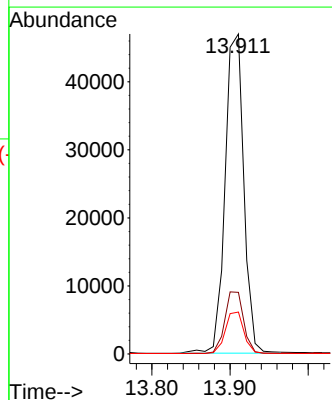
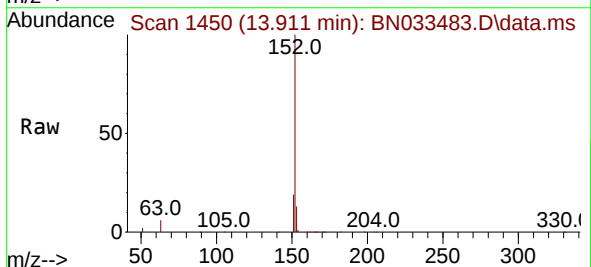
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

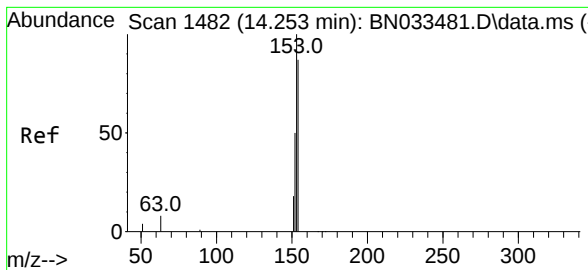
Tgt Ion:172 Resp: 71311
Ion Ratio Lower Upper
172 100
171 34.6 27.7 41.5
170 23.3 18.3 27.5



#16
Acenaphthylene
Concen: 1.648 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:152 Resp: 78001
Ion Ratio Lower Upper
152 100
151 19.5 15.7 23.5
153 13.0 10.3 15.5

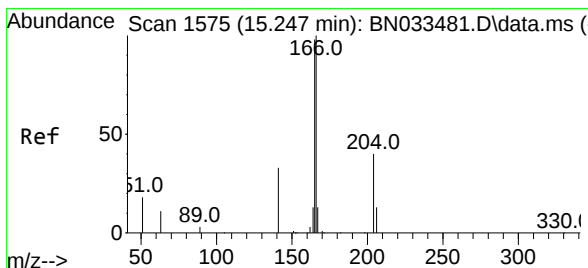
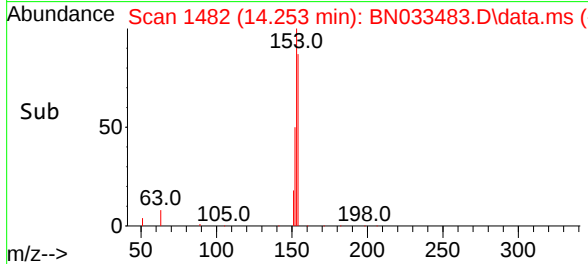
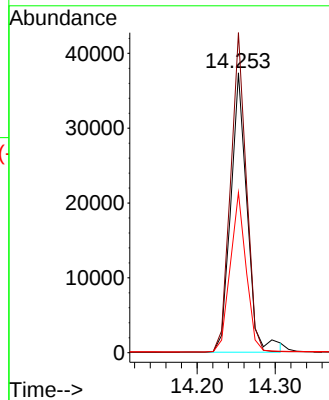
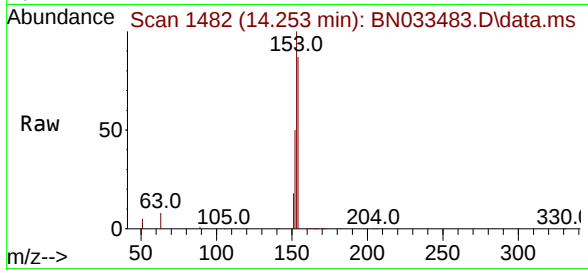




#17
Acenaphthene
Concen: 1.672 ng
RT: 14.253 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

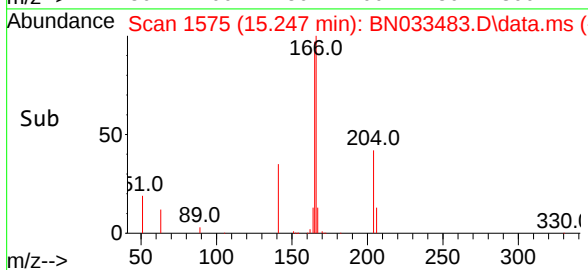
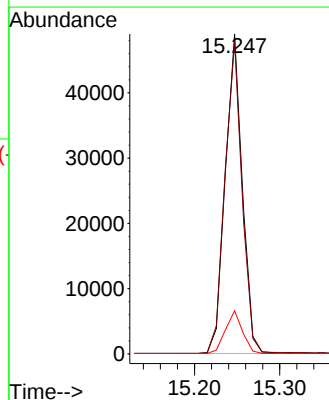
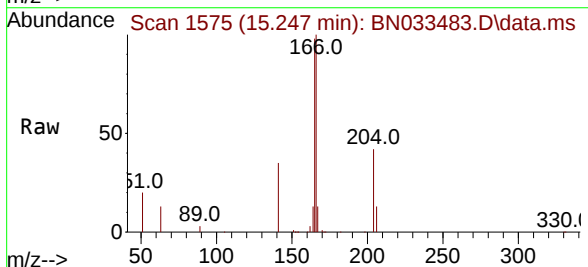
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

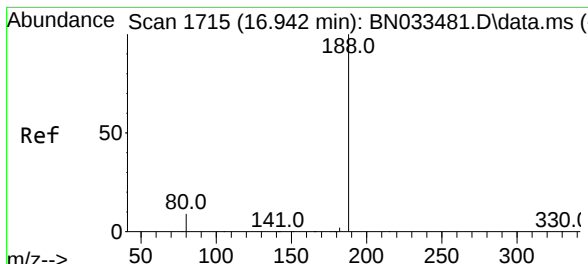
Tgt Ion:154 Resp: 54451
Ion Ratio Lower Upper
154 100
153 109.7 89.0 133.6
152 55.1 45.2 67.8



#18
Fluorene
Concen: 1.592 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:166 Resp: 67863
Ion Ratio Lower Upper
166 100
165 97.8 78.2 117.4
167 13.4 10.6 16.0

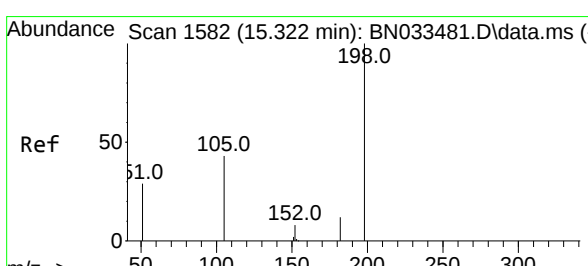
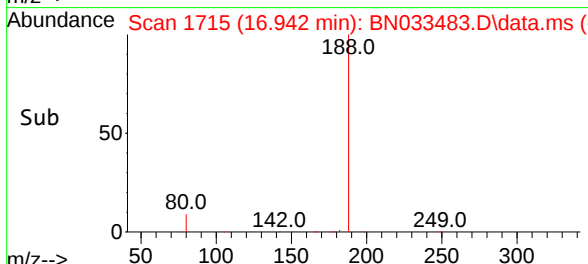
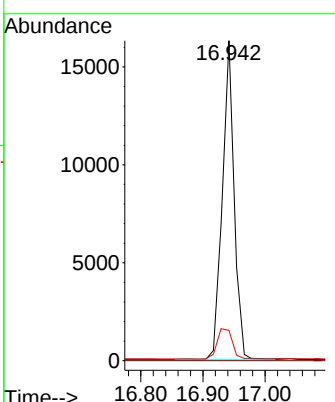
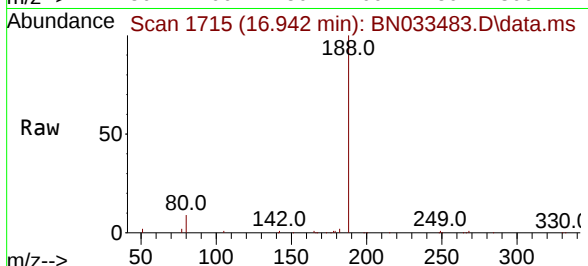




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.942 min Scan# 1715
 Delta R.T. -0.000 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

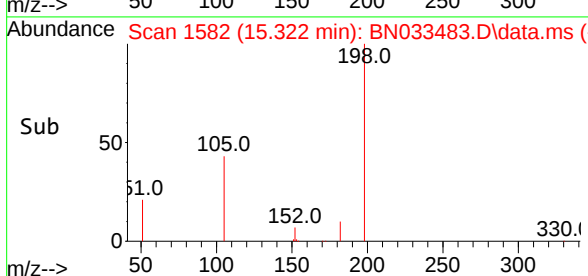
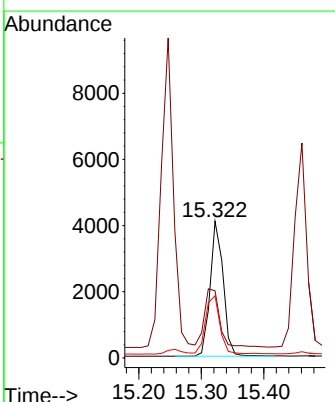
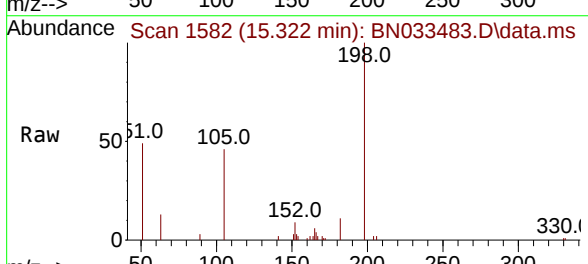
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

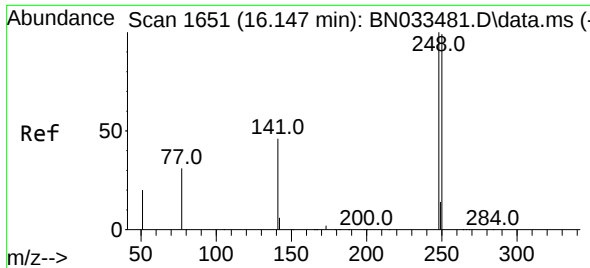
Tgt Ion:	188	Resp:	21446
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.5	7.8	11.8



#20
 4,6-Dinitro-2-methylphenol
 Concen: 2.209 ng
 RT: 15.322 min Scan# 1582
 Delta R.T. -0.000 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

Tgt Ion:	198	Resp:	5910
Ion Ratio	Lower	Upper	
198	100		
51	49.1	65.1	97.7#
105	45.6	44.8	67.2

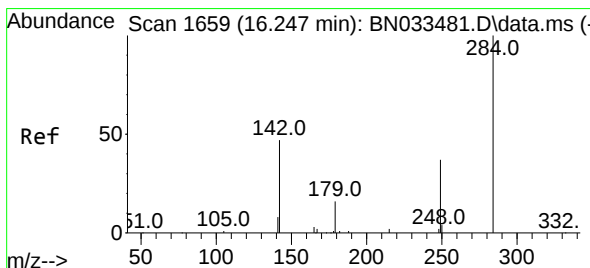
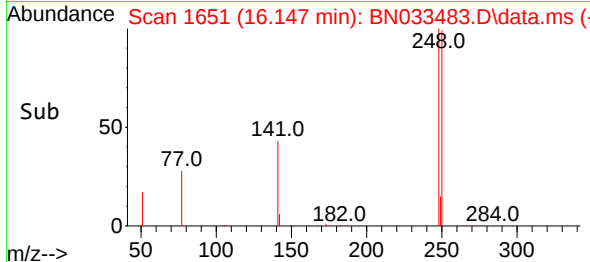
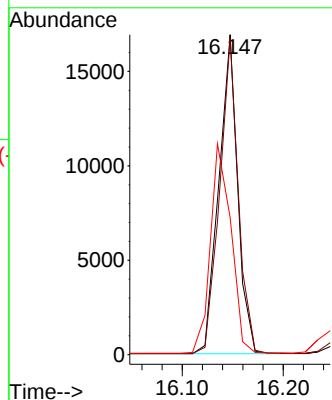
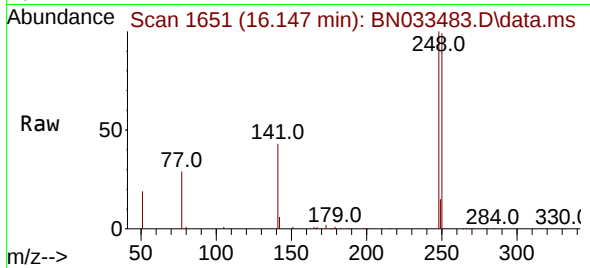




#21
4-Bromophenyl-phenylether
Concen: 1.712 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

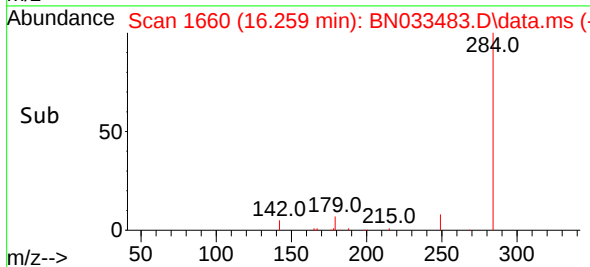
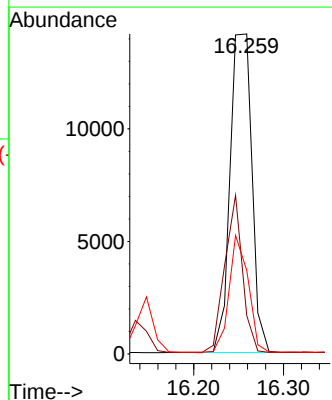
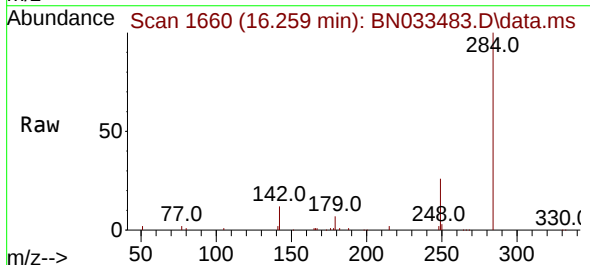
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

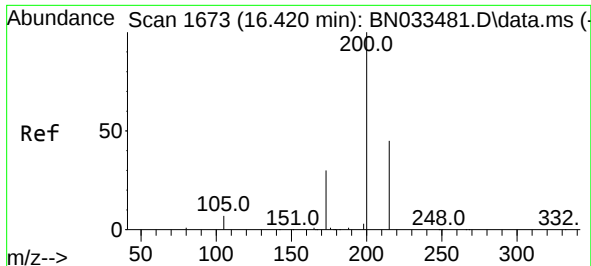
Tgt Ion:248 Resp: 21901
Ion Ratio Lower Upper
248 100
250 98.9 79.2 118.8
141 42.9 37.9 56.9



#22
Hexachlorobenzene
Concen: 1.681 ng
RT: 16.259 min Scan# 1660
Delta R.T. 0.012 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:284 Resp: 24018
Ion Ratio Lower Upper
284 100
142 39.9 31.8 47.6
249 31.8 26.0 39.0

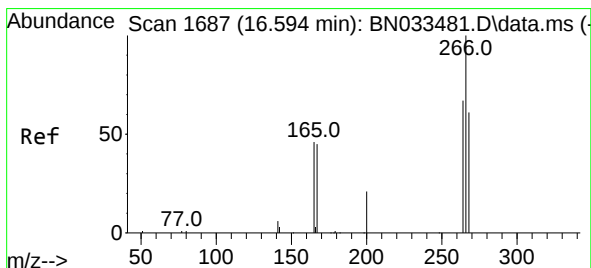
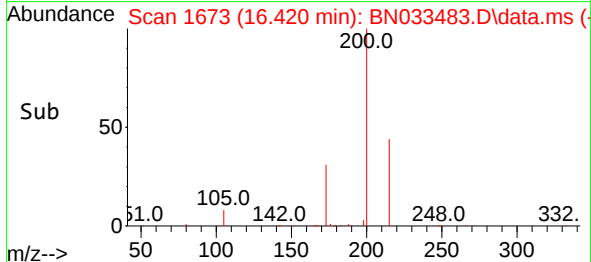
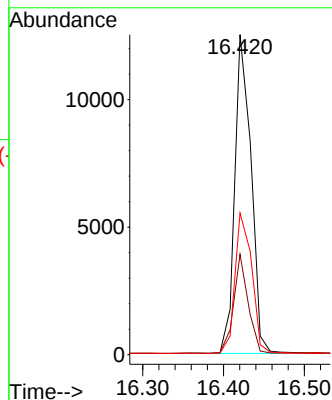
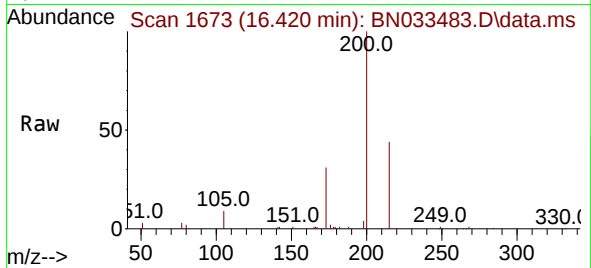




#23
Atrazine
Concen: 1.712 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

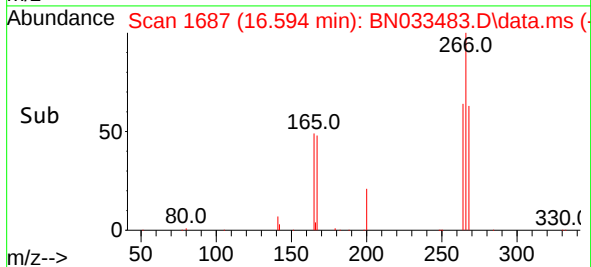
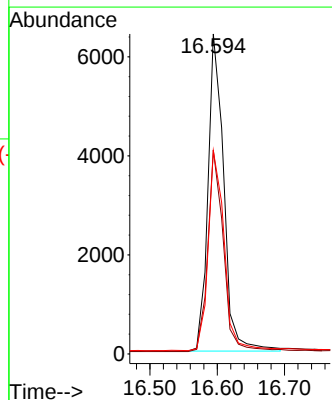
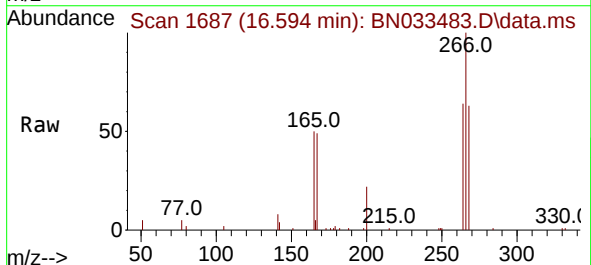
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

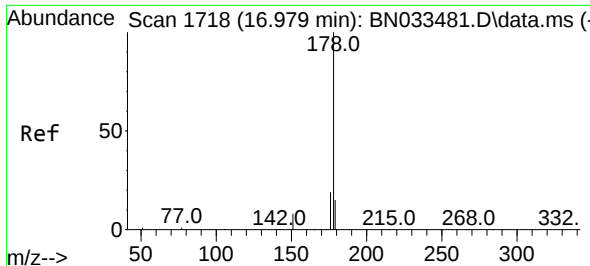
Tgt Ion:200 Resp: 17440
Ion Ratio Lower Upper
200 100
173 31.4 25.3 37.9
215 44.3 36.6 54.8



#24
Pentachlorophenol
Concen: 1.789 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:266 Resp: 10462
Ion Ratio Lower Upper
266 100
264 62.4 51.9 77.9
268 63.9 51.0 76.4

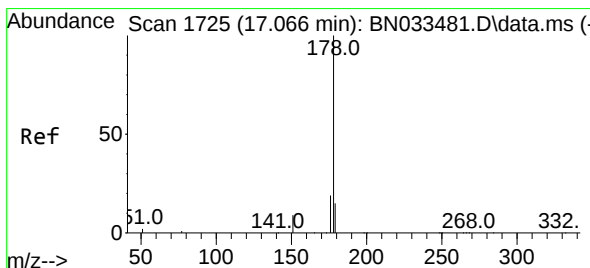
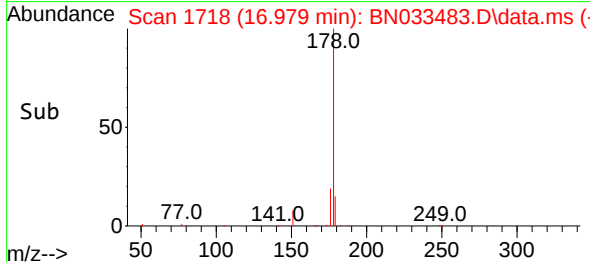
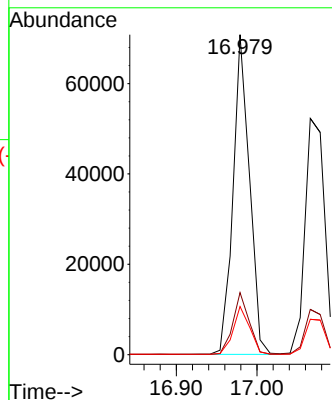
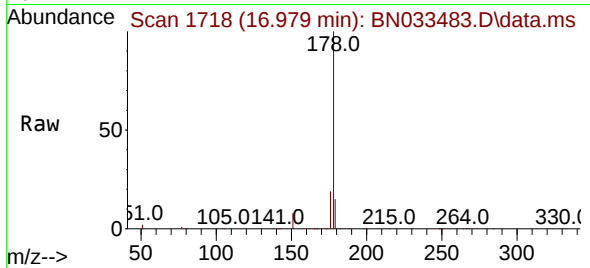




#25
Phenanthrene
Concen: 1.632 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

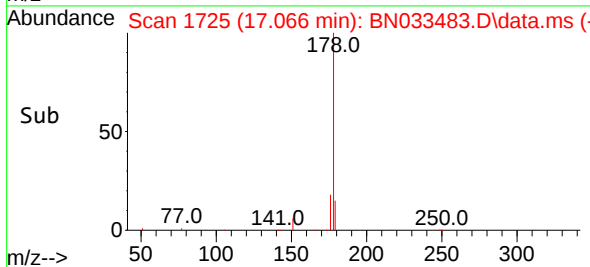
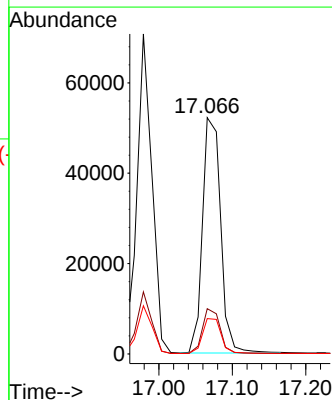
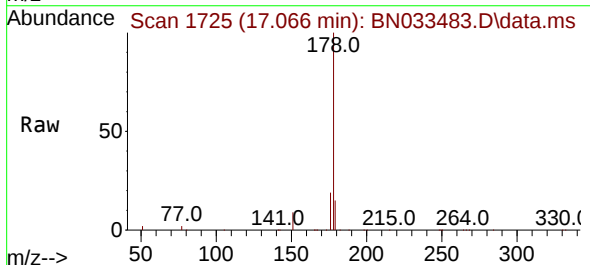
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

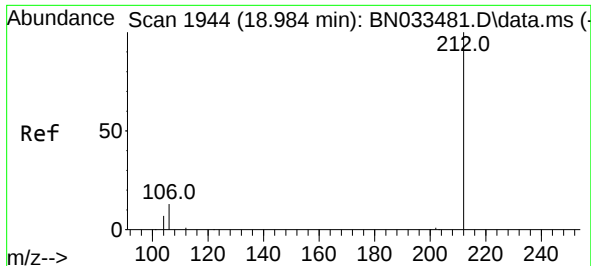
Tgt Ion:178 Resp: 100158
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.1 12.3 18.5



#26
Anthracene
Concen: 1.655 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:178 Resp: 89744
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.4 18.6

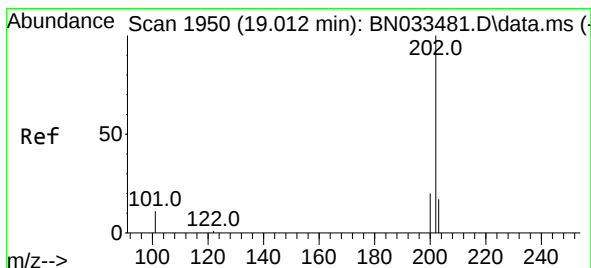
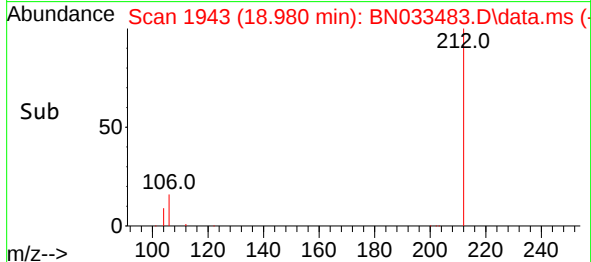
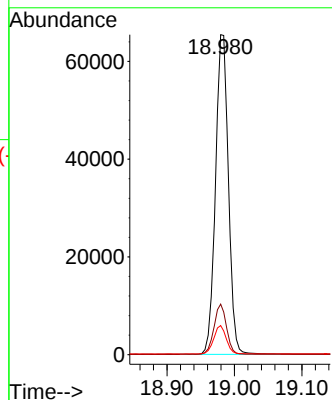
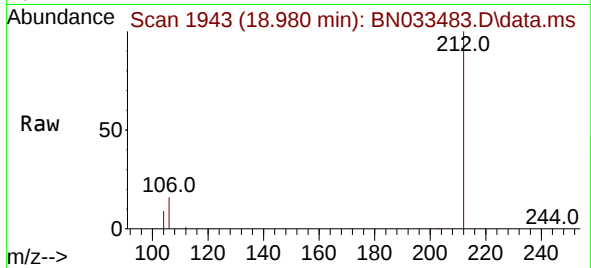




#27
Fluoranthene-d10
Concen: 1.549 ng
RT: 18.980 min Scan# 1944
Delta R.T. -0.005 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

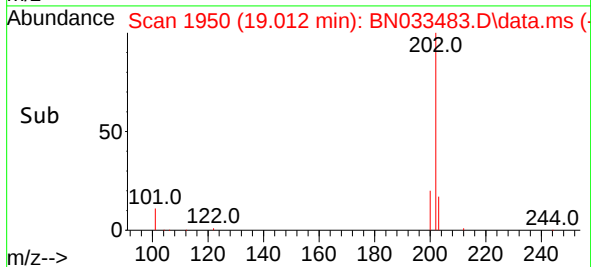
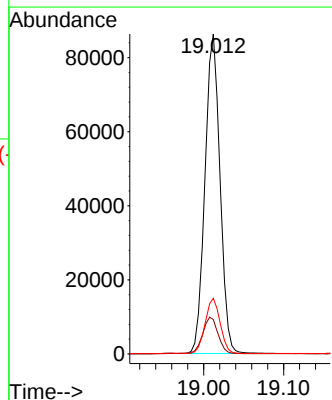
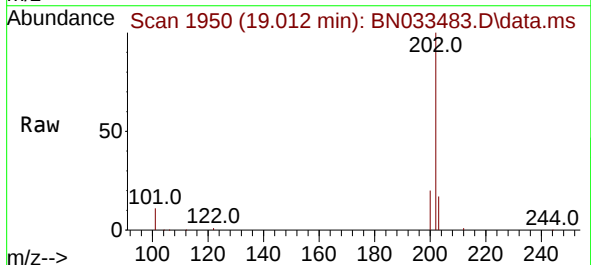
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

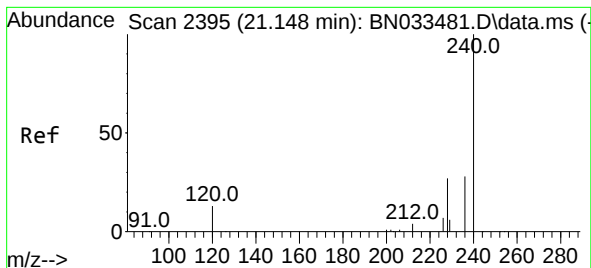
Tgt Ion:212 Resp: 87075
Ion Ratio Lower Upper
212 100
106 15.2 12.3 18.5
104 8.6 7.0 10.4



#28
Fluoranthene
Concen: 1.513 ng
RT: 19.012 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Tgt Ion:202 Resp: 112640
Ion Ratio Lower Upper
202 100
101 11.8 9.5 14.3
203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

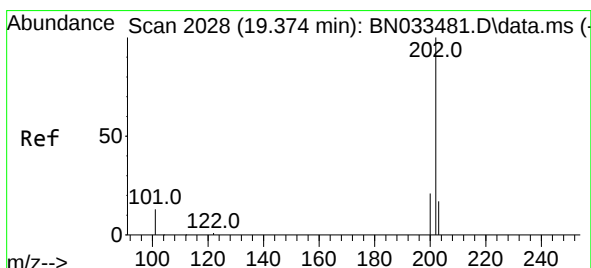
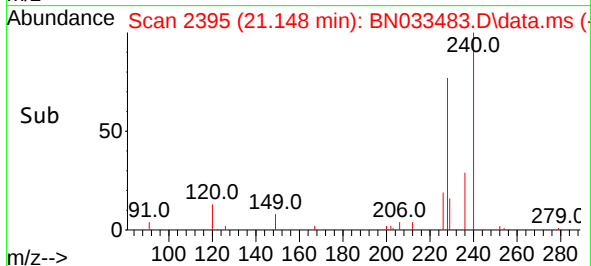
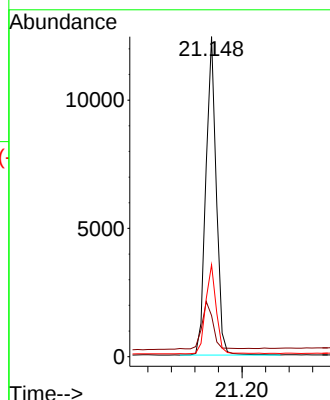
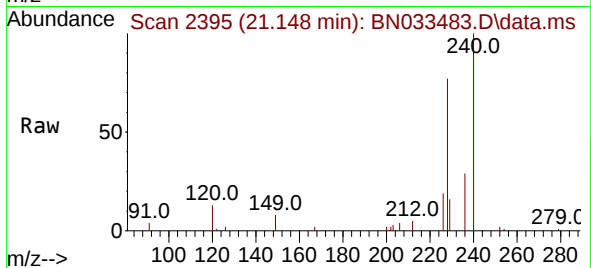
Tgt Ion:240 Resp: 15163

Ion Ratio Lower Upper

240 100

120 12.9 12.4 18.6

236 28.7 23.0 34.6



#30

Pyrene

Concen: 1.842 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

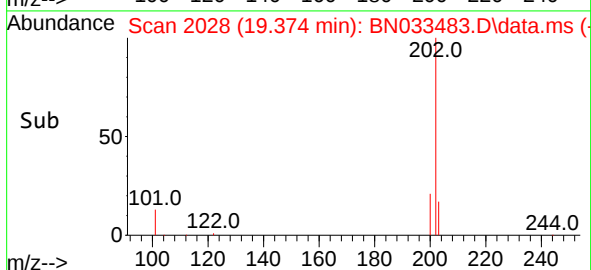
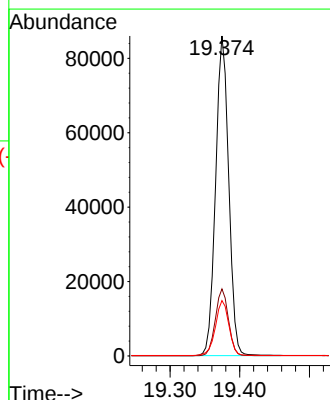
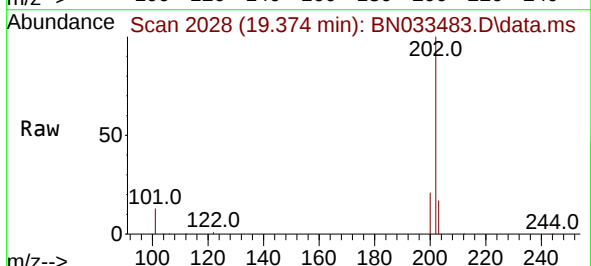
Tgt Ion:202 Resp: 112513

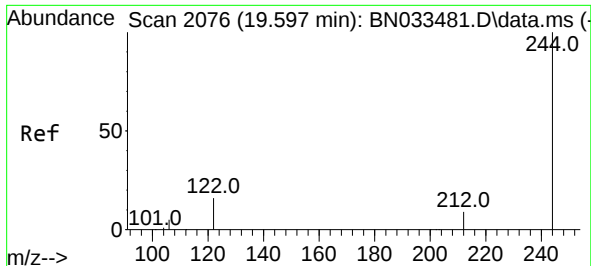
Ion Ratio Lower Upper

202 100

200 20.9 16.6 24.8

203 17.8 14.2 21.4

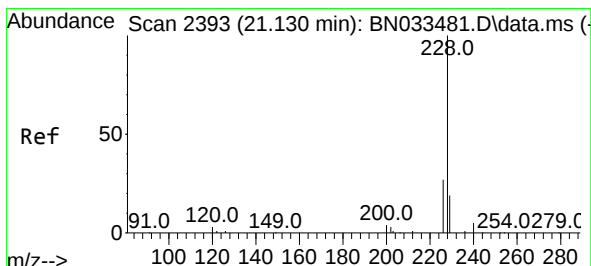
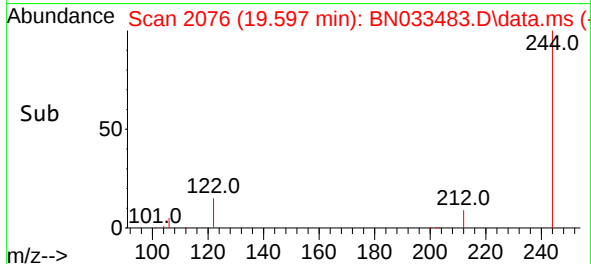
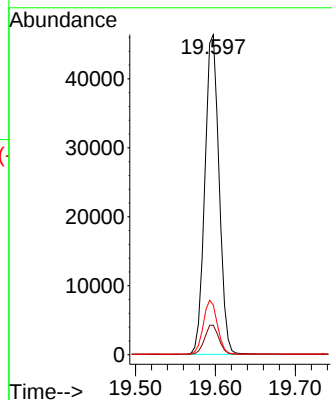
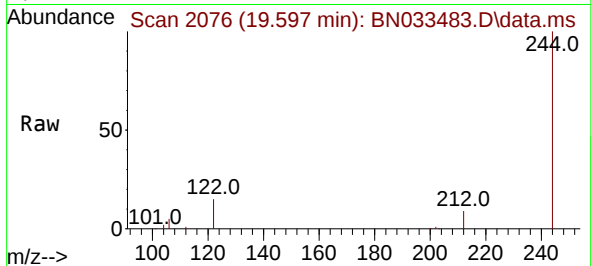




#31
 Terphenyl-d14
 Concen: 1.957 ng
 RT: 19.597 min Scan# 2076
 Delta R.T. -0.000 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

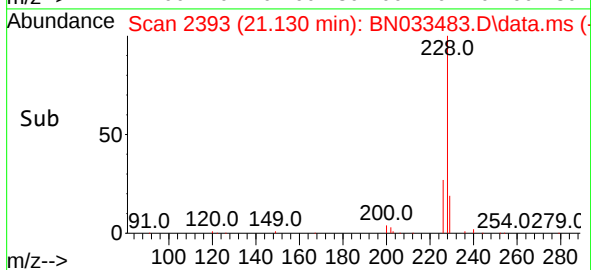
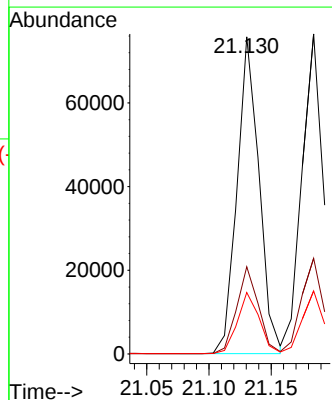
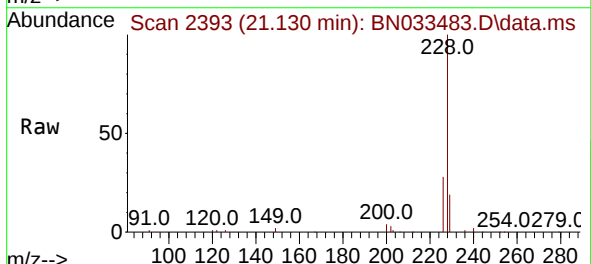
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

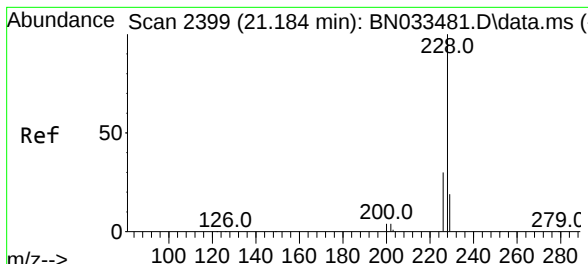
Tgt Ion:244 Resp: 57186
 Ion Ratio Lower Upper
 244 100
 212 9.2 7.8 11.6
 122 15.5 13.3 19.9



#32
 Benzo(a)anthracene
 Concen: 1.649 ng
 RT: 21.130 min Scan# 2393
 Delta R.T. -0.000 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

Tgt Ion:228 Resp: 92764
 Ion Ratio Lower Upper
 228 100
 226 27.5 21.8 32.6
 229 19.4 15.8 23.6

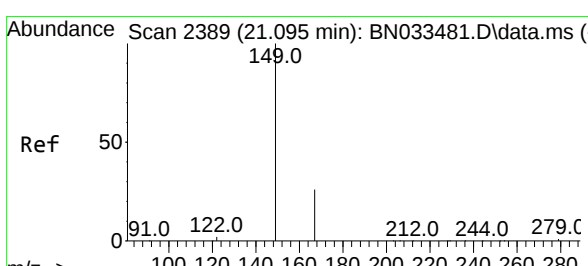
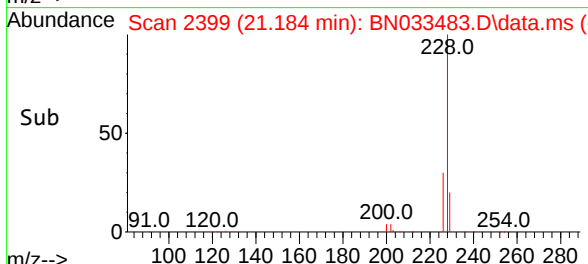
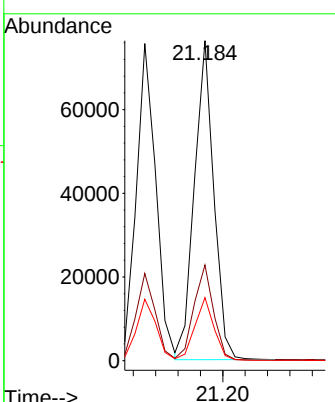
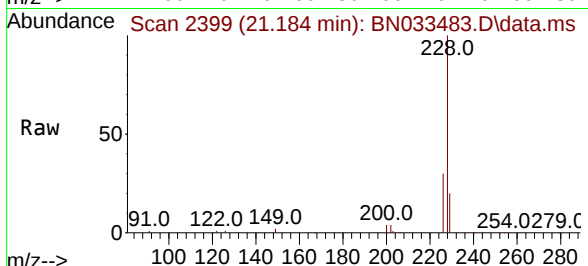




#33
 Chrysene
 Concen: 1.637 ng
 RT: 21.184 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

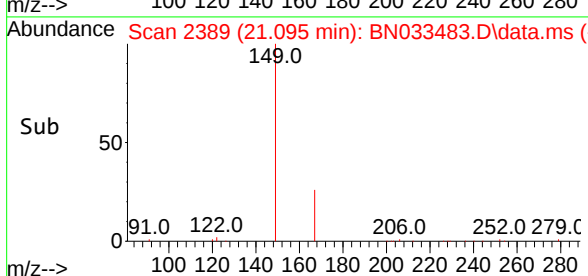
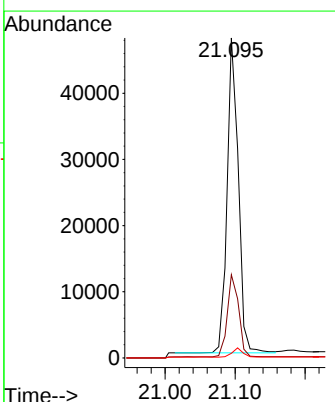
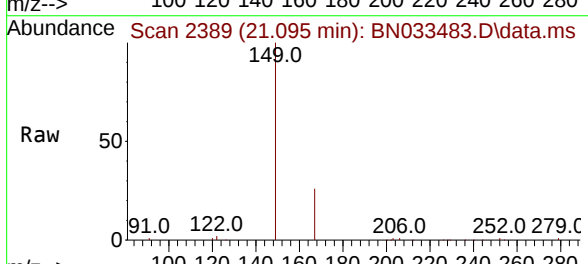
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

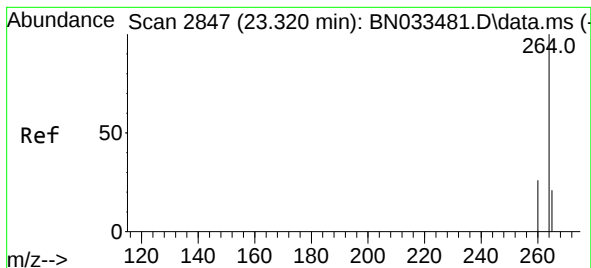
Tgt Ion:	228	Resp:	91851
Ion Ratio	Lower	Upper	
228	100		
226	29.9	23.8	35.8
229	19.7	15.6	23.4



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 1.959 ng
 RT: 21.095 min Scan# 2389
 Delta R.T. -0.000 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

Tgt Ion:	149	Resp:	52726
Ion Ratio	Lower	Upper	
149	100		
167	26.4	21.5	32.3
279	2.7	2.2	3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.320 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

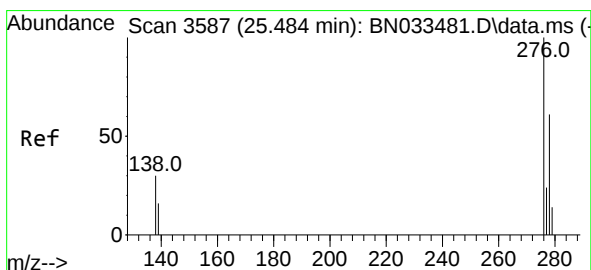
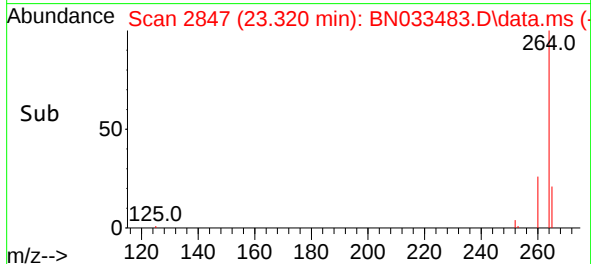
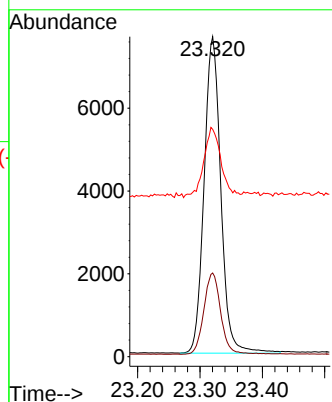
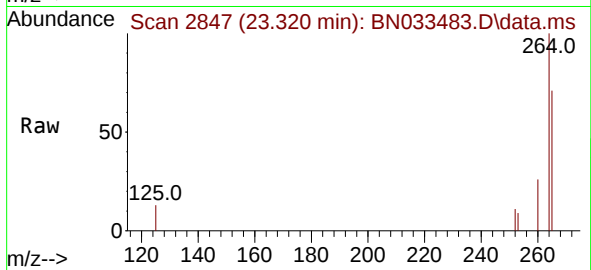
Tgt Ion:264 Resp: 14214

Ion Ratio Lower Upper

264 100

260 26.2 20.8 31.2

265 71.0 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.697 ng

RT: 25.478 min Scan# 3585

Delta R.T. -0.006 min

Lab File: BN033483.D

Acq: 19 Aug 2024 18:41

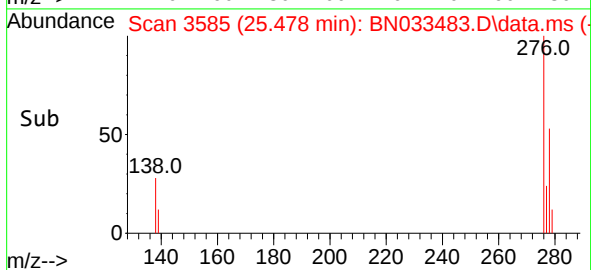
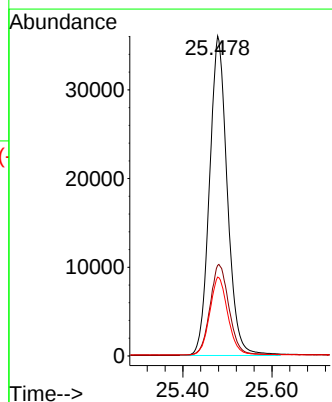
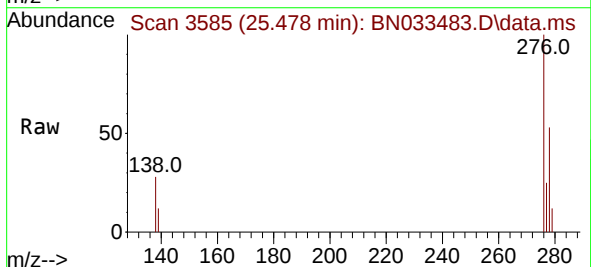
Tgt Ion:276 Resp: 99989

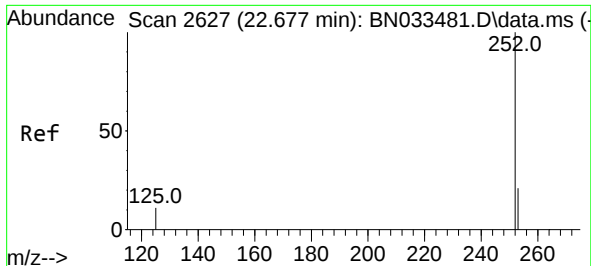
Ion Ratio Lower Upper

276 100

138 30.0 24.4 36.6

277 24.9 19.8 29.6

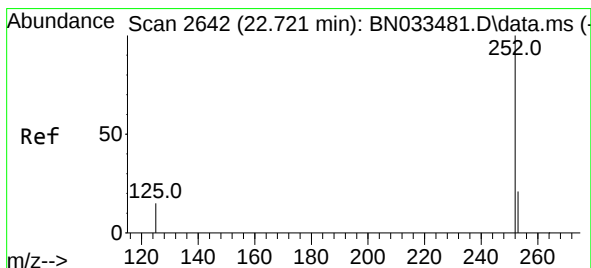
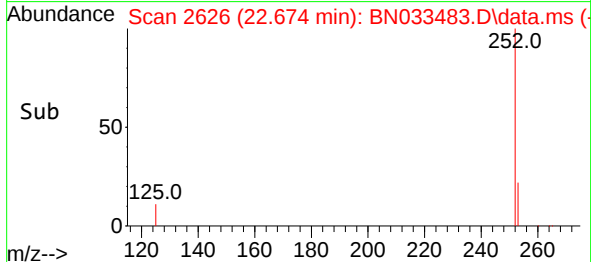
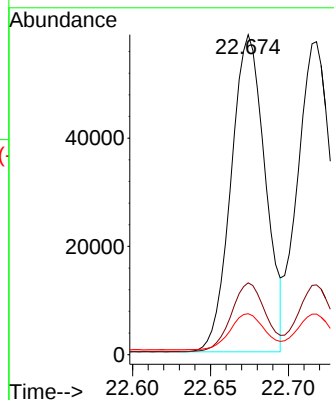
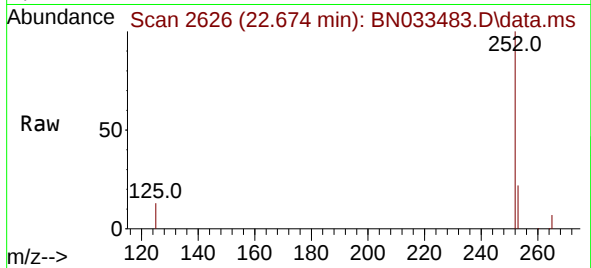




#37
Benzo(b)fluoranthene
Concen: 1.685 ng
RT: 22.674 min Scan# 2626
Delta R.T. -0.003 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

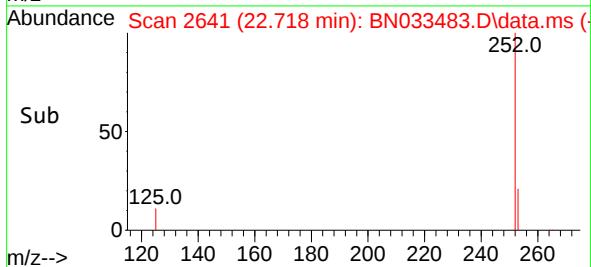
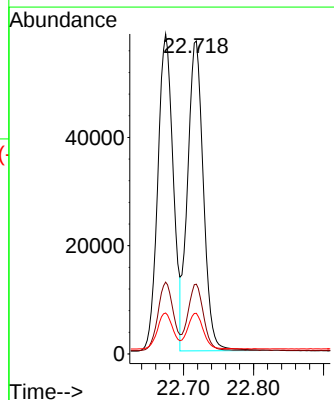
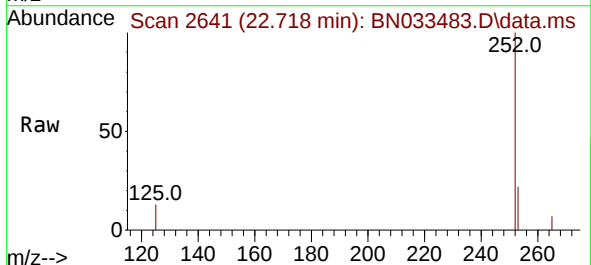
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

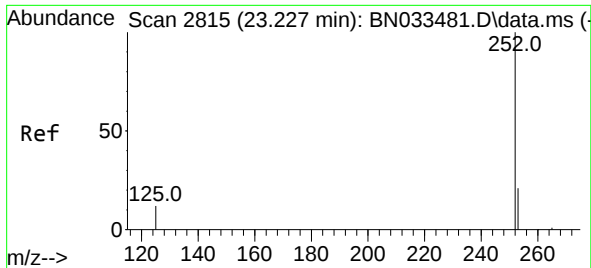
Tgt Ion:252 Resp: 89426
Ion Ratio Lower Upper
252 100
253 22.4 19.8 29.8
125 12.8 13.9 20.9#



#38
Benzo(k)fluoranthene
Concen: 1.666 ng
RT: 22.718 min Scan# 2641
Delta R.T. -0.003 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

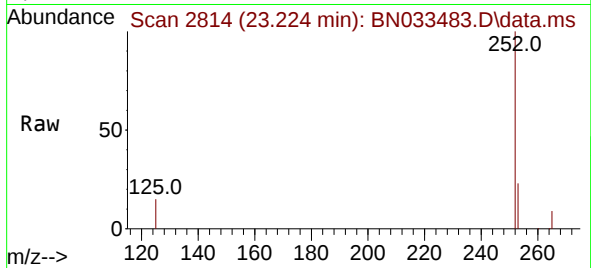
Tgt Ion:252 Resp: 89588
Ion Ratio Lower Upper
252 100
253 22.3 19.8 29.8
125 13.0 15.8 23.8#



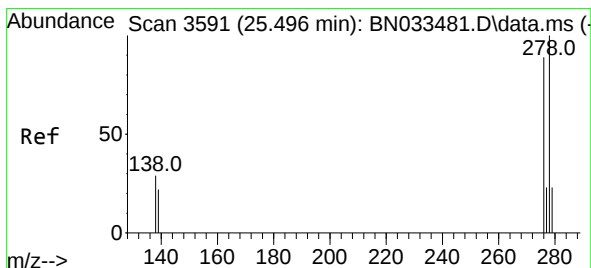
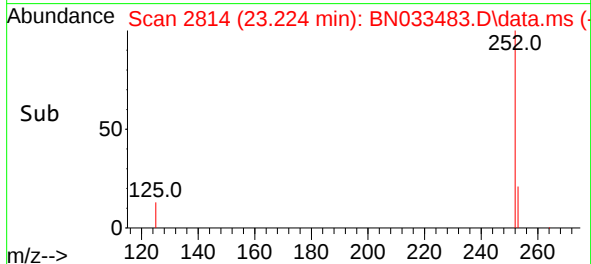
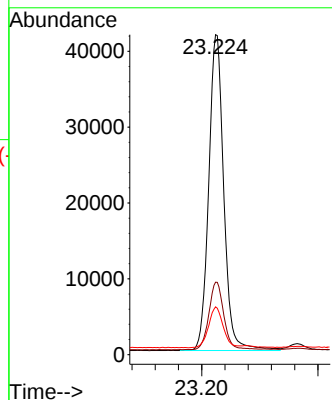


#39
Benzo(a)pyrene
Concen: 1.673 ng
RT: 23.224 min Scan# 2815
Delta R.T. -0.003 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

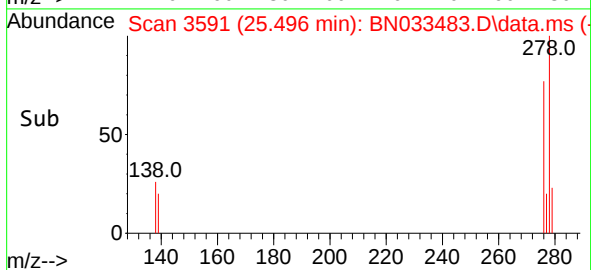
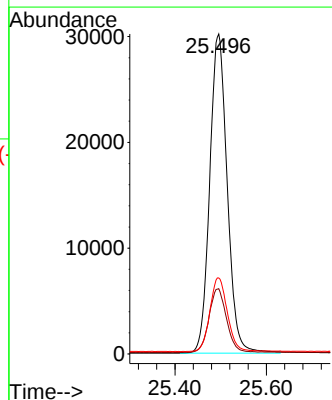
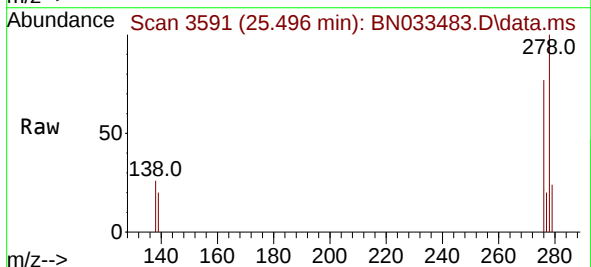


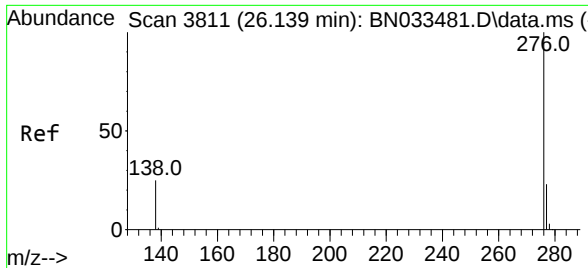
Tgt Ion:252 Resp: 74888
Ion Ratio Lower Upper
252 100
253 22.7 21.5 32.3
125 14.9 17.0 25.4#



#40
Dibenzo(a,h)anthracene
Concen: 1.720 ng
RT: 25.496 min Scan# 3591
Delta R.T. -0.000 min
Lab File: BN033483.D
Acq: 19 Aug 2024 18:41

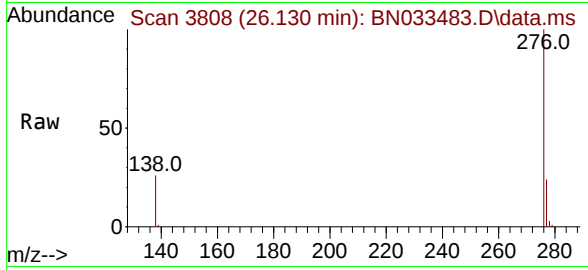
Tgt Ion:278 Resp: 80194
Ion Ratio Lower Upper
278 100
139 20.4 19.1 28.7
279 23.8 21.0 31.4



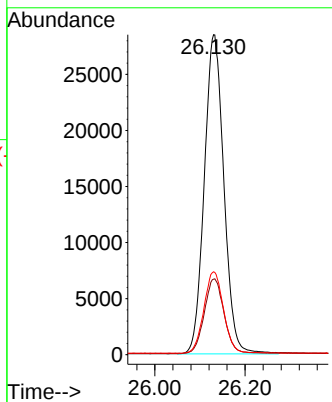
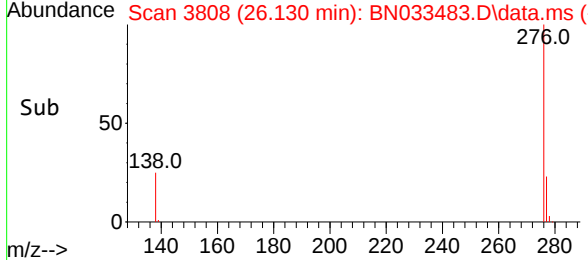


#41
 Benzo(g,h,i)perylene
 Concen: 1.670 ng
 RT: 26.130 min Scan# 3811
 Delta R.T. -0.009 min
 Lab File: BN033483.D
 Acq: 19 Aug 2024 18:41

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6



Tgt Ion:	276	Resp:	85629
Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.7	29.5
138	25.9	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033484.D
 Acq On : 19 Aug 2024 19:17
 Operator : MA/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Aug 19 23:23:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

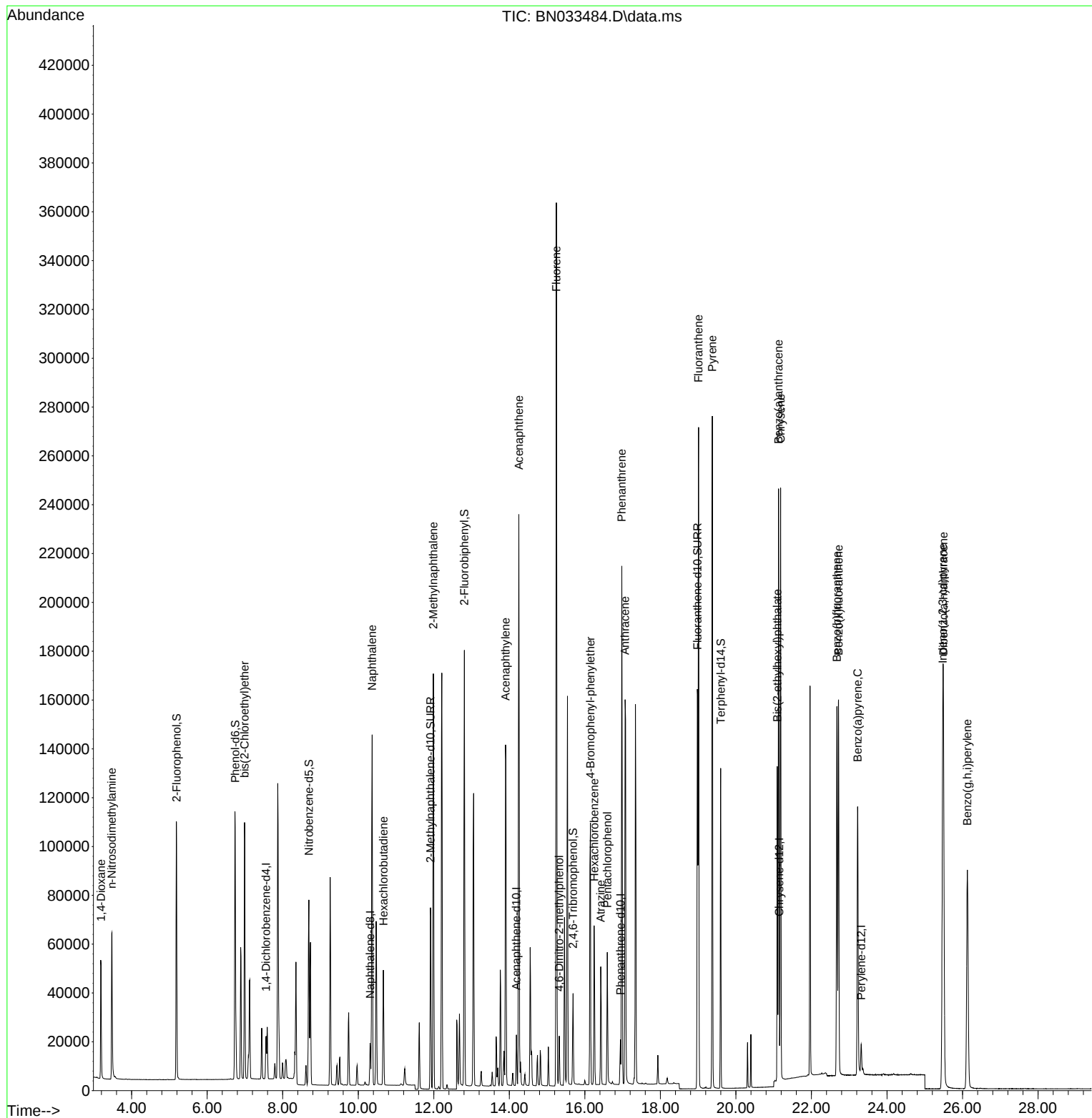
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	8220	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	21477	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	11204	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	22761	0.400	ng	0.00
29) Chrysene-d12	21.148	240	16458	0.400	ng	0.00
35) Perylene-d12	23.317	264	15102	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	78672	3.403	ng	0.00
5) Phenol-d6	6.743	99	96240	3.185	ng	0.00
8) Nitrobenzene-d5	8.691	82	55376	3.404	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	97319	3.015	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	19950	3.487	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	144228	3.180	ng	0.00
27) Fluoranthene-d10	18.984	212	176172	2.953	ng	0.00
31) Terphenyl-d14	19.597	244	117216	3.696	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.190	88	29725	3.360	ng	100
3) n-Nitrosodimethylamine	3.472	42	34268	2.990	ng	97
6) bis(2-Chloroethyl)ether	6.989	93	70198	2.980	ng	100
9) Naphthalene	10.368	128	179011	3.071	ng	99
10) Hexachlorobutadiene	10.667	225	35517	3.178	ng	# 100
12) 2-Methylnaphthalene	11.990	142	116457	2.986	ng	99
16) Acenaphthylene	13.900	152	164622	3.197	ng	100
17) Acenaphthene	14.253	154	111942	3.160	ng	98
18) Fluorene	15.247	166	140489	3.030	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	13180	4.642	ng	# 67
21) 4-Bromophenyl-phenylether	16.147	248	44804	3.300	ng	99
22) Hexachlorobenzene	16.247	284	48402	3.192	ng	99
23) Atrazine	16.420	200	36125	3.342	ng	98
24) Pentachlorophenol	16.594	266	23233	3.743	ng	98
25) Phenanthrene	16.979	178	202724	3.113	ng	100
26) Anthracene	17.066	178	188458	3.276	ng	99
28) Fluoranthene	19.012	202	230499	2.917	ng	100
30) Pyrene	19.374	202	230574	3.478	ng	100
32) Benzo(a)anthracene	21.130	228	187742	3.074	ng	100
33) Chrysene	21.184	228	184734	3.033	ng	100
34) Bis(2-ethylhexyl)phtha...	21.095	149	111315	3.811	ng	100
36) Indeno(1,2,3-cd)pyrene	25.478	276	200706	3.206	ng	99
37) Benzo(b)fluoranthene	22.674	252	178769	3.171	ng	# 92
38) Benzo(k)fluoranthene	22.718	252	180219	3.154	ng	# 90
39) Benzo(a)pyrene	23.224	252	151103	3.178	ng	# 88
40) Dibenzo(a,h)anthracene	25.496	278	160621	3.242	ng	94
41) Benzo(g,h,i)perylene	26.127	276	170664	3.133	ng	98

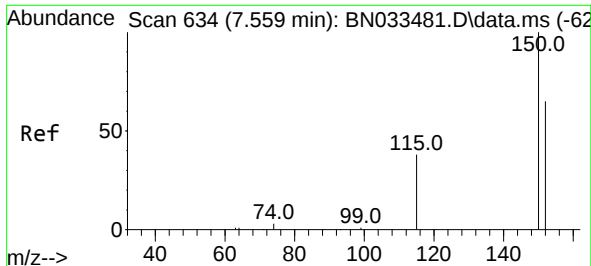
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033484.D
Acq On : 19 Aug 2024 19:17
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 19 23:23:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

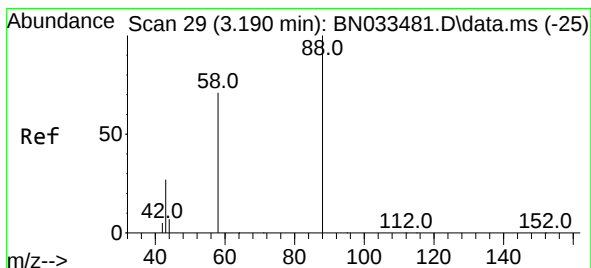
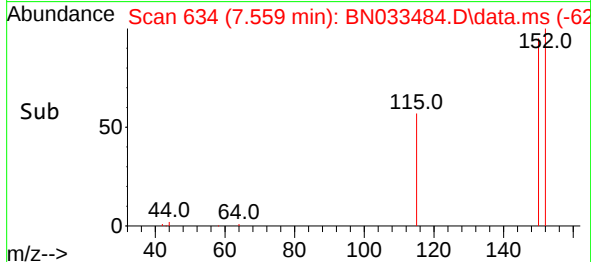
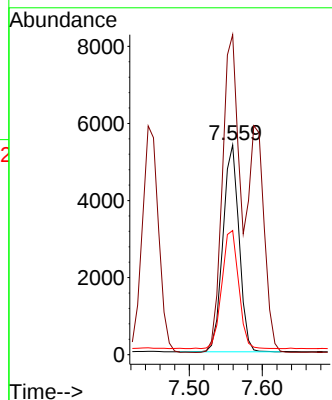
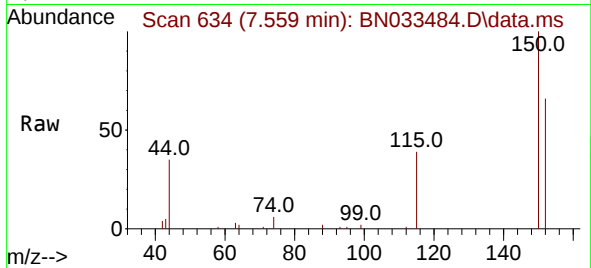




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.559 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

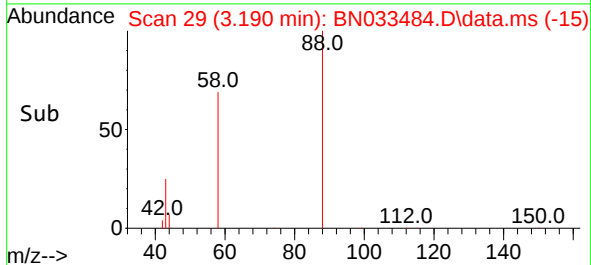
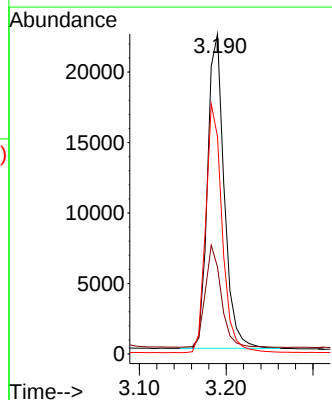
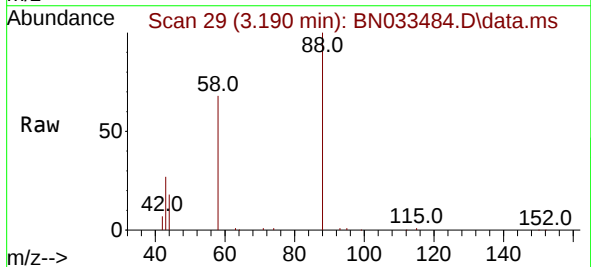
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

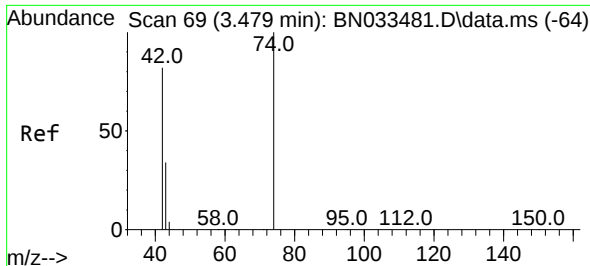
Tgt Ion:152 Resp: 8220
 Ion Ratio Lower Upper
 152 100
 150 152.6 122.2 183.2
 115 59.2 47.2 70.8



#2
 1,4-Dioxane
 Concen: 3.360 ng
 RT: 3.190 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

Tgt Ion: 88 Resp: 29725
 Ion Ratio Lower Upper
 88 100
 43 31.2 25.0 37.4
 58 78.5 62.5 93.7

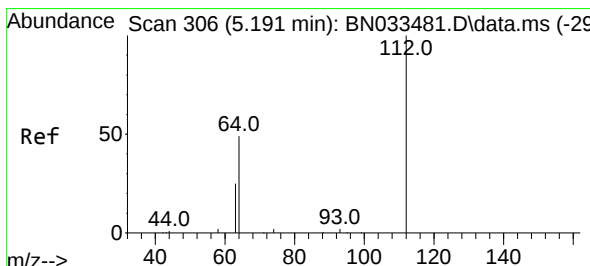
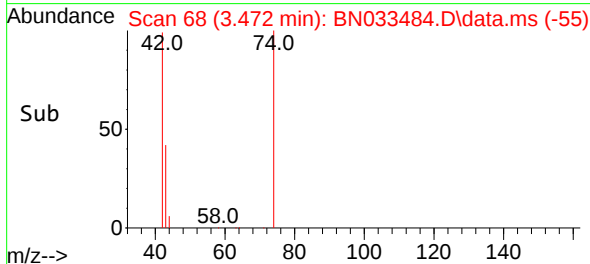
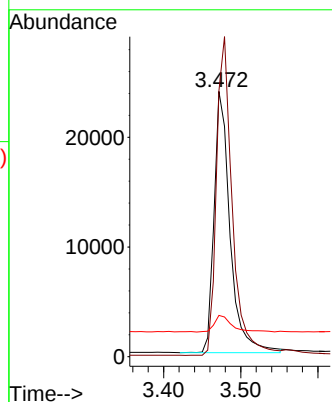
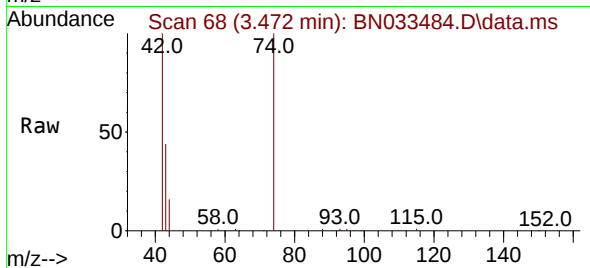




#3
n-Nitrosodimethylamine
Concen: 2.990 ng
RT: 3.472 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

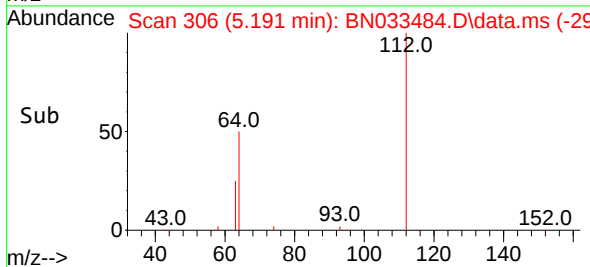
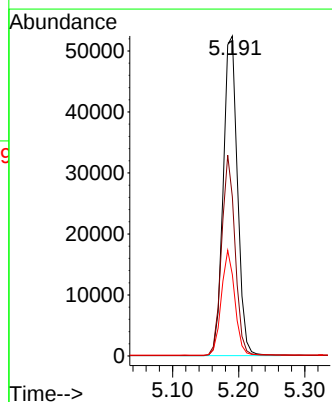
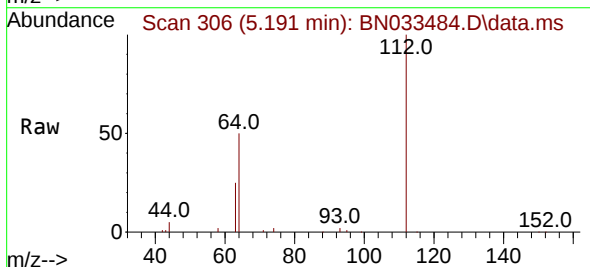
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

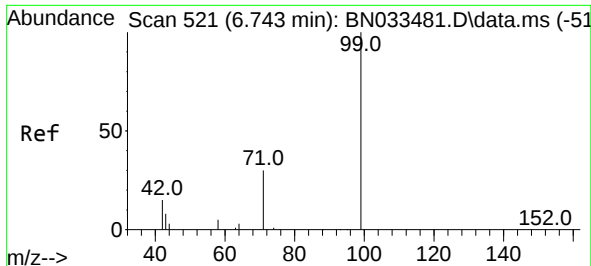
Tgt Ion: 42 Resp: 34268
Ion Ratio Lower Upper
42 100
74 121.2 100.2 150.2
44 7.0 5.3 7.9



#4
2-Fluorophenol
Concen: 3.403 ng
RT: 5.191 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion: 112 Resp: 78672
Ion Ratio Lower Upper
112 100
64 58.9 47.1 70.7
63 30.8 24.9 37.3

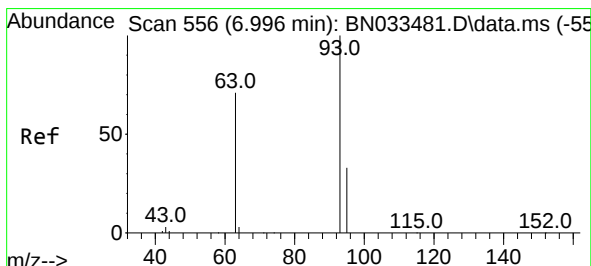
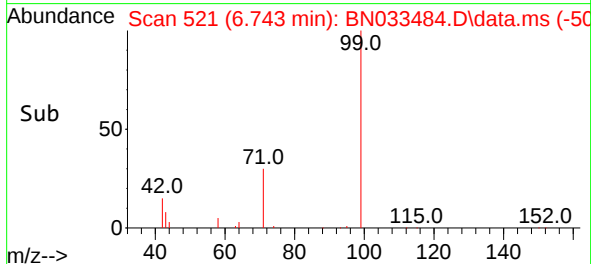
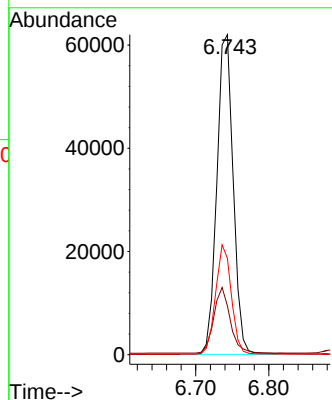
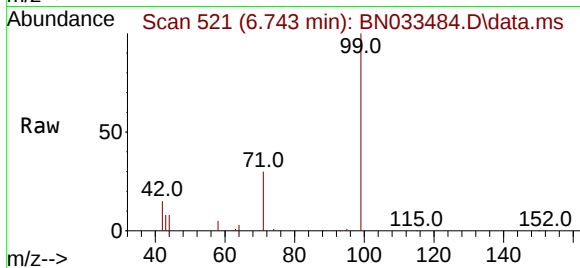




#5
Phenol-d6
Concen: 3.185 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

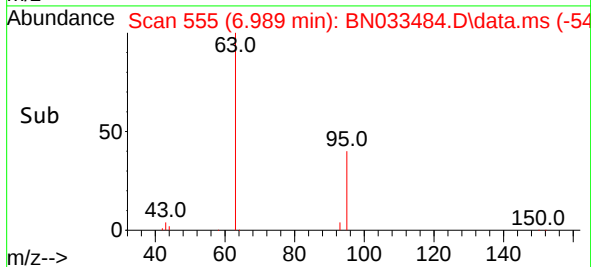
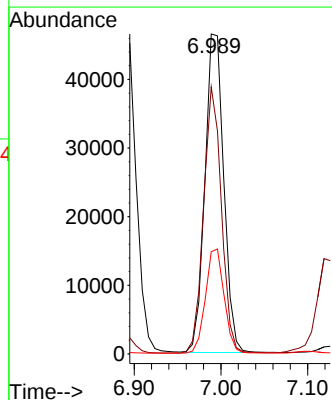
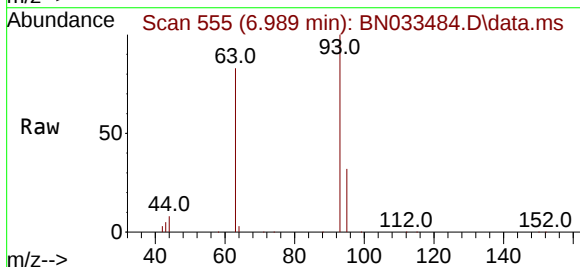
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

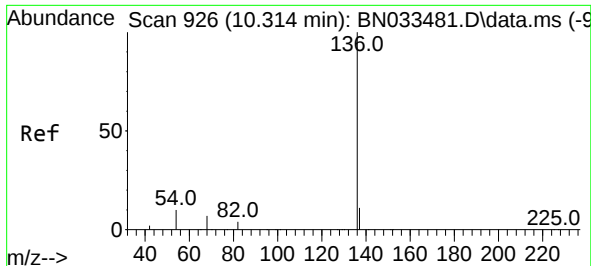
Tgt Ion: 99 Resp: 96240
Ion Ratio Lower Upper
99 100
42 20.5 16.6 24.8
71 33.1 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 2.980 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion: 93 Resp: 70198
Ion Ratio Lower Upper
93 100
63 78.9 63.0 94.4
95 32.5 26.0 39.0

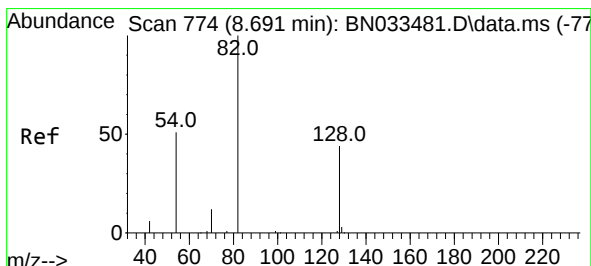
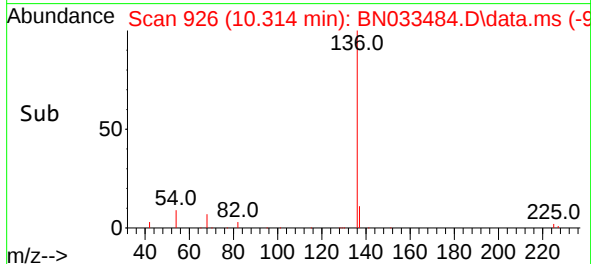
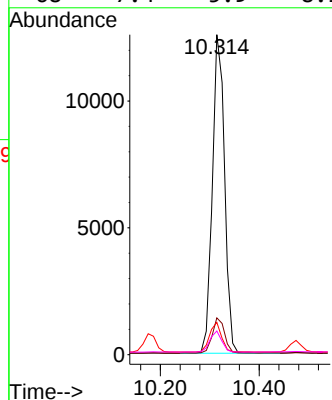
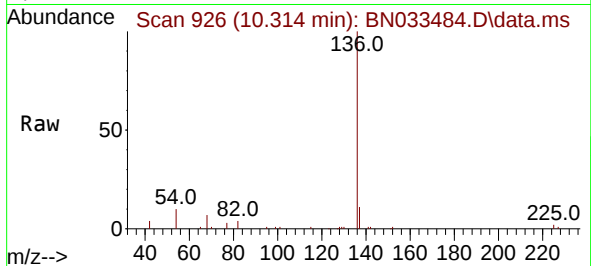




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

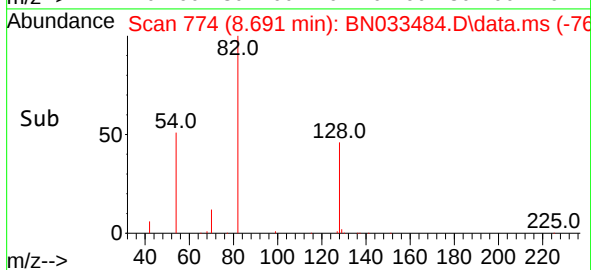
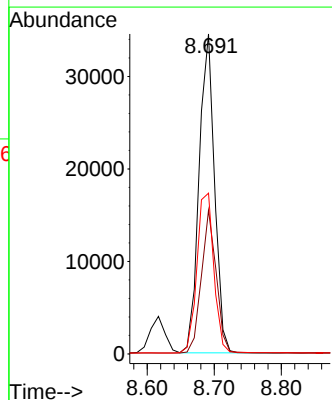
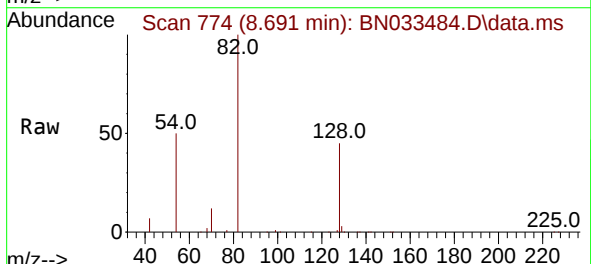
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

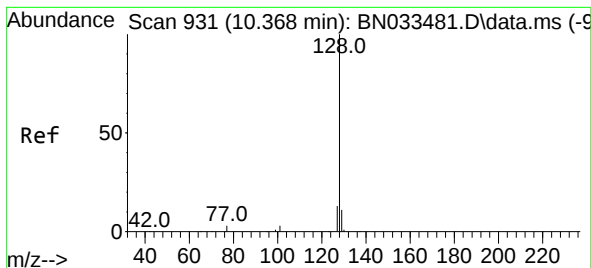
Tgt Ion:	136	Resp:	21477
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.0	13.6
54	10.1	8.3	12.5
68	7.4	5.9	8.9



#8
Nitrobenzene-d5
Concen: 3.404 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:	82	Resp:	55376
Ion Ratio	Lower	Upper	
82	100		
128	44.9	36.0	54.0
54	50.3	42.0	63.0





#9

Naphthalene

Concen: 3.071 ng

RT: 10.368 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

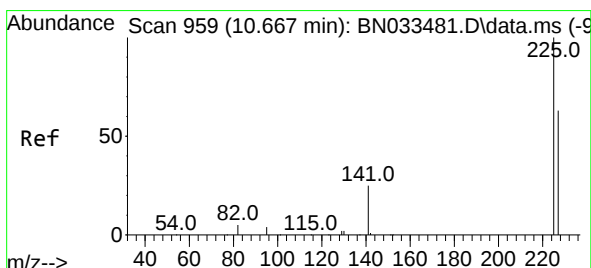
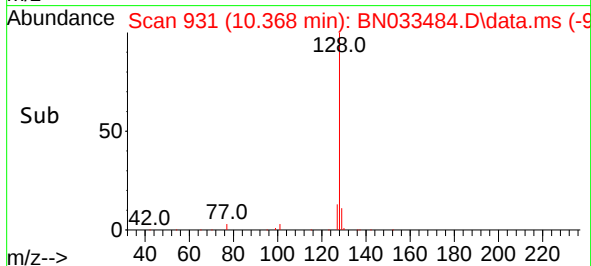
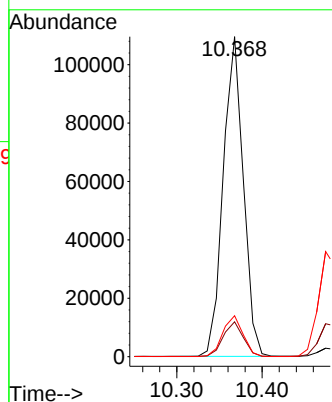
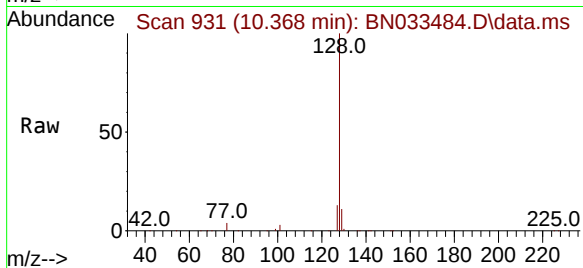
Tgt Ion:128 Resp: 179011

Ion Ratio Lower Upper

128 100

129 10.9 9.1 13.7

127 12.8 10.7 16.1



#10

Hexachlorobutadiene

Concen: 3.178 ng

RT: 10.667 min Scan# 959

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

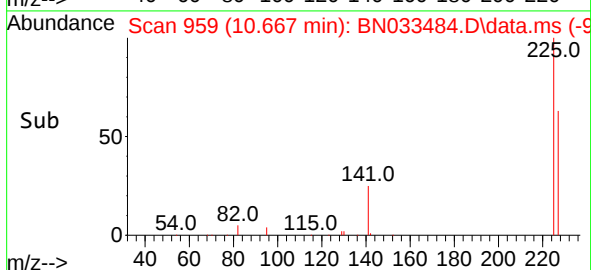
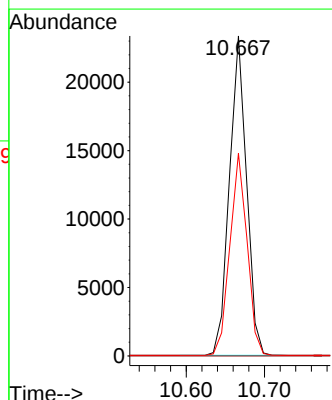
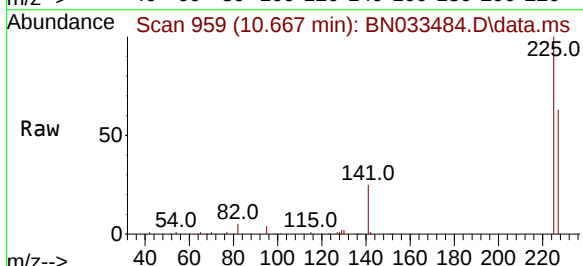
Tgt Ion:225 Resp: 35517

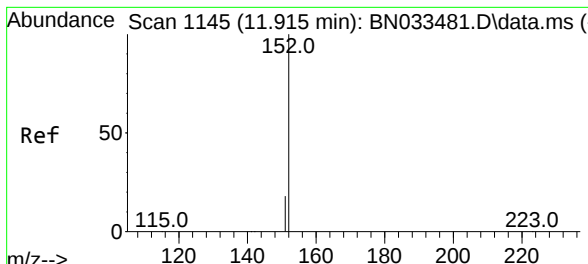
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 51.2 76.8



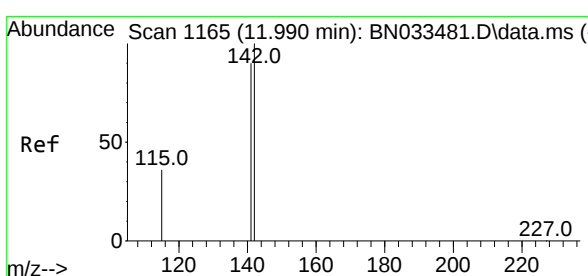
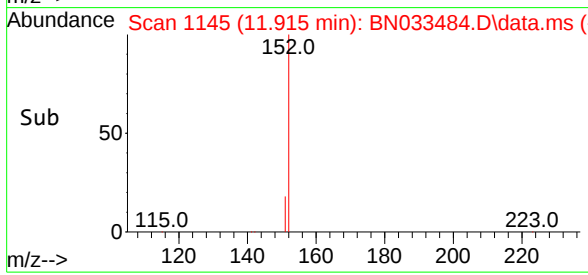
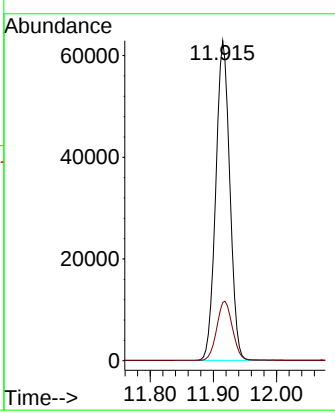
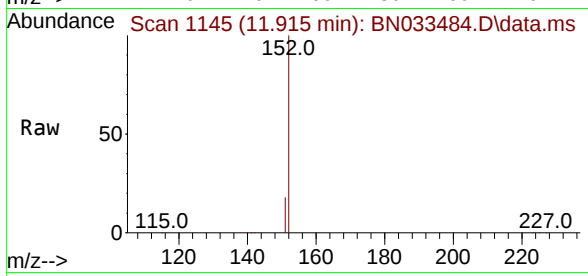


#11
 2-Methylnaphthalene-d10
 Concen: 3.015 ng
 RT: 11.915 min Scan# 1145
 Delta R.T. -0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion:152 Resp: 97319

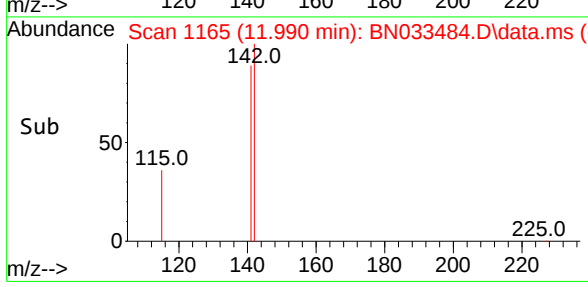
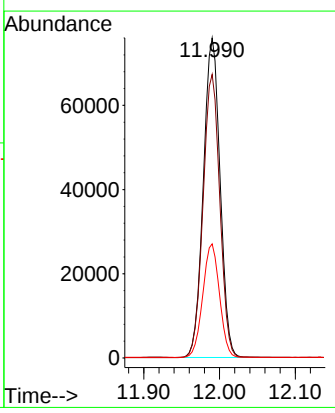
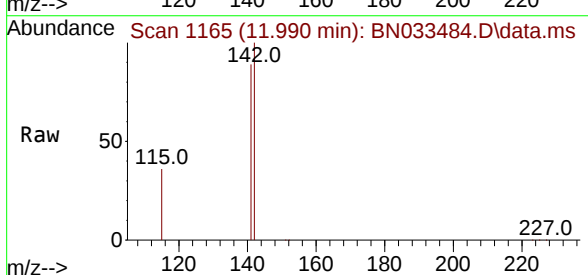
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

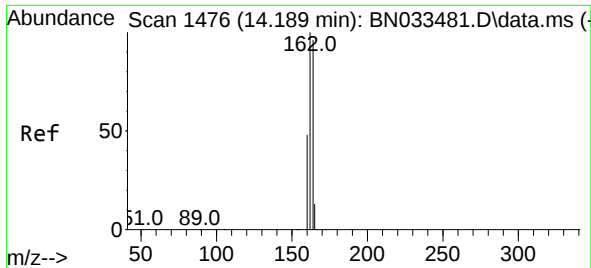


#12
 2-Methylnaphthalene
 Concen: 2.986 ng
 RT: 11.990 min Scan# 1165
 Delta R.T. -0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

Tgt Ion:142 Resp: 116457

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.7	107.5
115	35.7	29.4	44.2

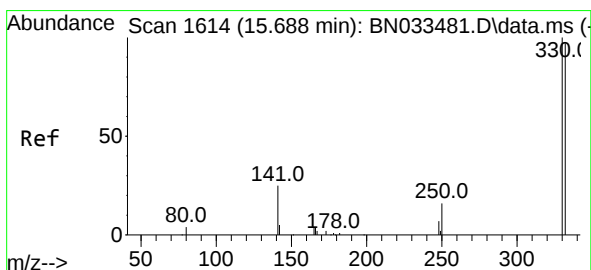
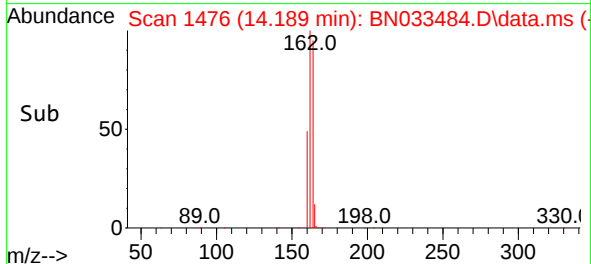
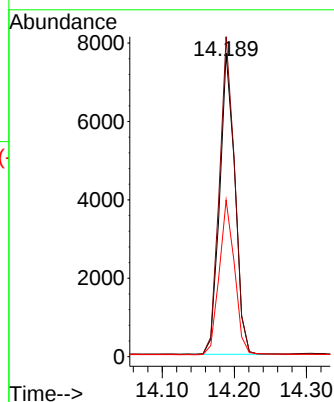
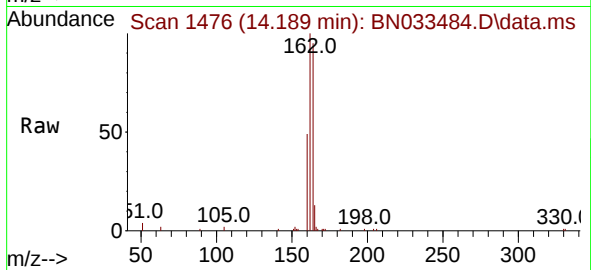




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

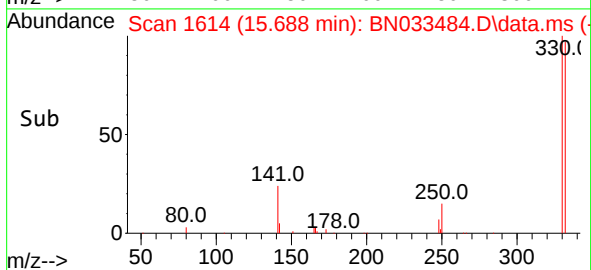
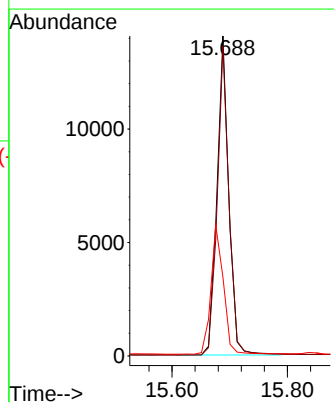
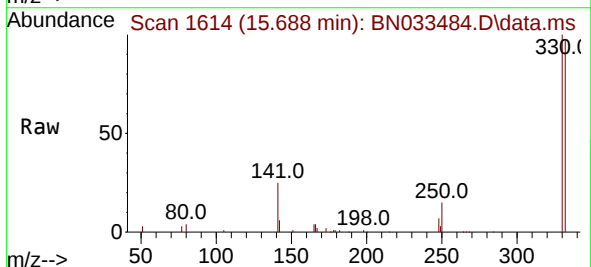
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

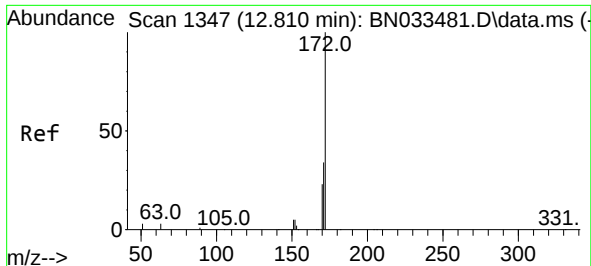
Tgt Ion:164 Resp: 11204
Ion Ratio Lower Upper
164 100
162 105.4 83.5 125.3
160 51.6 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 3.487 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:330 Resp: 19950
Ion Ratio Lower Upper
330 100
332 96.0 77.5 116.3
141 42.5 33.9 50.9

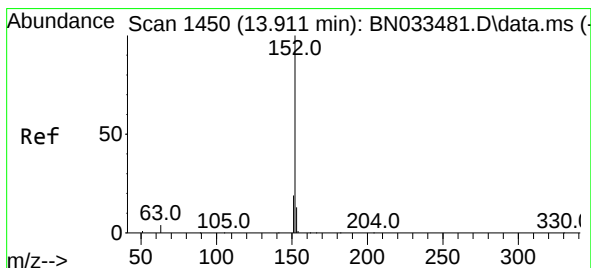
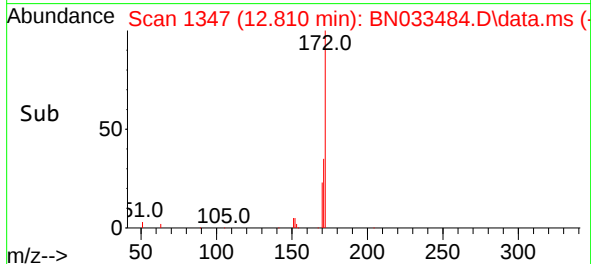
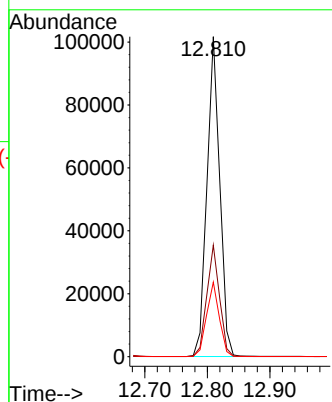
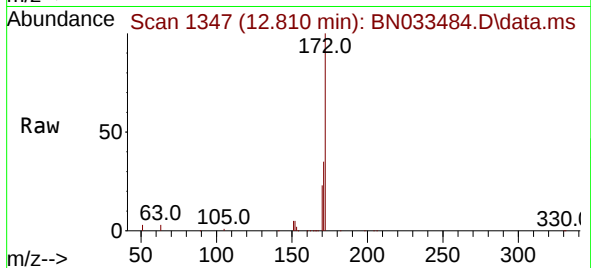




#15
2-Fluorobiphenyl
Concen: 3.180 ng
RT: 12.810 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

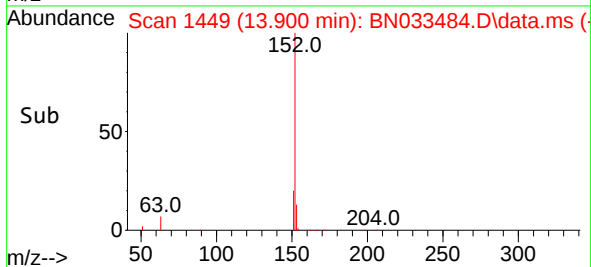
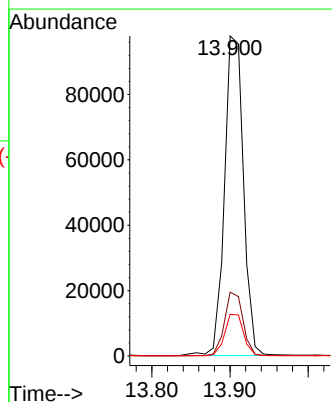
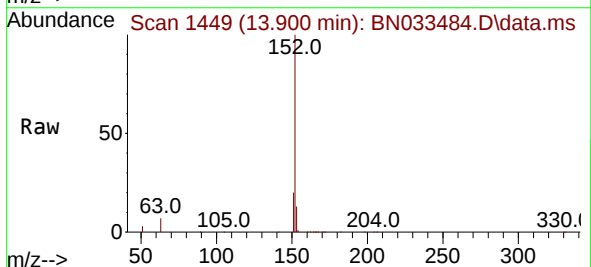
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

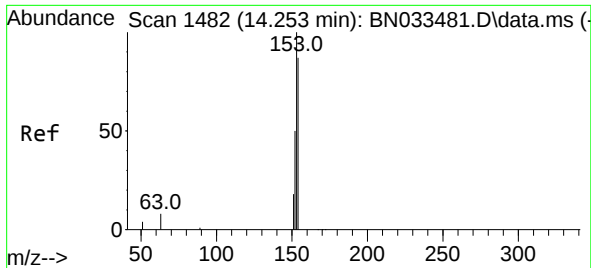
Tgt Ion:172 Resp: 144228
Ion Ratio Lower Upper
172 100
171 34.9 27.7 41.5
170 23.3 18.3 27.5



#16
Acenaphthylene
Concen: 3.197 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:152 Resp: 164622
Ion Ratio Lower Upper
152 100
151 19.4 15.7 23.5
153 13.0 10.3 15.5

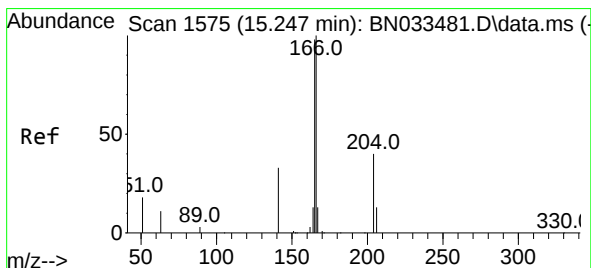
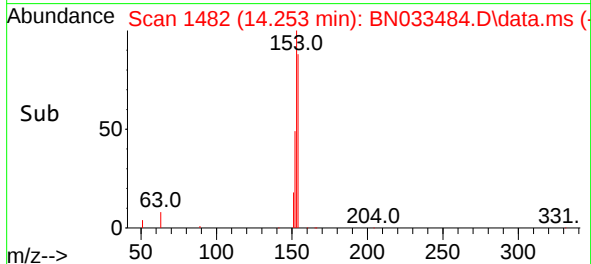
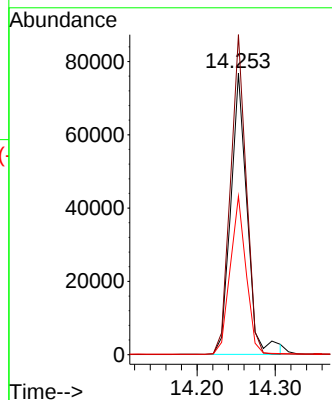
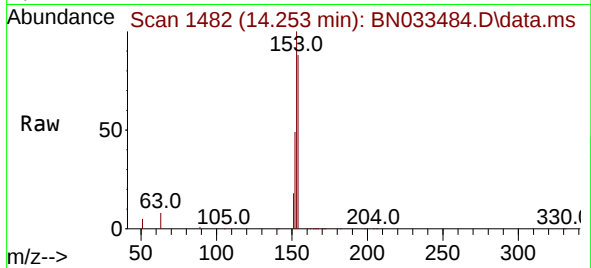




#17
Acenaphthene
Concen: 3.160 ng
RT: 14.253 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

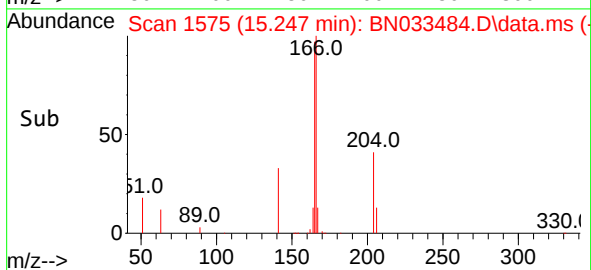
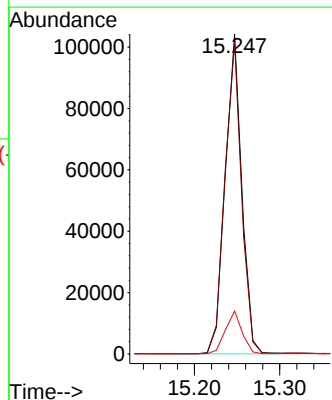
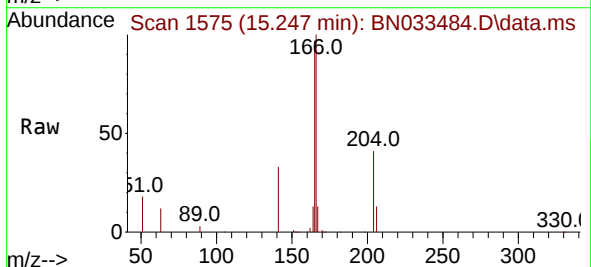
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

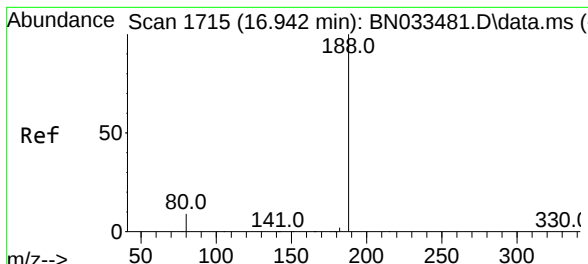
Tgt Ion:154 Resp: 111942
Ion Ratio Lower Upper
154 100
153 108.9 89.0 133.6
152 54.3 45.2 67.8



#18
Fluorene
Concen: 3.030 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:166 Resp: 140489
Ion Ratio Lower Upper
166 100
165 98.0 78.2 117.4
167 13.4 10.6 16.0

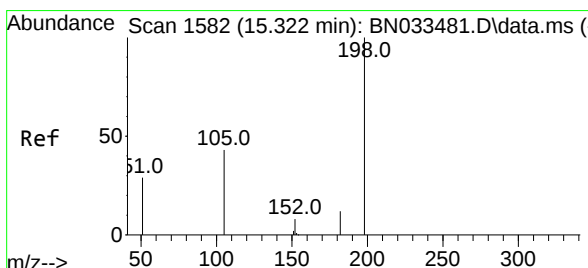
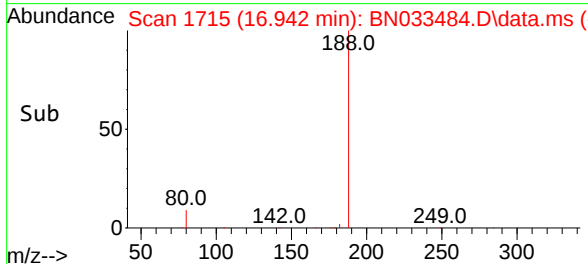
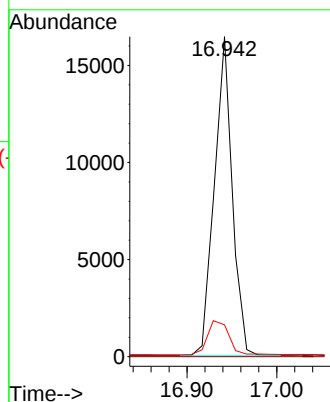
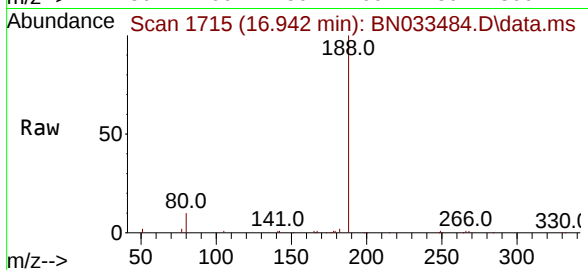




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

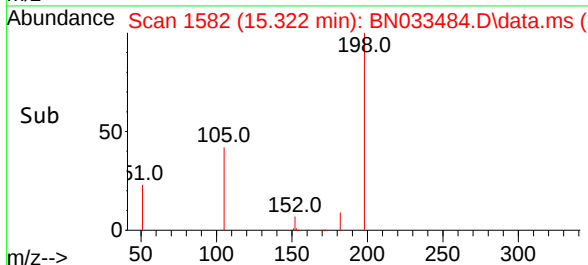
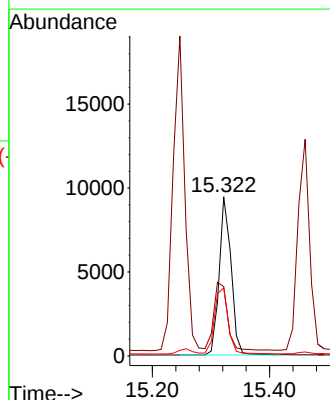
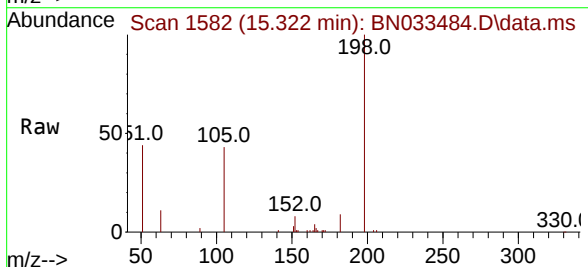
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

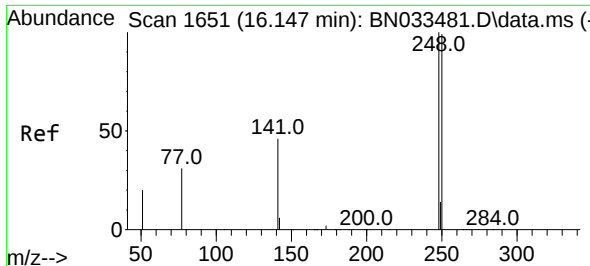
Tgt Ion:188 Resp: 22761
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.0 7.8 11.8



#20
4,6-Dinitro-2-methylphenol
Concen: 4.642 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:198 Resp: 13180
Ion Ratio Lower Upper
198 100
51 43.5 65.1 97.7#
105 42.8 44.8 67.2#

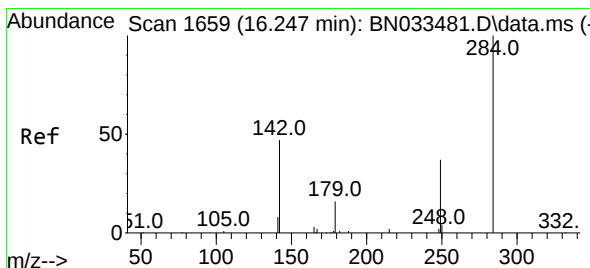
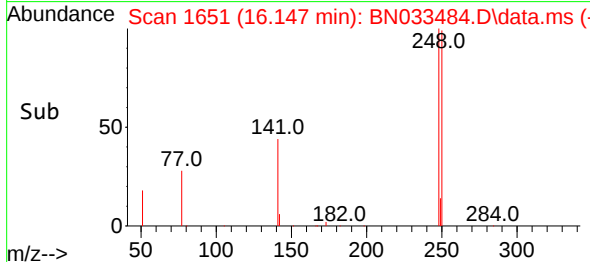
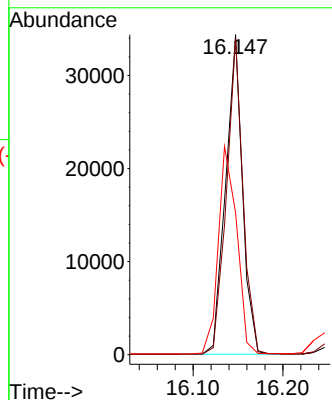
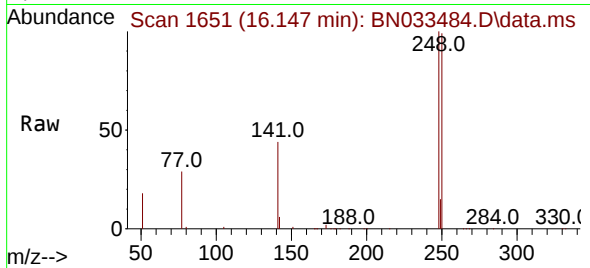




#21
4-Bromophenyl-phenylether
Concen: 3.300 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

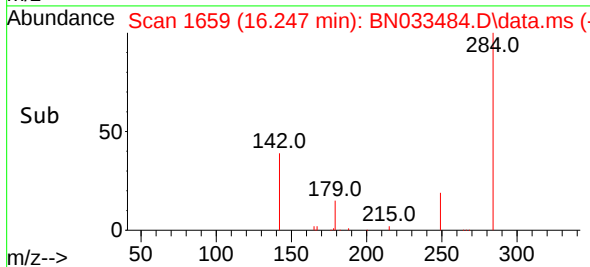
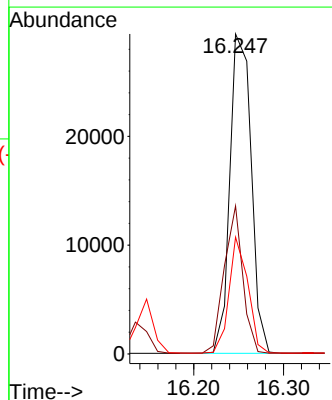
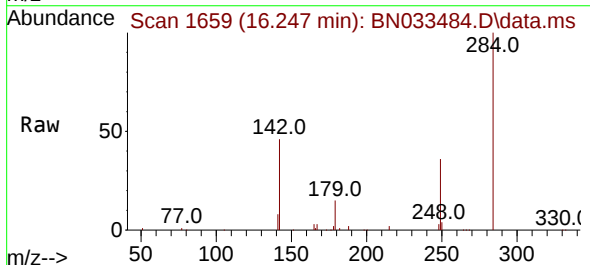
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

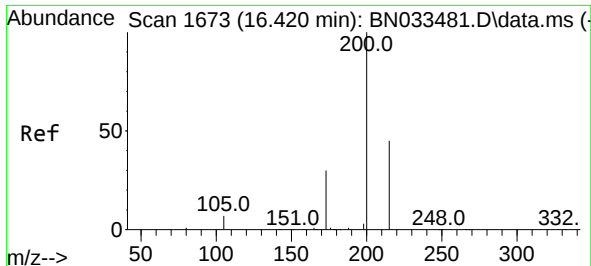
Tgt Ion:248 Resp: 44804
Ion Ratio Lower Upper
248 100
250 99.0 79.2 118.8
141 44.4 37.9 56.9



#22
Hexachlorobenzene
Concen: 3.192 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:284 Resp: 48402
Ion Ratio Lower Upper
284 100
142 40.0 31.8 47.6
249 32.1 26.0 39.0

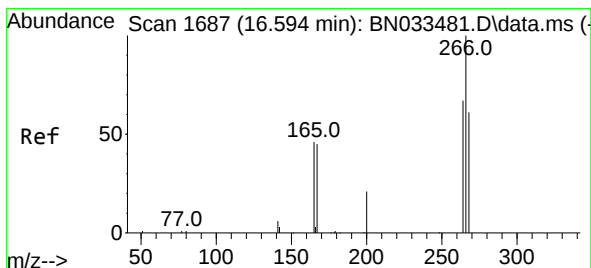
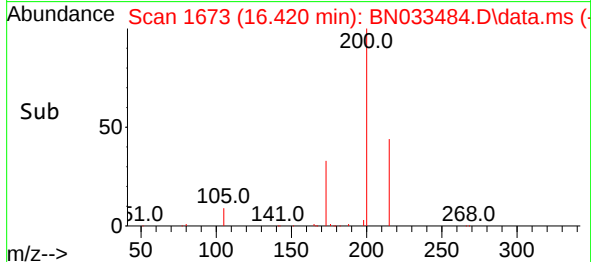
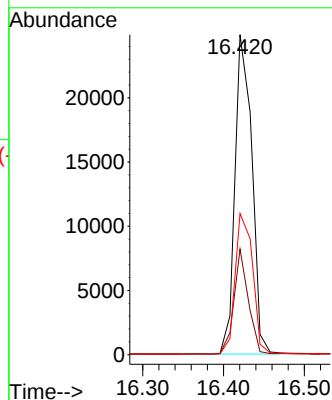
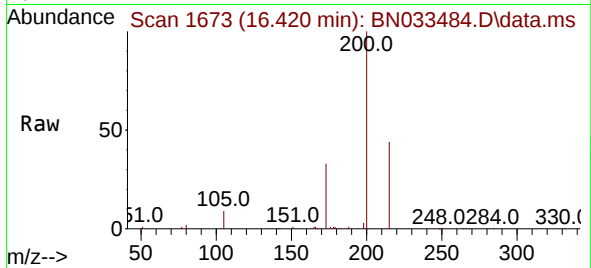




#23
 Atrazine
 Concen: 3.342 ng
 RT: 16.420 min Scan# 1673
 Delta R.T. -0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

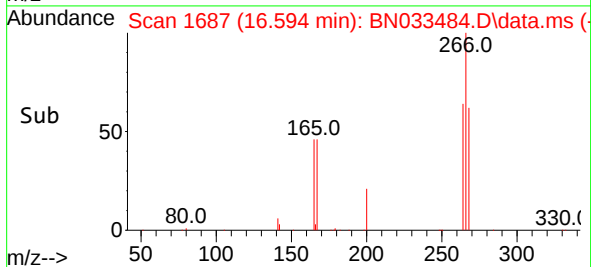
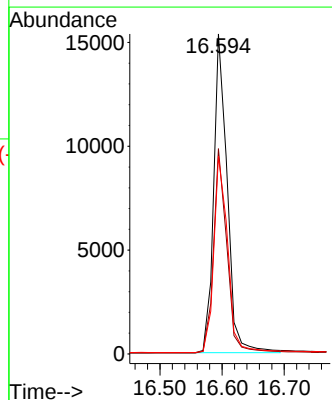
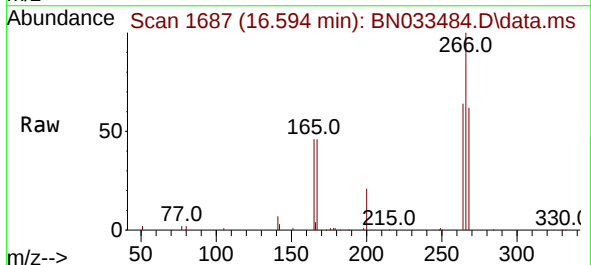
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

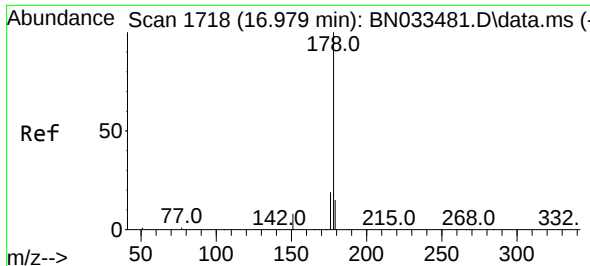
Tgt Ion:200 Resp: 36125
 Ion Ratio Lower Upper
 200 100
 173 33.0 25.3 37.9
 215 44.1 36.6 54.8



#24
 Pentachlorophenol
 Concen: 3.743 ng
 RT: 16.594 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

Tgt Ion:266 Resp: 23233
 Ion Ratio Lower Upper
 266 100
 264 63.0 51.9 77.9
 268 63.2 51.0 76.4

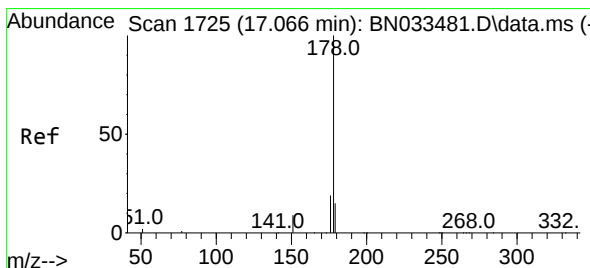
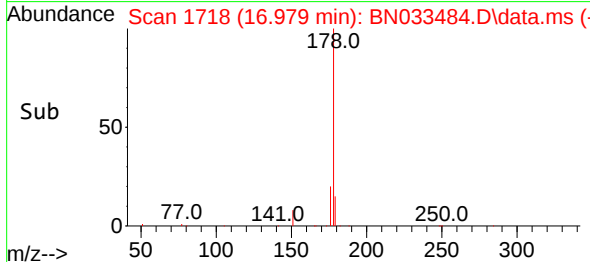
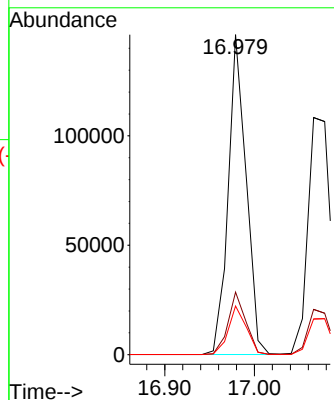
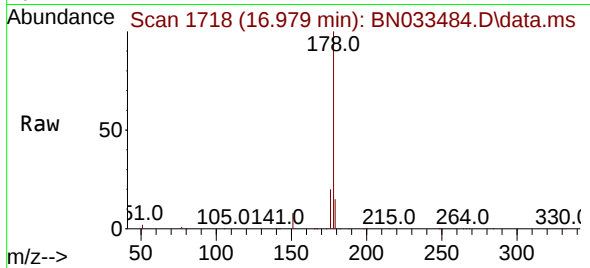




#25
Phenanthrene
Concen: 3.113 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

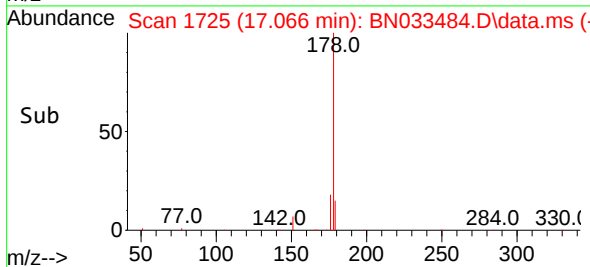
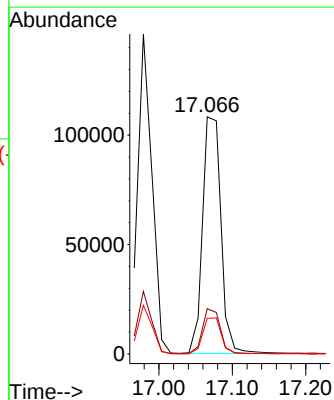
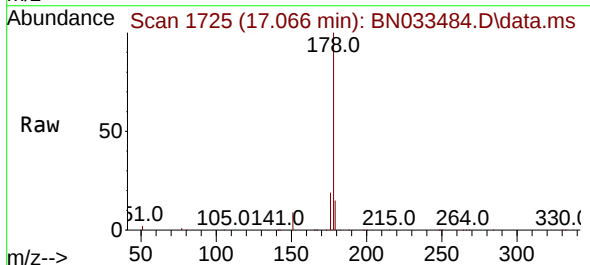
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

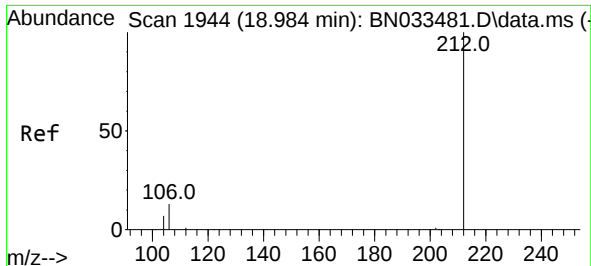
Tgt Ion:178 Resp: 202724
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.3 12.3 18.5



#26
Anthracene
Concen: 3.276 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:178 Resp: 188458
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.4 18.6

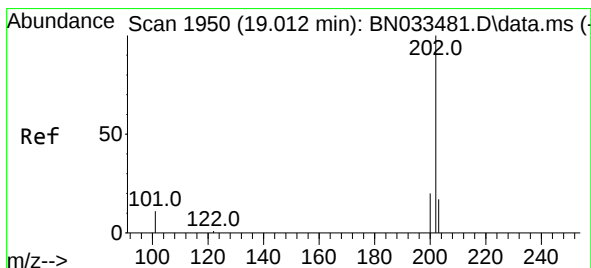
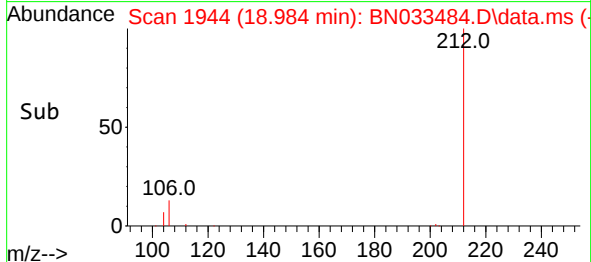
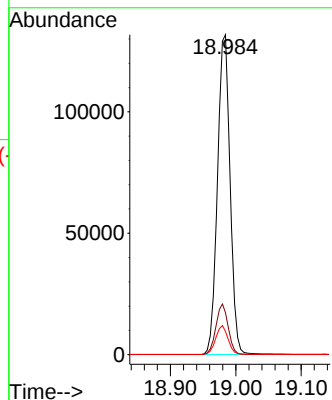
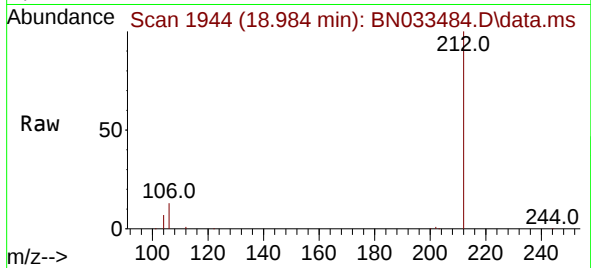




#27
Fluoranthene-d10
Concen: 2.953 ng
RT: 18.984 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

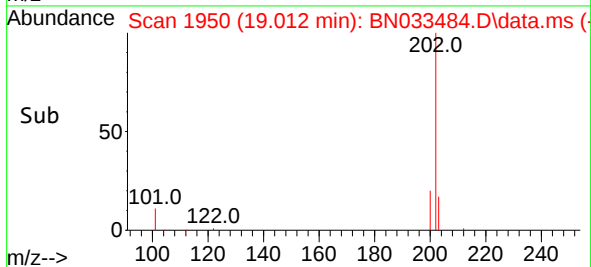
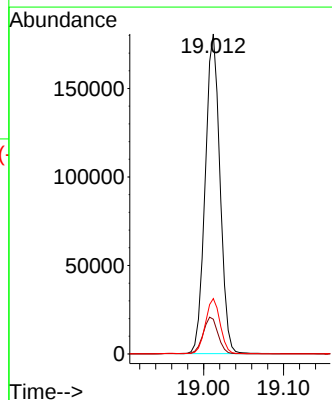
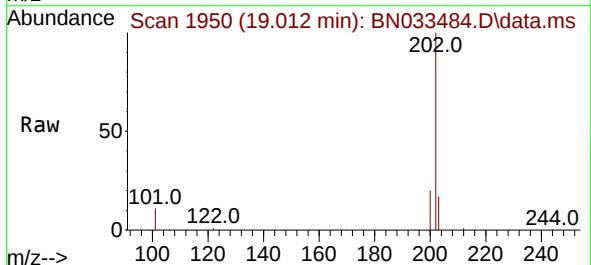
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

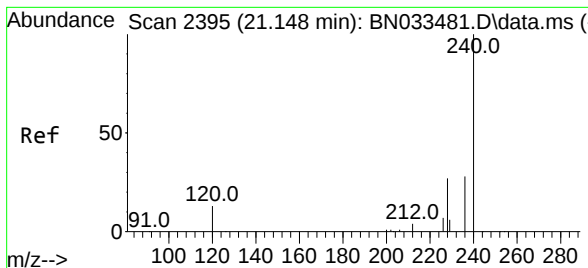
Tgt Ion:212 Resp: 176172
Ion Ratio Lower Upper
212 100
106 15.3 12.3 18.5
104 8.8 7.0 10.4



#28
Fluoranthene
Concen: 2.917 ng
RT: 19.012 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:202 Resp: 230499
Ion Ratio Lower Upper
202 100
101 11.8 9.5 14.3
203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

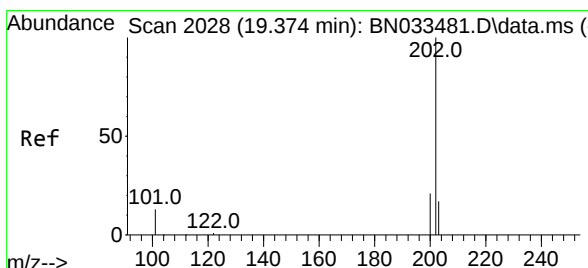
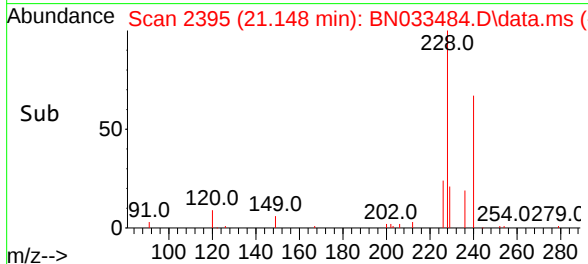
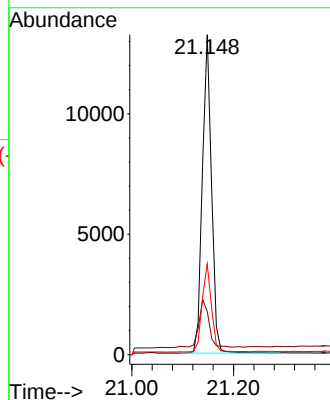
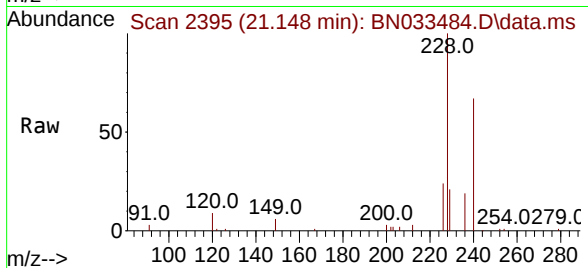
Tgt Ion:240 Resp: 16458

Ion Ratio Lower Upper

240 100

120 13.5 12.4 18.6

236 28.4 23.0 34.6



#30

Pyrene

Concen: 3.478 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

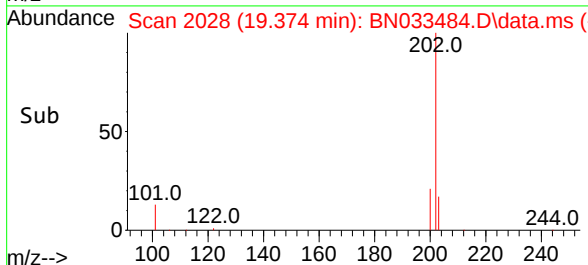
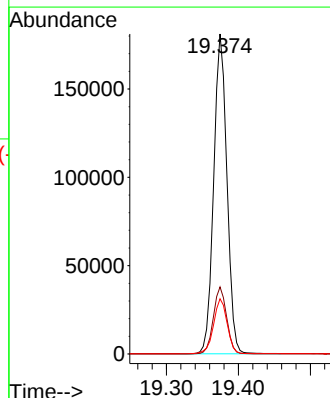
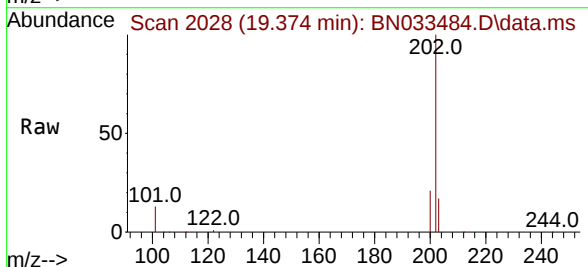
Tgt Ion:202 Resp: 230574

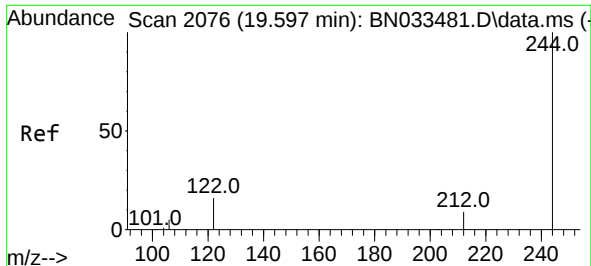
Ion Ratio Lower Upper

202 100

200 20.9 16.6 24.8

203 17.8 14.2 21.4

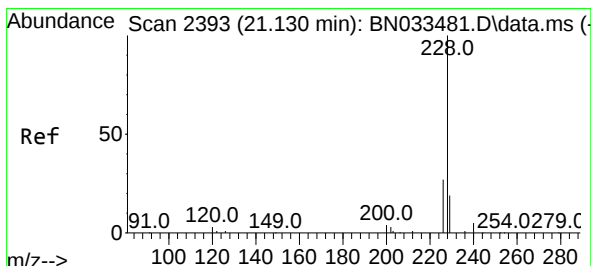
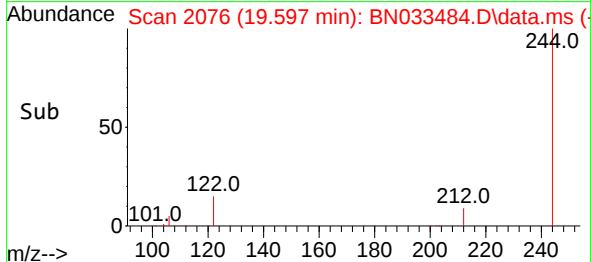
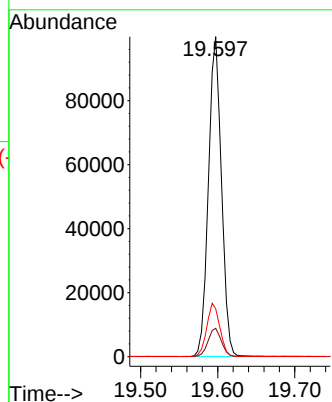
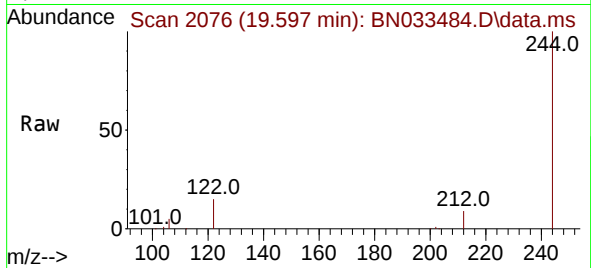




#31
 Terphenyl-d14
 Concen: 3.696 ng
 RT: 19.597 min Scan# 2076
 Delta R.T. -0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

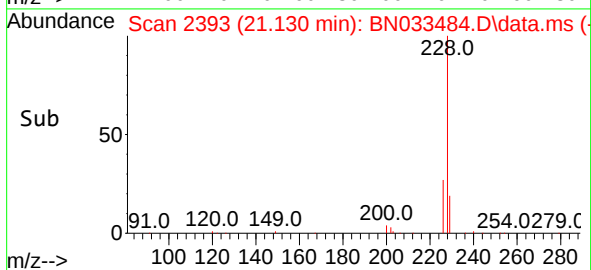
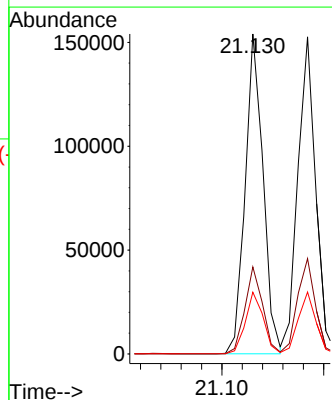
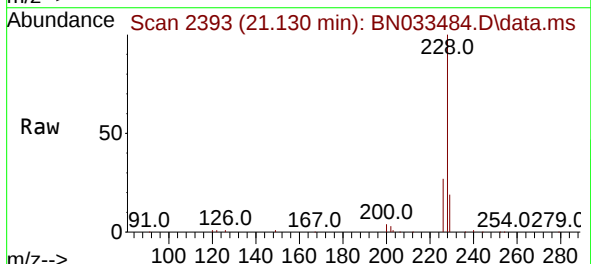
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

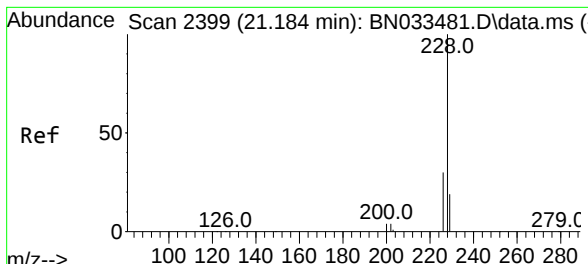
Tgt Ion:244 Resp: 117216
 Ion Ratio Lower Upper
 244 100
 212 8.9 7.8 11.6
 122 15.0 13.3 19.9



#32
 Benzo(a)anthracene
 Concen: 3.074 ng
 RT: 21.130 min Scan# 2393
 Delta R.T. -0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

Tgt Ion:228 Resp: 187742
 Ion Ratio Lower Upper
 228 100
 226 27.2 21.8 32.6
 229 19.3 15.8 23.6



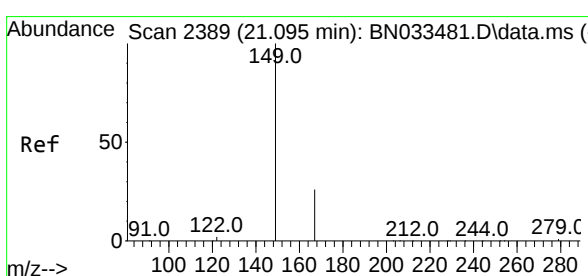
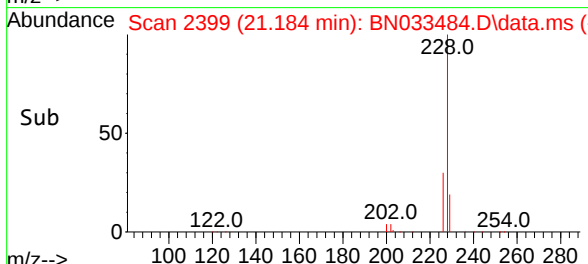
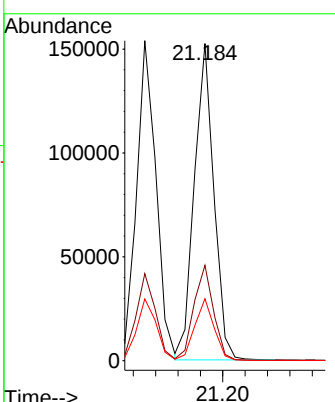
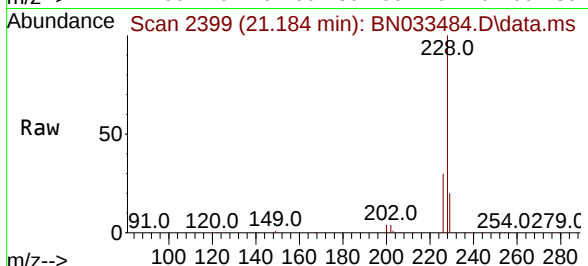


#33
 Chrysene
 Concen: 3.033 ng
 RT: 21.184 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion:228 Resp: 184734

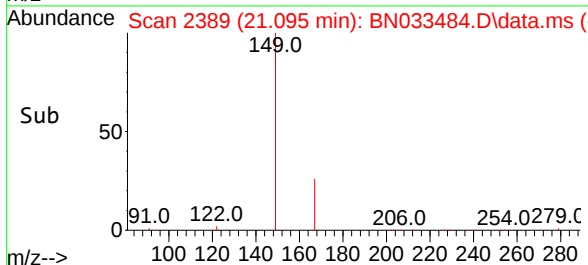
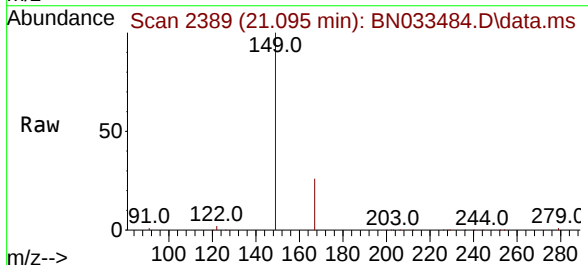
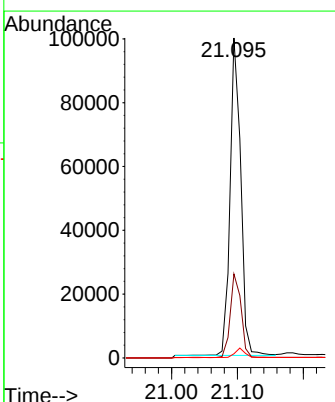
Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.8	35.8
229	19.5	15.6	23.4

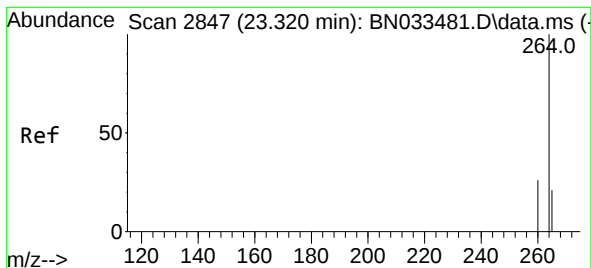


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 3.811 ng
 RT: 21.095 min Scan# 2389
 Delta R.T. -0.000 min
 Lab File: BN033484.D
 Acq: 19 Aug 2024 19:17

Tgt Ion:149 Resp: 111315

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.5	32.3
279	2.8	2.2	3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.317 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

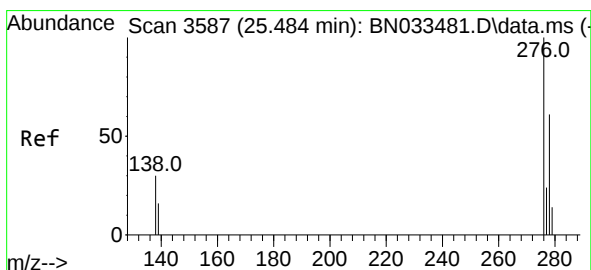
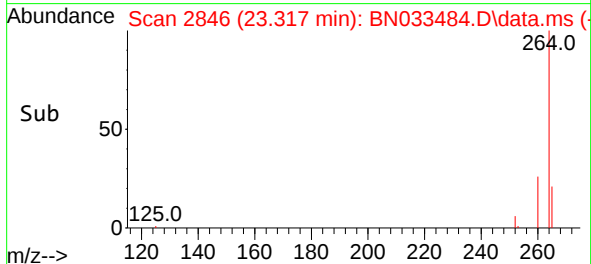
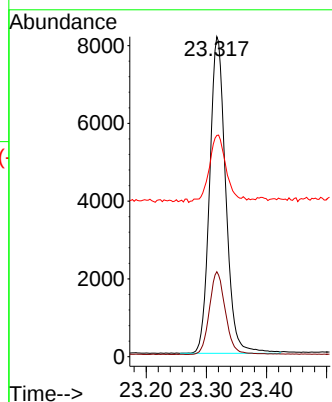
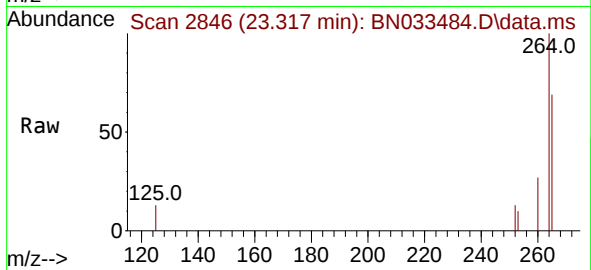
Tgt Ion:264 Resp: 15102

Ion Ratio Lower Upper

264 100

260 26.5 20.8 31.2

265 69.1 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.206 ng

RT: 25.478 min Scan# 3585

Delta R.T. -0.006 min

Lab File: BN033484.D

Acq: 19 Aug 2024 19:17

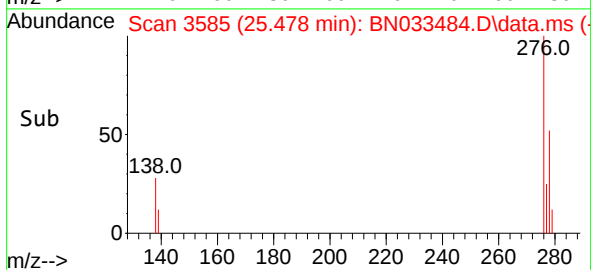
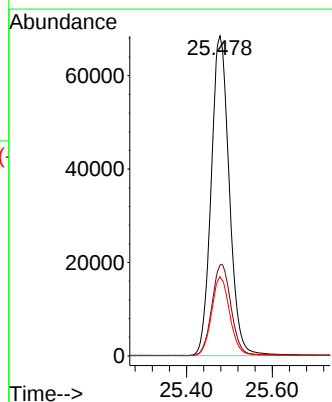
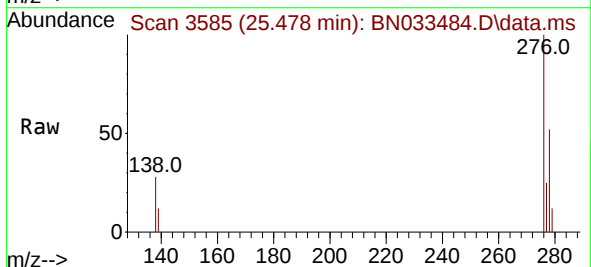
Tgt Ion:276 Resp: 200706

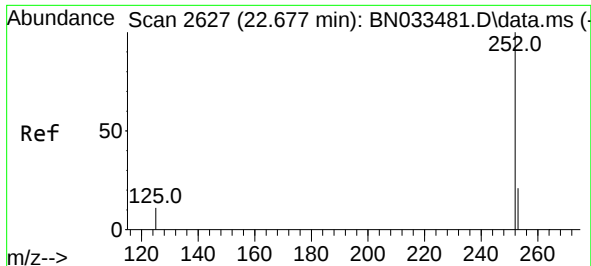
Ion Ratio Lower Upper

276 100

138 30.1 24.4 36.6

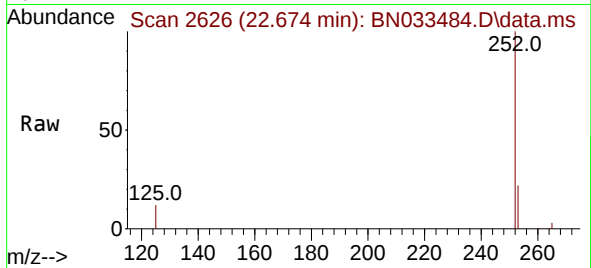
277 24.8 19.8 29.6



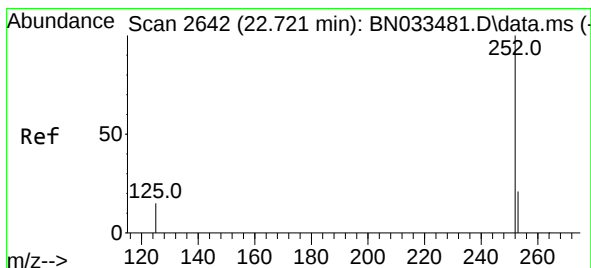
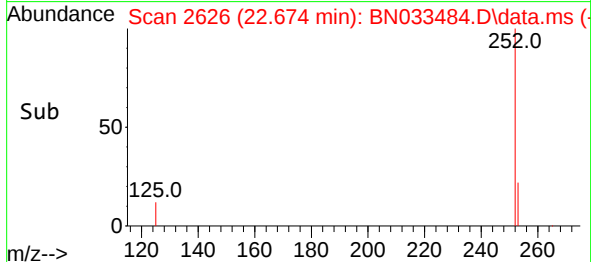
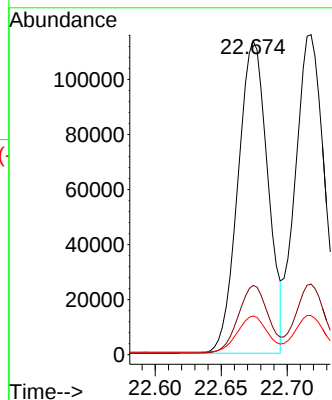


#37
Benzo(b)fluoranthene
Concen: 3.171 ng
RT: 22.674 min Scan# 2626
Delta R.T. -0.003 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

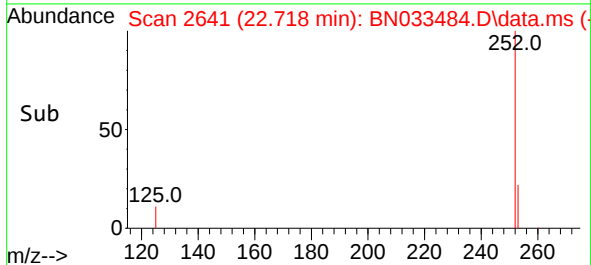
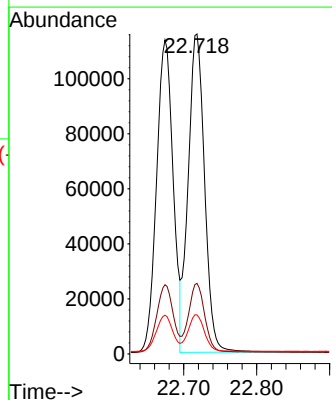
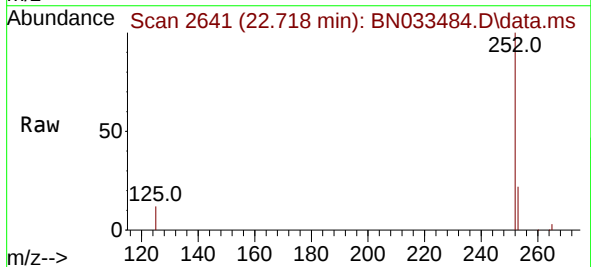


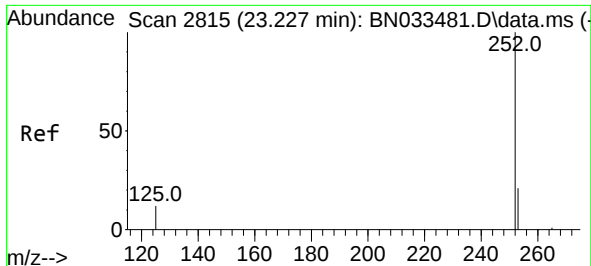
Tgt Ion:252 Resp: 178769
Ion Ratio Lower Upper
252 100
253 22.1 19.8 29.8
125 12.3 13.9 20.9#



#38
Benzo(k)fluoranthene
Concen: 3.154 ng
RT: 22.718 min Scan# 2641
Delta R.T. -0.003 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

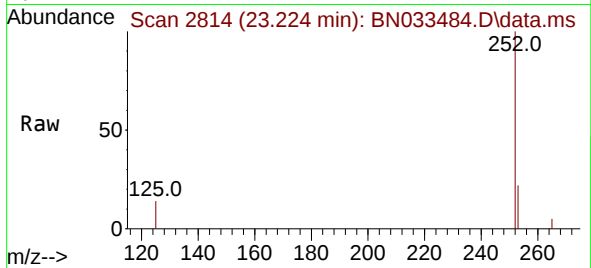
Tgt Ion:252 Resp: 180219
Ion Ratio Lower Upper
252 100
253 22.1 19.8 29.8
125 12.2 15.8 23.8#



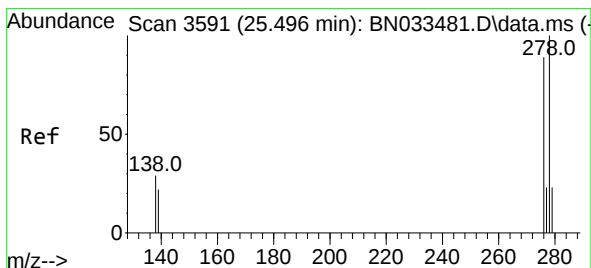
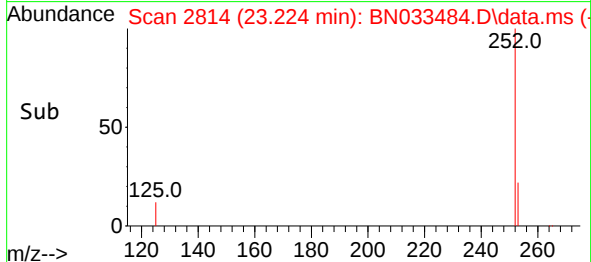
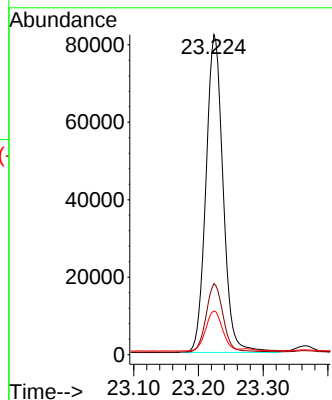


#39
Benzo(a)pyrene
Concen: 3.178 ng
RT: 23.224 min Scan# 2815
Delta R.T. -0.003 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

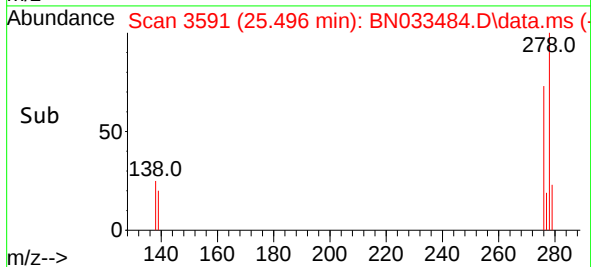
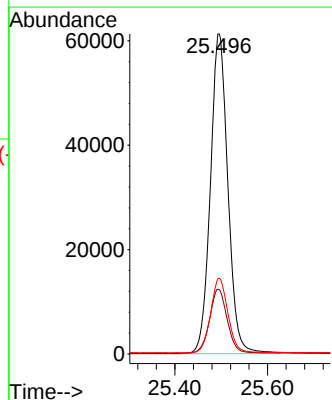
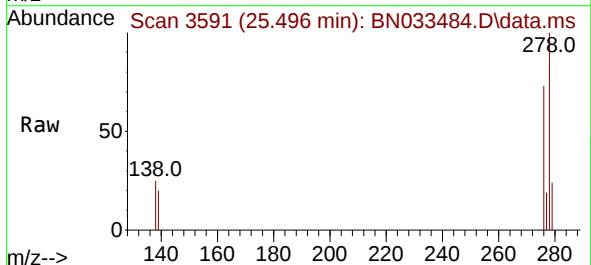


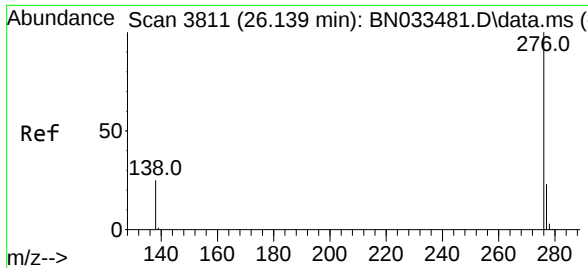
Tgt Ion:252 Resp: 151103
Ion Ratio Lower Upper
252 100
253 22.2 21.5 32.3
125 13.6 17.0 25.4#



#40
Dibenzo(a,h)anthracene
Concen: 3.242 ng
RT: 25.496 min Scan# 3591
Delta R.T. -0.000 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Tgt Ion:278 Resp: 160621
Ion Ratio Lower Upper
278 100
139 20.1 19.1 28.7
279 23.6 21.0 31.4

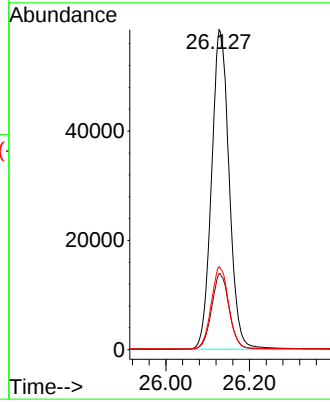
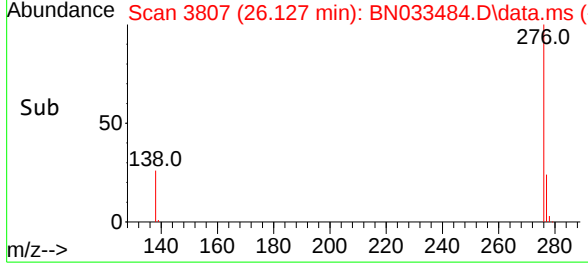
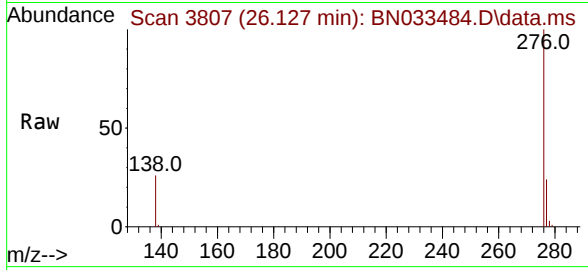




#41
Benzo(g,h,i)perylene
Concen: 3.133 ng
RT: 26.127 min Scan# 3811
Delta R.T. -0.012 min
Lab File: BN033484.D
Acq: 19 Aug 2024 19:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 170664
Ion Ratio Lower Upper
276 100
277 23.8 19.7 29.5
138 26.0 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033485.D
 Acq On : 19 Aug 2024 19:53
 Operator : MA/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Aug 19 23:23:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:20:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

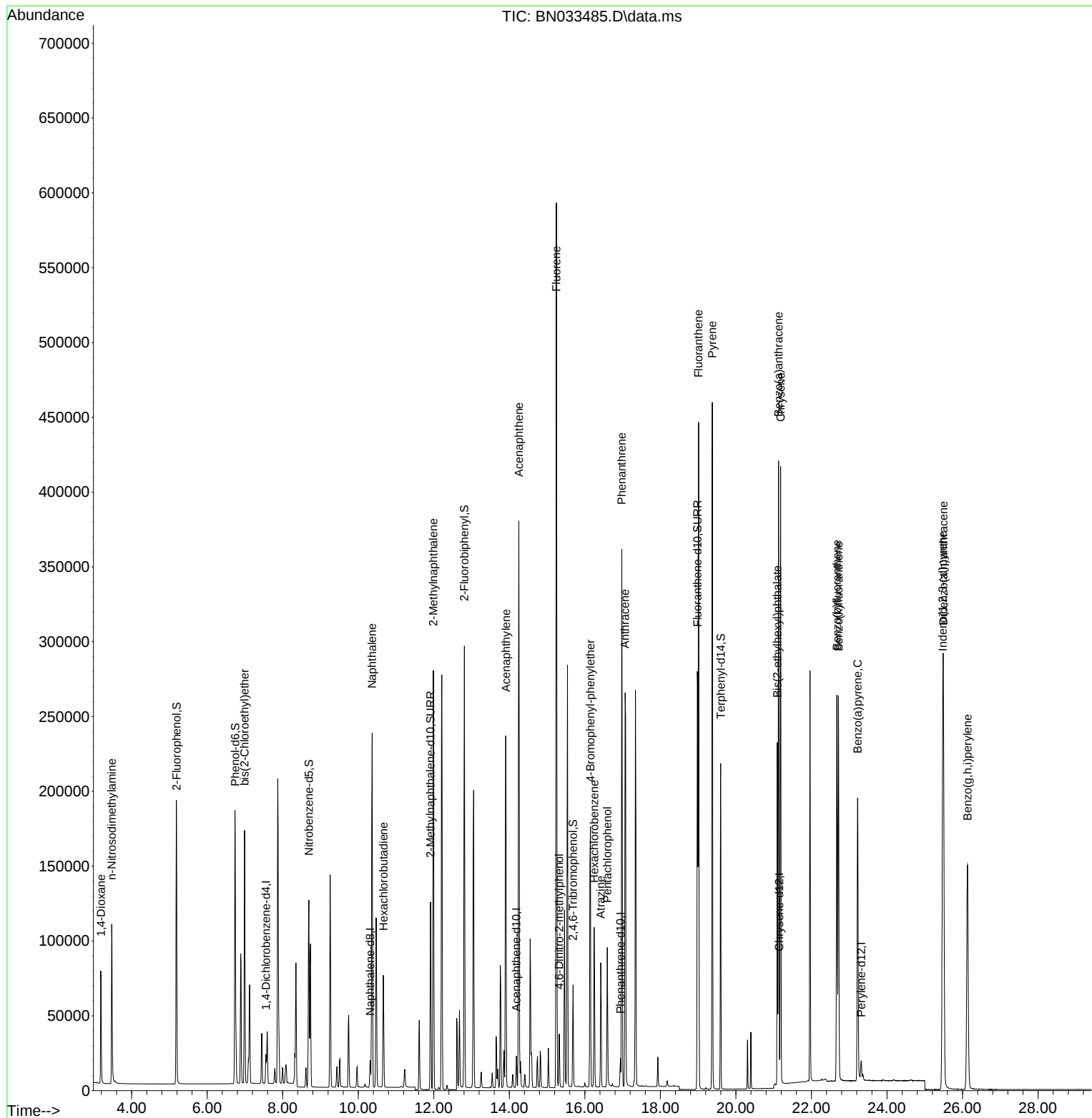
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	9269	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	21998	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	11634	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	23558	0.400	ng	0.00
29) Chrysene-d12	21.148	240	17408	0.400	ng	# 0.00
35) Perylene-d12	23.317	264	15627	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	139321	5.345	ng	0.00
5) Phenol-d6	6.743	99	157195	4.614	ng	0.00
8) Nitrobenzene-d5	8.691	82	91772	5.507	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	160871	4.865	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	34523	5.811	ng	0.00
15) 2-Fluorobiphenyl	12.809	172	235781	5.007	ng	0.00
27) Fluoranthene-d10	18.979	212	294565	4.770	ng	0.00
31) Terphenyl-d14	19.597	244	195740	5.835	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.190	88	45493	4.560	ng	99
3) n-Nitrosodimethylamine	3.471	42	56221	4.351	ng	98
6) bis(2-Chloroethyl)ether	6.989	93	113488	4.272	ng	100
9) Naphthalene	10.368	128	291947	4.891	ng	99
10) Hexachlorobutadiene	10.667	225	57398	5.014	ng	# 100
12) 2-Methylnaphthalene	11.990	142	190474	4.768	ng	98
16) Acenaphthylene	13.911	152	277888	5.198	ng	100
17) Acenaphthene	14.253	154	185664	5.047	ng	97
18) Fluorene	15.247	166	230419	4.786	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	23328	7.938	ng	# 69
21) 4-Bromophenyl-phenylether	16.147	248	73606	5.238	ng	98
22) Hexachlorobenzene	16.247	284	79732	5.080	ng	99
23) Atrazine	16.420	200	61750	5.519	ng	98
24) Pentachlorophenol	16.594	266	40313	6.275	ng	99
25) Phenanthrene	16.979	178	335366	4.976	ng	100
26) Anthracene	17.066	178	311339	5.228	ng	99
28) Fluoranthene	19.012	202	379353	4.638	ng	100
30) Pyrene	19.374	202	384431	5.482	ng	100
32) Benzo(a)anthracene	21.130	228	320243	4.958	ng	100
33) Chrysene	21.184	228	311144	4.829	ng	100
34) Bis(2-ethylhexyl)phtha...	21.094	149	193548	6.264	ng	100
36) Indeno(1,2,3-cd)pyrene	25.478	276	330983	5.109	ng	99
37) Benzo(b)fluoranthene	22.674	252	299478	5.133	ng	# 91
38) Benzo(k)fluoranthene	22.715	252	295429	4.997	ng	# 89
39) Benzo(a)pyrene	23.224	252	251984	5.121	ng	# 87
40) Dibenzo(a,h)anthracene	25.493	278	264087	5.151	ng	93
41) Benzo(g,h,i)perylene	26.133	276	280592	4.978	ng	98

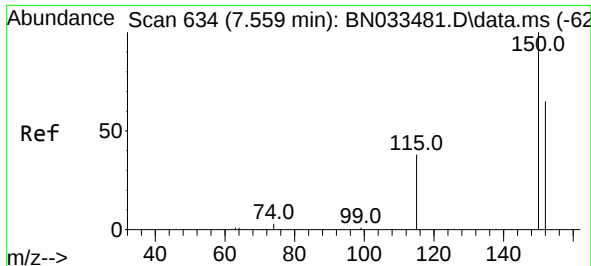
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN033485.D
Acq On : 19 Aug 2024 19:53
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 19 23:23:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

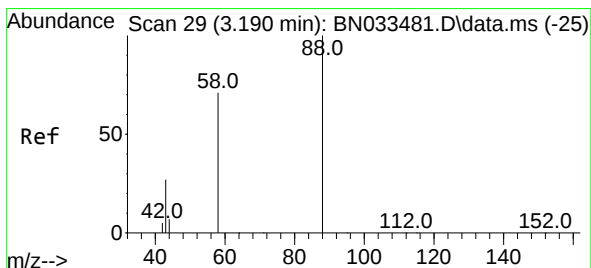
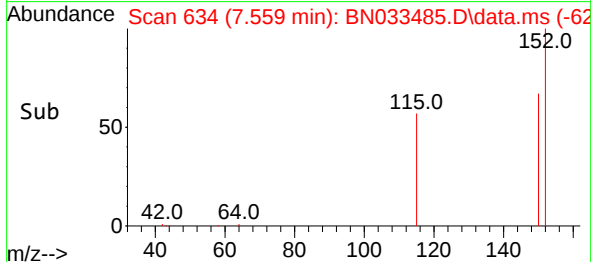
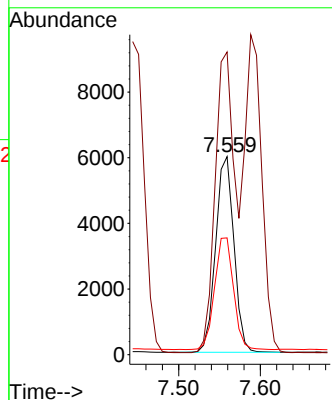
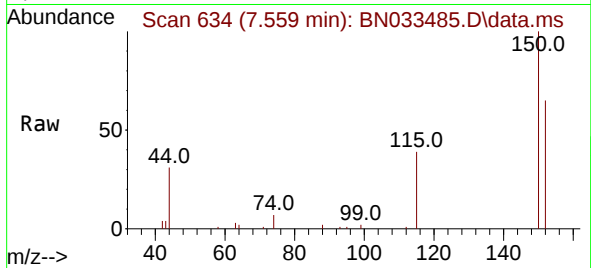




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.559 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN033485.D
 Acq: 19 Aug 2024 19:53

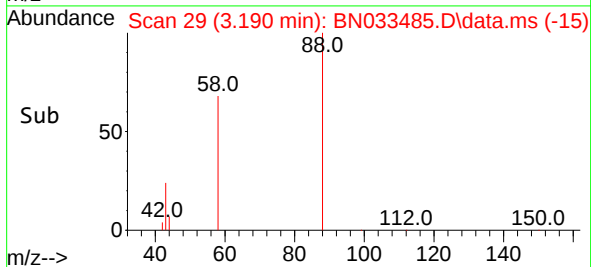
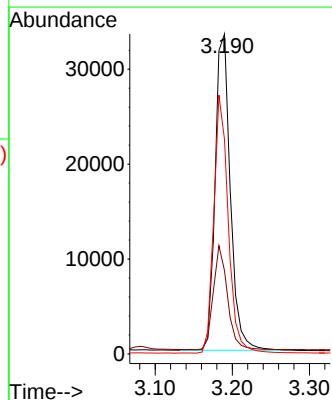
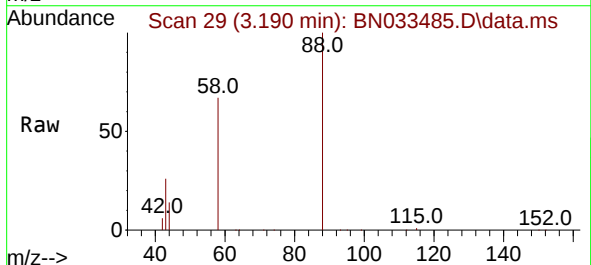
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

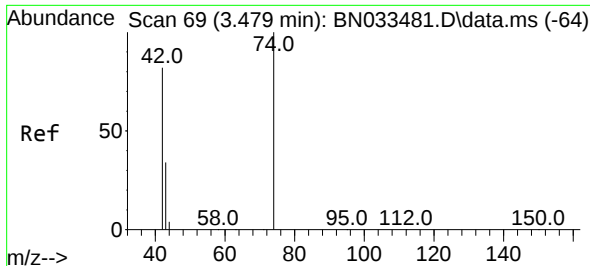
Tgt Ion:152 Resp: 9269
 Ion Ratio Lower Upper
 152 100
 150 152.8 122.2 183.2
 115 58.9 47.2 70.8



#2
 1,4-Dioxane
 Concen: 4.560 ng
 RT: 3.190 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: BN033485.D
 Acq: 19 Aug 2024 19:53

Tgt Ion: 88 Resp: 45493
 Ion Ratio Lower Upper
 88 100
 43 30.6 25.0 37.4
 58 77.6 62.5 93.7

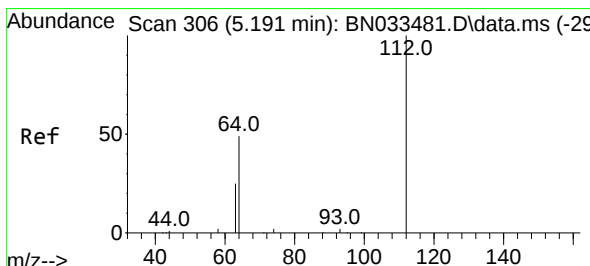
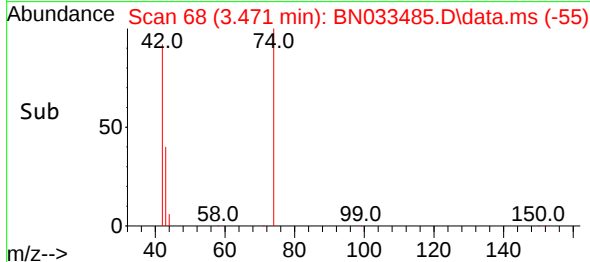
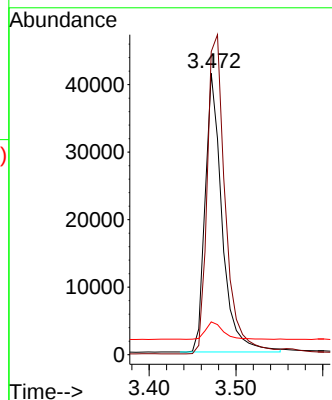
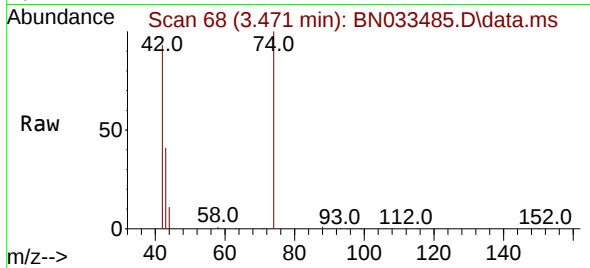




#3
n-Nitrosodimethylamine
Concen: 4.351 ng
RT: 3.471 min Scan# 69
Delta R.T. -0.007 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

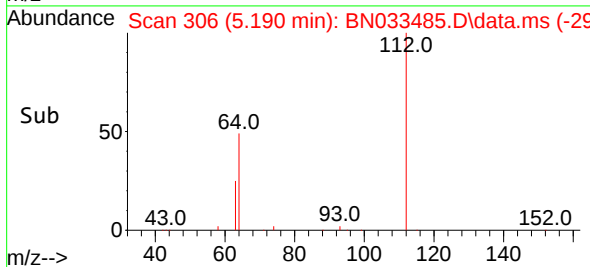
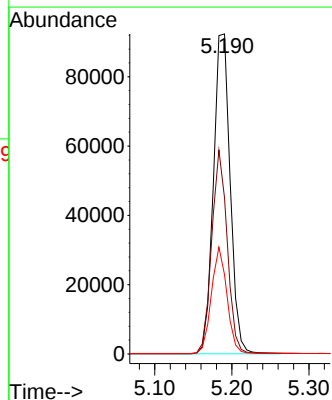
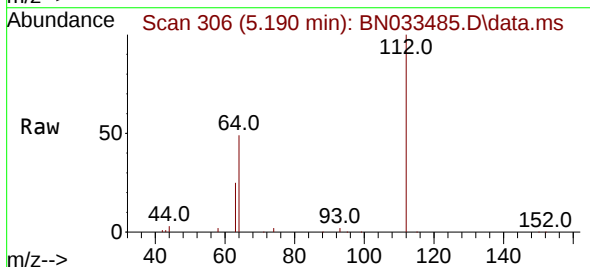
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

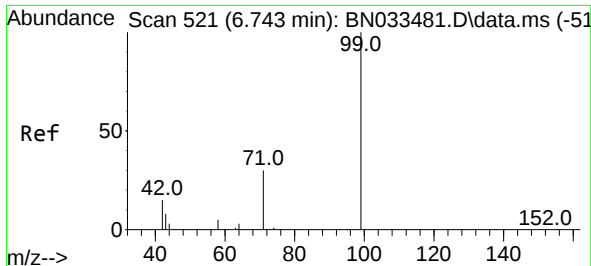
Tgt Ion: 42 Resp: 56221
Ion Ratio Lower Upper
42 100
74 122.7 100.2 150.2
44 6.4 5.3 7.9



#4
2-Fluorophenol
Concen: 5.345 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion: 112 Resp: 139321
Ion Ratio Lower Upper
112 100
64 58.9 47.1 70.7
63 30.7 24.9 37.3

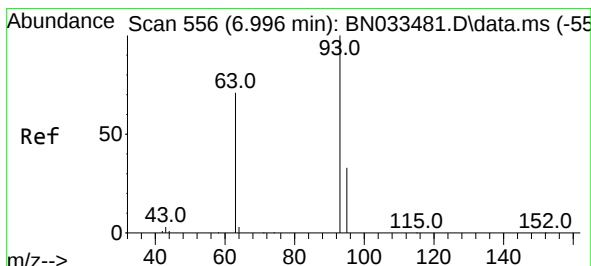
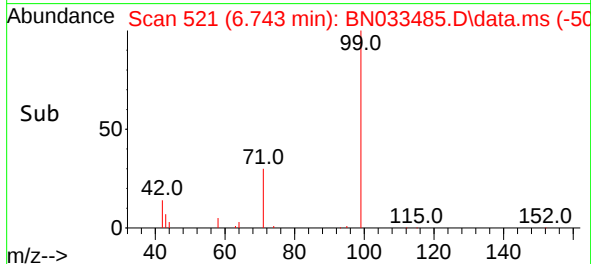
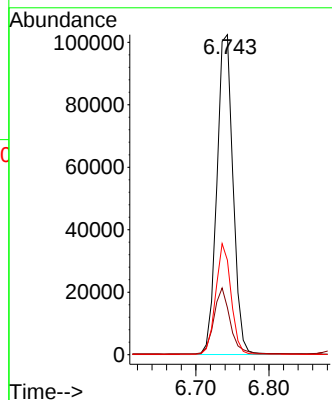
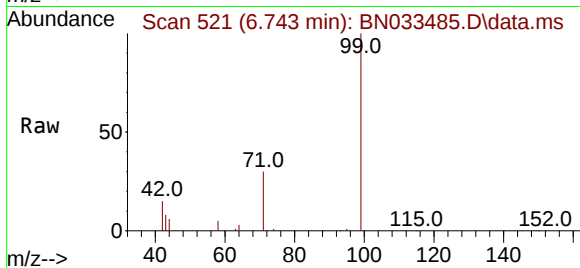




#5
Phenol-d6
Concen: 4.614 ng
RT: 6.743 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

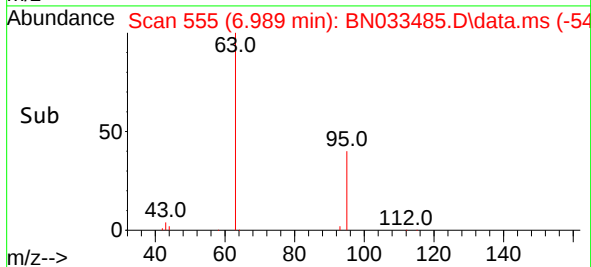
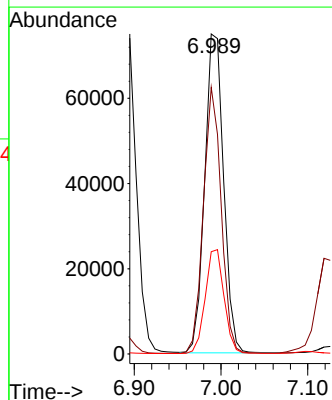
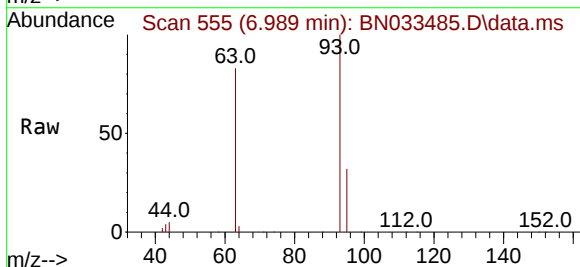
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BNA_N
ClientSampleId :
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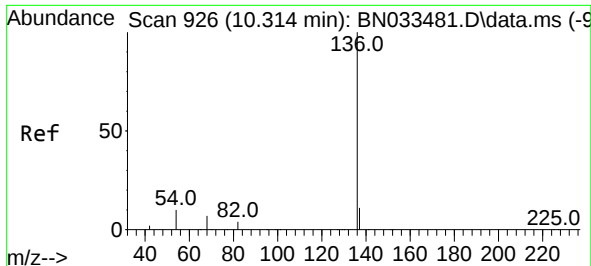
Tgt Ion: 99 Resp: 157195
Ion Ratio Lower Upper
99 100
42 20.4 16.6 24.8
71 33.0 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 4.272 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion: 93 Resp: 113488
Ion Ratio Lower Upper
93 100
63 78.7 63.0 94.4
95 32.4 26.0 39.0

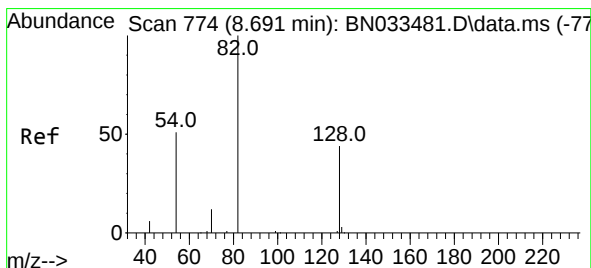
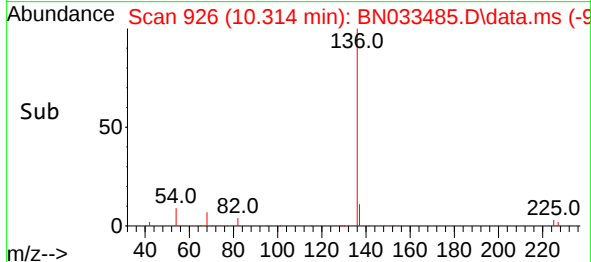
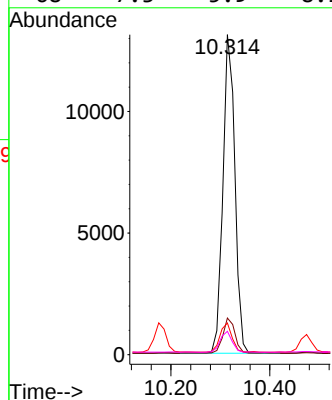
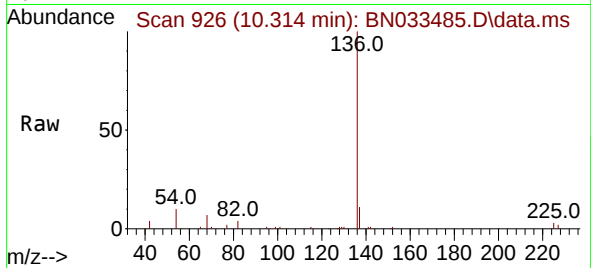




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

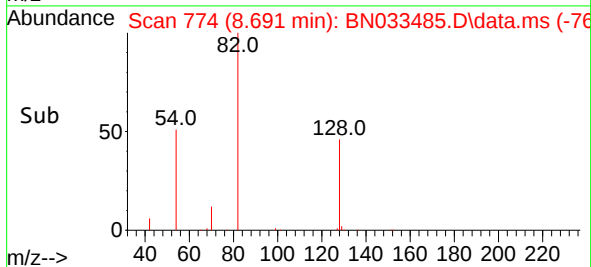
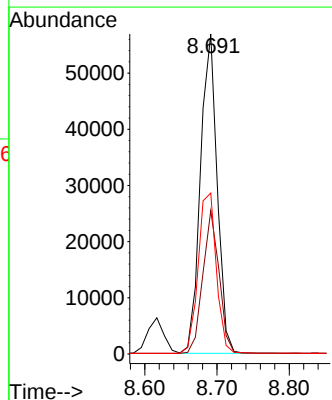
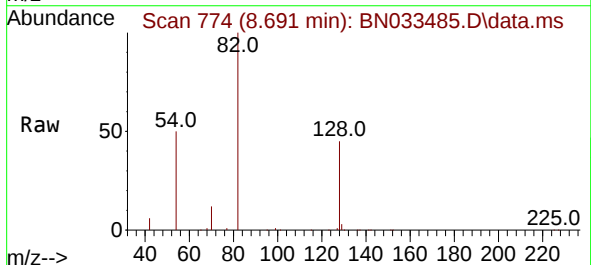
Instrument :
BNA_N
ClientSampleId :
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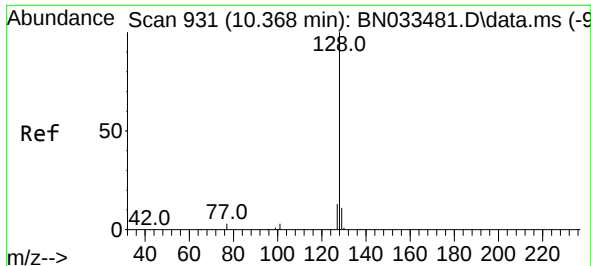
Tgt Ion:	136	Resp:	21998
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	9.9	8.3	12.5
68	7.3	5.9	8.9



#8
Nitrobenzene-d5
Concen: 5.507 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:	82	Resp:	91772
Ion	Ratio	Lower	Upper
82	100		
128	44.8	36.0	54.0
54	50.3	42.0	63.0

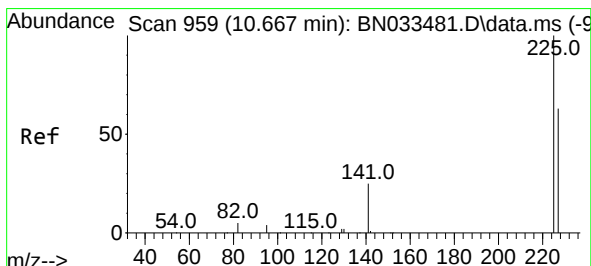
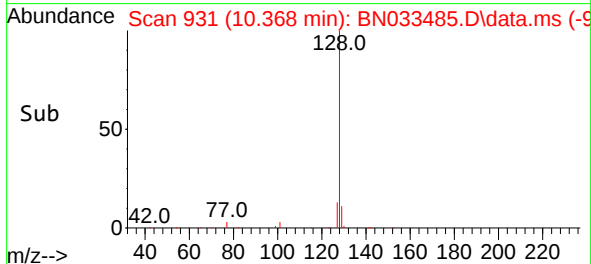
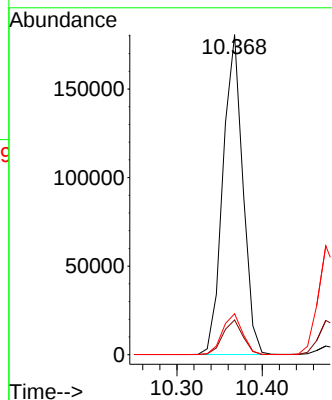
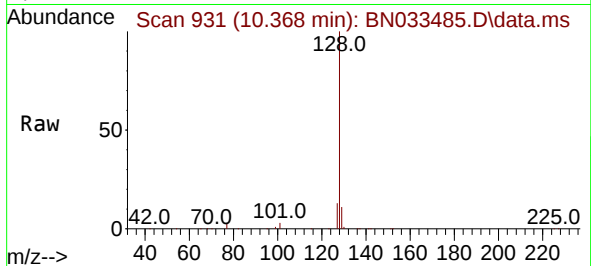




#9
Naphthalene
Concen: 4.891 ng
RT: 10.368 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

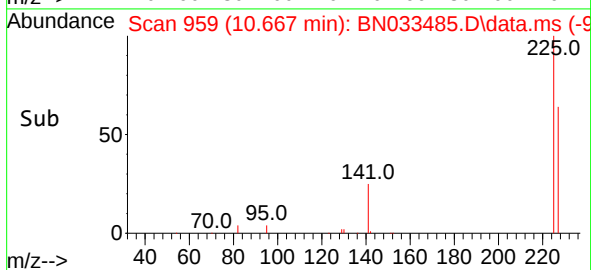
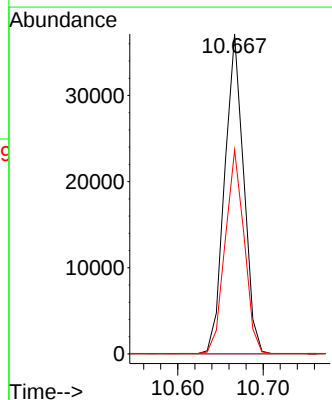
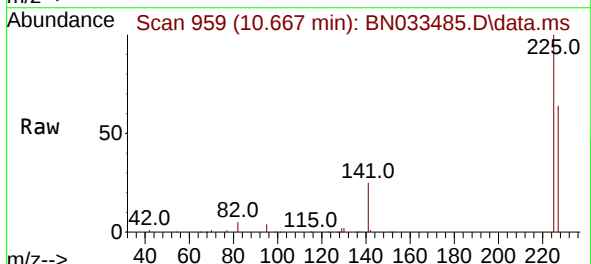
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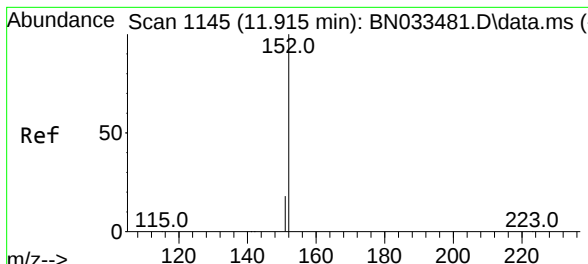
Tgt Ion:128 Resp: 291947
Ion Ratio Lower Upper
128 100
129 10.8 9.1 13.7
127 12.8 10.7 16.1



#10
Hexachlorobutadiene
Concen: 5.014 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:225 Resp: 57398
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.2 76.8

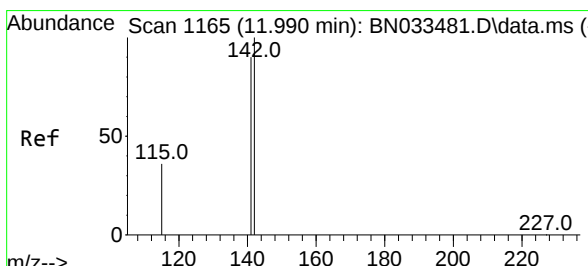
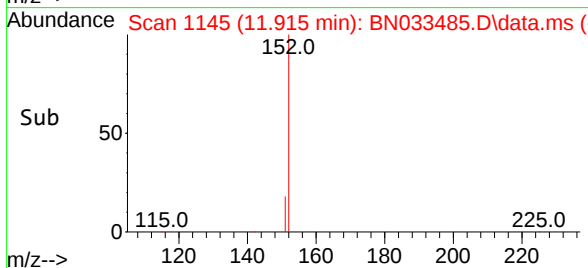
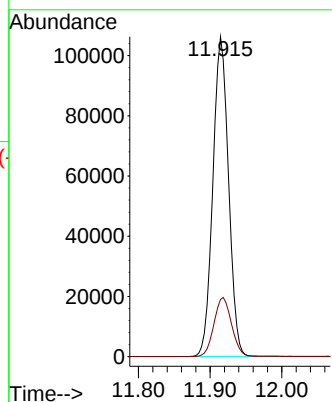
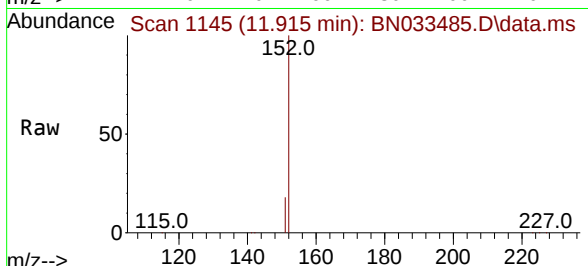




#11
2-Methylnaphthalene-d10
Concen: 4.865 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

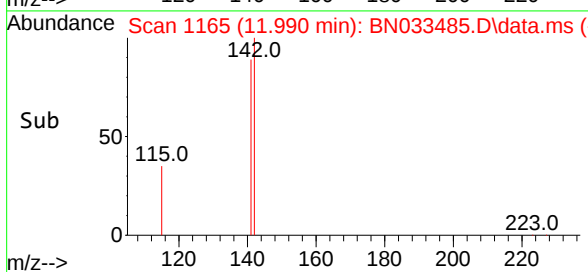
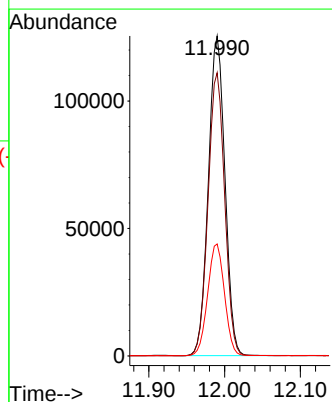
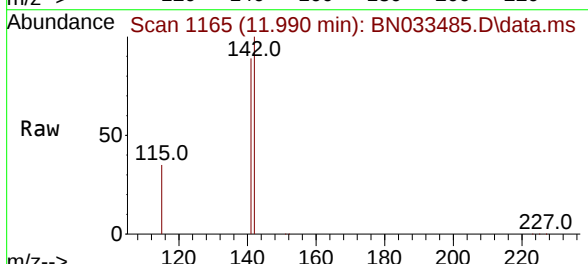
Instrument :
BNA_N
ClientSampleId :
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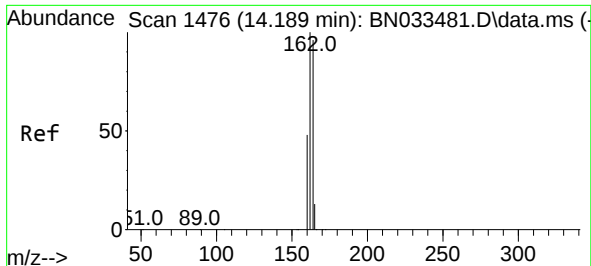
Tgt Ion:152 Resp: 160871
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 4.768 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:142 Resp: 190474
Ion Ratio Lower Upper
142 100
141 88.5 71.7 107.5
115 35.0 29.4 44.2

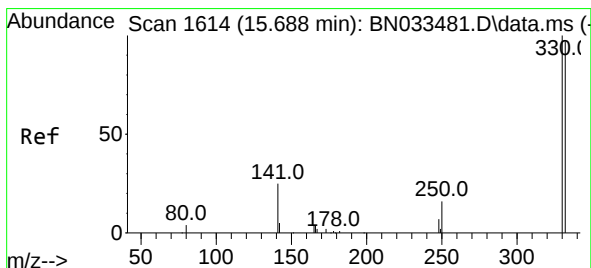
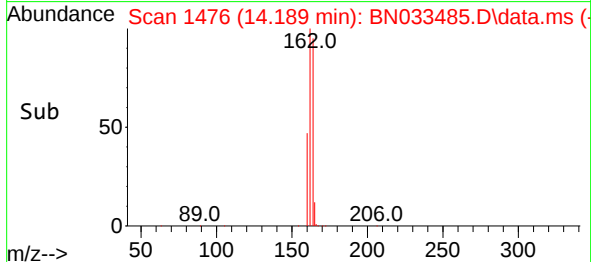
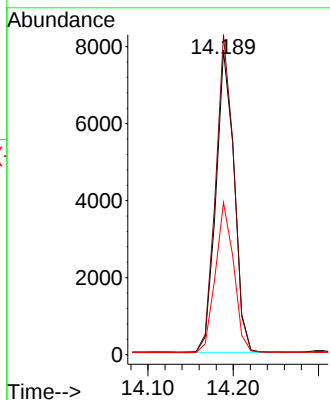
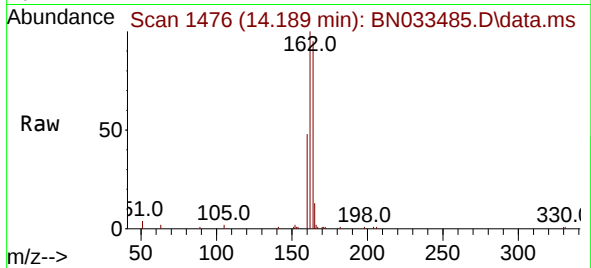




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

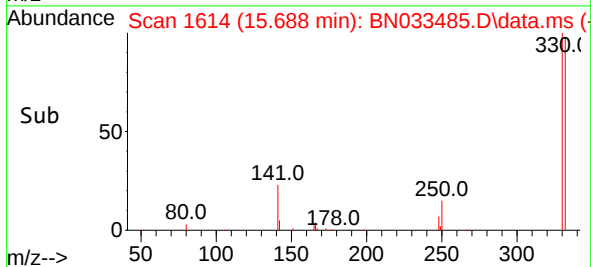
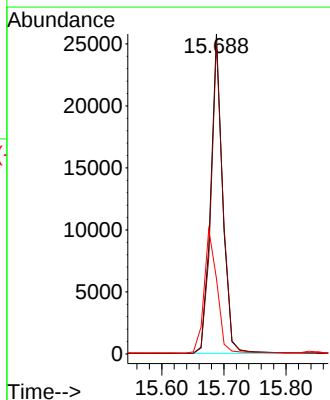
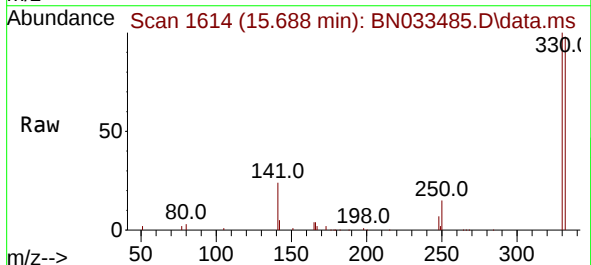
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

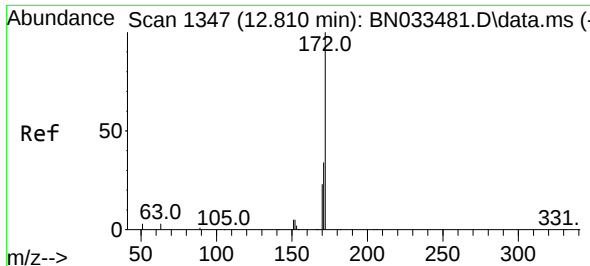
Tgt Ion:164 Resp: 11634
Ion Ratio Lower Upper
164 100
162 105.2 83.5 125.3
160 50.1 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 5.811 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:330 Resp: 34523
Ion Ratio Lower Upper
330 100
332 97.5 77.5 116.3
141 41.7 33.9 50.9

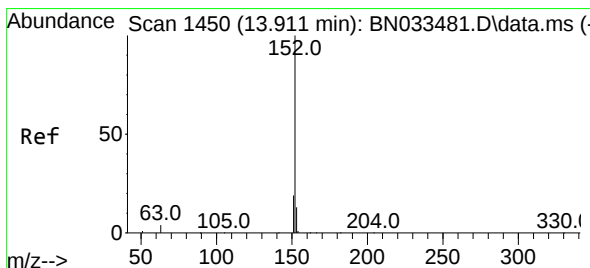
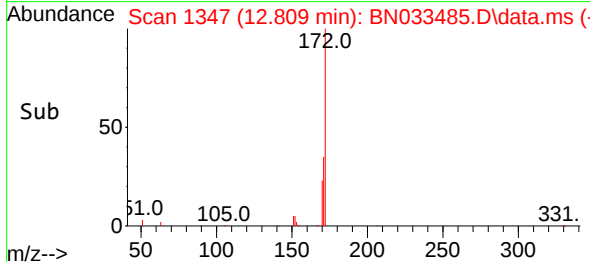
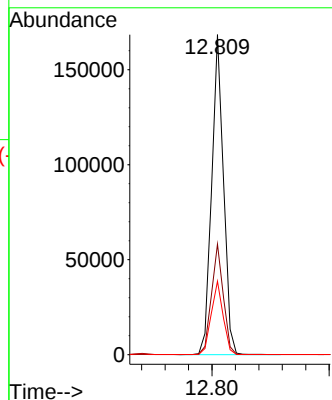
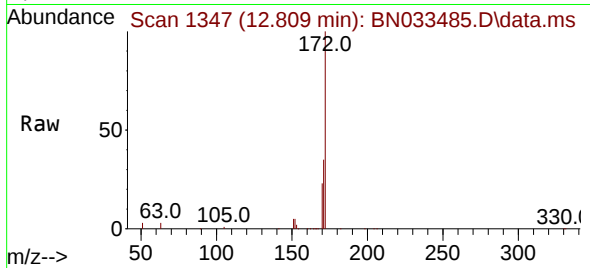




#15
2-Fluorobiphenyl
Concen: 5.007 ng
RT: 12.809 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

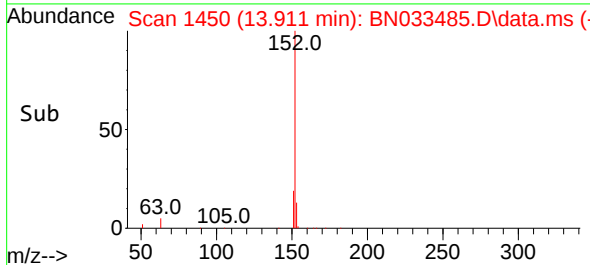
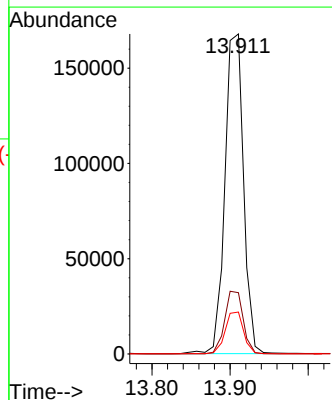
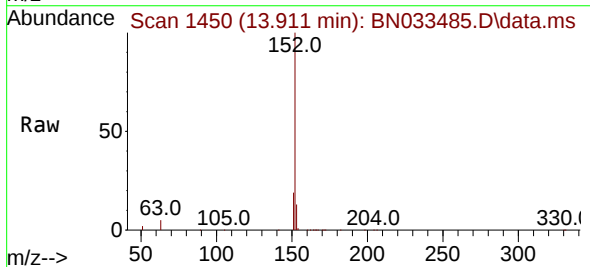
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

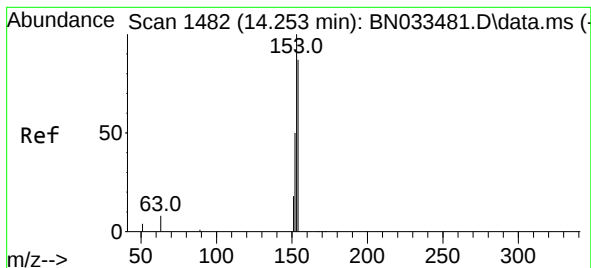
Tgt Ion:172 Resp: 235781
Ion Ratio Lower Upper
172 100
171 34.5 27.7 41.5
170 23.0 18.3 27.5



#16
Acenaphthylene
Concen: 5.198 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:152 Resp: 277888
Ion Ratio Lower Upper
152 100
151 19.4 15.7 23.5
153 13.0 10.3 15.5





#17

Acenaphthene

Concen: 5.047 ng

RT: 14.253 min Scan# 1482

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

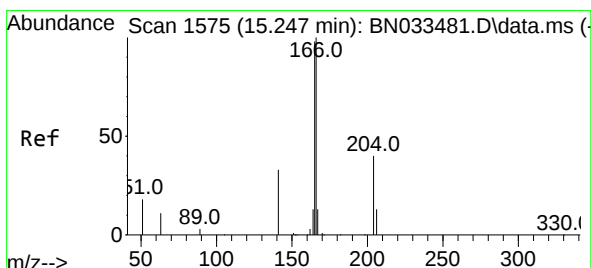
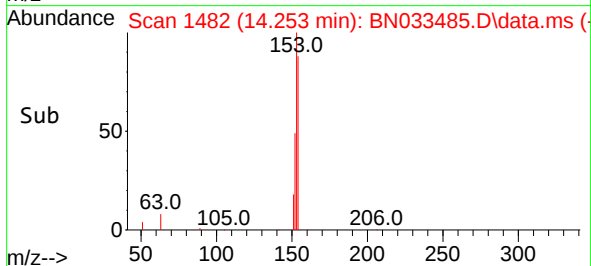
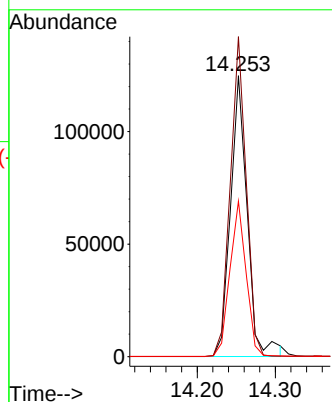
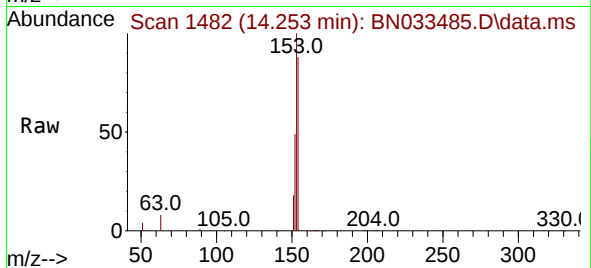
Tgt Ion:154 Resp: 185664

Ion Ratio Lower Upper

154 100

153 108.5 89.0 133.6

152 53.5 45.2 67.8



#18

Fluorene

Concen: 4.786 ng

RT: 15.247 min Scan# 1575

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

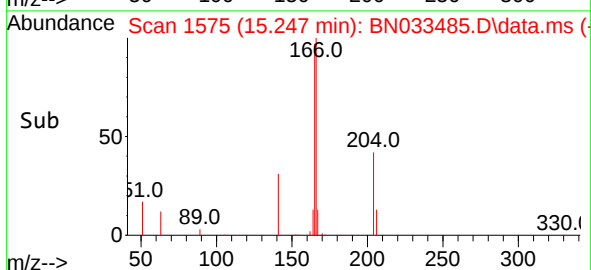
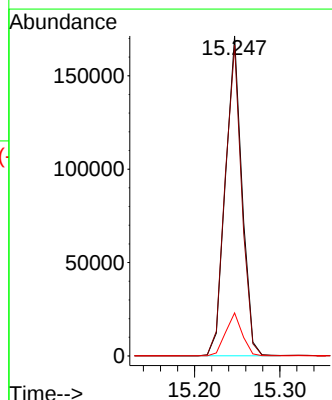
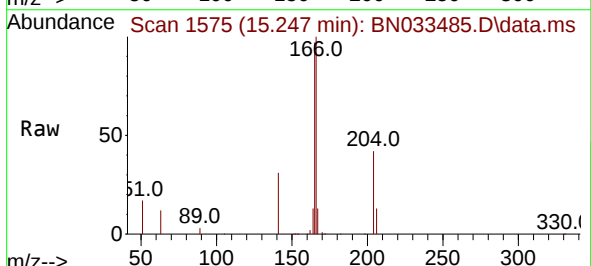
Tgt Ion:166 Resp: 230419

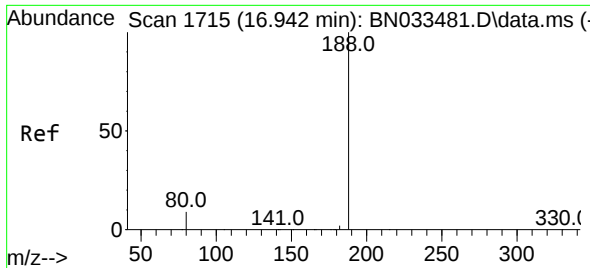
Ion Ratio Lower Upper

166 100

165 97.7 78.2 117.4

167 13.4 10.6 16.0

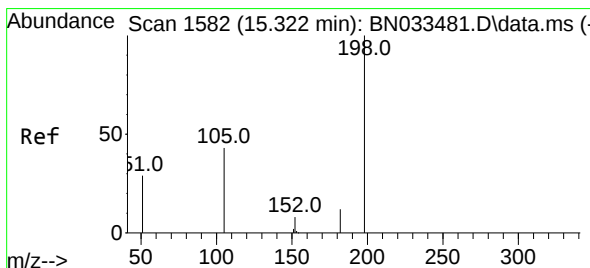
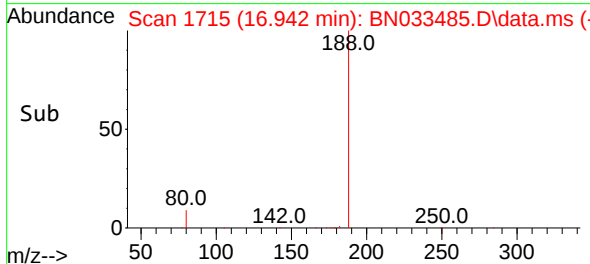
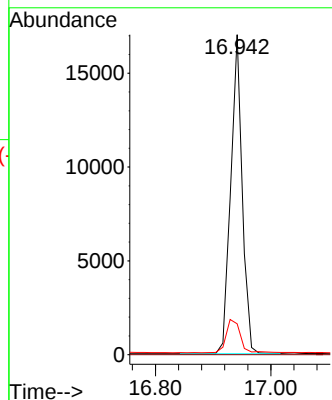
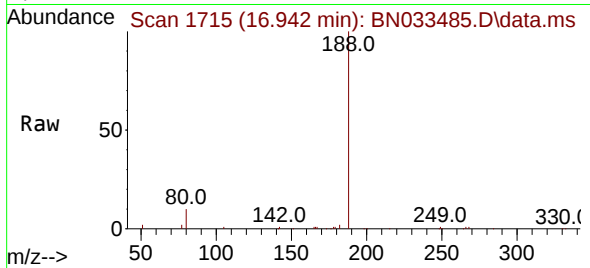




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

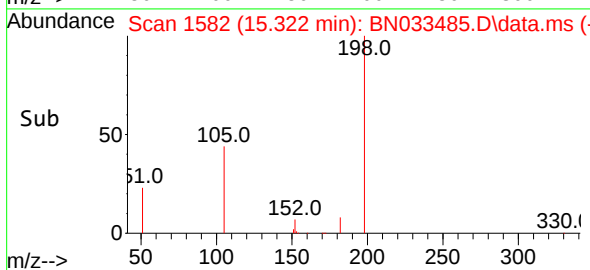
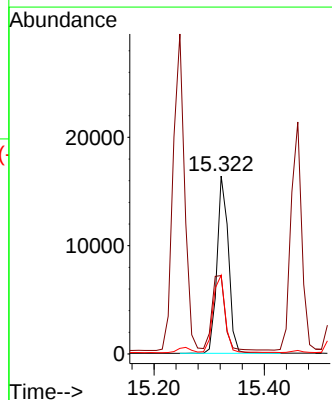
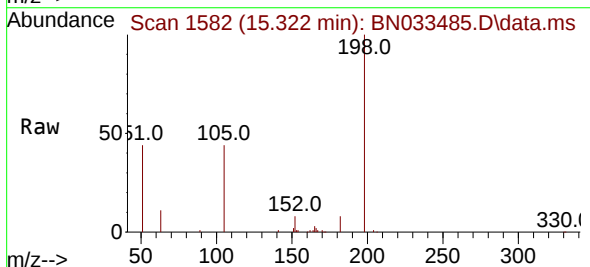
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

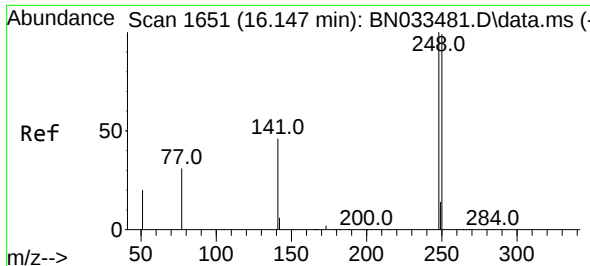
Tgt Ion:188 Resp: 23558
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.6 7.8 11.8



#20
4,6-Dinitro-2-methylphenol
Concen: 7.938 ng
RT: 15.322 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:198 Resp: 23328
Ion Ratio Lower Upper
198 100
51 44.0 65.1 97.7#
105 44.3 44.8 67.2#

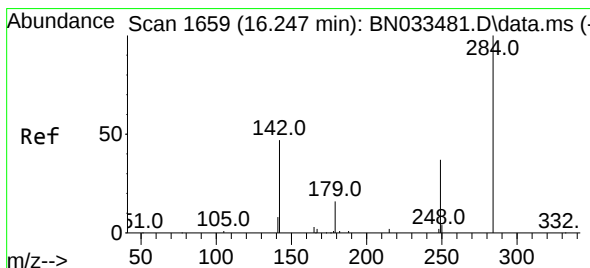
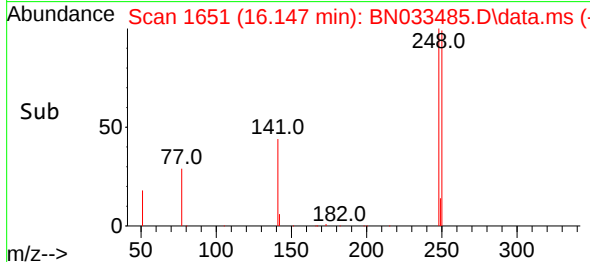
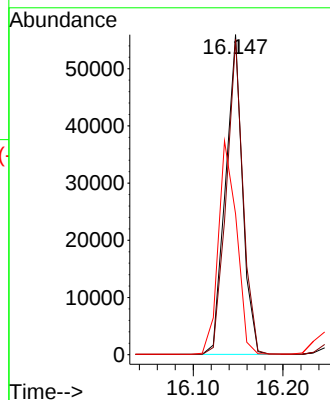
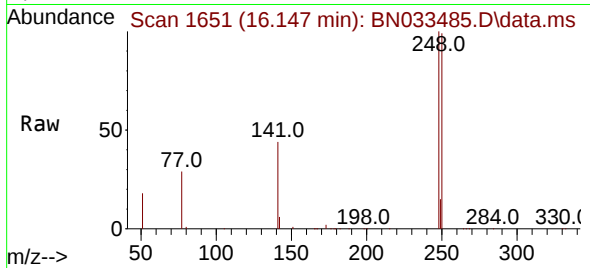




#21
4-Bromophenyl-phenylether
Concen: 5.238 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

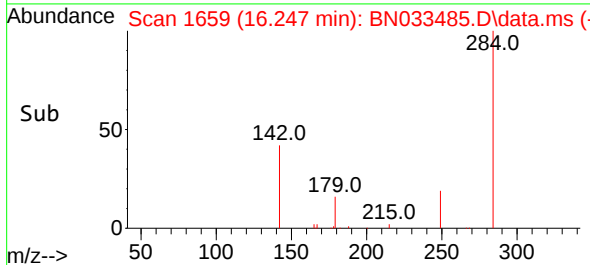
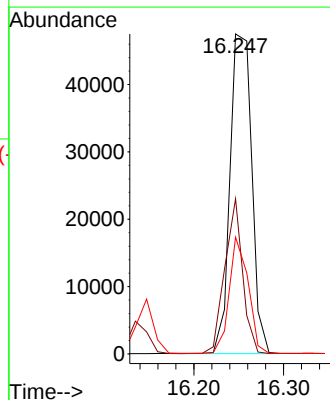
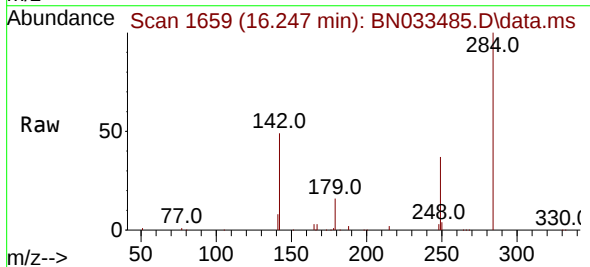
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

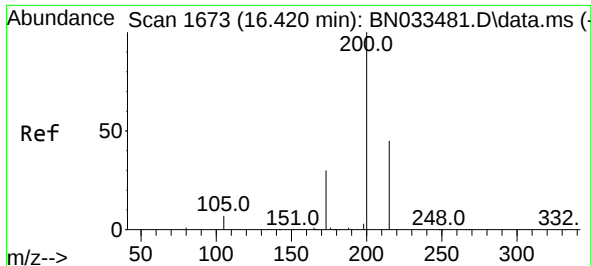
Tgt Ion:248 Resp: 73606
Ion Ratio Lower Upper
248 100
250 98.6 79.2 118.8
141 44.0 37.9 56.9



#22
Hexachlorobenzene
Concen: 5.080 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:284 Resp: 79732
Ion Ratio Lower Upper
284 100
142 39.6 31.8 47.6
249 31.6 26.0 39.0

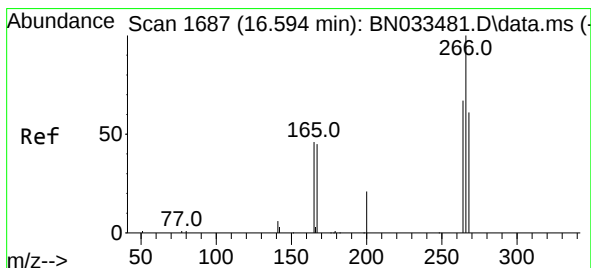
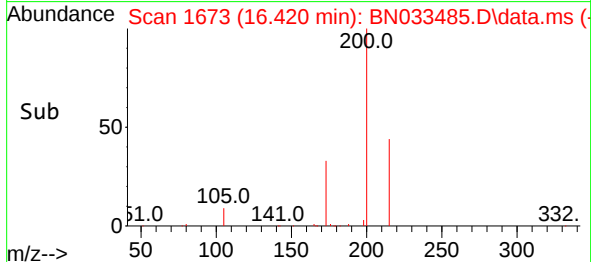
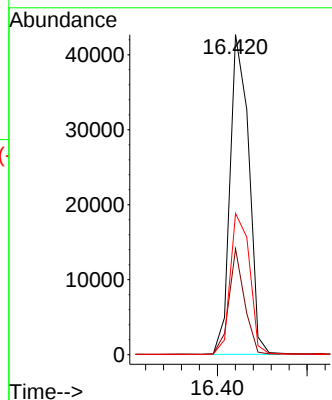
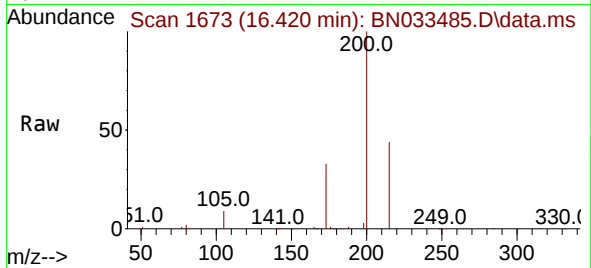




#23
Atrazine
Concen: 5.519 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

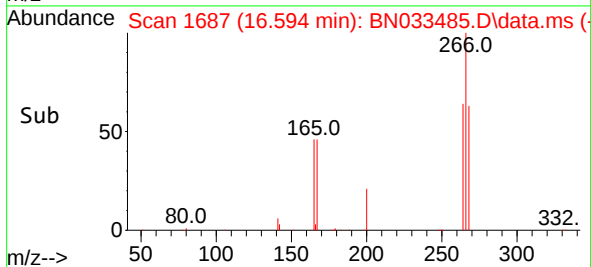
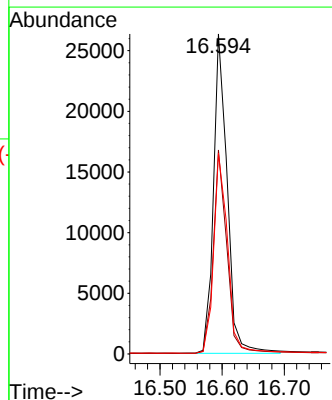
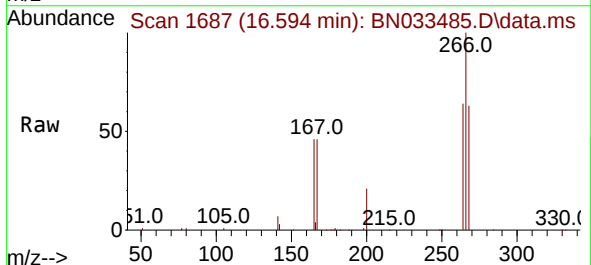
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

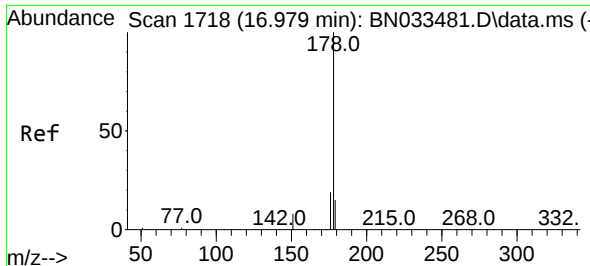
Tgt Ion:200 Resp: 61750
Ion Ratio Lower Upper
200 100
173 33.1 25.3 37.9
215 44.2 36.6 54.8



#24
Pentachlorophenol
Concen: 6.275 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:266 Resp: 40313
Ion Ratio Lower Upper
266 100
264 62.7 51.9 77.9
268 63.8 51.0 76.4

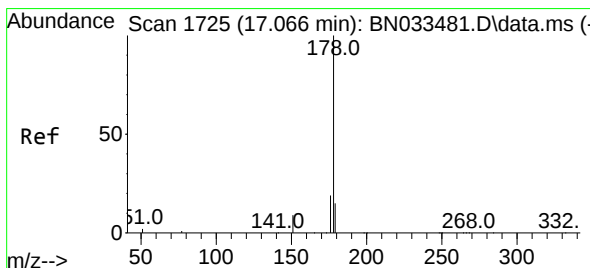
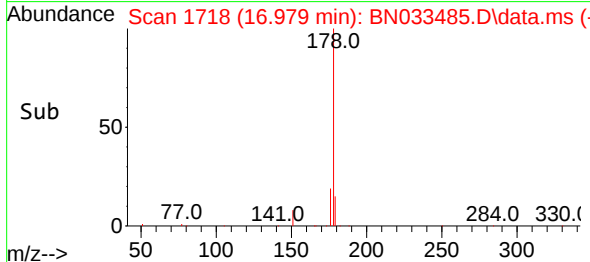
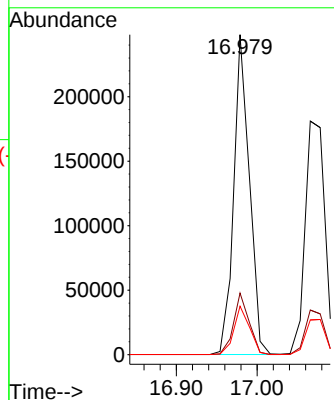
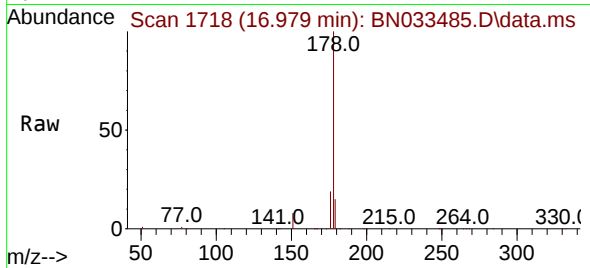




#25
Phenanthrene
Concen: 4.976 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

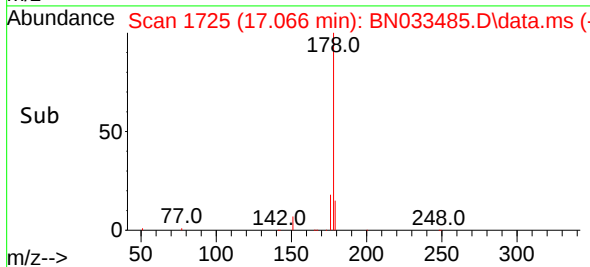
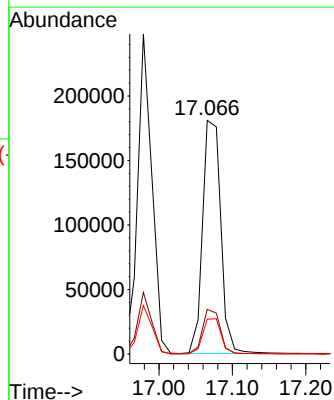
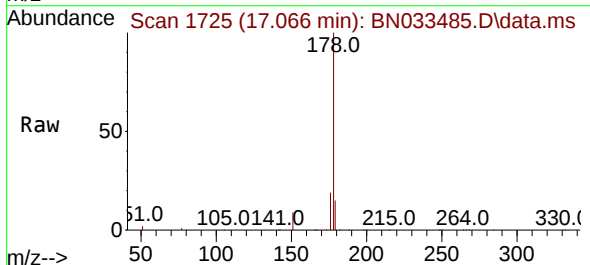
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

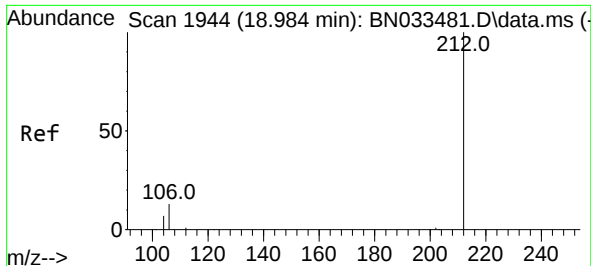
Tgt Ion:178 Resp: 335366
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.3 18.5



#26
Anthracene
Concen: 5.228 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:178 Resp: 311339
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.4 18.6

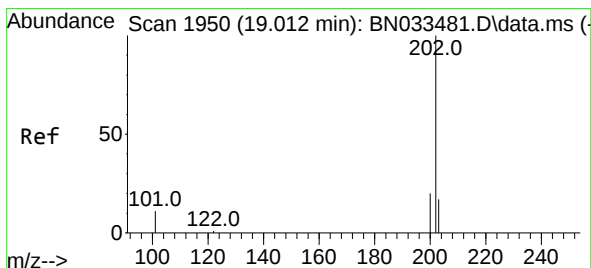
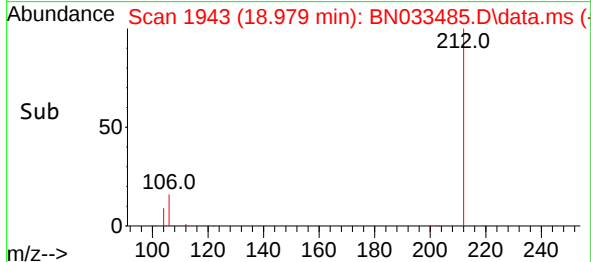
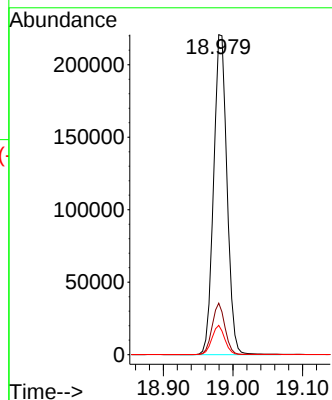
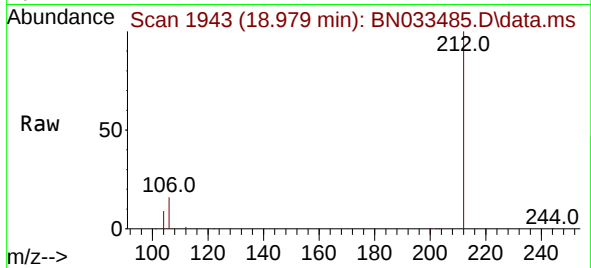




#27
Fluoranthene-d10
Concen: 4.770 ng
RT: 18.979 min Scan# 1943
Delta R.T. -0.005 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

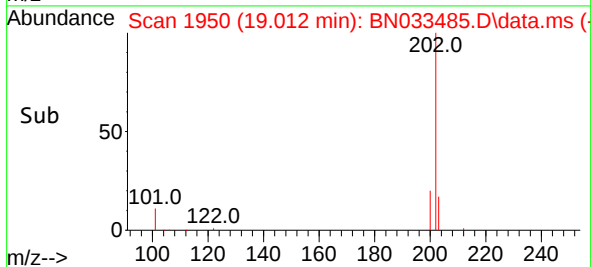
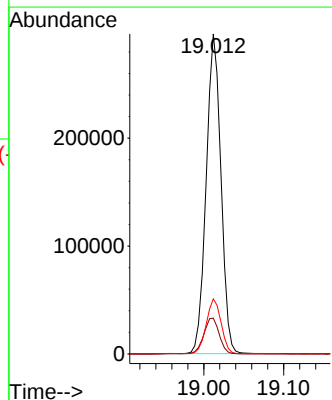
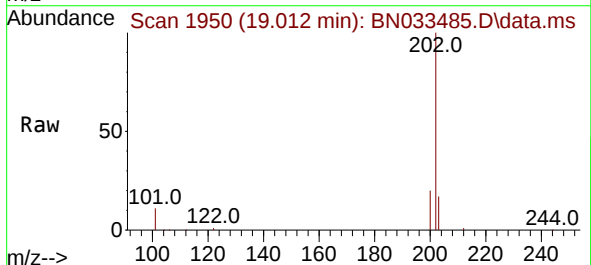
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

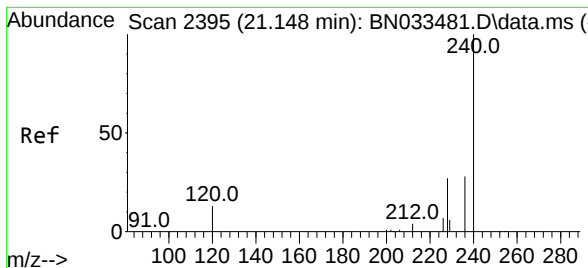
Tgt Ion:212 Resp: 294565
Ion Ratio Lower Upper
212 100
106 15.3 12.3 18.5
104 8.7 7.0 10.4



#28
Fluoranthene
Concen: 4.638 ng
RT: 19.012 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:202 Resp: 379353
Ion Ratio Lower Upper
202 100
101 11.9 9.5 14.3
203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

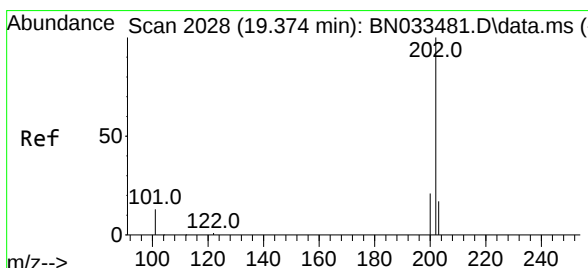
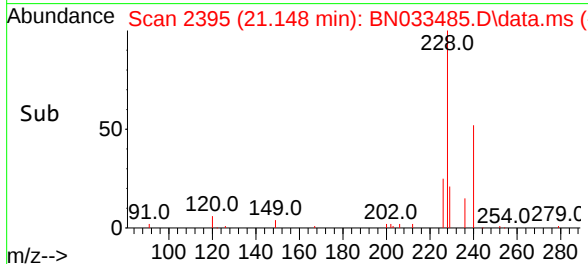
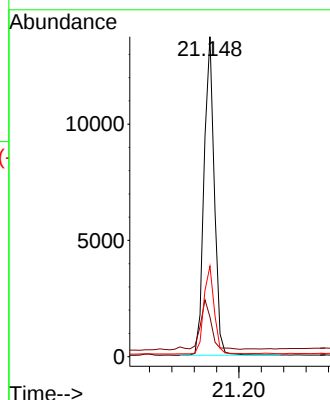
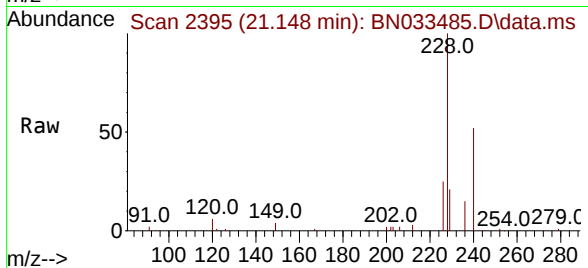
Tgt Ion:240 Resp: 17408

Ion Ratio Lower Upper

240 100

120 12.4 12.4 18.6#

236 28.3 23.0 34.6



#30

Pyrene

Concen: 5.482 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

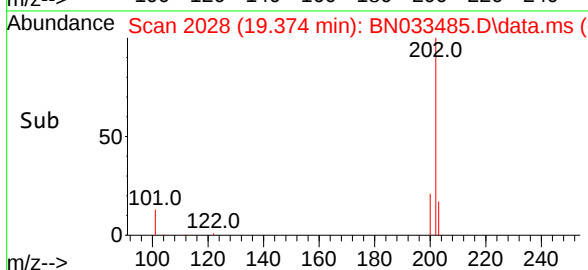
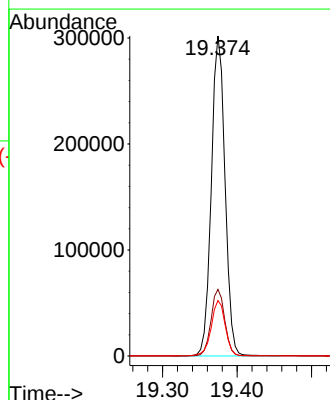
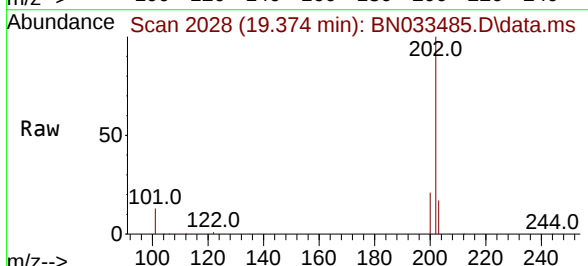
Tgt Ion:202 Resp: 384431

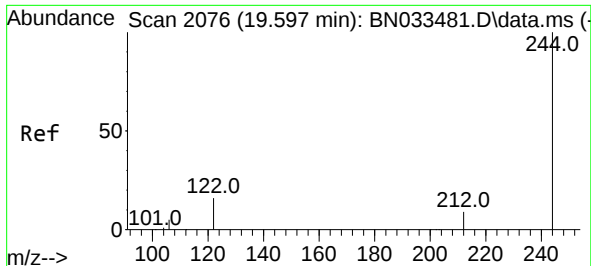
Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

203 17.7 14.2 21.4

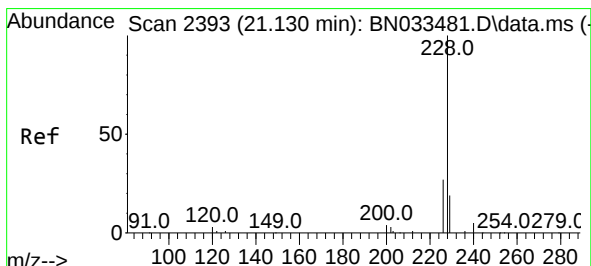
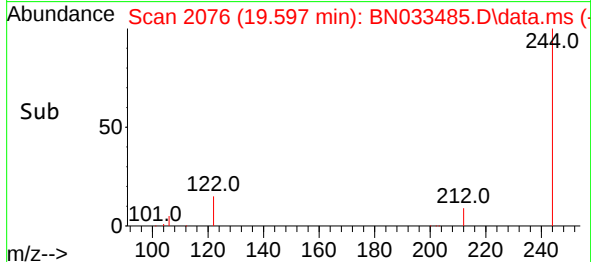
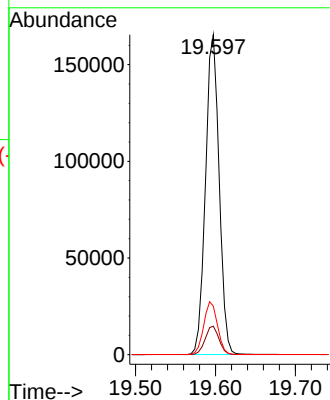
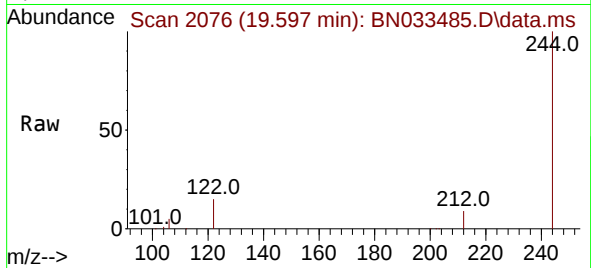




#31
 Terphenyl-d14
 Concen: 5.835 ng
 RT: 19.597 min Scan# 2076
 Delta R.T. -0.000 min
 Lab File: BN033485.D
 Acq: 19 Aug 2024 19:53

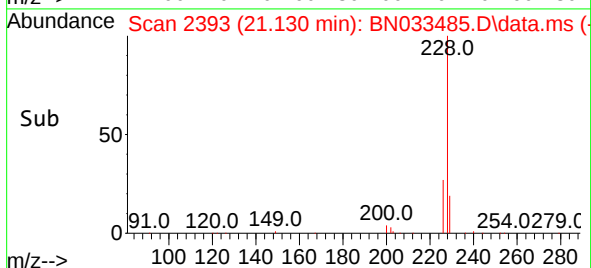
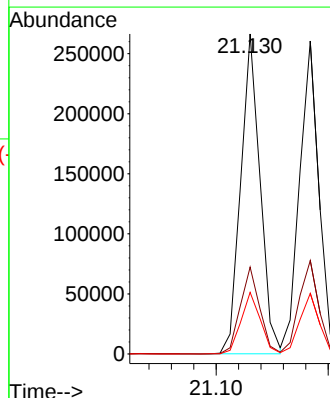
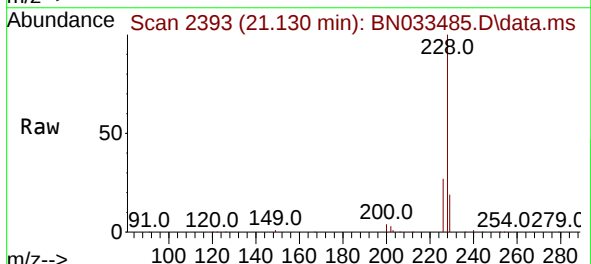
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

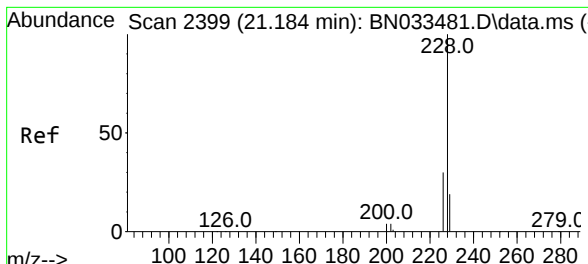
Tgt Ion:244 Resp: 195740
 Ion Ratio Lower Upper
 244 100
 212 8.9 7.8 11.6
 122 15.2 13.3 19.9



#32
 Benzo(a)anthracene
 Concen: 4.958 ng
 RT: 21.130 min Scan# 2393
 Delta R.T. -0.000 min
 Lab File: BN033485.D
 Acq: 19 Aug 2024 19:53

Tgt Ion:228 Resp: 320243
 Ion Ratio Lower Upper
 228 100
 226 27.1 21.8 32.6
 229 19.3 15.8 23.6





#33

Chrysene

Concen: 4.829 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

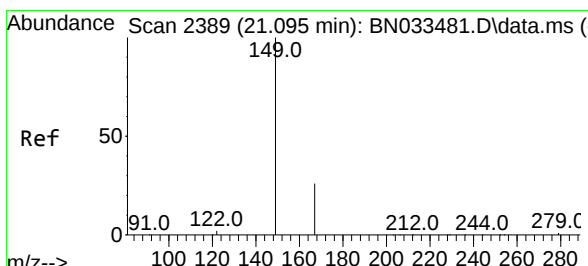
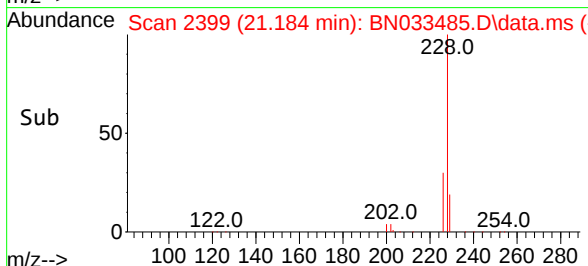
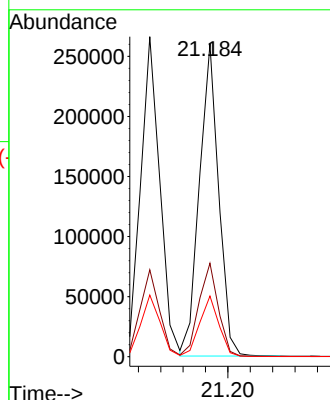
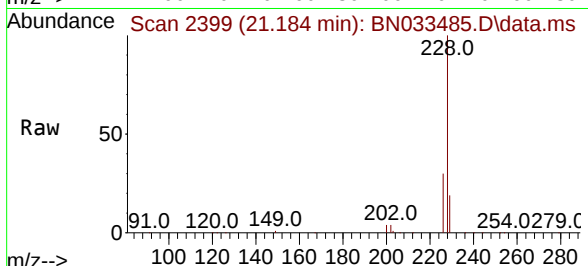
Tgt Ion:228 Resp: 311144

Ion Ratio Lower Upper

228 100

226 29.9 23.8 35.8

229 19.4 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 6.264 ng

RT: 21.094 min Scan# 2389

Delta R.T. -0.000 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

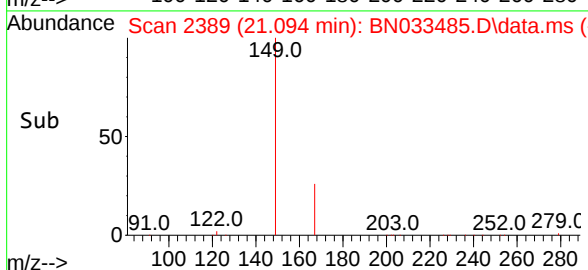
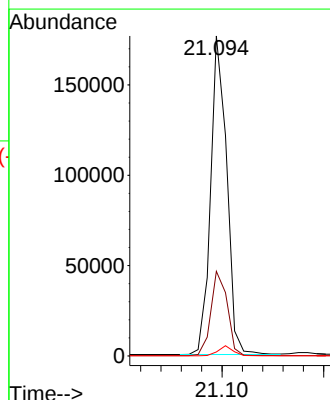
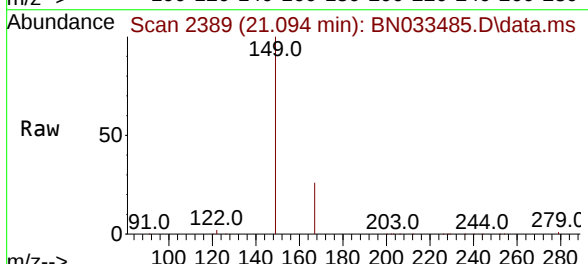
Tgt Ion:149 Resp: 193548

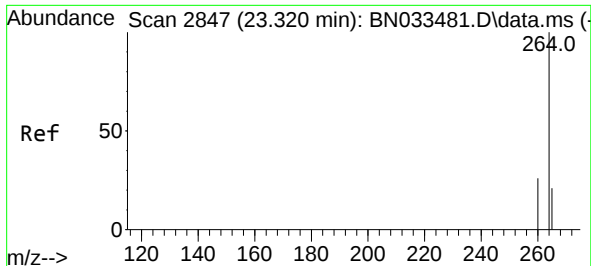
Ion Ratio Lower Upper

149 100

167 26.9 21.5 32.3

279 2.9 2.2 3.2



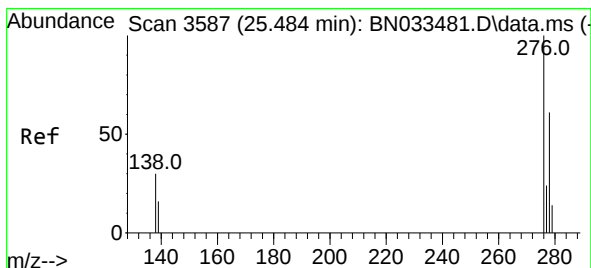
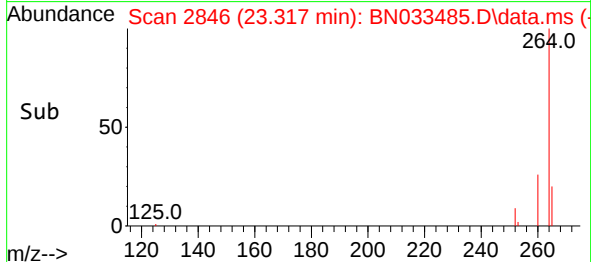
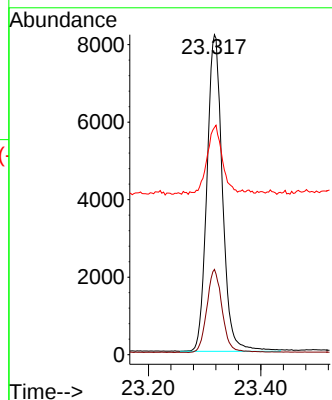
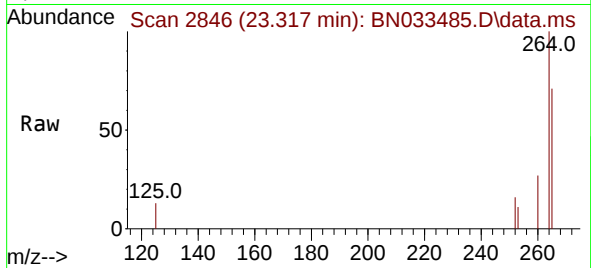


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 15627

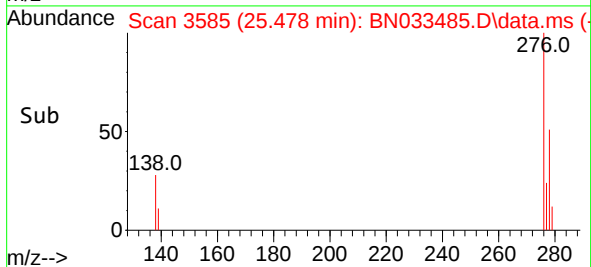
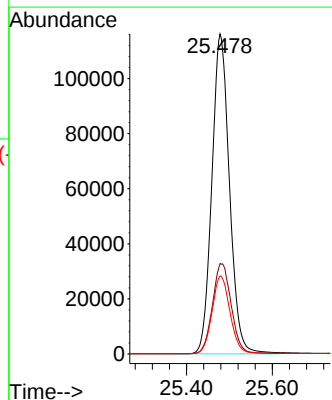
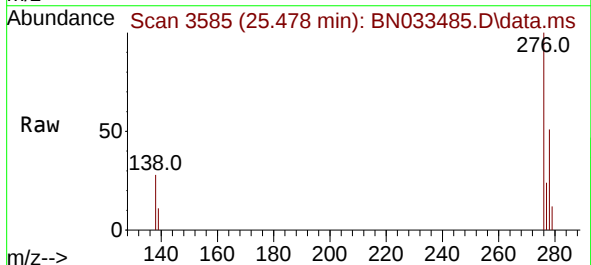
Ion	Ratio	Lower	Upper
264	100		
260	26.7	20.8	31.2
265	71.0	52.2	78.2

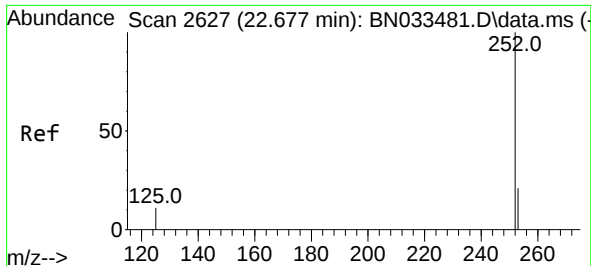


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.109 ng
RT: 25.478 min Scan# 3585
Delta R.T. -0.006 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:276 Resp: 330983

Ion	Ratio	Lower	Upper
276	100		
138	30.0	24.4	36.6
277	24.8	19.8	29.6

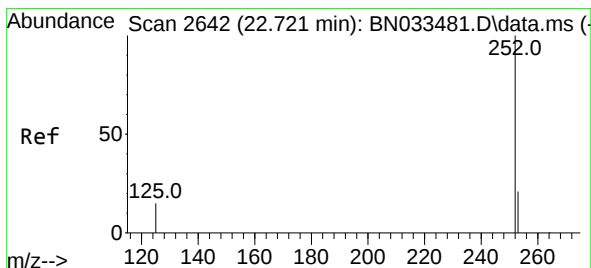
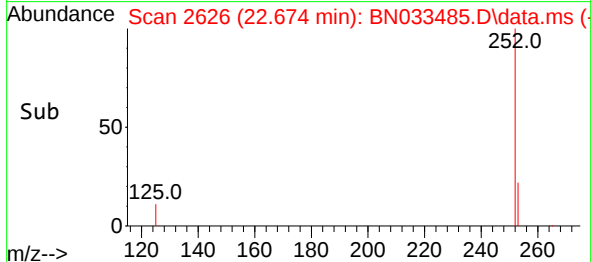
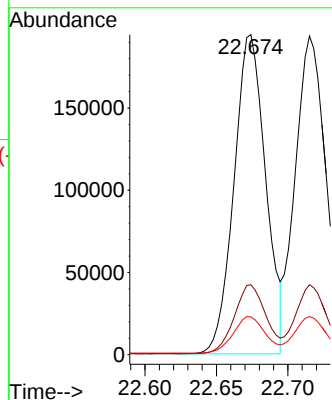
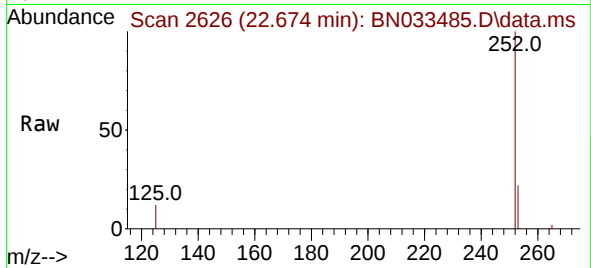




#37
Benzo(b)fluoranthene
Concen: 5.133 ng
RT: 22.674 min Scan# 2626
Delta R.T. -0.003 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

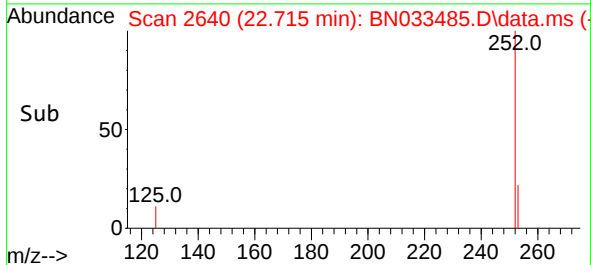
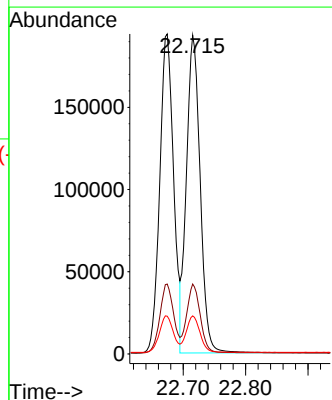
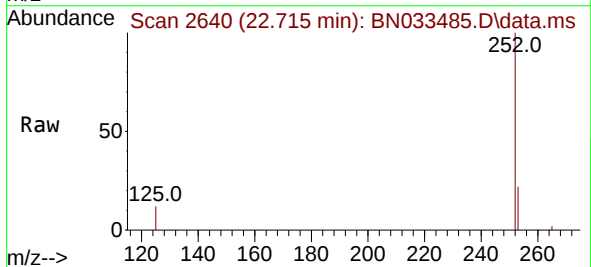
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

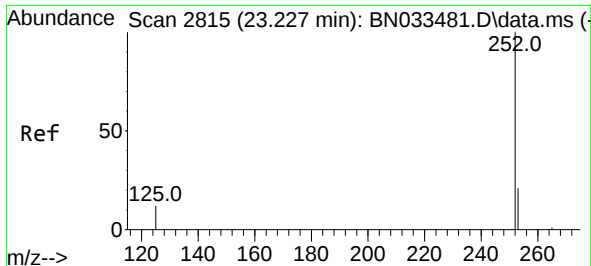
Tgt Ion:252 Resp: 299478
Ion Ratio Lower Upper
252 100
253 21.8 19.8 29.8
125 11.8 13.9 20.9#



#38
Benzo(k)fluoranthene
Concen: 4.997 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033485.D
Acq: 19 Aug 2024 19:53

Tgt Ion:252 Resp: 295429
Ion Ratio Lower Upper
252 100
253 22.0 19.8 29.8
125 12.0 15.8 23.8#





#39

Benzo(a)pyrene

Concen: 5.121 ng

RT: 23.224 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

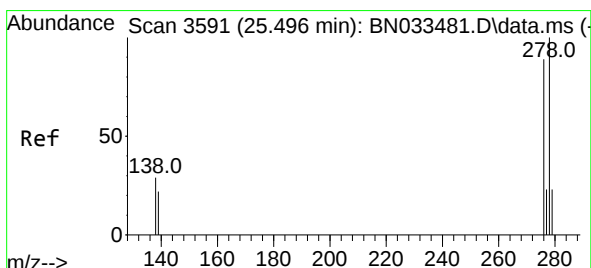
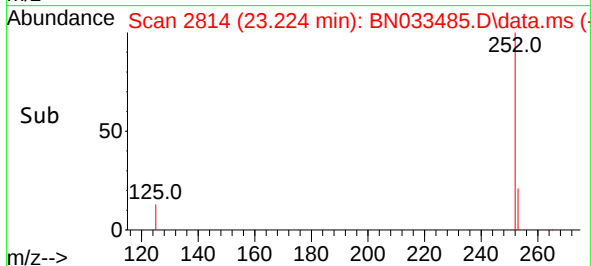
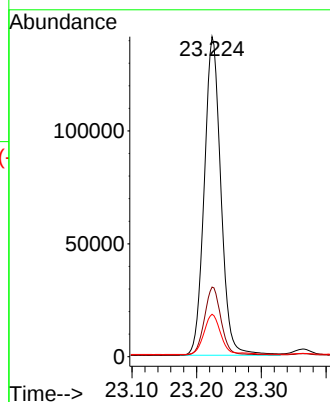
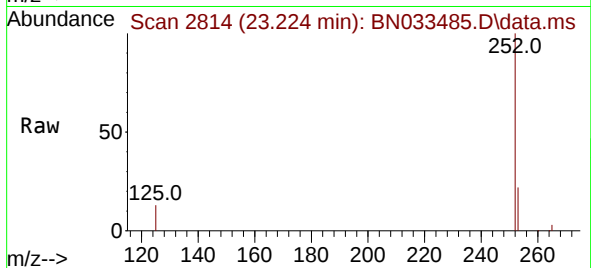
Tgt Ion:252 Resp: 251984

Ion Ratio Lower Upper

252 100

253 21.7 21.5 32.3

125 13.3 17.0 25.4#



#40

Dibenzo(a,h)anthracene

Concen: 5.151 ng

RT: 25.493 min Scan# 3590

Delta R.T. -0.003 min

Lab File: BN033485.D

Acq: 19 Aug 2024 19:53

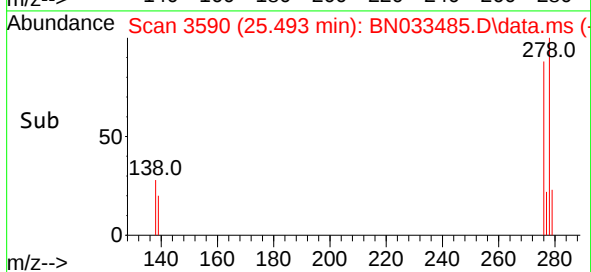
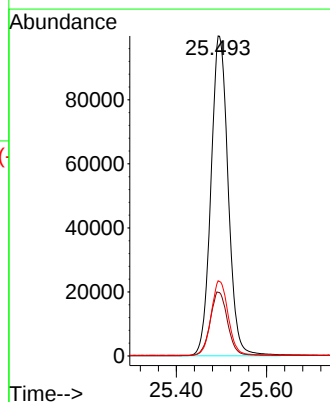
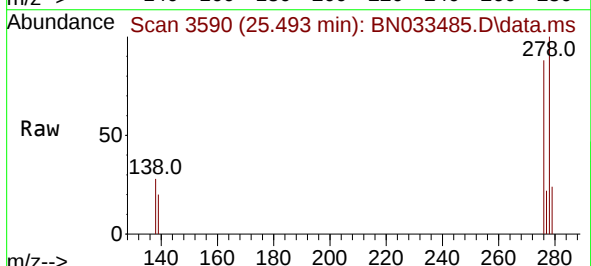
Tgt Ion:278 Resp: 264087

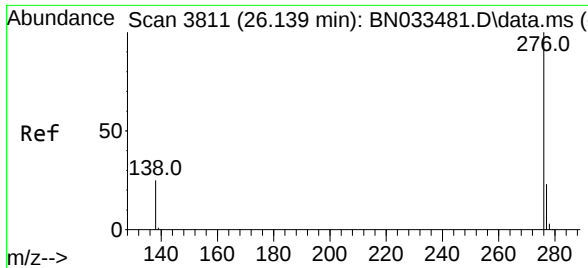
Ion Ratio Lower Upper

278 100

139 19.9 19.1 28.7

279 23.5 21.0 31.4

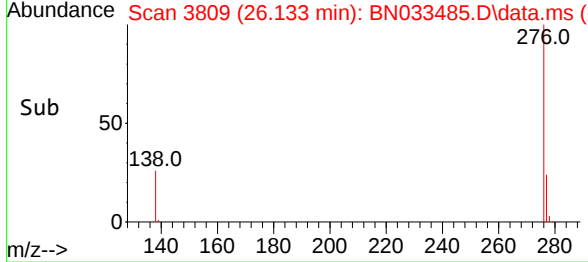
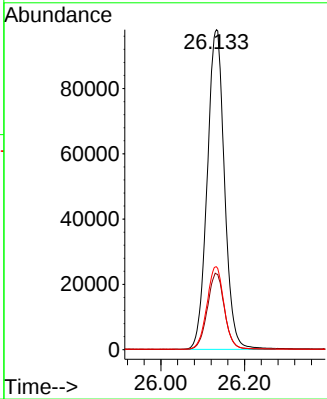
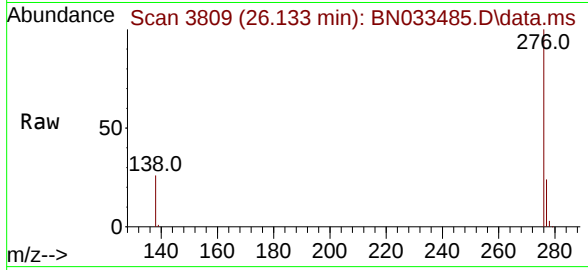




#41
 Benzo(g,h,i)perylene
 Concen: 4.978 ng
 RT: 26.133 min Scan# 3809
 Delta R.T. -0.006 min
 Lab File: BN033485.D
 Acq: 19 Aug 2024 19:53

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Tgt Ion:	276	Resp:	280592
Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.7	29.5
138	25.9	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033486.D
 Acq On : 20 Aug 2024 01:56
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081924

Quant Time: Aug 20 02:44:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

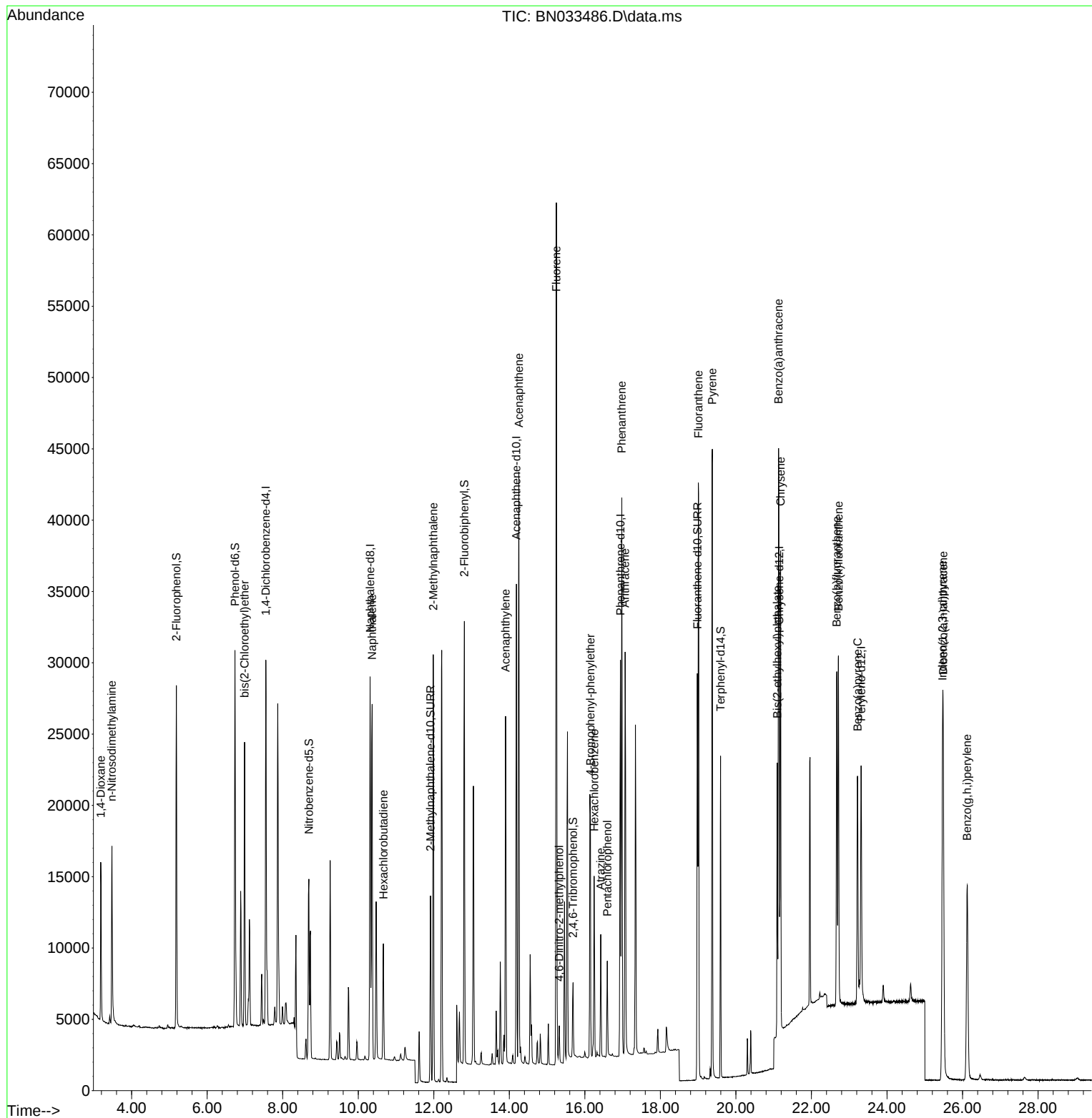
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	12026	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	33045	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	17848	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	35827	0.400	ng	0.00
29) Chrysene-d12	21.148	240	21483	0.400	ng	# 0.00
35) Perylene-d12	23.314	264	20739	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	17640	0.462	ng	0.00
5) Phenol-d6	6.736	99	22583	0.497	ng	0.00
8) Nitrobenzene-d5	8.691	82	9916	0.362	ng	0.00
11) 2-Methylnaphthalene-d10	11.915	152	17348	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	3037	0.317	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	26095	0.358	ng	0.00
27) Fluoranthene-d10	18.980	212	29700	0.345	ng	0.00
31) Terphenyl-d14	19.593	244	19462	0.399	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.183	88	6628	0.479	ng	99
3) n-Nitrosodimethylamine	3.479	42	7119	0.442	ng	99
6) bis(2-Chloroethyl)ether	6.989	93	13027	0.404	ng	100
9) Naphthalene	10.368	128	32687	0.370	ng	99
10) Hexachlorobutadiene	10.667	225	6415	0.364	ng	# 99
12) 2-Methylnaphthalene	11.986	142	20730	0.371	ng	99
16) Acenaphthylene	13.900	152	26801	0.342	ng	100
17) Acenaphthene	14.253	154	19654	0.357	ng	99
18) Fluorene	15.247	166	24565	0.354	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	1803	0.322	ng	# 82
21) 4-Bromophenyl-phenylether	16.147	248	7966	0.366	ng	94
22) Hexachlorobenzene	16.247	284	9039	0.376	ng	99
23) Atrazine	16.420	200	5969	0.344	ng	98
24) Pentachlorophenol	16.594	266	3006	0.289	ng	98
25) Phenanthrene	16.979	178	37016	0.371	ng	100
26) Anthracene	17.066	178	31155	0.353	ng	99
28) Fluoranthene	19.007	202	38365	0.348	ng	100
30) Pyrene	19.374	202	38735	0.404	ng	100
32) Benzo(a)anthracene	21.130	228	28298	0.364	ng	99
33) Chrysene	21.184	228	28782	0.373	ng	99
34) Bis(2-ethylhexyl)phtha...	21.095	149	15827	0.322	ng	99
36) Indeno(1,2,3-cd)pyrene	25.472	276	31883	0.370	ng	99
37) Benzo(b)fluoranthene	22.671	252	27618	0.357	ng	98
38) Benzo(k)fluoranthene	22.715	252	28035	0.368	ng	99
39) Benzo(a)pyrene	23.221	252	22480	0.351	ng	97
40) Dibenzo(a,h)anthracene	25.490	278	25600	0.372	ng	99
41) Benzo(g,h,i)perylene	26.124	276	26587	0.361	ng	100

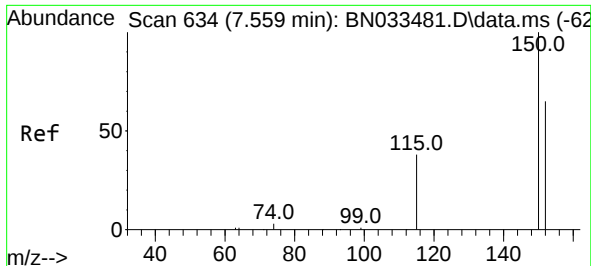
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033486.D
Acq On : 20 Aug 2024 01:56
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

Quant Time: Aug 20 02:44:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

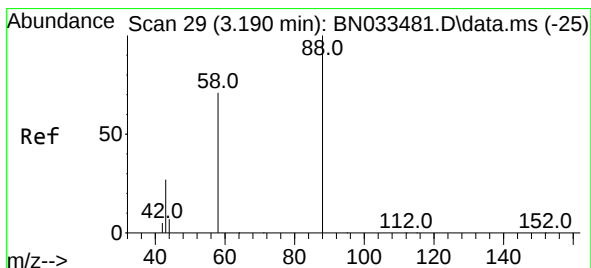
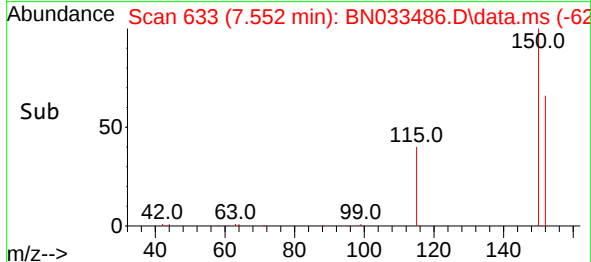
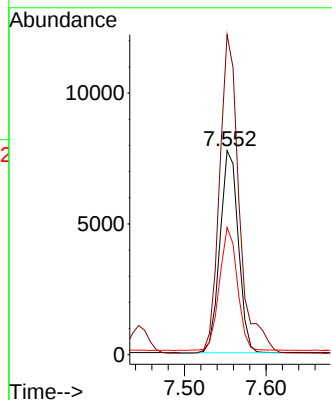
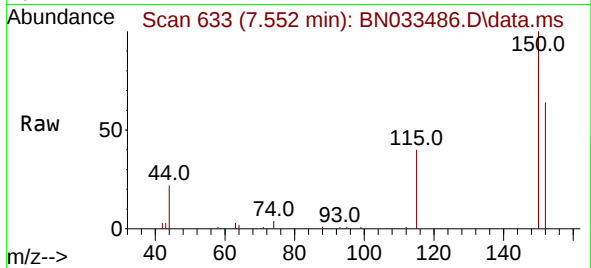




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.552 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

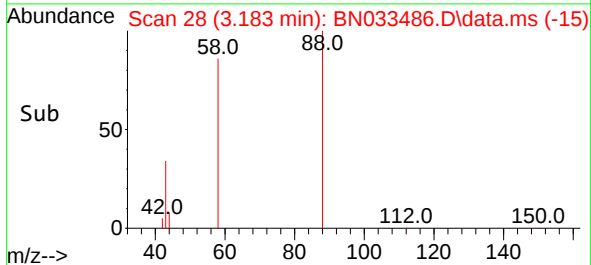
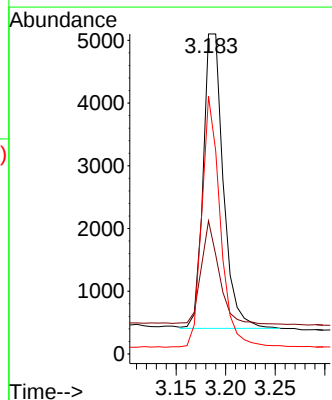
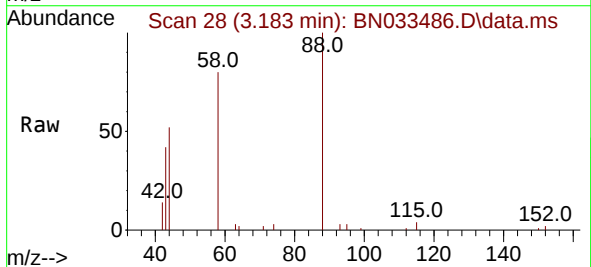
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

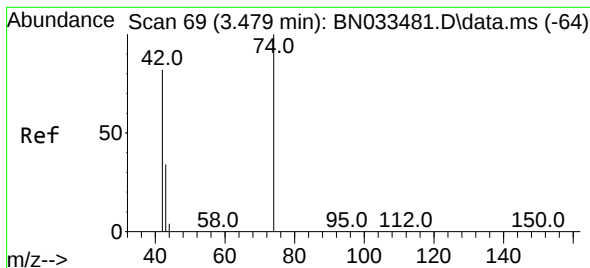
Tgt Ion:152 Resp: 12026
Ion Ratio Lower Upper
152 100
150 156.7 122.2 183.2
115 62.3 47.2 70.8



#2
1,4-Dioxane
Concen: 0.479 ng
RT: 3.183 min Scan# 28
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion: 88 Resp: 6628
Ion Ratio Lower Upper
88 100
43 30.9 25.0 37.4
58 78.5 62.5 93.7

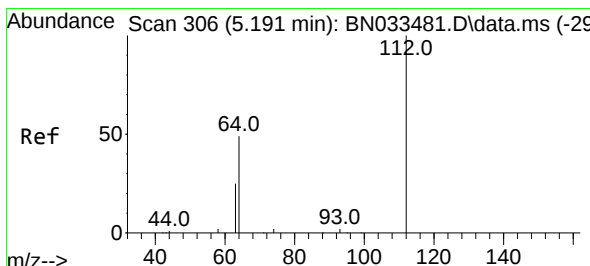
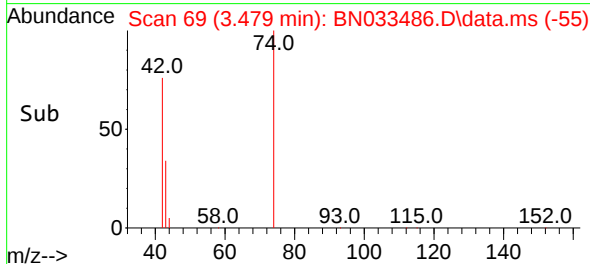
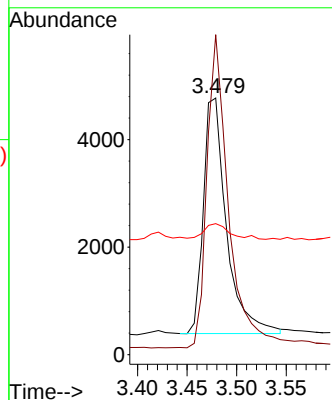
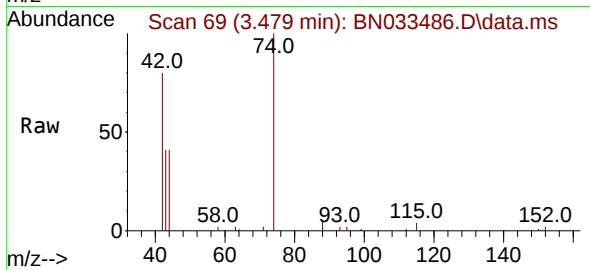




#3
 n-Nitrosodimethylamine
 Concen: 0.442 ng
 RT: 3.479 min Scan# 69
 Delta R.T. -0.000 min
 Lab File: BN033486.D
 Acq: 20 Aug 2024 01:56

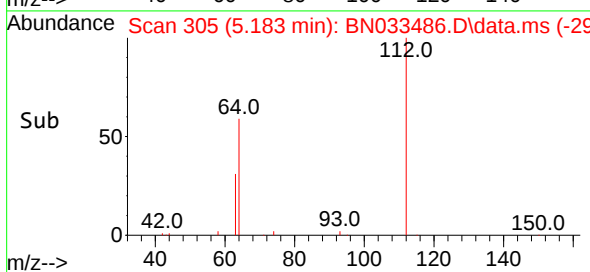
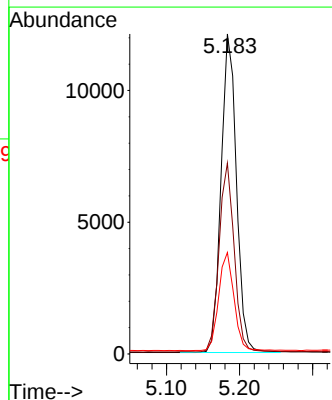
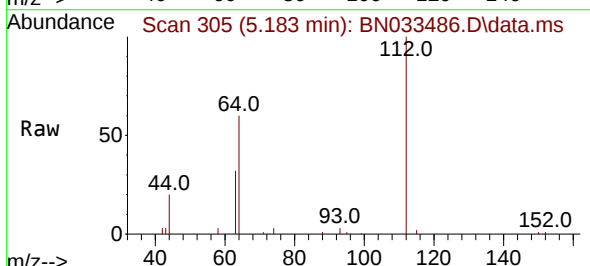
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081924

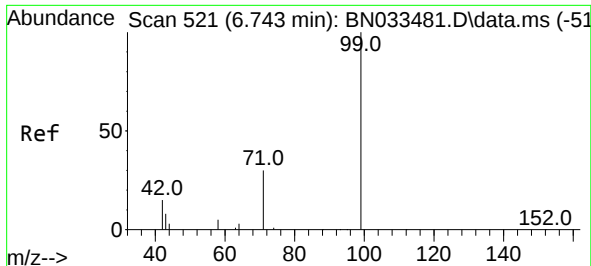
Tgt Ion: 42 Resp: 7119
 Ion Ratio Lower Upper
 42 100
 74 123.8 100.2 150.2
 44 7.5 5.3 7.9



#4
 2-Fluorophenol
 Concen: 0.462 ng
 RT: 5.183 min Scan# 305
 Delta R.T. -0.007 min
 Lab File: BN033486.D
 Acq: 20 Aug 2024 01:56

Tgt Ion: 112 Resp: 17640
 Ion Ratio Lower Upper
 112 100
 64 58.4 47.1 70.7
 63 30.6 24.9 37.3

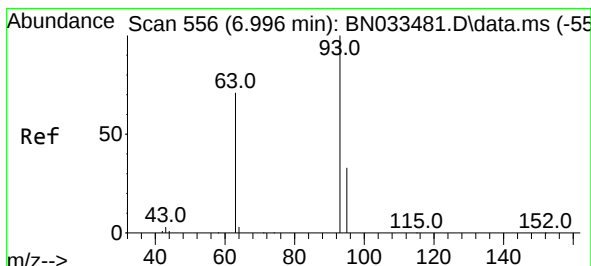
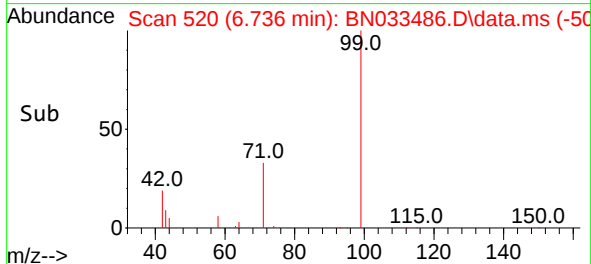
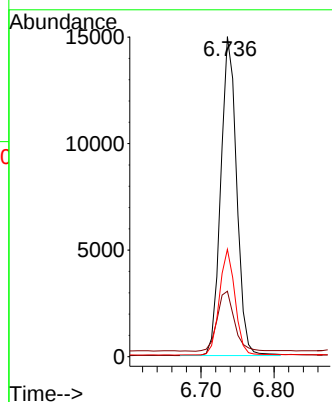
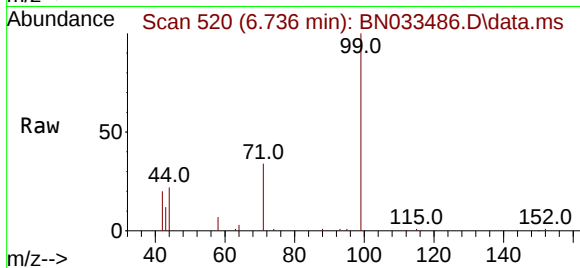




#5
Phenol-d6
Concen: 0.497 ng
RT: 6.736 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

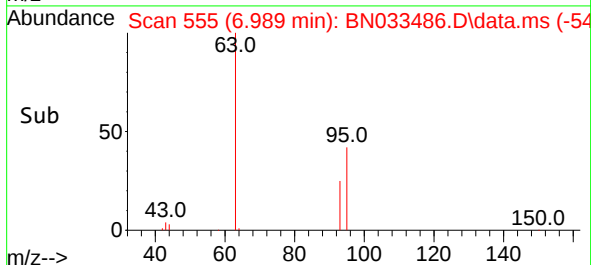
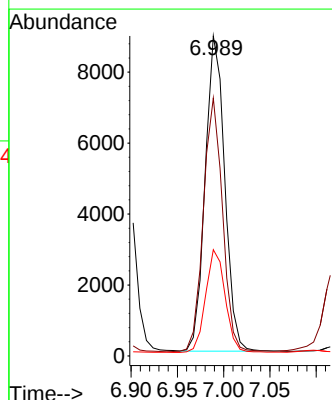
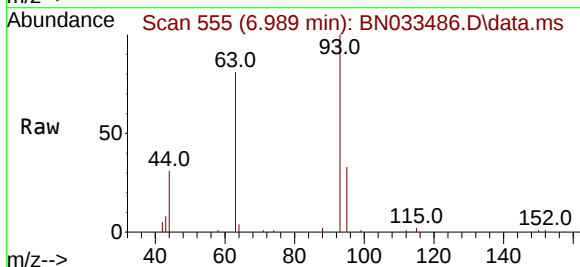
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

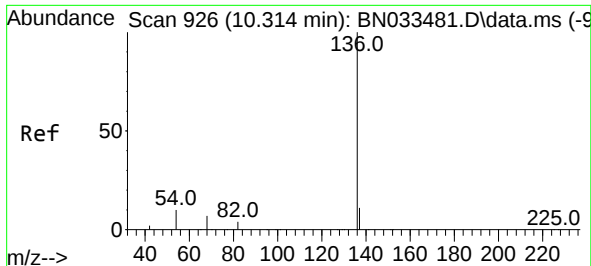
Tgt Ion: 99 Resp: 22583
Ion Ratio Lower Upper
99 100
42 20.4 16.6 24.8
71 32.6 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion: 93 Resp: 13027
Ion Ratio Lower Upper
93 100
63 78.8 63.0 94.4
95 32.6 26.0 39.0

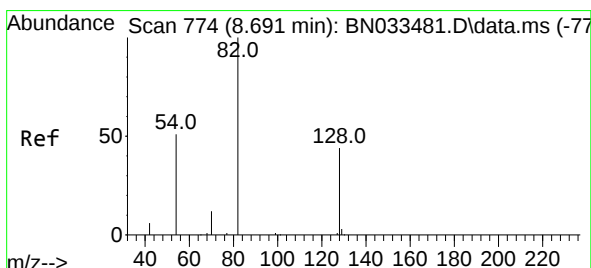
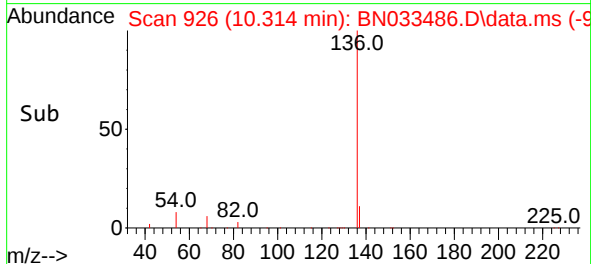
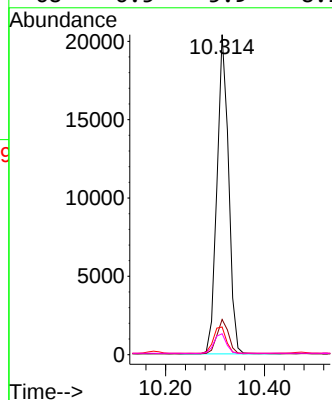
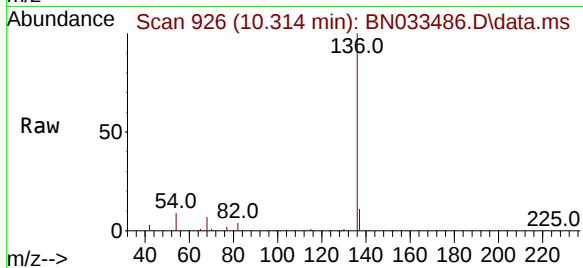




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

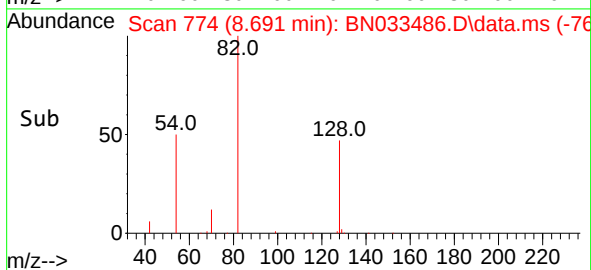
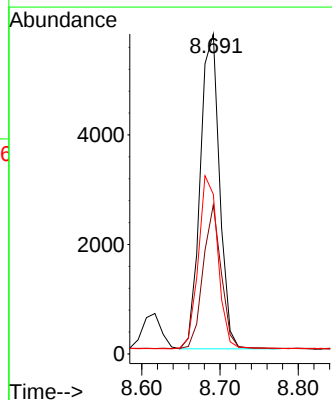
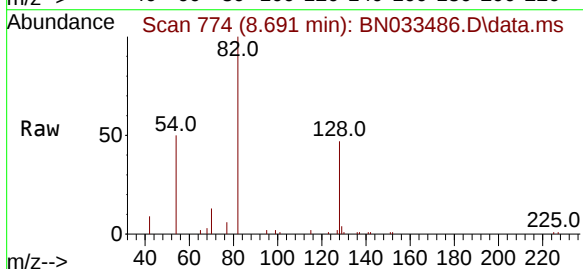
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

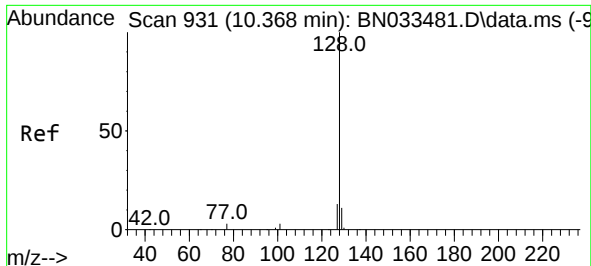
Tgt Ion:	136	Resp:	33045
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.6
54	8.6	8.3	12.5
68	6.5	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:	82	Resp:	9916
Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.0	54.0
54	49.9	42.0	63.0

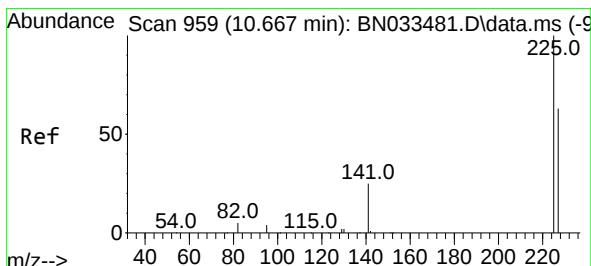
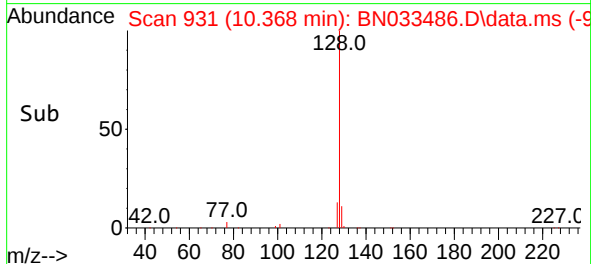
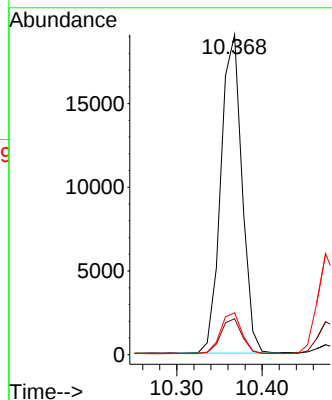
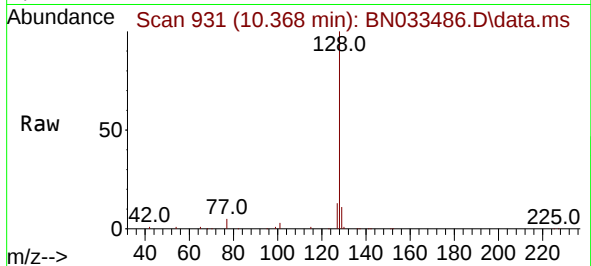




#9
Naphthalene
Concen: 0.370 ng
RT: 10.368 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

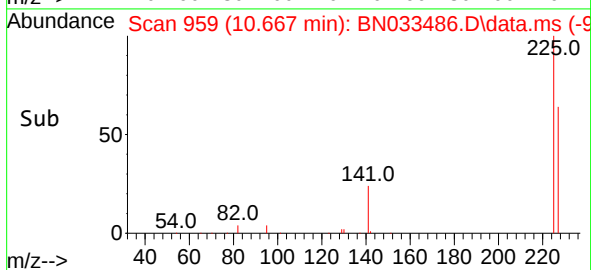
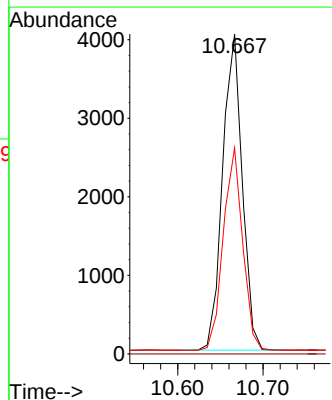
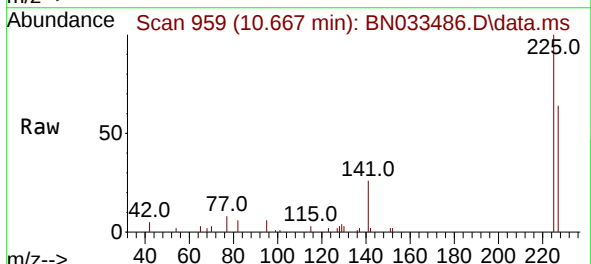
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

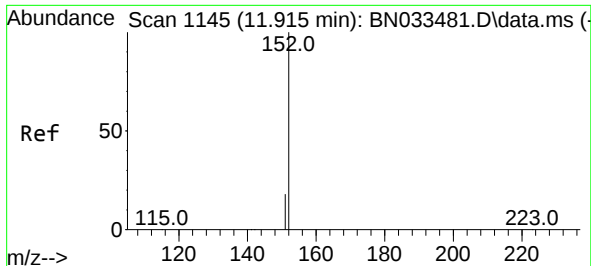
Tgt Ion:128 Resp: 32687
Ion Ratio Lower Upper
128 100
129 11.3 9.1 13.7
127 13.1 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.364 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:225 Resp: 6415
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 51.2 76.8

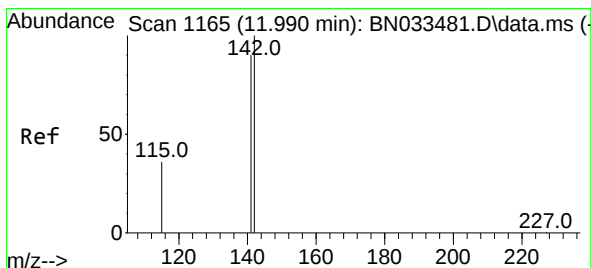
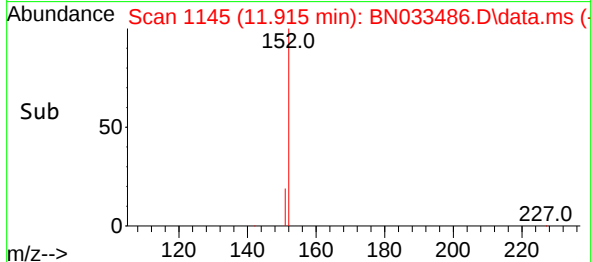
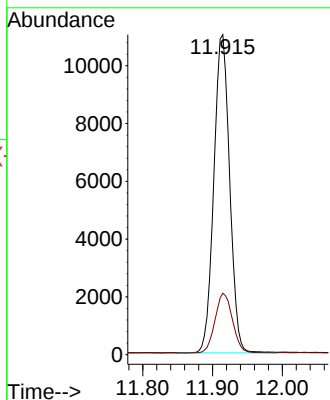
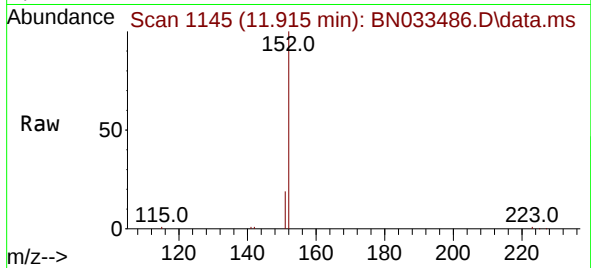




#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.915 min Scan# 1145
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

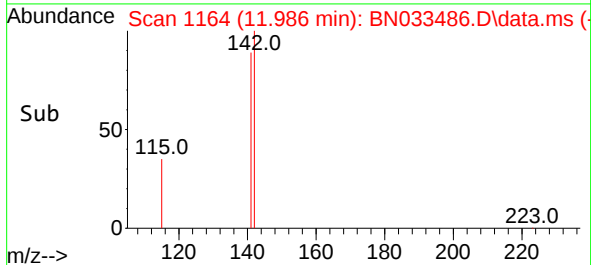
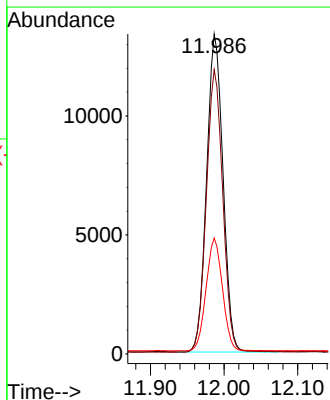
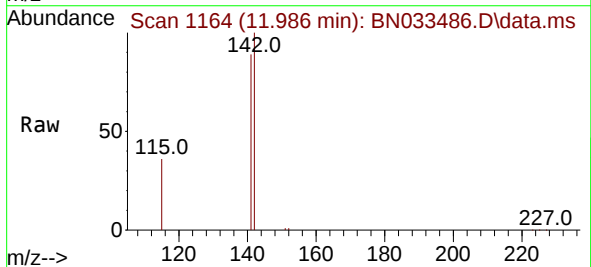
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

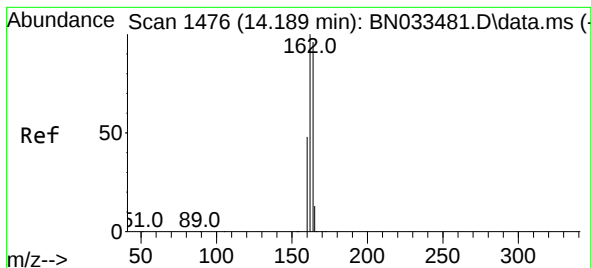
Tgt Ion:152 Resp: 17348
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.986 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:142 Resp: 20730
Ion Ratio Lower Upper
142 100
141 88.9 71.7 107.5
115 36.2 29.4 44.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.189 min Scan# 1476

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

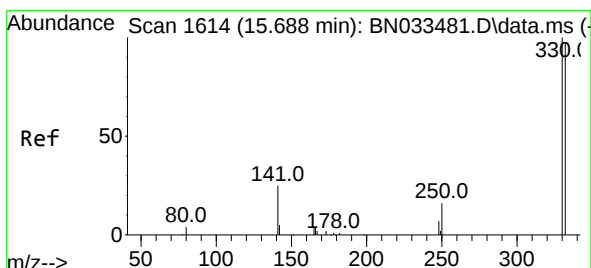
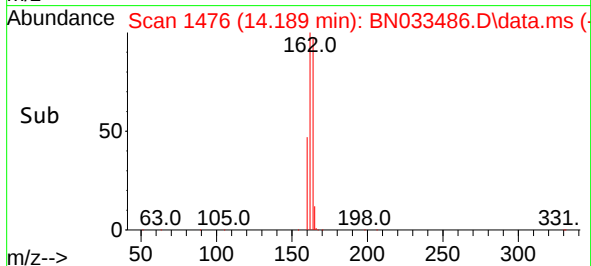
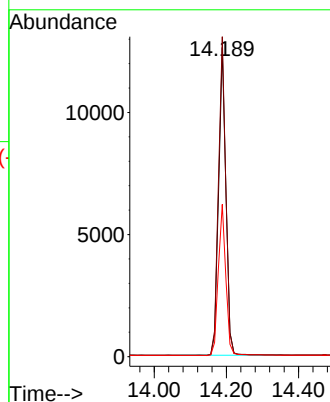
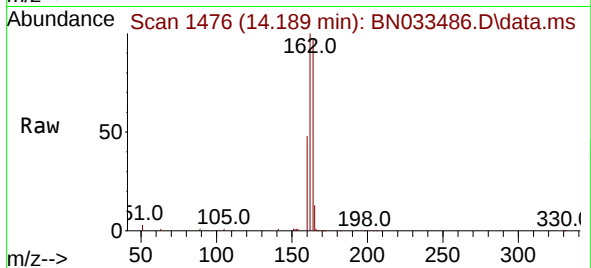
Tgt Ion:164 Resp: 17848

Ion Ratio Lower Upper

164 100

162 103.5 83.5 125.3

160 49.3 40.2 60.4



#14

2,4,6-Tribromophenol

Concen: 0.317 ng

RT: 15.688 min Scan# 1614

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

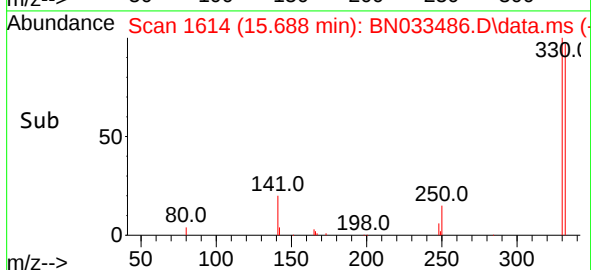
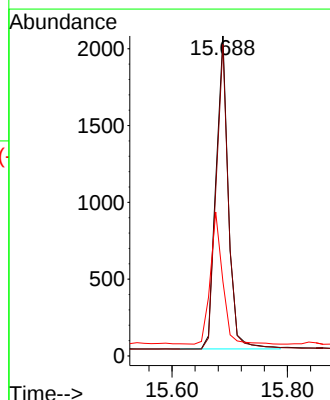
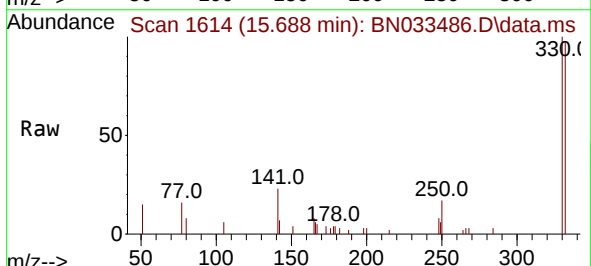
Tgt Ion:330 Resp: 3037

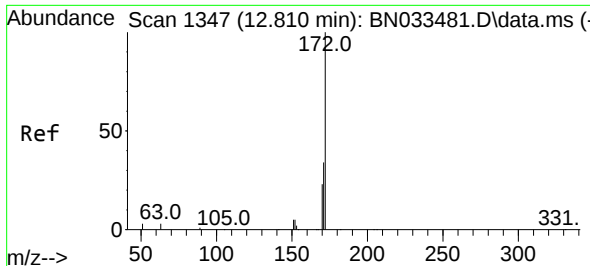
Ion Ratio Lower Upper

330 100

332 96.9 77.5 116.3

141 41.8 33.9 50.9

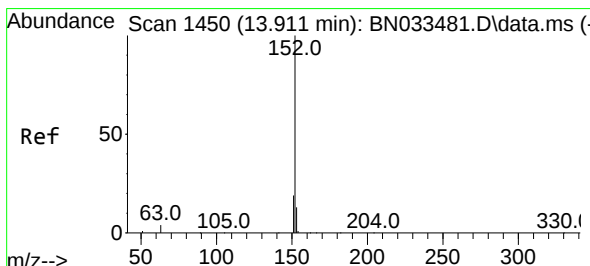
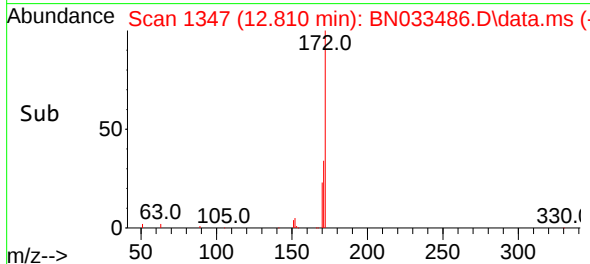
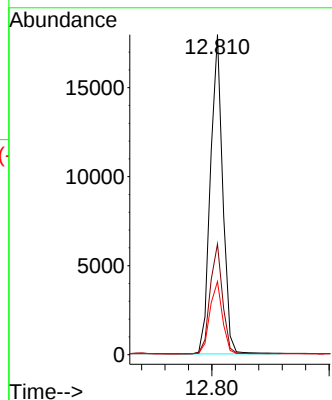
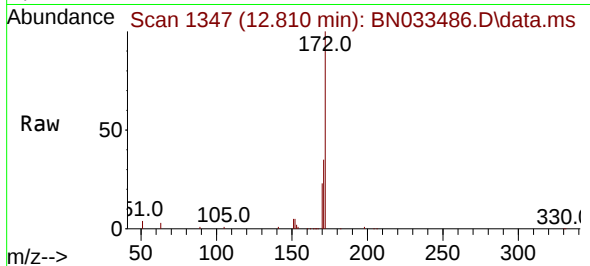




#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.810 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

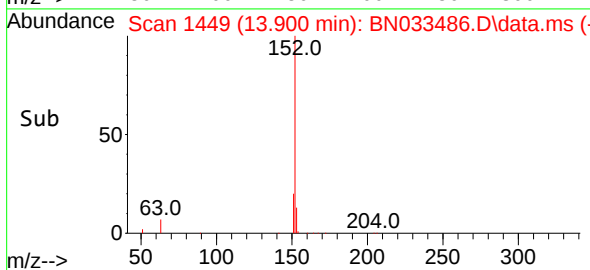
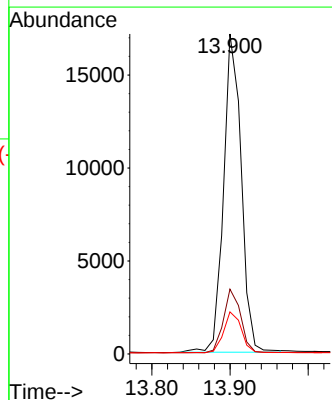
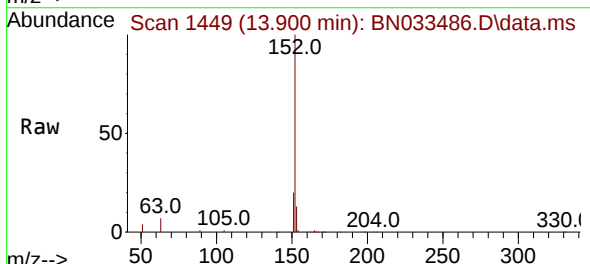
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

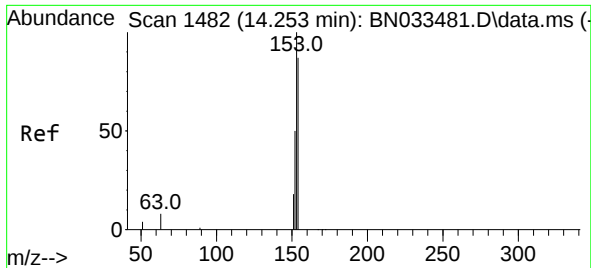
Tgt Ion:172 Resp: 26095
Ion Ratio Lower Upper
172 100
171 34.6 27.7 41.5
170 22.8 18.3 27.5



#16
Acenaphthylene
Concen: 0.342 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:152 Resp: 26801
Ion Ratio Lower Upper
152 100
151 19.5 15.7 23.5
153 12.8 10.3 15.5

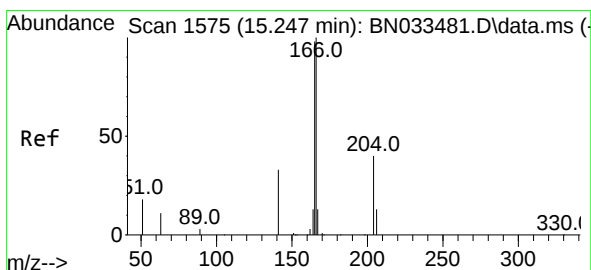
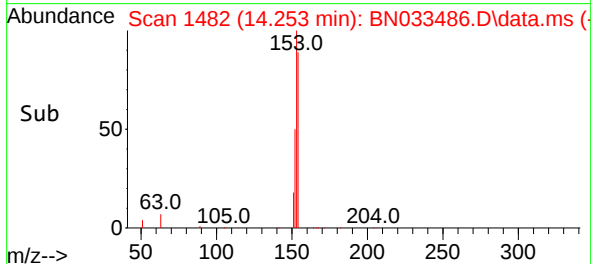
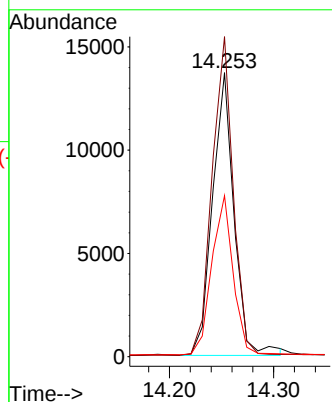
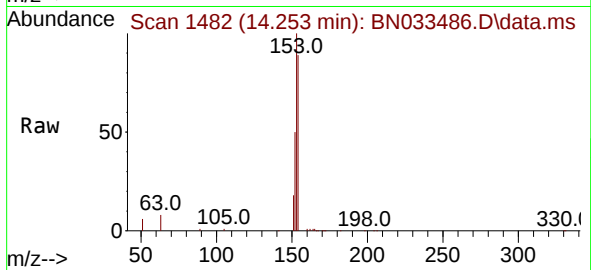




#17
Acenaphthene
Concen: 0.357 ng
RT: 14.253 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

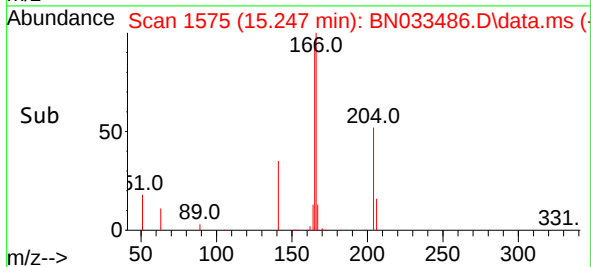
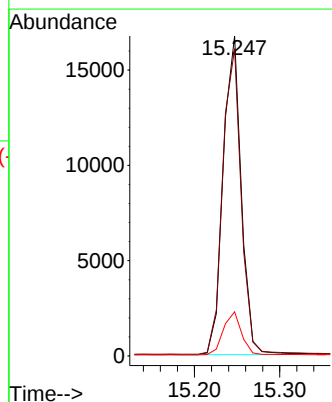
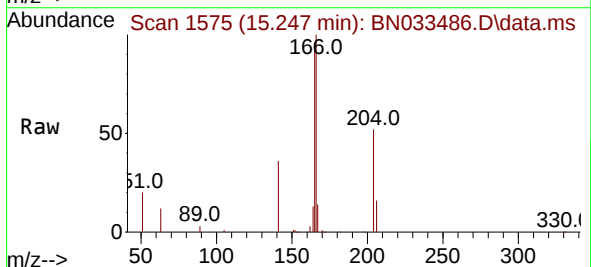
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

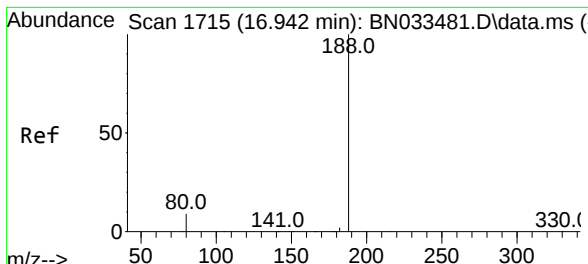
Tgt Ion:154 Resp: 19654
Ion Ratio Lower Upper
154 100
153 110.4 89.0 133.6
152 55.9 45.2 67.8



#18
Fluorene
Concen: 0.354 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:166 Resp: 24565
Ion Ratio Lower Upper
166 100
165 97.9 78.2 117.4
167 13.5 10.6 16.0

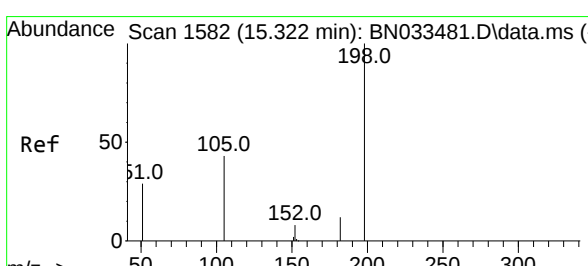
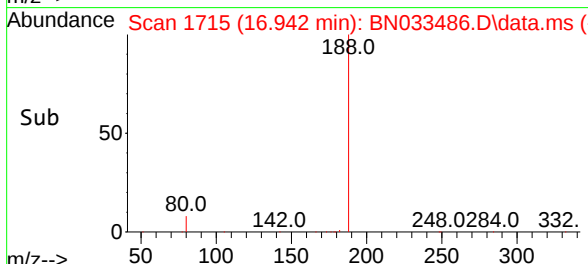
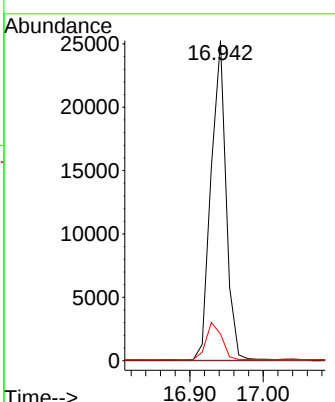
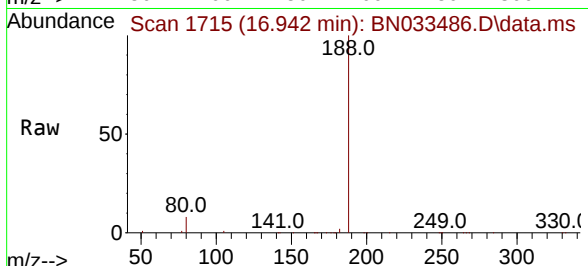




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.942 min Scan# 1715
 Delta R.T. -0.000 min
 Lab File: BN033486.D
 Acq: 20 Aug 2024 01:56

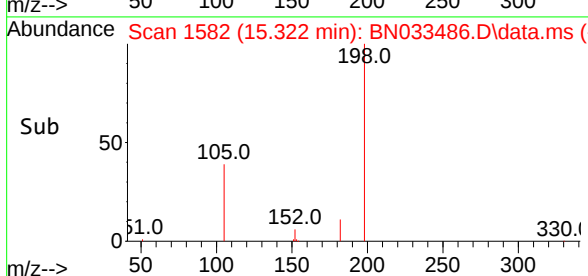
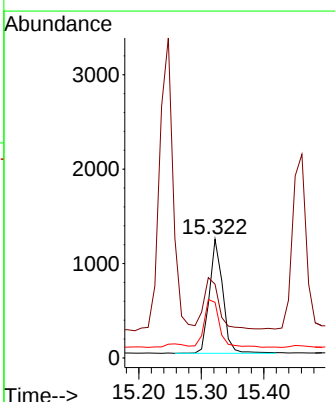
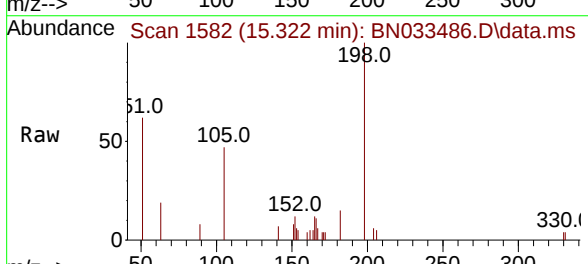
Instrument : BNA_N
 ClientSampleId : ICVBN081924

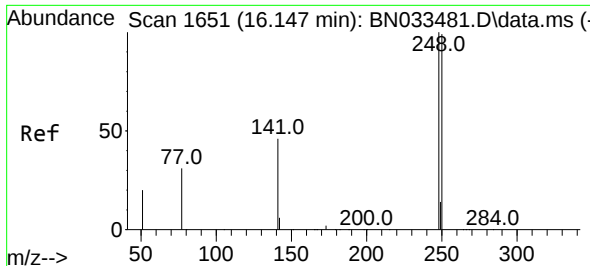
Tgt Ion:	188	Resp:	35827
Ion Ratio	100	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	7.8	11.8



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.322 ng
 RT: 15.322 min Scan# 1582
 Delta R.T. -0.000 min
 Lab File: BN033486.D
 Acq: 20 Aug 2024 01:56

Tgt Ion:	198	Resp:	1803
Ion Ratio	100	Lower	Upper
198	100		
51	62.1	65.1	97.7
105	46.9	44.8	67.2

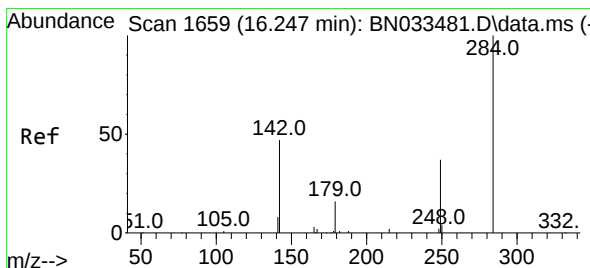
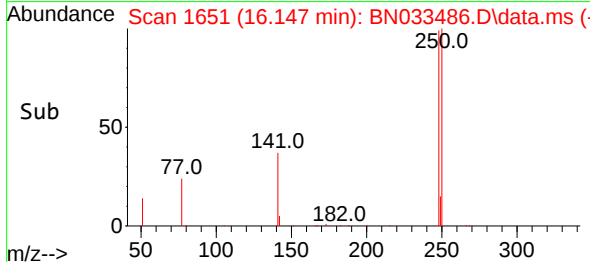
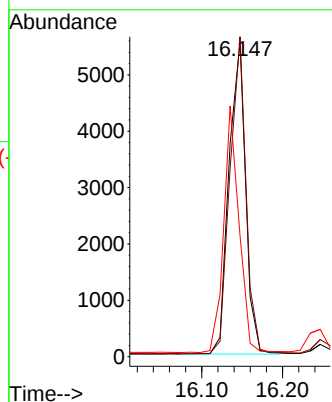
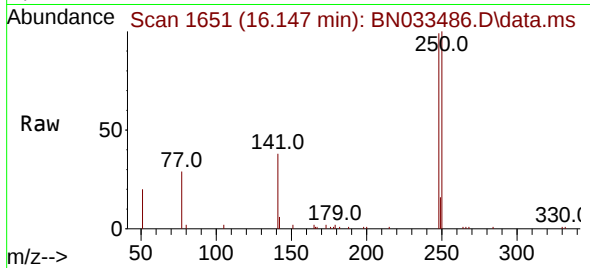




#21
4-Bromophenyl-phenylether
Concen: 0.366 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

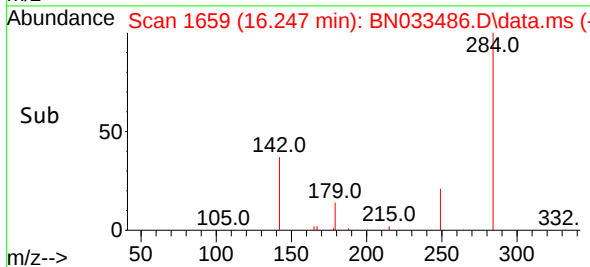
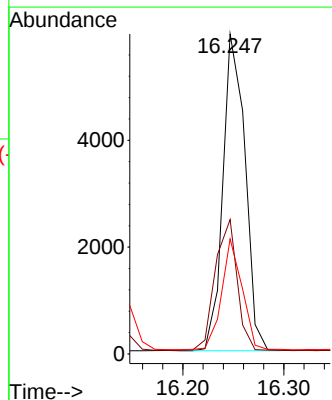
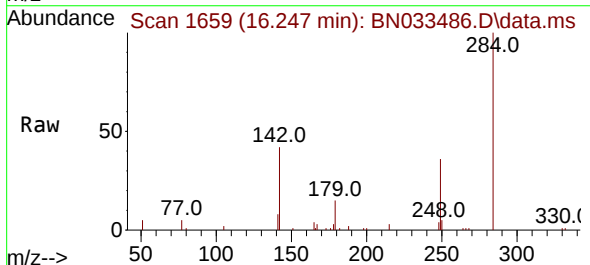
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

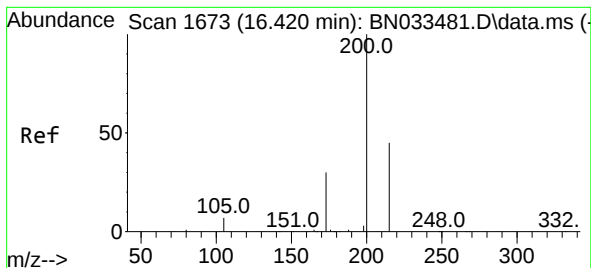
Tgt Ion:248 Resp: 7966
Ion Ratio Lower Upper
248 100
250 101.5 79.2 118.8
141 38.3 37.9 56.9



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:284 Resp: 9039
Ion Ratio Lower Upper
284 100
142 40.7 31.8 47.6
249 32.2 26.0 39.0





#23

Atrazine

Concen: 0.344 ng

RT: 16.420 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

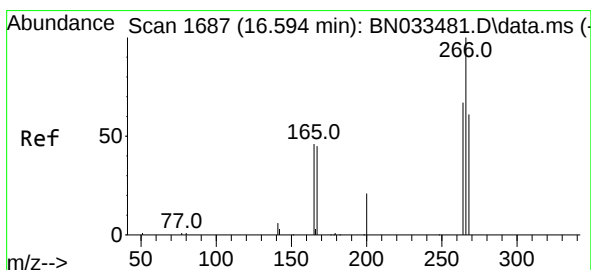
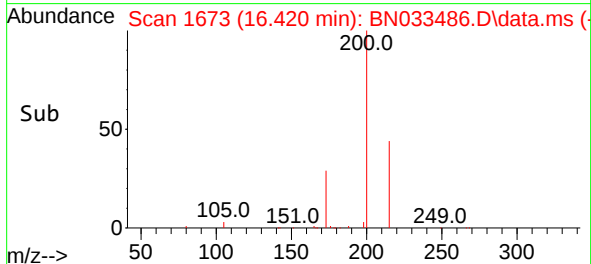
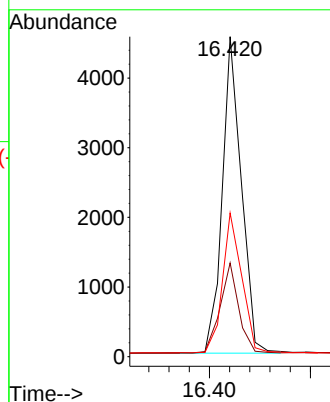
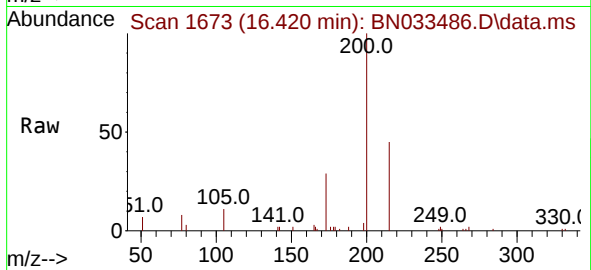
Tgt Ion:200 Resp: 5969

Ion Ratio Lower Upper

200 100

173 29.3 25.3 37.9

215 44.9 36.6 54.8



#24

Pentachlorophenol

Concen: 0.289 ng

RT: 16.594 min Scan# 1687

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

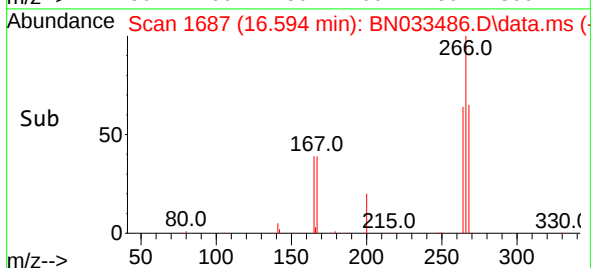
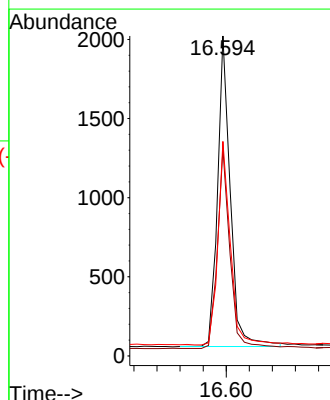
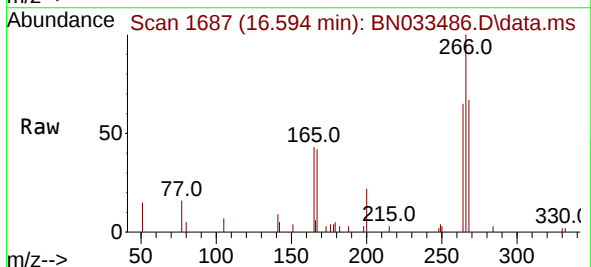
Tgt Ion:266 Resp: 3006

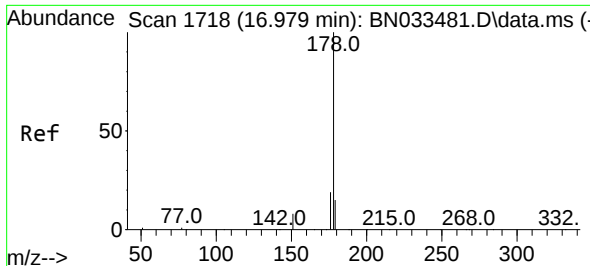
Ion Ratio Lower Upper

266 100

264 63.2 51.9 77.9

268 64.5 51.0 76.4

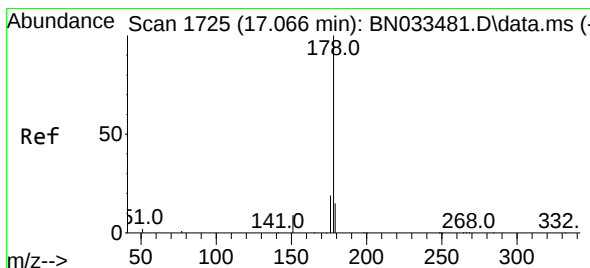
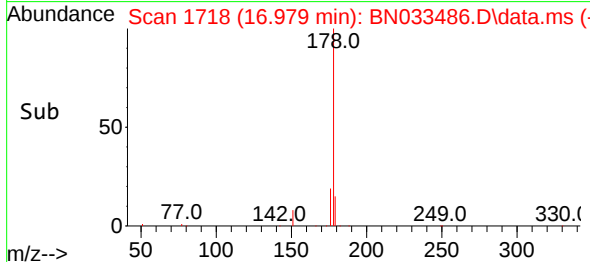
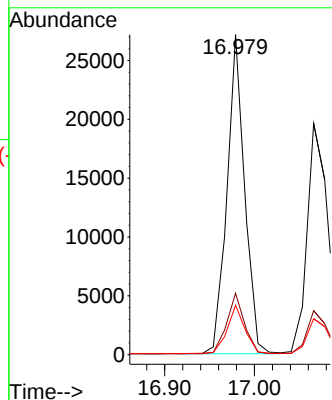
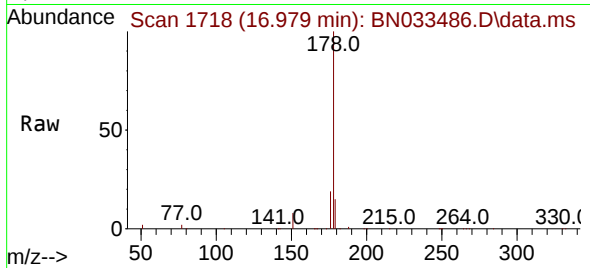




#25
Phenanthrene
Concen: 0.371 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

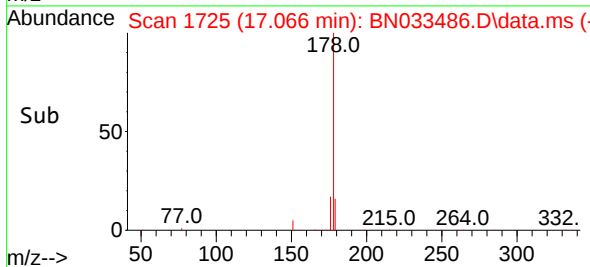
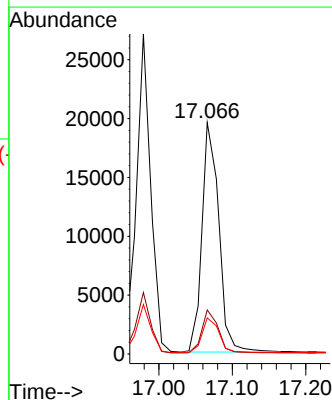
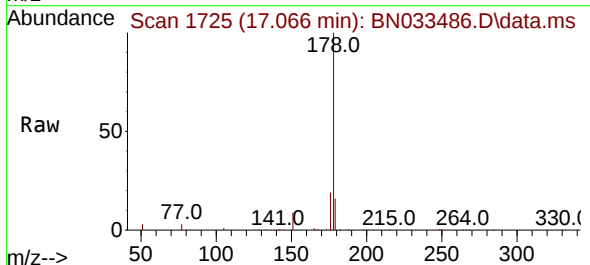
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

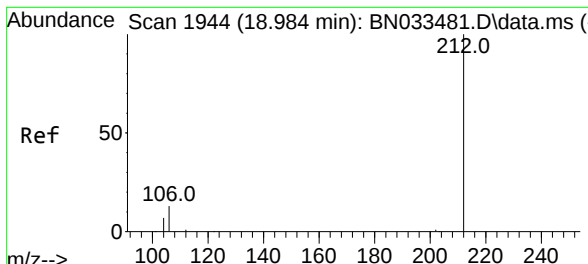
Tgt Ion:178 Resp: 37016
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.3 18.5



#26
Anthracene
Concen: 0.353 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:178 Resp: 31155
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.2 12.4 18.6

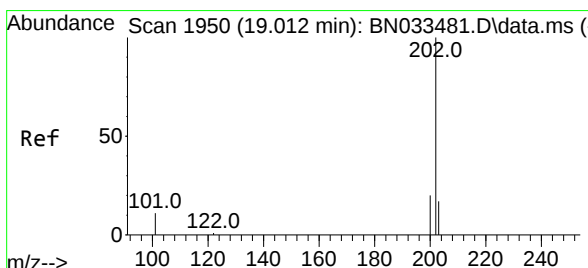
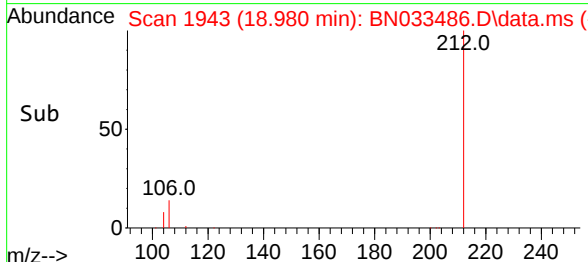
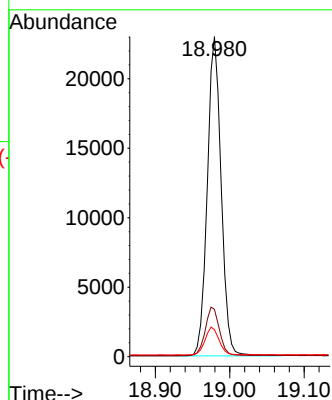
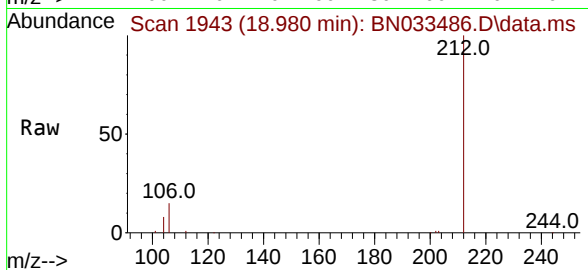




#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 18.980 min Scan# 1943
Delta R.T. -0.005 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

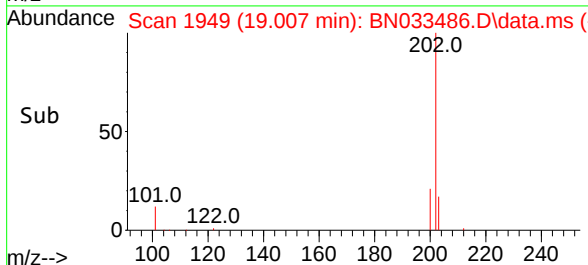
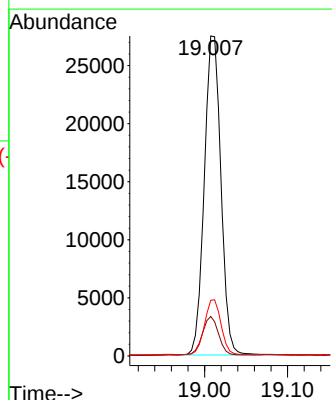
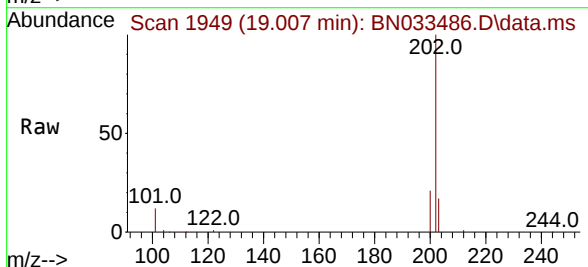
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

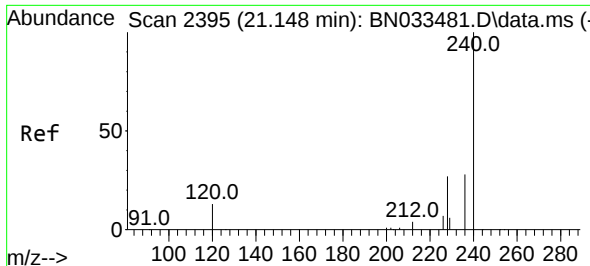
Tgt Ion:212 Resp: 29700
Ion Ratio Lower Upper
212 100
106 15.4 12.3 18.5
104 8.8 7.0 10.4



#28
Fluoranthene
Concen: 0.348 ng
RT: 19.007 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:202 Resp: 38365
Ion Ratio Lower Upper
202 100
101 12.0 9.5 14.3
203 17.1 13.8 20.6

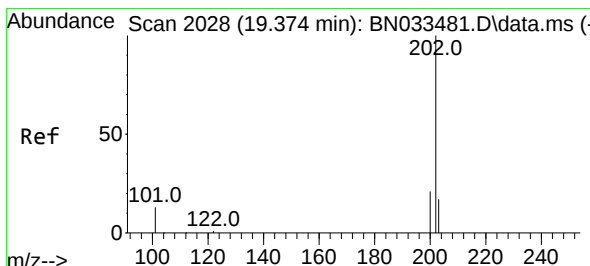
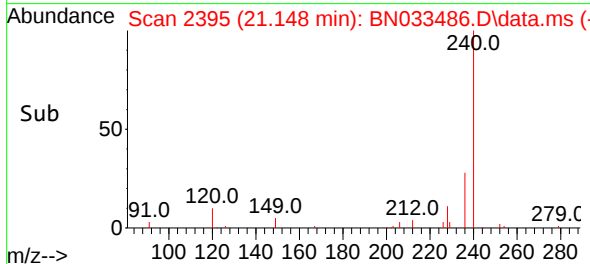
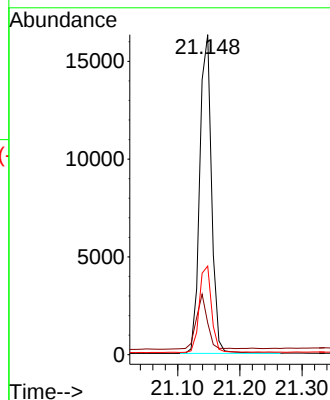
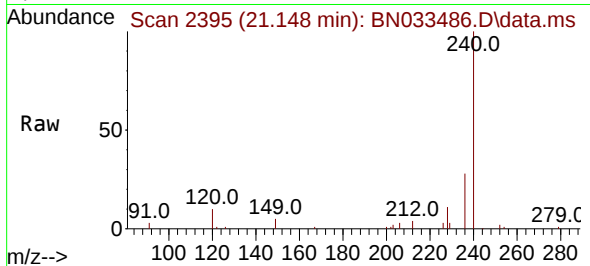




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

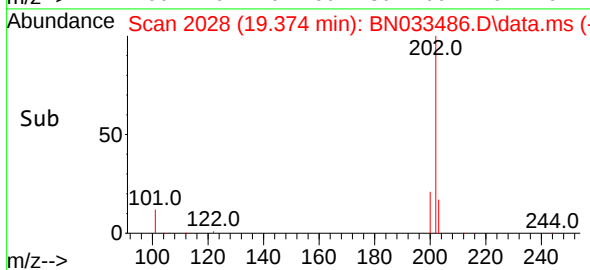
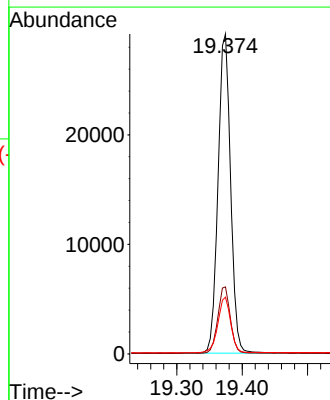
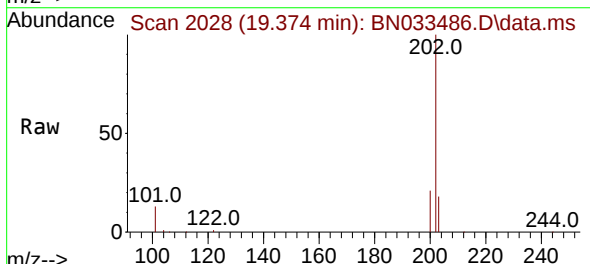
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

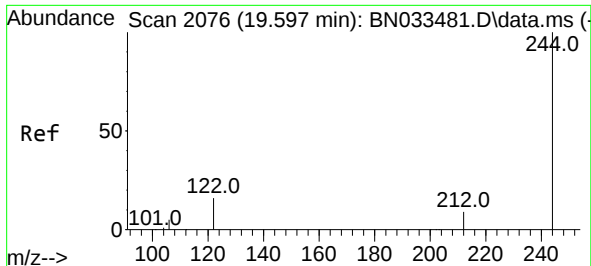
Tgt Ion:240 Resp: 21483
Ion Ratio Lower Upper
240 100
120 9.9 12.4 18.6#
236 27.7 23.0 34.6



#30
Pyrene
Concen: 0.404 ng
RT: 19.374 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:202 Resp: 38735
Ion Ratio Lower Upper
202 100
200 20.7 16.6 24.8
203 18.0 14.2 21.4

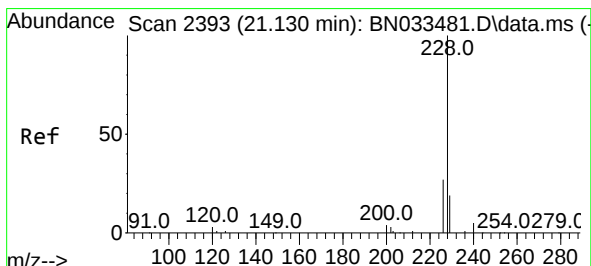
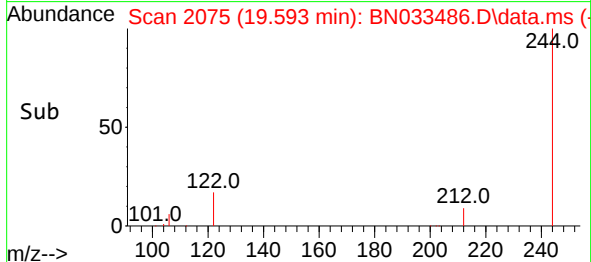
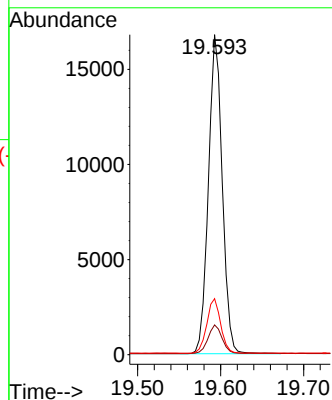
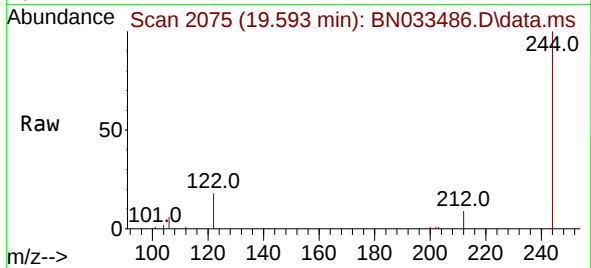




#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.593 min Scan# 2075
Delta R.T. -0.005 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

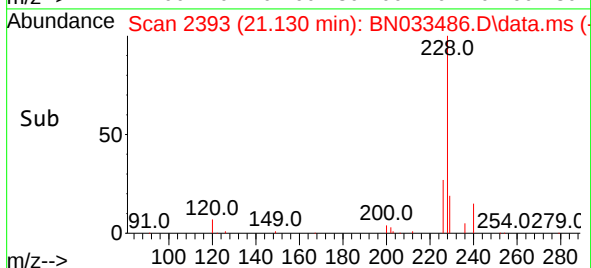
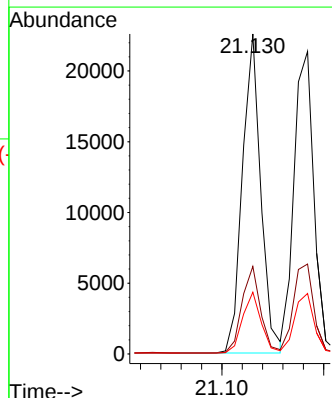
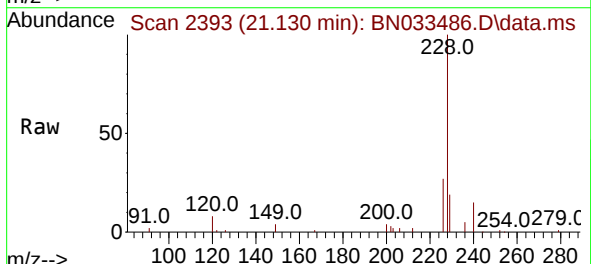
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

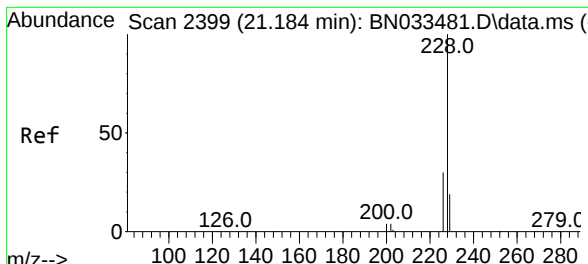
Tgt Ion:244 Resp: 19462
Ion Ratio Lower Upper
244 100
212 9.3 7.8 11.6
122 17.5 13.3 19.9



#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.130 min Scan# 2393
Delta R.T. -0.000 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:228 Resp: 28298
Ion Ratio Lower Upper
228 100
226 27.4 21.8 32.6
229 19.3 15.8 23.6





#33

Chrysene

Concen: 0.373 ng

RT: 21.184 min Scan# 2399

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

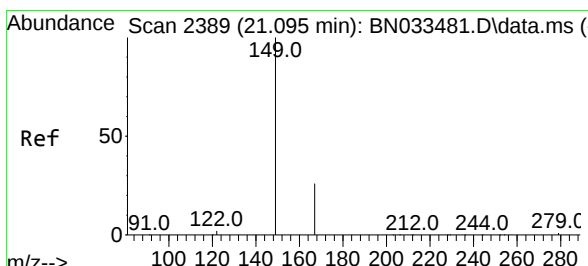
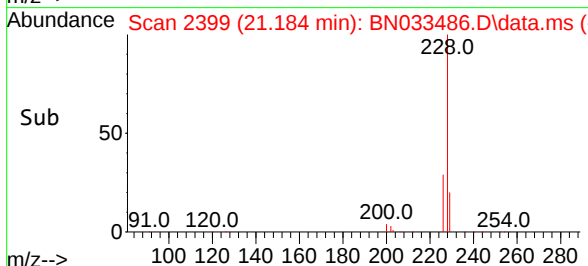
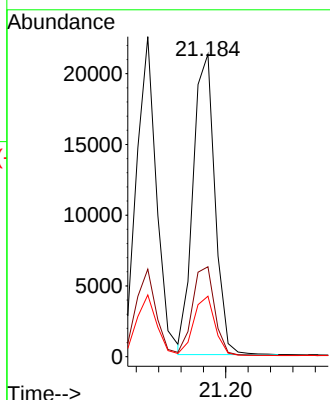
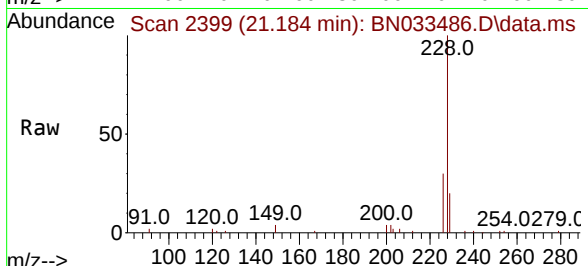
Tgt Ion:228 Resp: 28782

Ion Ratio Lower Upper

228 100

226 29.7 23.8 35.8

229 20.0 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.322 ng

RT: 21.095 min Scan# 2389

Delta R.T. -0.000 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

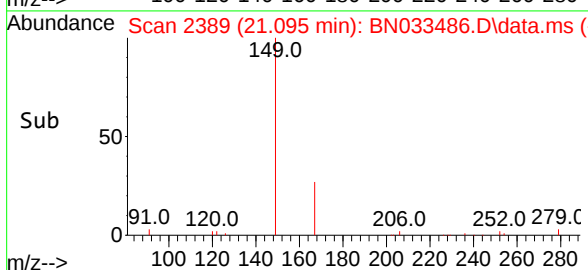
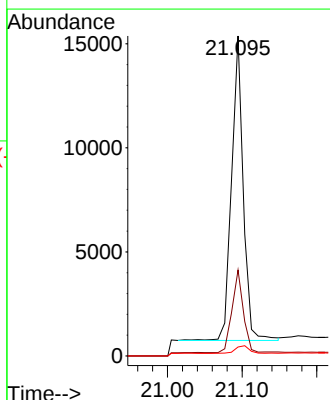
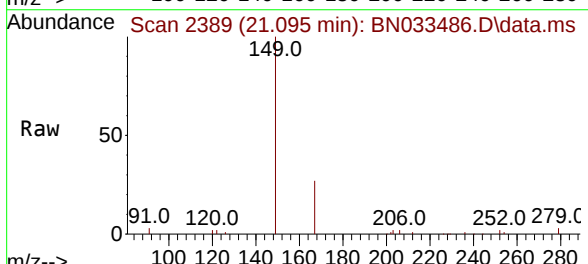
Tgt Ion:149 Resp: 15827

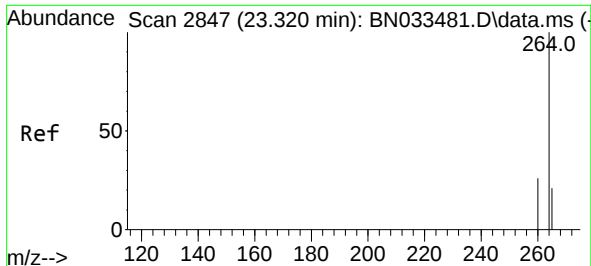
Ion Ratio Lower Upper

149 100

167 26.2 21.5 32.3

279 2.8 2.2 3.2

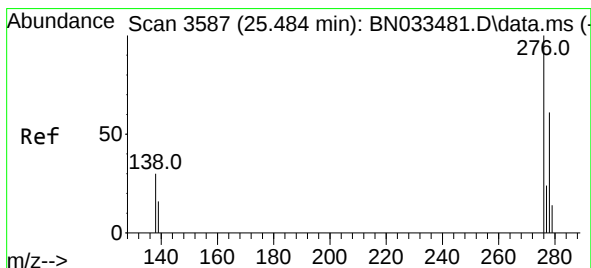
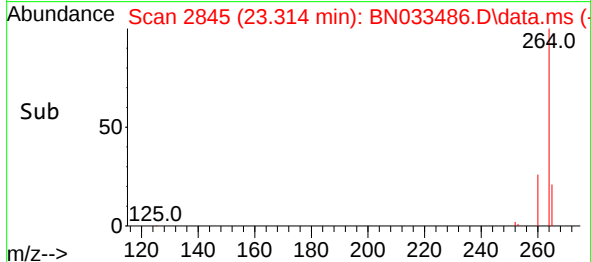
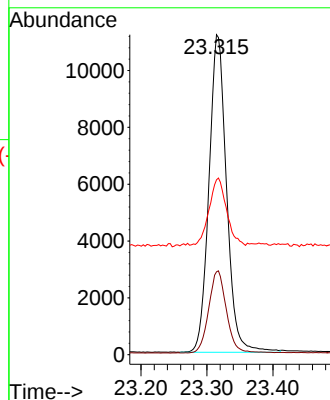
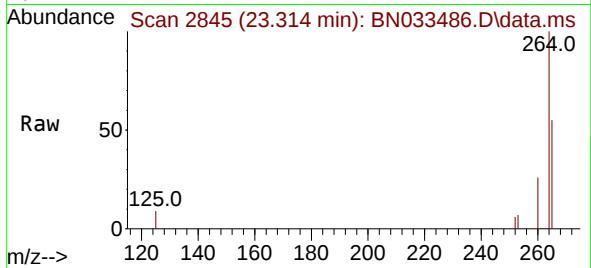




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.314 min Scan# 2845
Delta R.T. -0.006 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

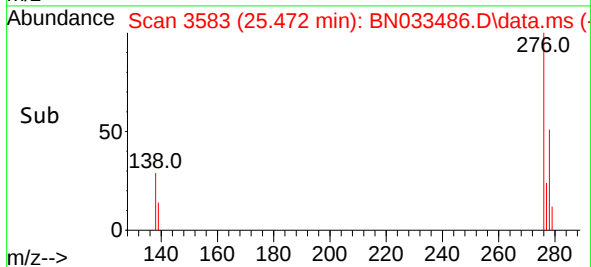
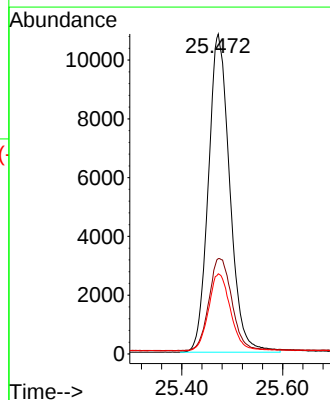
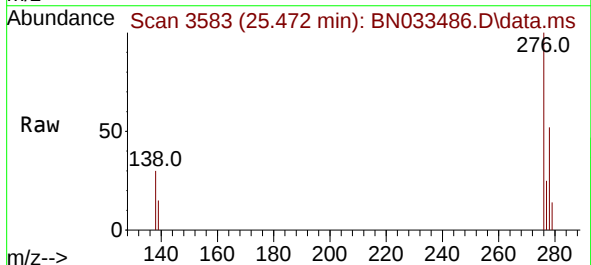
Instrument :
BNA_N
ClientSampleId :
ICVBN081924

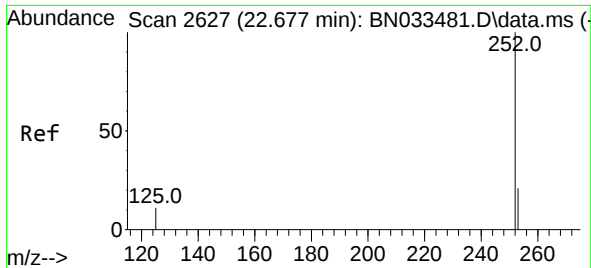
Tgt Ion:264 Resp: 20739
Ion Ratio Lower Upper
264 100
260 25.9 20.8 31.2
265 54.7 52.2 78.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.370 ng
RT: 25.472 min Scan# 3583
Delta R.T. -0.012 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

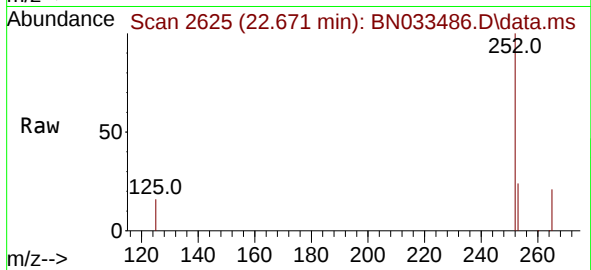
Tgt Ion:276 Resp: 31883
Ion Ratio Lower Upper
276 100
138 31.1 24.4 36.6
277 24.9 19.8 29.6



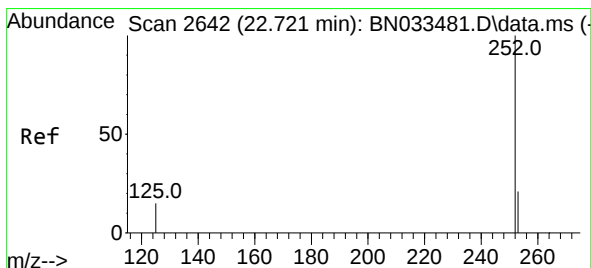
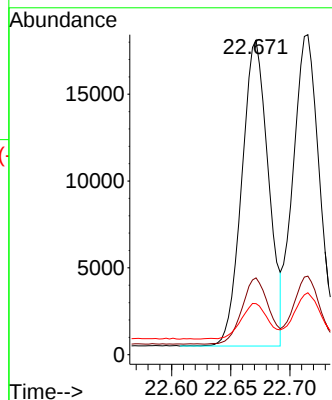


#37
Benzo(b)fluoranthene
Concen: 0.357 ng
RT: 22.671 min Scan# 2625
Delta R.T. -0.006 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924

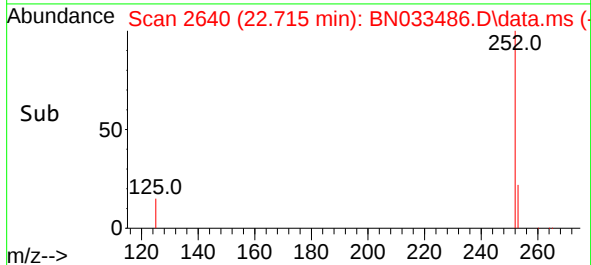
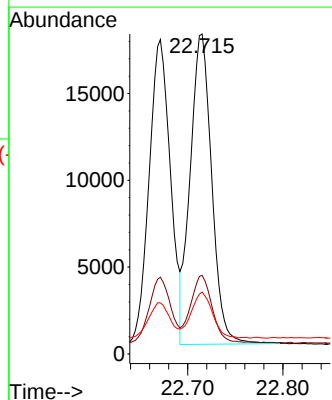
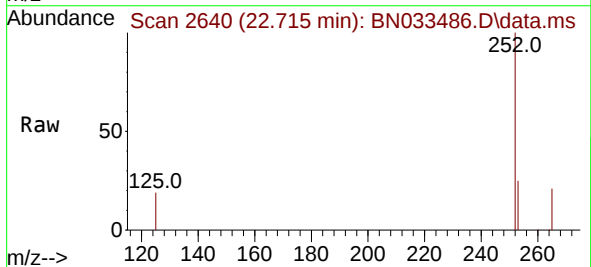


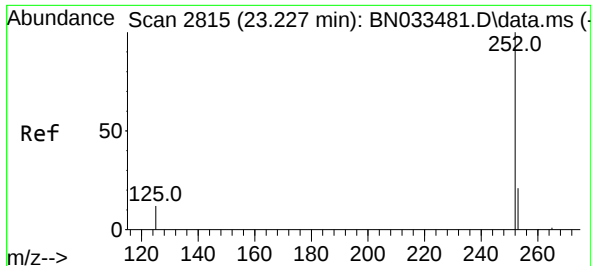
Tgt Ion:252 Resp: 27618
Ion Ratio Lower Upper
252 100
253 24.4 19.8 29.8
125 16.2 13.9 20.9



#38
Benzo(k)fluoranthene
Concen: 0.368 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Tgt Ion:252 Resp: 28035
Ion Ratio Lower Upper
252 100
253 24.5 19.8 29.8
125 19.3 15.8 23.8





#39

Benzo(a)pyrene

Concen: 0.351 ng

RT: 23.221 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

Instrument :

BNA_N

ClientSampleId :

ICVBN081924

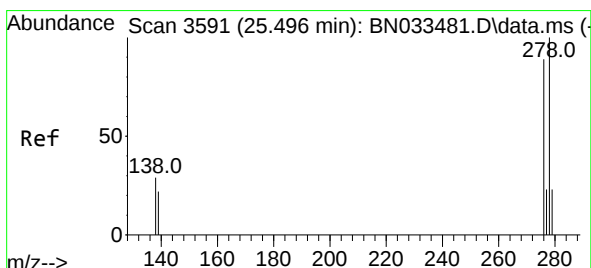
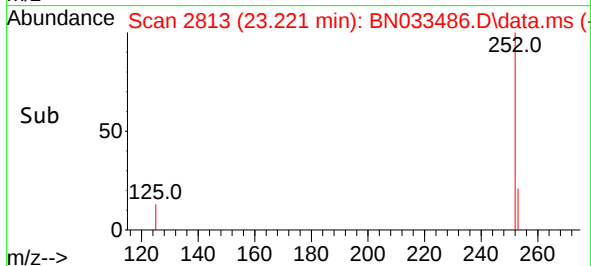
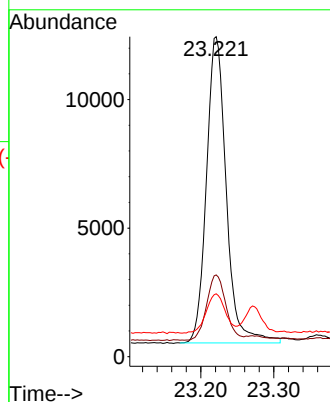
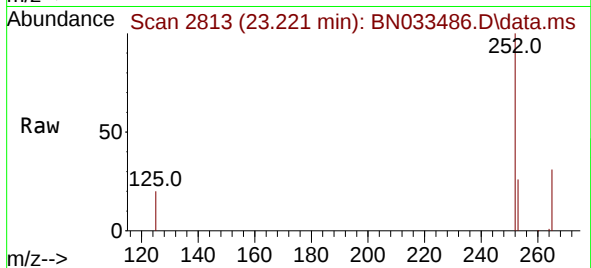
Tgt Ion:252 Resp: 22480

Ion Ratio Lower Upper

252 100

253 25.5 21.5 32.3

125 19.6 17.0 25.4



#40

Dibenzo(a,h)anthracene

Concen: 0.372 ng

RT: 25.490 min Scan# 3589

Delta R.T. -0.006 min

Lab File: BN033486.D

Acq: 20 Aug 2024 01:56

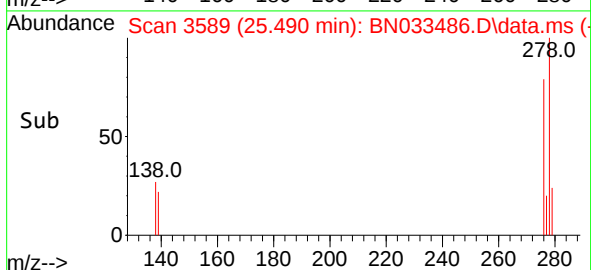
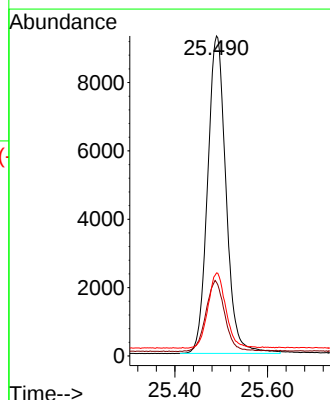
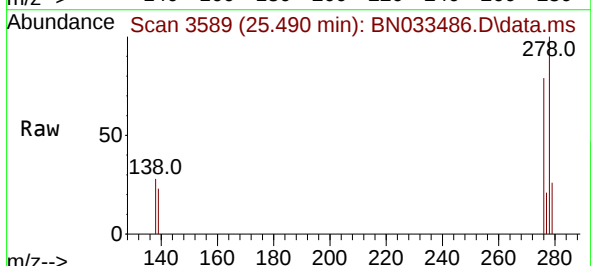
Tgt Ion:278 Resp: 25600

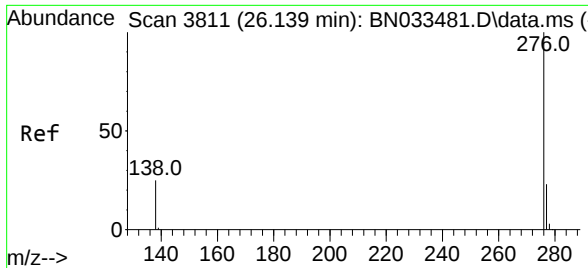
Ion Ratio Lower Upper

278 100

139 23.0 19.1 28.7

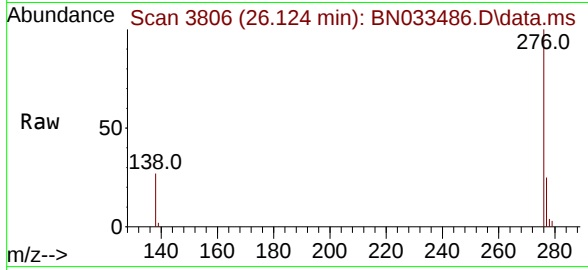
279 26.0 21.0 31.4



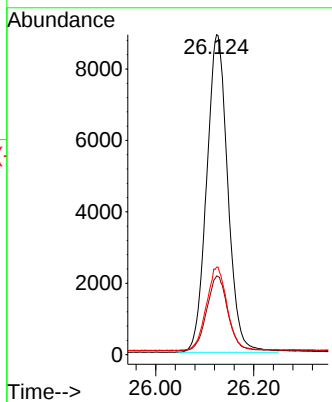
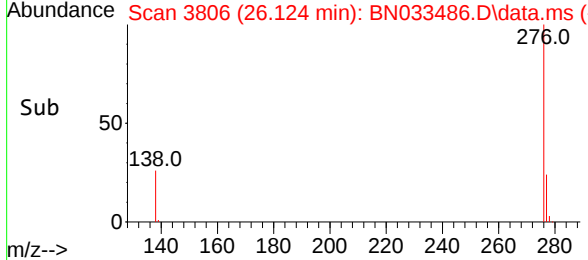


#41
Benzo(g,h,i)perylene
Concen: 0.361 ng
RT: 26.124 min Scan# 3811
Delta R.T. -0.015 min
Lab File: BN033486.D
Acq: 20 Aug 2024 01:56

Instrument :
BNA_N
ClientSampleId :
ICVBN081924



Tgt Ion:	276	Resp:	26587
Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.7	29.5
138	27.4	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033486.D
 Acq On : 20 Aug 2024 01:56
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081924

Quant Time: Aug 20 02:44:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 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	0.460	0.551	-19.8	156#	0.00
3	n-Nitrosodimethylamine	0.535	0.592	-10.7	121	0.00
4 S	2-Fluorophenol	1.271	1.467	-15.4	108	0.00
5 S	Phenol-d6	1.512	1.878	-24.2	129	0.00
6	bis(2-Chloroethyl)ether	1.072	1.083	-1.0	134	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	135	0.00
8 S	Nitrobenzene-d5	0.332	0.300	9.6	134	0.00
9	Naphthalene	1.069	0.989	7.5	142	0.00
10	Hexachlorobutadiene	0.213	0.194	8.9	137	0.00
11 SURR	2-Methylnaphthalene-d10	0.572	0.525	8.2	144	0.00
12	2-Methylnaphthalene	0.677	0.627	7.4	145	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	149	0.00
14 S	2,4,6-Tribromophenol	0.215	0.170	20.9	137	0.00
15 S	2-Fluorobiphenyl	1.634	1.462	10.5	146	0.00
16	Acenaphthylene	1.754	1.502	14.4	145	-0.01
17	Acenaphthene	1.234	1.101	10.8	148	0.00
18	Fluorene	1.555	1.376	11.5	148	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	146	0.00
20	4,6-Dinitro-2-methylphenol	0.062	0.050	19.4	144	0.00
21	4-Bromophenyl-phenylether	0.243	0.222	8.6	147	0.00
22	Hexachlorobenzene	0.268	0.252	6.0	148	0.00
23	Atrazine	0.194	0.167	13.9	140	0.00
24	Pentachlorophenol	0.116	0.084	27.6#	127	0.00
25	Phenanthrene	1.113	1.033	7.2	146	0.00
26	Anthracene	0.985	0.870	11.7	145	0.00
27 SURR	Fluoranthene-d10	0.961	0.829	13.7	139	0.00
28	Fluoranthene	1.230	1.071	12.9	142	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	133	0.00
30	Pyrene	1.785	1.803	-1.0	141	0.00
31 S	Terphenyl-d14	0.909	0.906	0.3	140	0.00
32	Benzo(a)anthracene	1.446	1.317	8.9	133	0.00
33	Chrysene	1.437	1.340	6.8	134	0.00
34	Bis(2-ethylhexyl)phthalate	0.915	0.737	19.5	121	0.00
35 I	Perylene-d12	1.000	1.000	0.0	130	0.00
36	Indeno(1,2,3-cd)pyrene	1.661	1.537	7.5	131	-0.01
37	Benzo(b)fluoranthene	1.494	1.332	10.8	130	0.00
38	Benzo(k)fluoranthene	1.470	1.352	8.0	133	0.00
39 C	Benzo(a)pyrene	1.236	1.084	12.3	129	0.00
40	Dibenzo(a,h)anthracene	1.328	1.234	7.1	131	0.00
41	Benzo(g,h,i)perylene	1.420	1.282	9.7	129	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033486.D
 Acq On : 20 Aug 2024 01:56
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081924

Quant Time: Aug 20 02:44:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 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	0.479	-19.7	156	0.00
3	n-Nitrosodimethylamine	0.400	0.442	-10.5	121	0.00
4 S	2-Fluorophenol	0.400	0.462	-15.5	108	0.00
5 S	Phenol-d6	0.400	0.497	-24.2	129	0.00
6	bis(2-Chloroethyl)ether	0.400	0.404	-1.0	134	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	135	0.00
8 S	Nitrobenzene-d5	0.400	0.362	9.5	134	0.00
9	Naphthalene	0.400	0.370	7.5	142	0.00
10	Hexachlorobutadiene	0.400	0.364	9.0	137	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.367	8.3	144	0.00
12	2-Methylnaphthalene	0.400	0.371	7.3	145	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	149	0.00
14 S	2,4,6-Tribromophenol	0.400	0.317	20.8	137	0.00
15 S	2-Fluorobiphenyl	0.400	0.358	10.5	146	0.00
16	Acenaphthylene	0.400	0.342	14.5	145	-0.01
17	Acenaphthene	0.400	0.357	10.8	148	0.00
18	Fluorene	0.400	0.354	11.5	148	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	146	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.322	19.5	144	0.00
21	4-Bromophenyl-phenylether	0.400	0.366	8.5	147	0.00
22	Hexachlorobenzene	0.400	0.376	6.0	148	0.00
23	Atrazine	0.400	0.344	14.0	140	0.00
24	Pentachlorophenol	0.400	0.289	27.8#	127	0.00
25	Phenanthrene	0.400	0.371	7.3	146	0.00
26	Anthracene	0.400	0.353	11.8	145	0.00
27 SURR	Fluoranthene-d10	0.400	0.345	13.8	139	0.00
28	Fluoranthene	0.400	0.348	13.0	142	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	133	0.00
30	Pyrene	0.400	0.404	-1.0	141	0.00
31 S	Terphenyl-d14	0.400	0.399	0.3	140	0.00
32	Benzo(a)anthracene	0.400	0.364	9.0	133	0.00
33	Chrysene	0.400	0.373	6.8	134	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.322	19.5	121	0.00
35 I	Perylene-d12	0.400	0.400	0.0	130	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.370	7.5	131	-0.01
37	Benzo(b)fluoranthene	0.400	0.357	10.8	130	0.00
38	Benzo(k)fluoranthene	0.400	0.368	8.0	133	0.00
39 C	Benzo(a)pyrene	0.400	0.351	12.3	129	0.00
40	Dibenzo(a,h)anthracene	0.400	0.372	7.0	131	0.00
41	Benzo(g,h,i)perylene	0.400	0.361	9.8	129	-0.01

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: P3657 SAS No.: P3657 SDG No.: P3657

Instrument ID: BNA_N Calibration Date/Time: 08/20/2024 04:44

Lab File ID: BN033489.D Init. Calib. Date(s): 08/19/2024 08/19/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:16 19:53

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.572	0.523		-8.6	20.0
Fluoranthene-d10	0.961	0.802		-16.5	20.0
2-Fluorophenol	1.271	1.003		-21.1	20.0
Phenol-d6	1.512	1.274		-15.7	20.0
Nitrobenzene-d5	0.332	0.284		-14.5	20.0
Naphthalene	1.069	0.986		-7.8	20.0
2-Methylnaphthalene	0.677	0.626		-7.5	20.0
2-Fluorobiphenyl	1.634	1.511		-7.5	20.0
Acenaphthylene	1.754	1.526		-13.0	20.0
Acenaphthene	1.234	1.122		-9.1	20.0
Fluorene	1.555	1.402		-9.8	20.0
2,4,6-Tribromophenol	0.215	0.163		-24.2	20.0
Phenanthrene	1.113	1.038		-6.7	20.0
Anthracene	0.985	0.858		-12.9	20.0
Fluoranthene	1.230	1.056		-14.1	20.0
Pyrene	1.785	1.802		1.0	20.0
Terphenyl-d14	0.909	0.886		-2.5	20.0
Benzo(a)anthracene	1.446	1.315		-9.1	20.0
Chrysene	1.437	1.353		-5.8	20.0
Benzo(b)fluoranthene	1.494	1.423		-4.8	20.0
Benzo(k)fluoranthene	1.470	1.396		-5.0	20.0
Benzo(a)pyrene	1.236	1.083		-12.4	20.0
Indeno(1,2,3-cd)pyrene	1.661	1.557		-6.3	20.0
Dibenzo(a,h)anthracene	1.328	1.239		-6.7	20.0
Benzo(g,h,i)perylene	1.420	1.309		-7.8	20.0
1,4-Dioxane	0.460	0.396		-13.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033489.D
 Acq On : 20 Aug 2024 04:44
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Aug 20 05:11:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

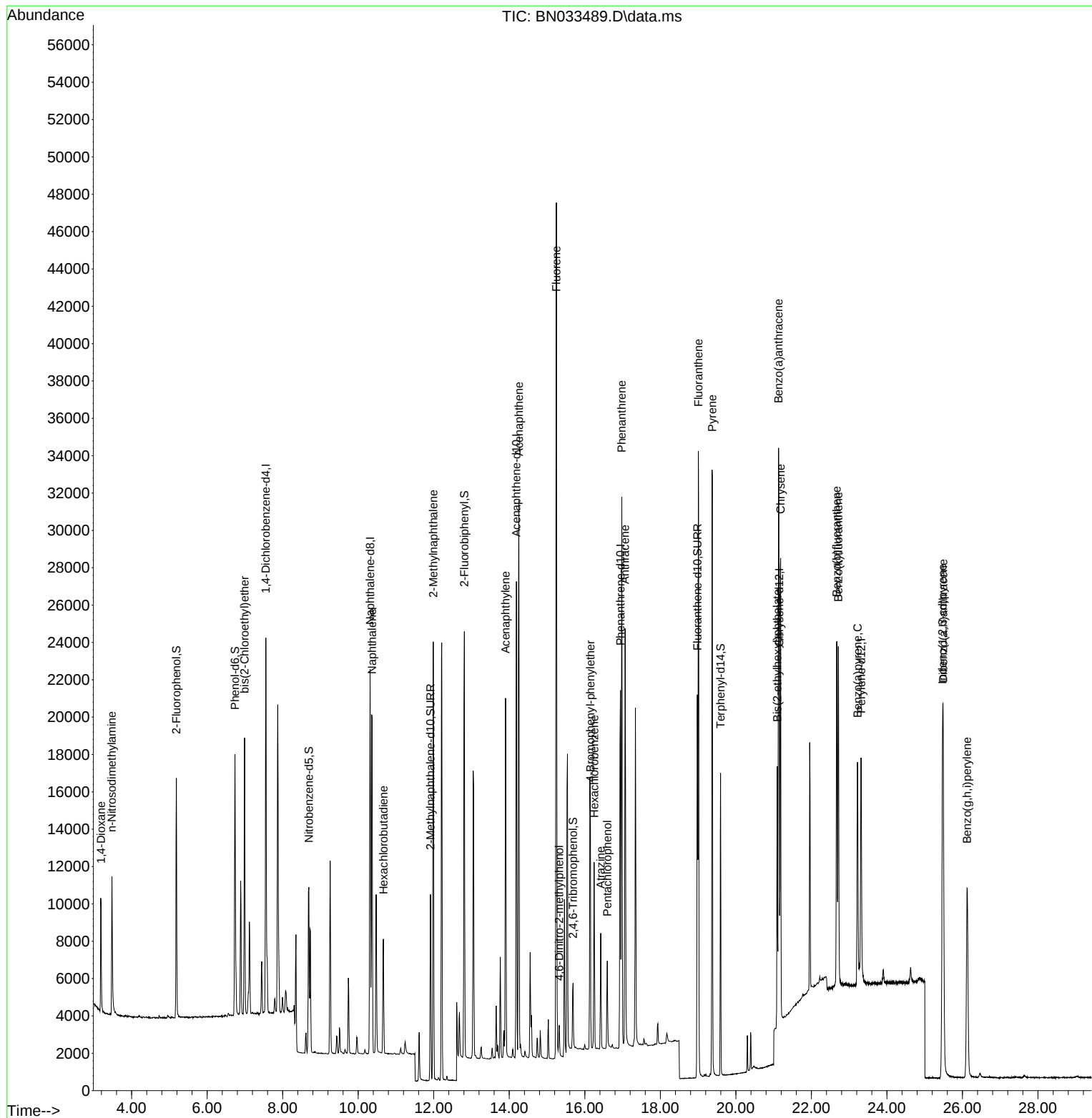
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	9356	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	25244	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	13324	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	27326	0.400	ng	# 0.00
29) Chrysene-d12	21.148	240	15982	0.400	ng	# 0.00
35) Perylene-d12	23.315	264	15401	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	9381	0.315	ng	0.00
5) Phenol-d6	6.736	99	11919	0.337	ng	0.00
8) Nitrobenzene-d5	8.692	82	7174	0.343	ng	0.00
11) 2-Methylnaphthalene-d10	11.911	152	13215	0.366	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	2176	0.304	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	20133	0.370	ng	0.00
27) Fluoranthene-d10	18.980	212	21914	0.334	ng	0.00
31) Terphenyl-d14	19.593	244	14166	0.390	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.190	88	3709	0.345	ng	99
3) n-Nitrosodimethylamine	3.479	42	4333	0.346	ng	95
6) bis(2-Chloroethyl)ether	6.989	93	9500	0.379	ng	98
9) Naphthalene	10.368	128	24880	0.369	ng	99
10) Hexachlorobutadiene	10.667	225	4937	0.367	ng	# 99
12) 2-Methylnaphthalene	11.987	142	15814	0.370	ng	100
16) Acenaphthylene	13.900	152	20338	0.348	ng	100
17) Acenaphthene	14.253	154	14950	0.364	ng	100
18) Fluorene	15.247	166	18685	0.361	ng	100
20) 4,6-Dinitro-2-methylph...	15.322	198	1207	0.283	ng	84
21) 4-Bromophenyl-phenylether	16.147	248	5992	0.361	ng	92
22) Hexachlorobenzene	16.247	284	6968	0.380	ng	98
23) Atrazine	16.421	200	4319	0.326	ng	97
24) Pentachlorophenol	16.594	266	2289	0.288	ng	98
25) Phenanthrene	16.979	178	28352	0.373	ng	100
26) Anthracene	17.066	178	23445	0.349	ng	99
28) Fluoranthene	19.008	202	28847	0.343	ng	100
30) Pyrene	19.375	202	28803	0.404	ng	100
32) Benzo(a)anthracene	21.130	228	21018	0.364	ng	100
33) Chrysene	21.184	228	21631	0.377	ng	99
34) Bis(2-ethylhexyl)phtha...	21.095	149	11819	0.323	ng	99
36) Indeno(1,2,3-cd)pyrene	25.472	276	23975	0.375	ng	99
37) Benzo(b)fluoranthene	22.671	252	21917	0.381	ng	99
38) Benzo(k)fluoranthene	22.712	252	21498	0.380	ng	99
39) Benzo(a)pyrene	23.221	252	16672	0.350	ng	100
40) Dibenzo(a,h)anthracene	25.490	278	19084	0.373	ng	99
41) Benzo(g,h,i)perylene	26.121	276	20155	0.369	ng	100

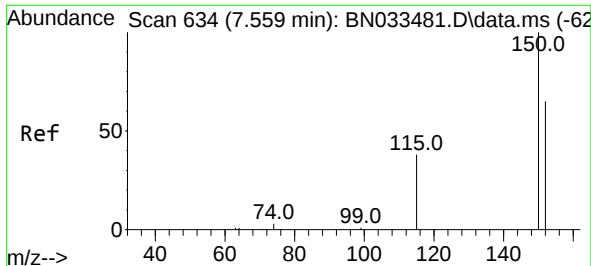
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033489.D
Acq On : 20 Aug 2024 04:44
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 20 05:11:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

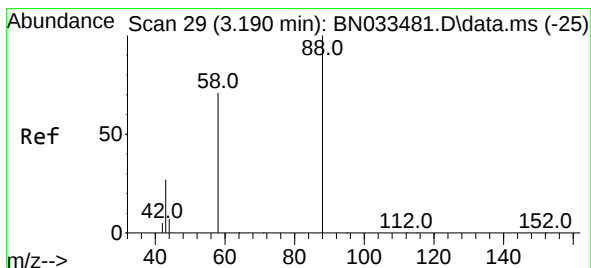
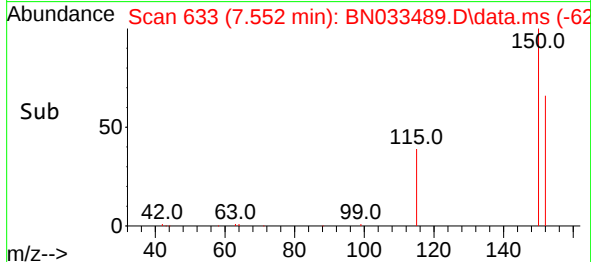
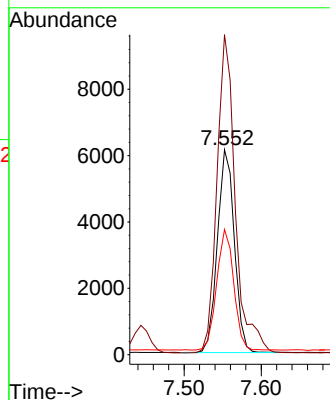
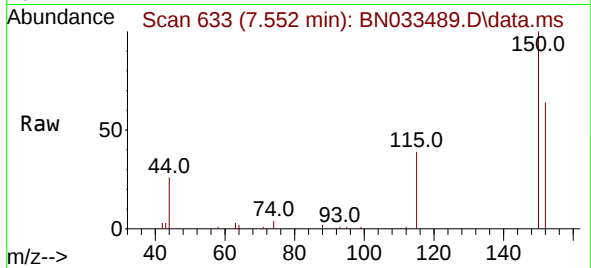




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.552 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN033489.D
 Acq: 20 Aug 2024 04:44

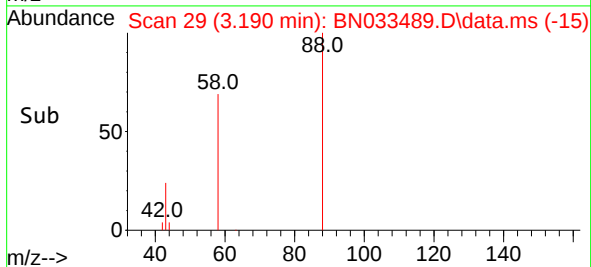
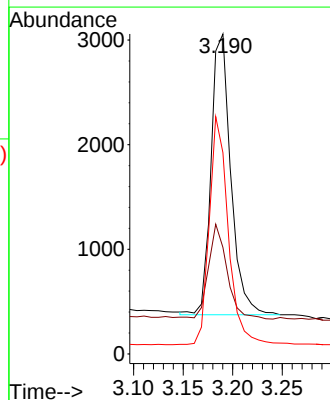
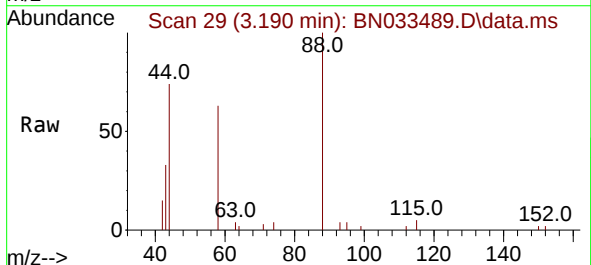
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

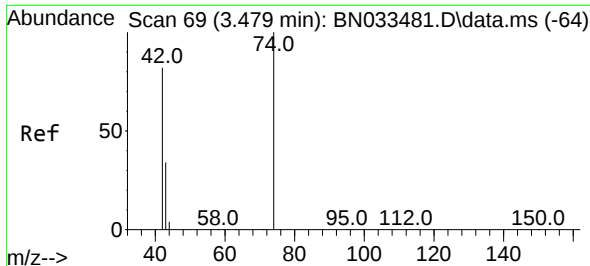
Tgt Ion:152 Resp: 9356
 Ion Ratio Lower Upper
 152 100
 150 156.2 122.2 183.2
 115 61.1 47.2 70.8



#2
 1,4-Dioxane
 Concen: 0.345 ng
 RT: 3.190 min Scan# 29
 Delta R.T. 0.000 min
 Lab File: BN033489.D
 Acq: 20 Aug 2024 04:44

Tgt Ion: 88 Resp: 3709
 Ion Ratio Lower Upper
 88 100
 43 31.8 25.0 37.4
 58 78.6 62.5 93.7

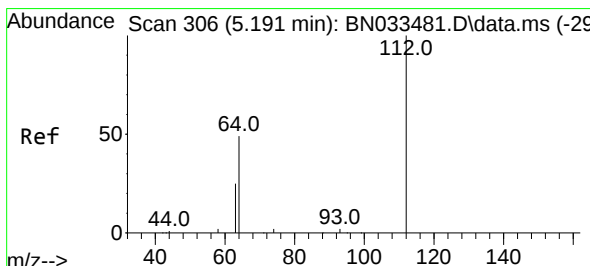
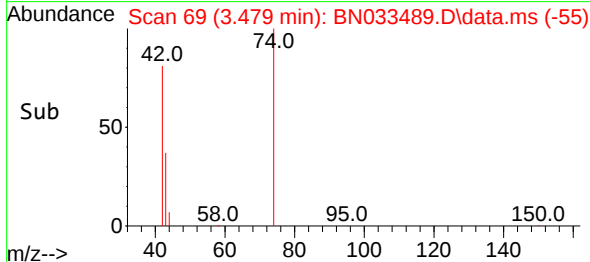
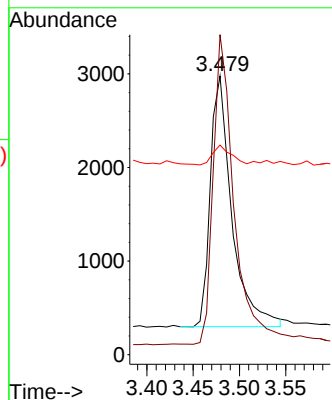
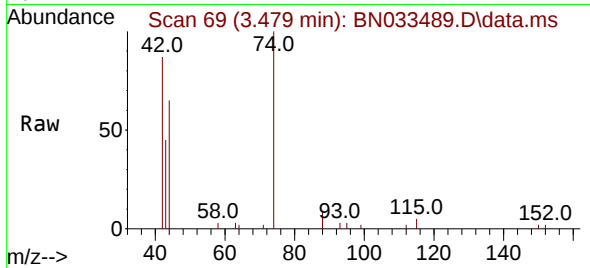




#3
n-Nitrosodimethylamine
Concen: 0.346 ng
RT: 3.479 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

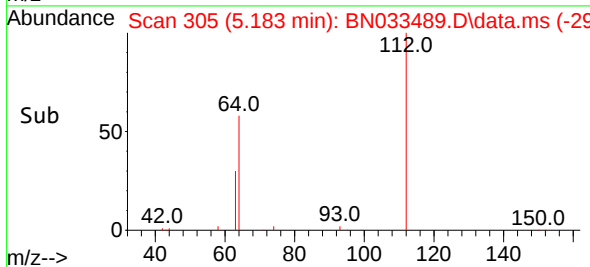
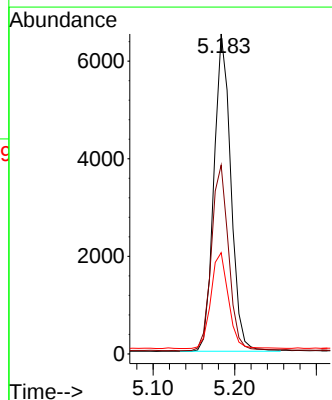
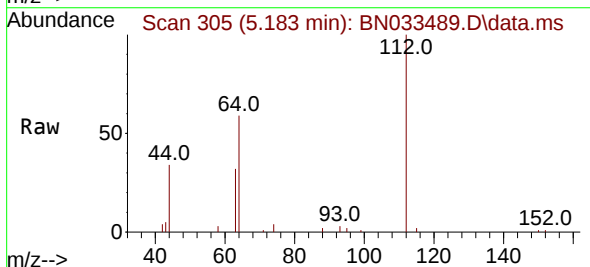
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

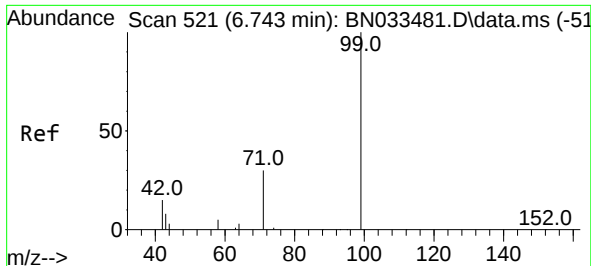
Tgt Ion: 42 Resp: 4333
Ion Ratio Lower Upper
42 100
74 119.4 100.2 150.2
44 6.6 5.3 7.9



#4
2-Fluorophenol
Concen: 0.315 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion: 112 Resp: 9381
Ion Ratio Lower Upper
112 100
64 59.6 47.1 70.7
63 31.2 24.9 37.3

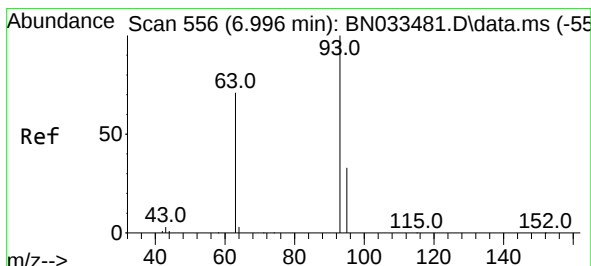
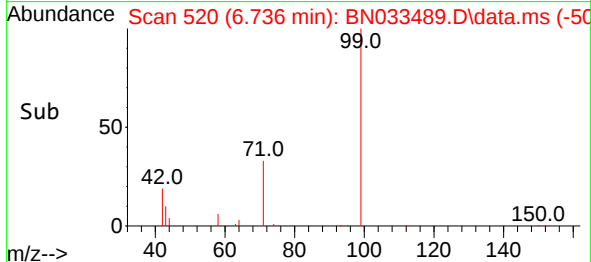
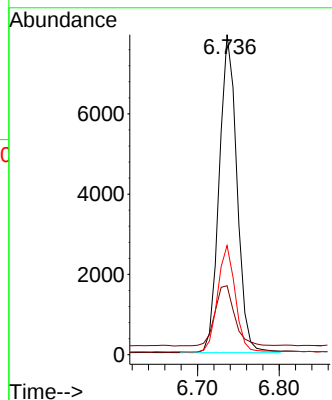
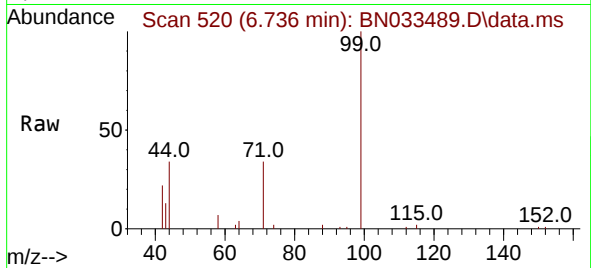




#5
Phenol-d6
Concen: 0.337 ng
RT: 6.736 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

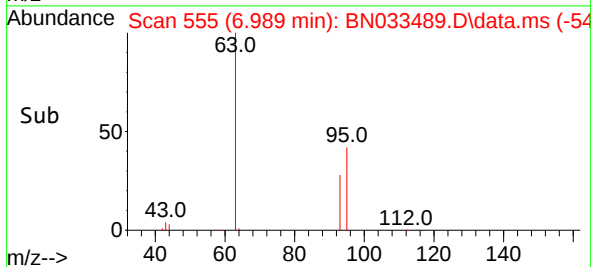
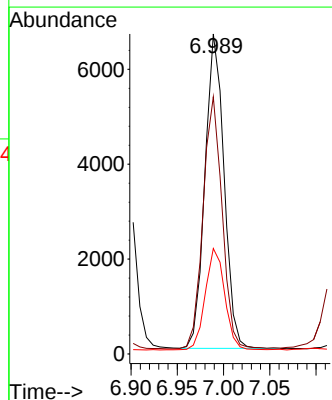
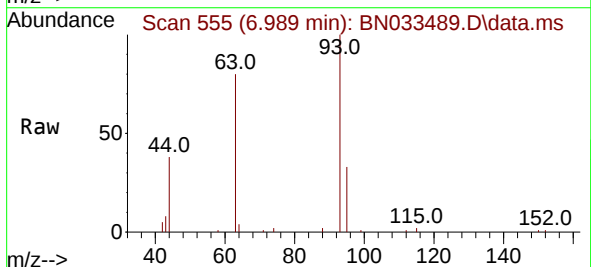
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

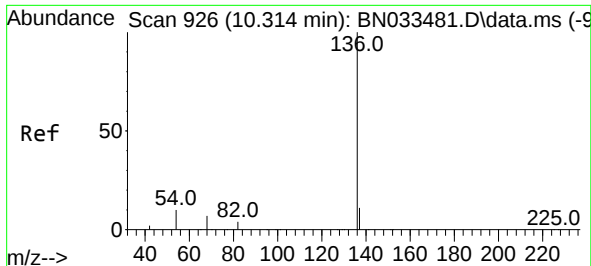
Tgt Ion: 99 Resp: 11919
Ion Ratio Lower Upper
99 100
42 21.0 16.6 24.8
71 33.2 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion: 93 Resp: 9500
Ion Ratio Lower Upper
93 100
63 80.3 63.0 94.4
95 33.0 26.0 39.0

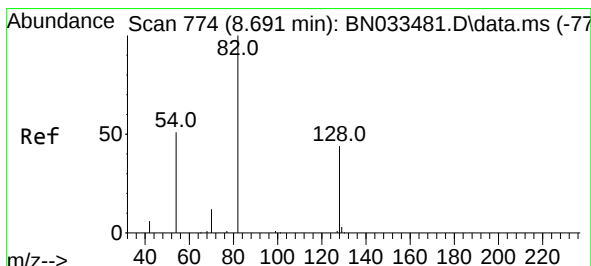
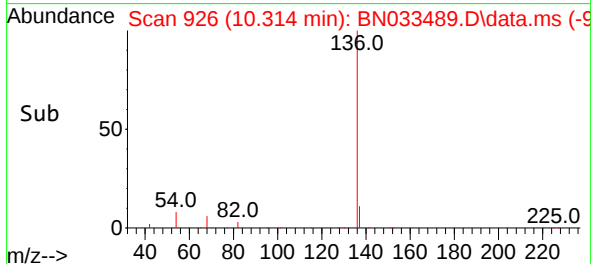
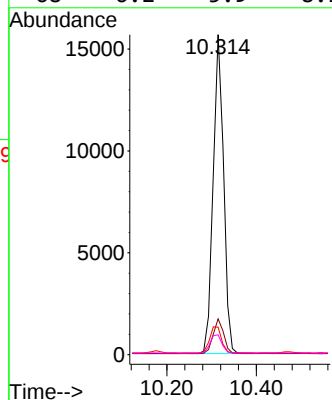
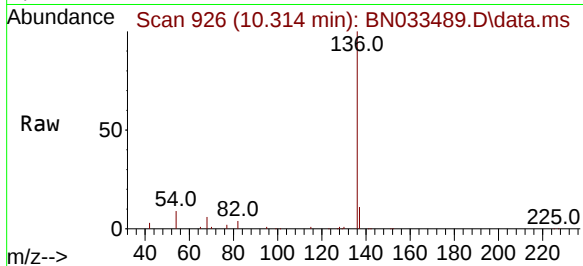




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

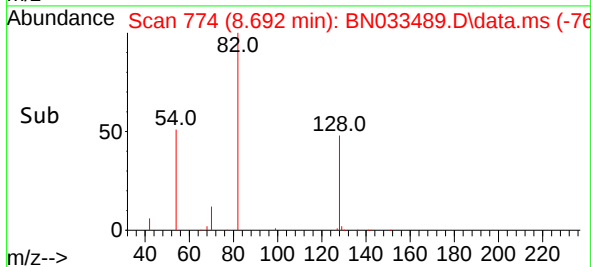
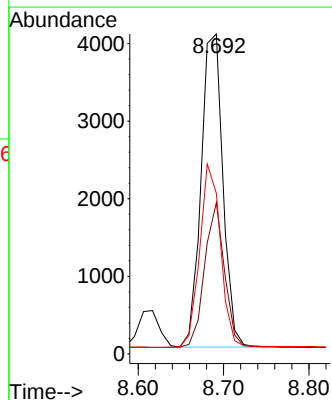
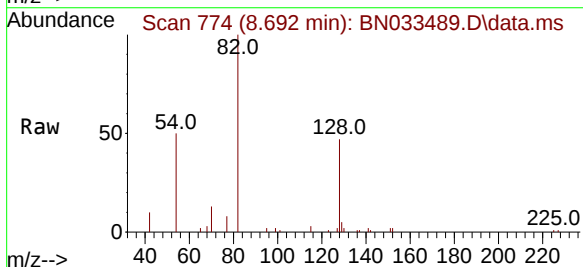
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

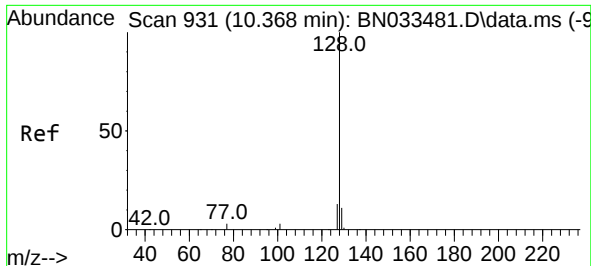
Tgt Ion:	136	Resp:	25244
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.6
54	8.6	8.3	12.5
68	6.2	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.343 ng
RT: 8.692 min Scan# 774
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:	82	Resp:	7174
Ion	Ratio	Lower	Upper
82	100		
128	47.3	36.0	54.0
54	50.2	42.0	63.0

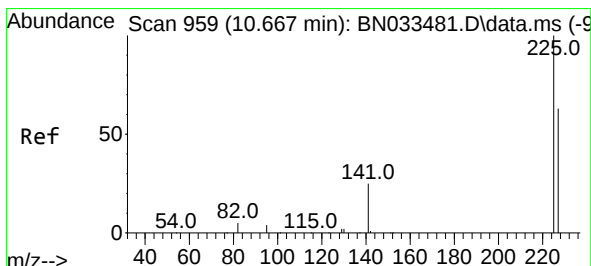
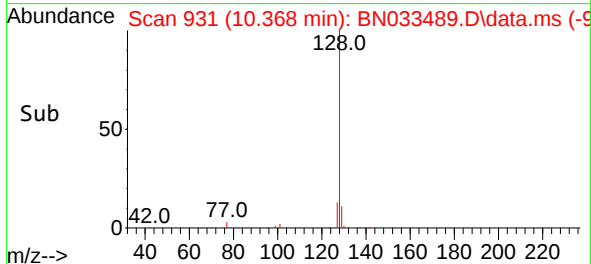
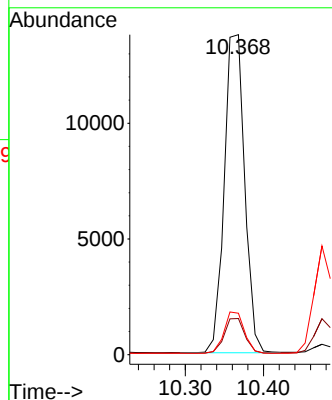
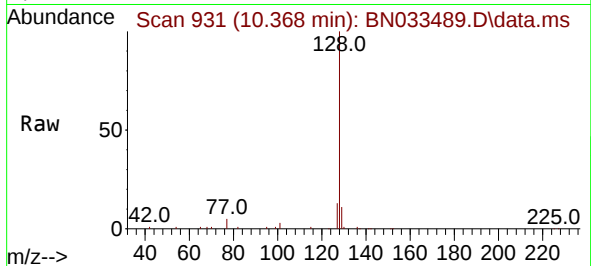




#9
Naphthalene
Concen: 0.369 ng
RT: 10.368 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

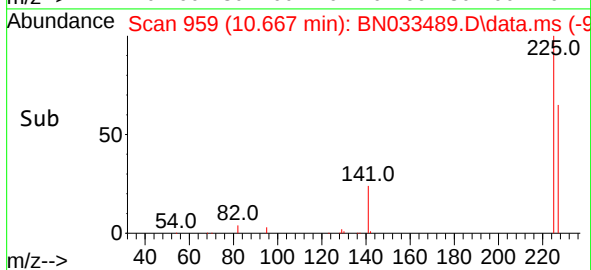
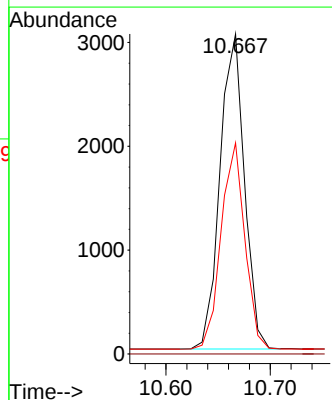
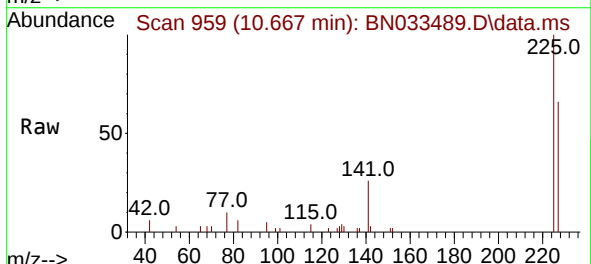
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

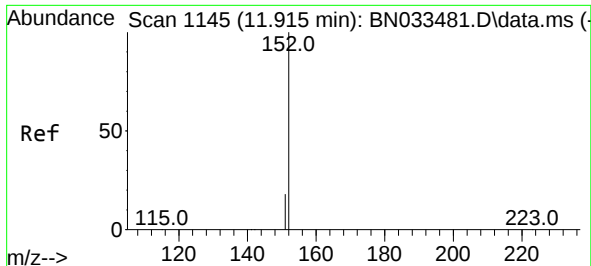
Tgt Ion:128 Resp: 24880
Ion Ratio Lower Upper
128 100
129 11.3 9.1 13.7
127 13.0 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.367 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:225 Resp: 4937
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.2 76.8

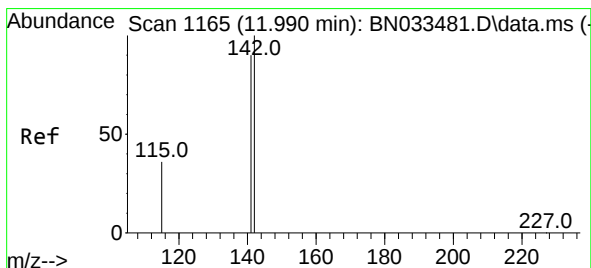
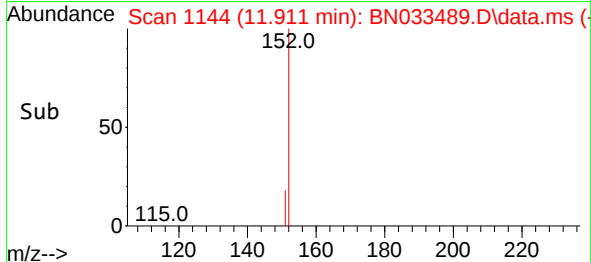
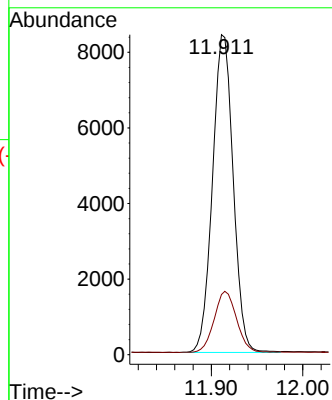
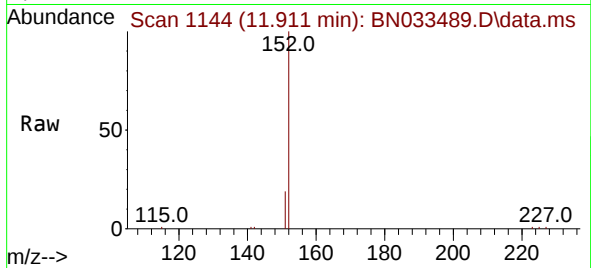




#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 11.911 min Scan# 1145
Delta R.T. -0.004 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

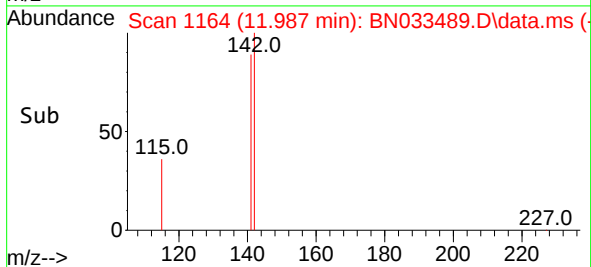
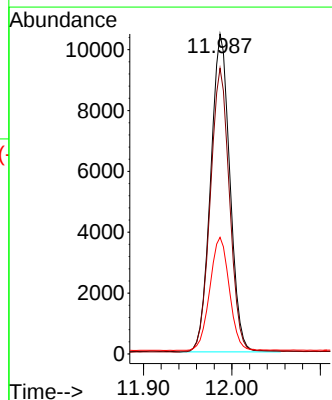
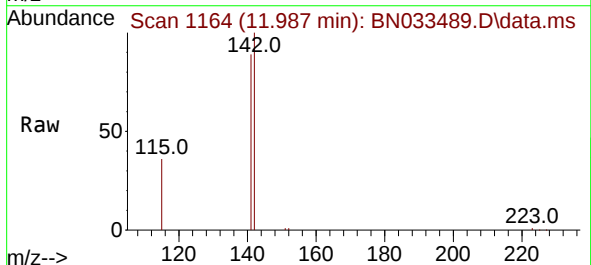
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

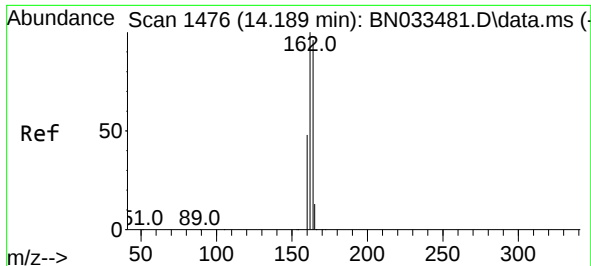
Tgt Ion:152 Resp: 13215
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 11.987 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:142 Resp: 15814
Ion Ratio Lower Upper
142 100
141 89.3 71.7 107.5
115 36.4 29.4 44.2

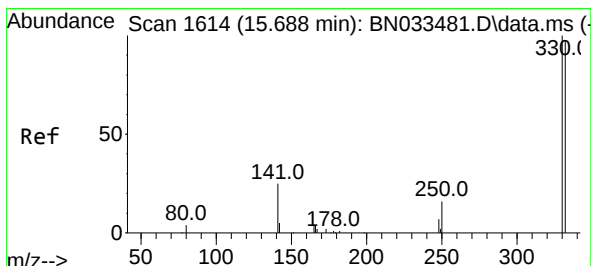
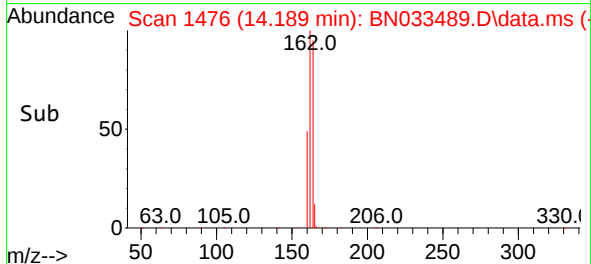
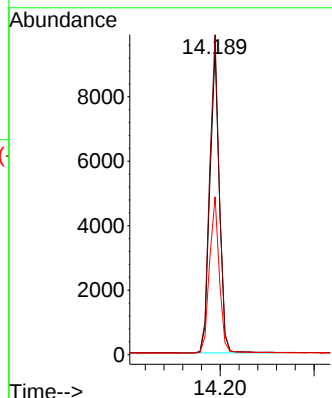
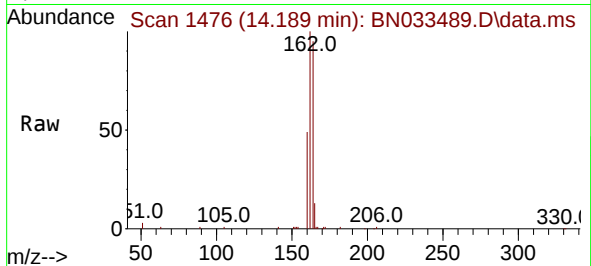




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

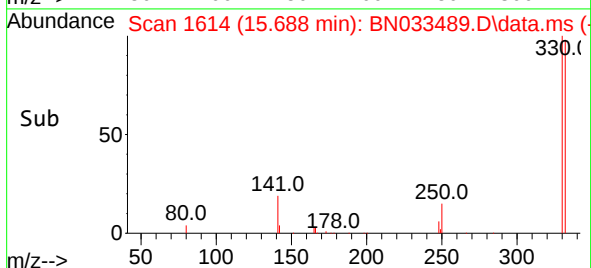
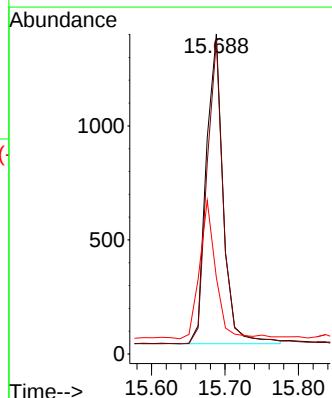
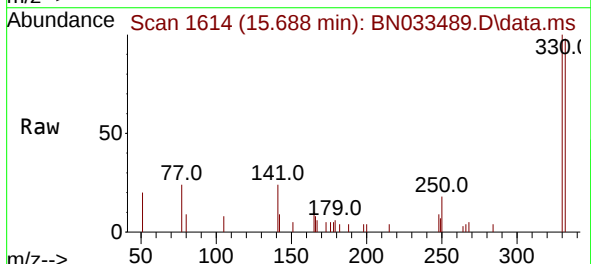
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

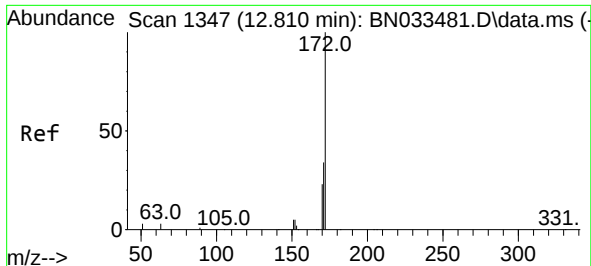
Tgt Ion:164 Resp: 13324
Ion Ratio Lower Upper
164 100
162 104.7 83.5 125.3
160 51.7 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.304 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:330 Resp: 2176
Ion Ratio Lower Upper
330 100
332 94.8 77.5 116.3
141 41.6 33.9 50.9

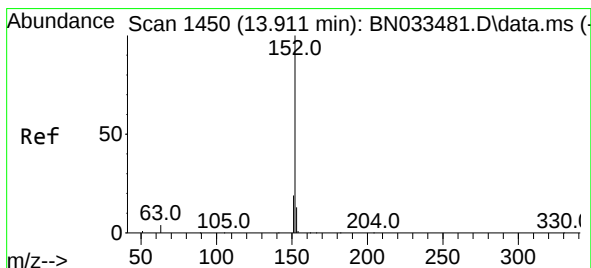
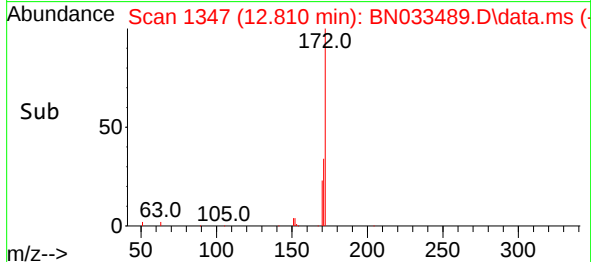
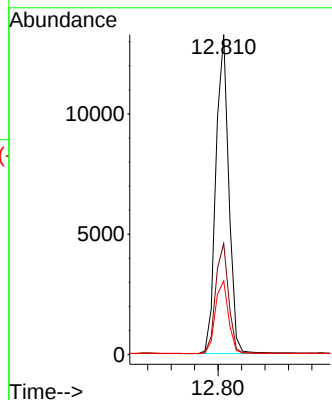
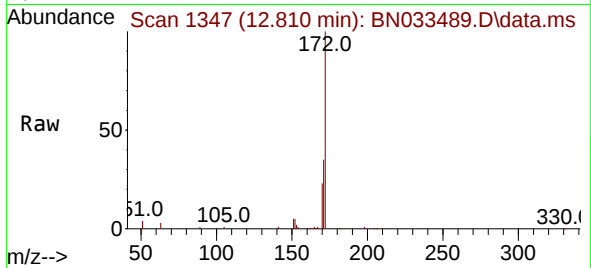




#15
2-Fluorobiphenyl
Concen: 0.370 ng
RT: 12.810 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

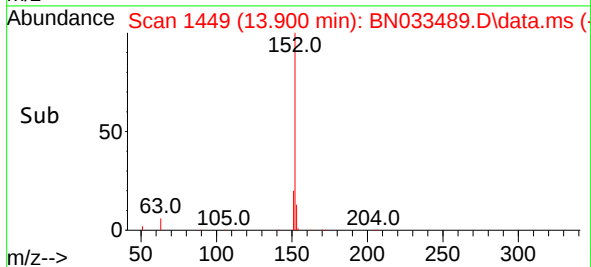
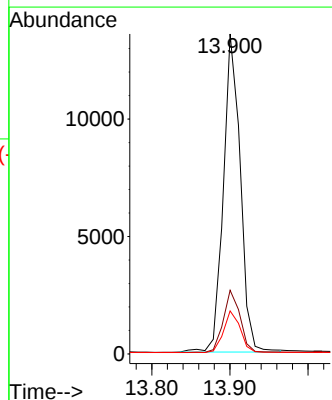
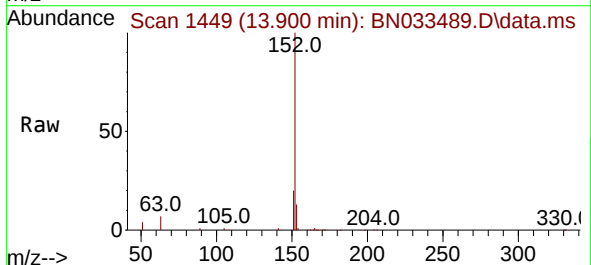
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

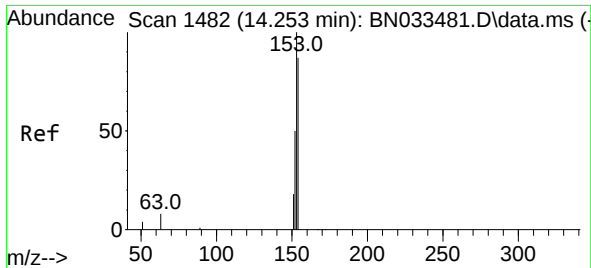
Tgt Ion:172 Resp: 20133
Ion Ratio Lower Upper
172 100
171 34.7 27.7 41.5
170 23.0 18.3 27.5



#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:152 Resp: 20338
Ion Ratio Lower Upper
152 100
151 19.4 15.7 23.5
153 13.0 10.3 15.5

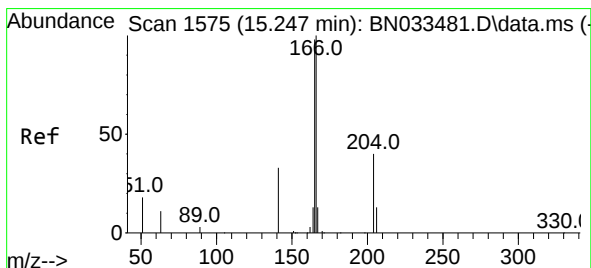
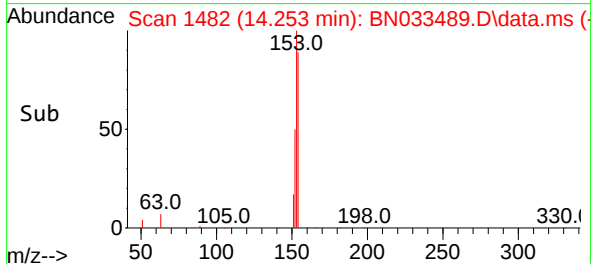
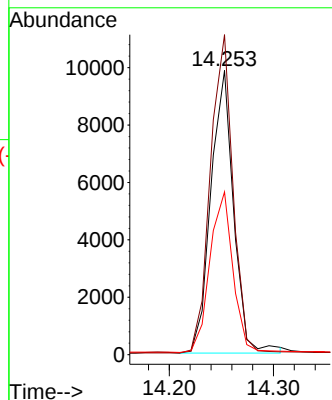
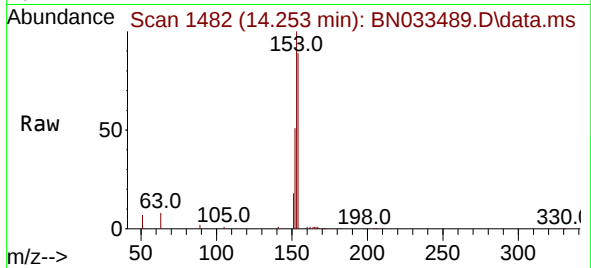




#17
Acenaphthene
Concen: 0.364 ng
RT: 14.253 min Scan# 1482
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

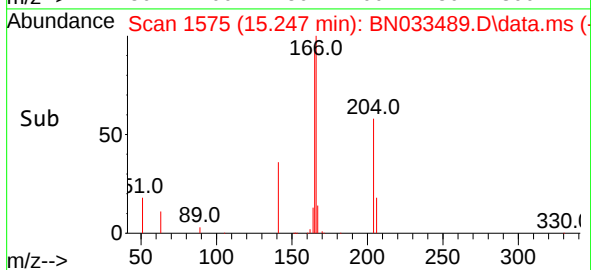
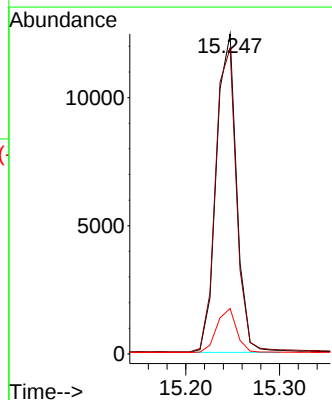
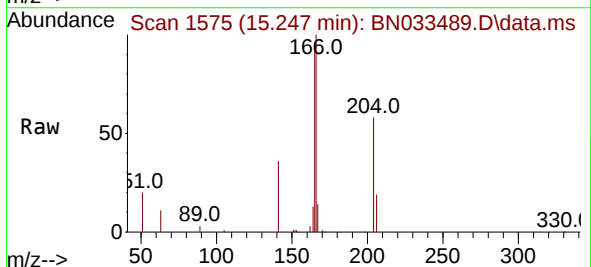
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

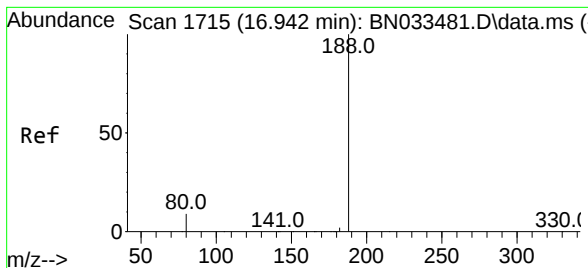
Tgt Ion:154 Resp: 14950
Ion Ratio Lower Upper
154 100
153 111.5 89.0 133.6
152 57.1 45.2 67.8



#18
Fluorene
Concen: 0.361 ng
RT: 15.247 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:166 Resp: 18685
Ion Ratio Lower Upper
166 100
165 98.2 78.2 117.4
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. 0.000 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

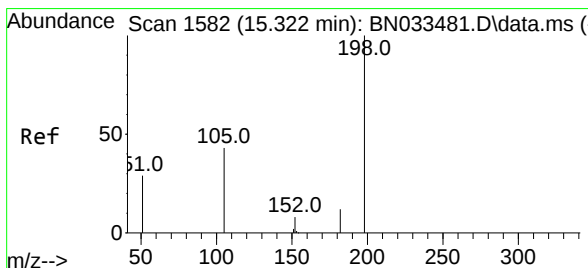
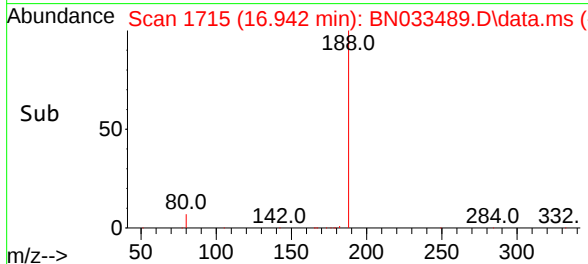
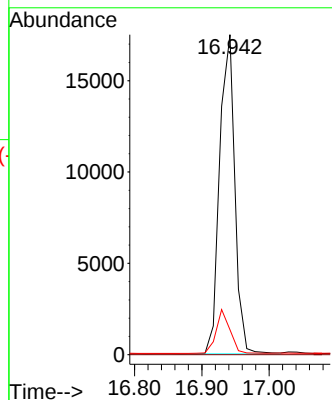
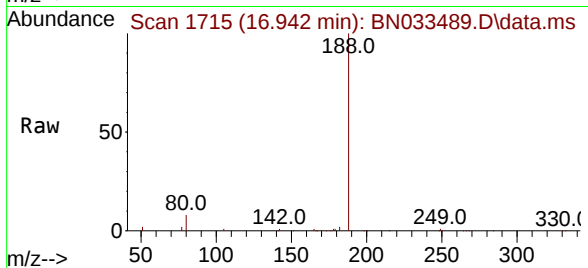
Tgt Ion:188 Resp: 27326

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.8 7.8 11.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.283 ng

RT: 15.322 min Scan# 1582

Delta R.T. 0.000 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

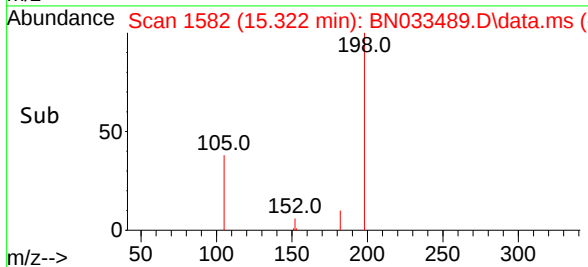
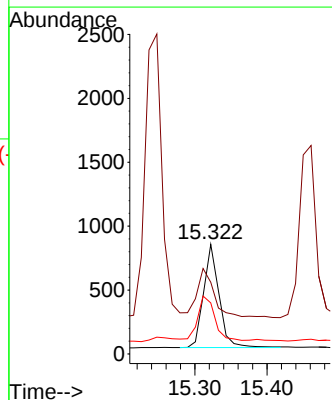
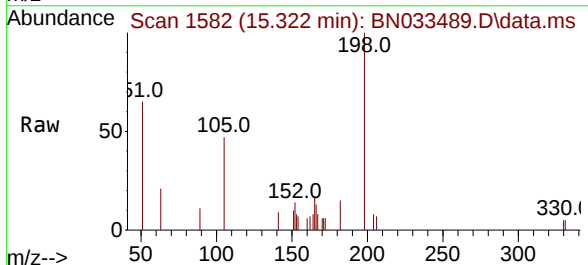
Tgt Ion:198 Resp: 1207

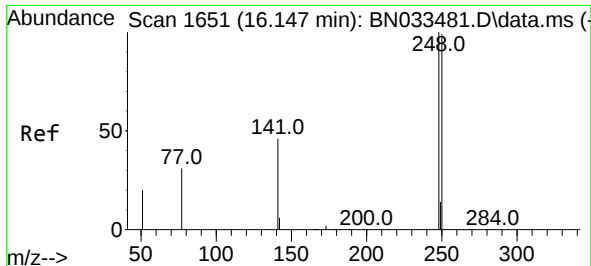
Ion Ratio Lower Upper

198 100

51 65.4 65.1 97.7

105 46.5 44.8 67.2

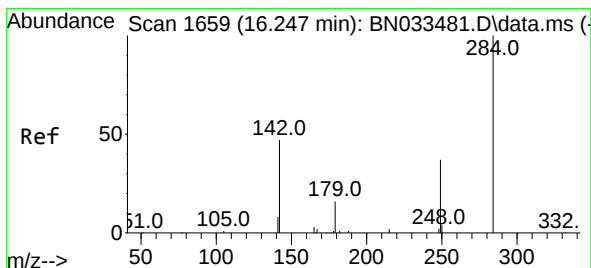
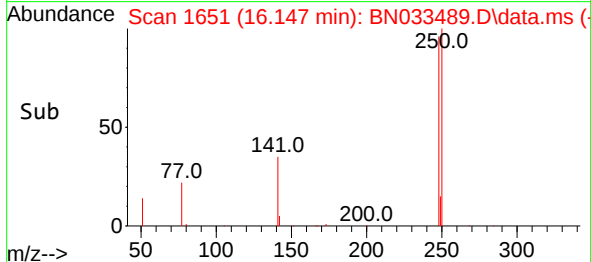
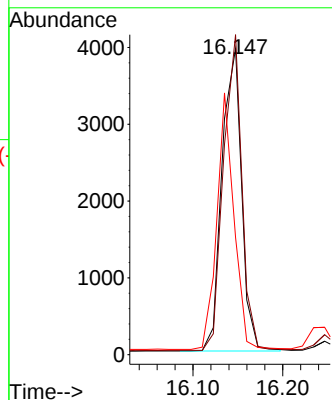
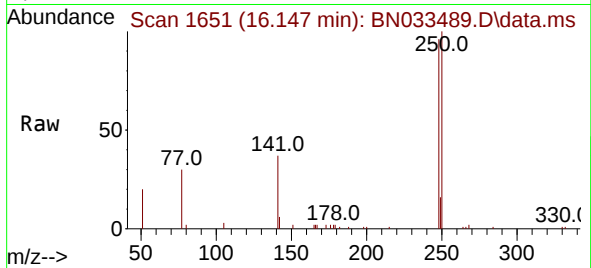




#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

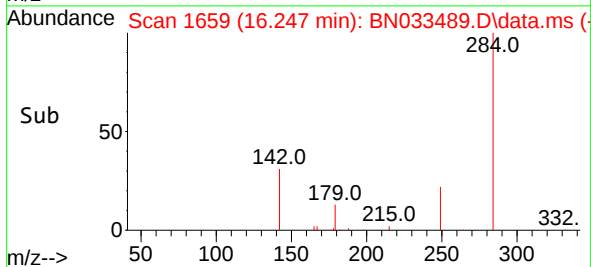
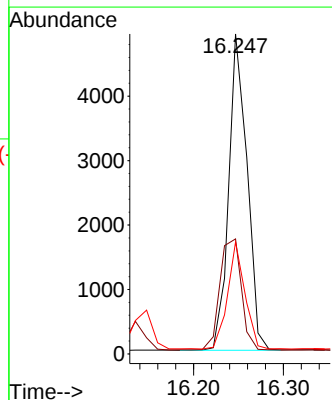
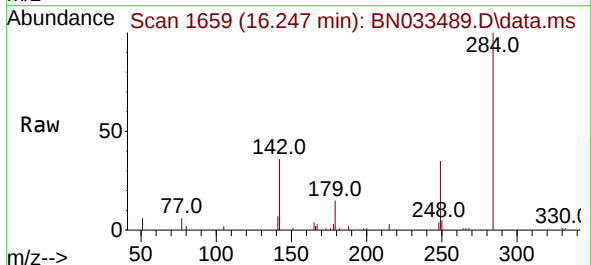
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

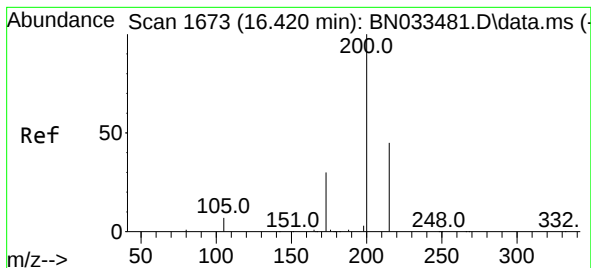
Tgt Ion:248 Resp: 5992
Ion Ratio Lower Upper
248 100
250 104.5 79.2 118.8
141 38.3 37.9 56.9



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.247 min Scan# 1659
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:284 Resp: 6968
Ion Ratio Lower Upper
284 100
142 41.1 31.8 47.6
249 31.7 26.0 39.0





#23

Atrazine

Concen: 0.326 ng

RT: 16.421 min Scan# 1673

Delta R.T. 0.000 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

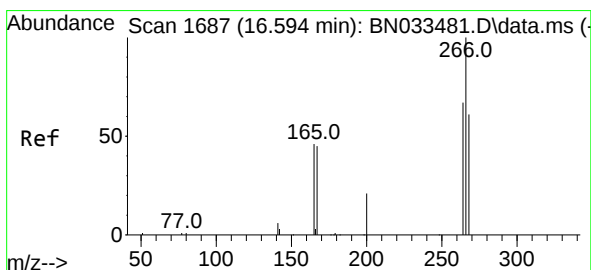
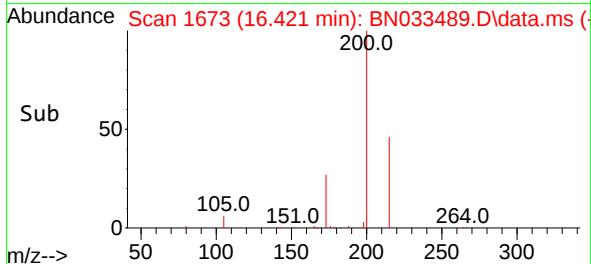
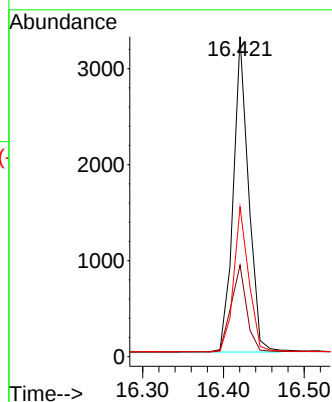
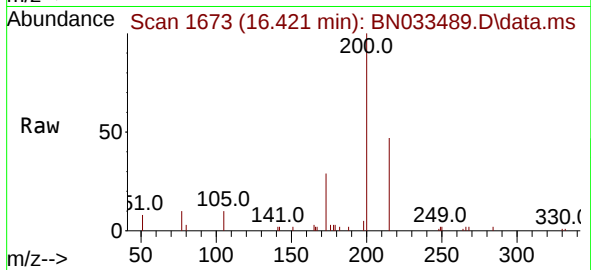
Tgt Ion:200 Resp: 4319

Ion Ratio Lower Upper

200 100

173 28.6 25.3 37.9

215 46.7 36.6 54.8



#24

Pentachlorophenol

Concen: 0.288 ng

RT: 16.594 min Scan# 1687

Delta R.T. 0.000 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

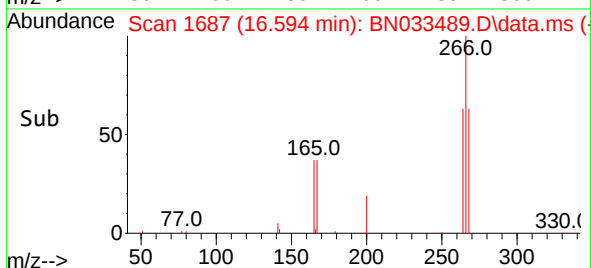
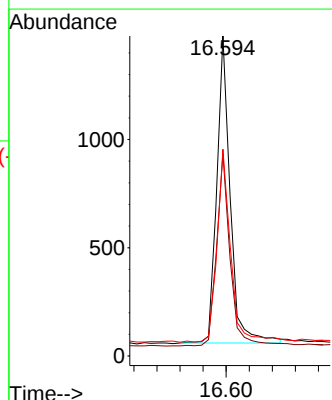
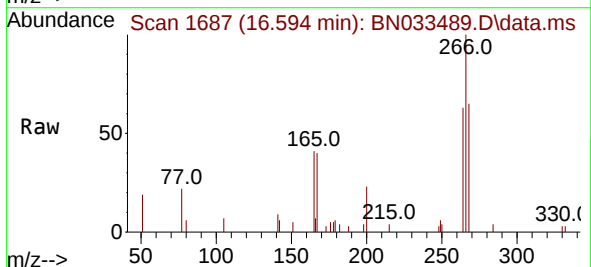
Tgt Ion:266 Resp: 2289

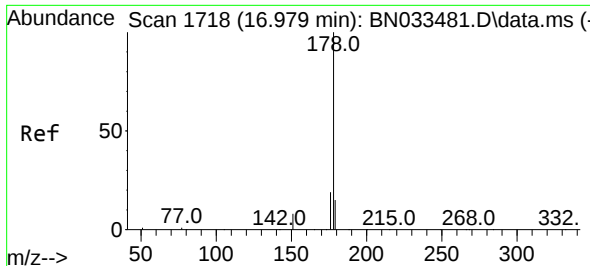
Ion Ratio Lower Upper

266 100

264 62.5 51.9 77.9

268 63.8 51.0 76.4

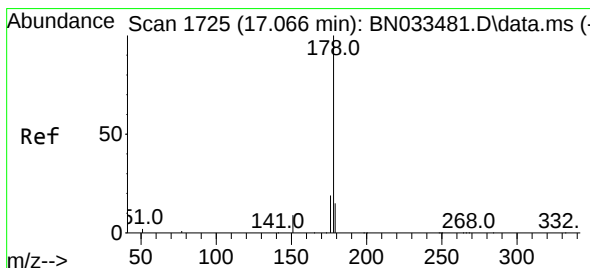
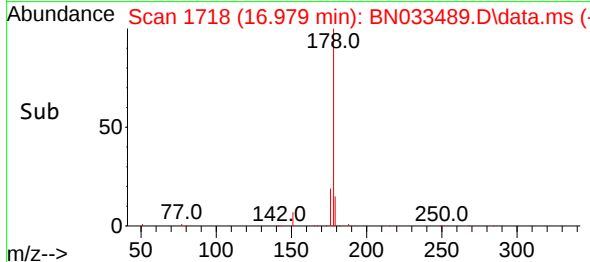
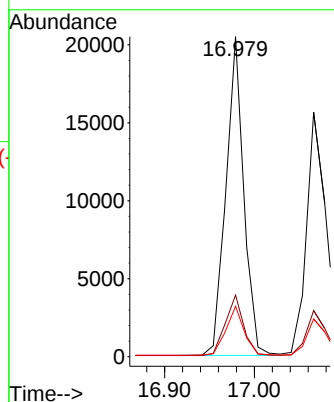
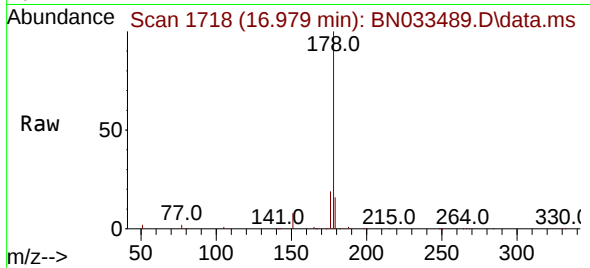




#25
Phenanthrene
Concen: 0.373 ng
RT: 16.979 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

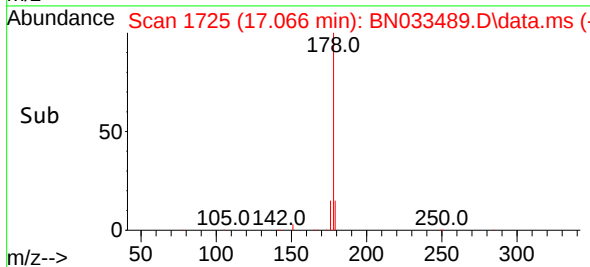
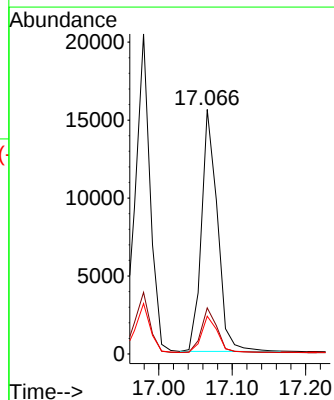
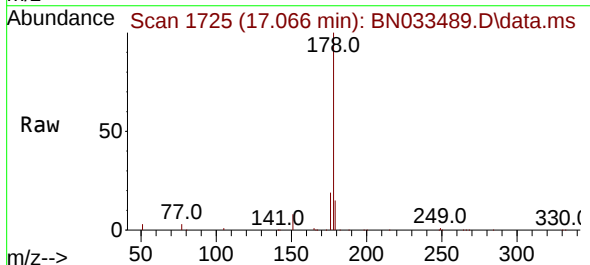
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

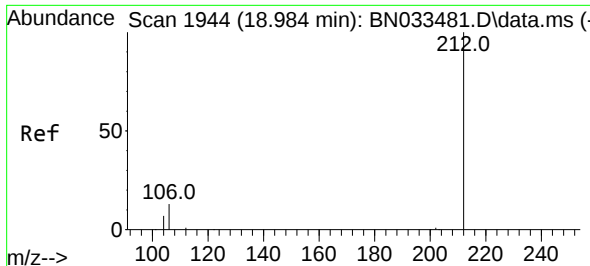
Tgt Ion:178 Resp: 28352
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.5 12.3 18.5



#26
Anthracene
Concen: 0.349 ng
RT: 17.066 min Scan# 1725
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:178 Resp: 23445
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.4 18.6

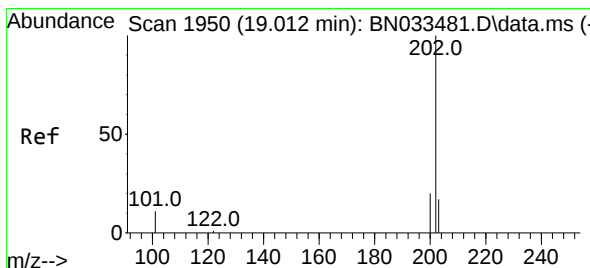
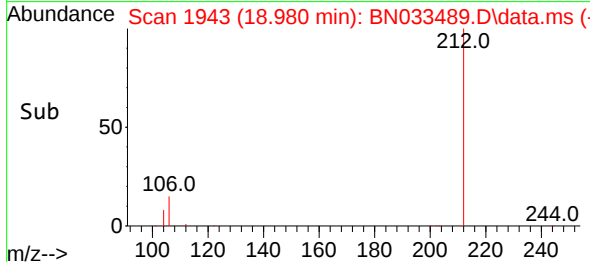
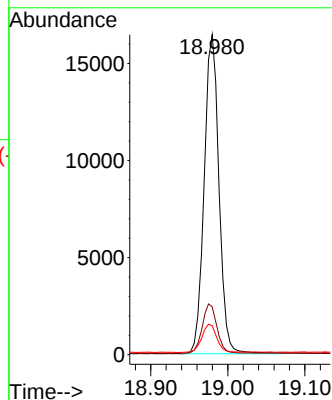
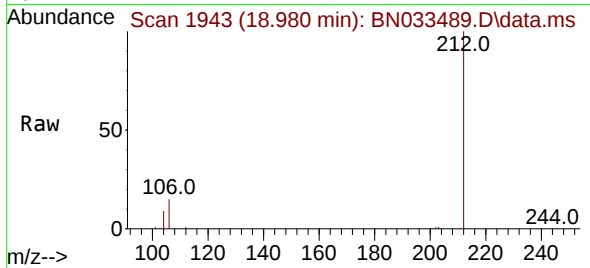




#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 18.980 min Scan# 1943
Delta R.T. -0.005 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

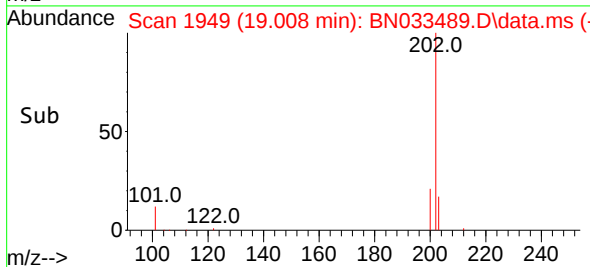
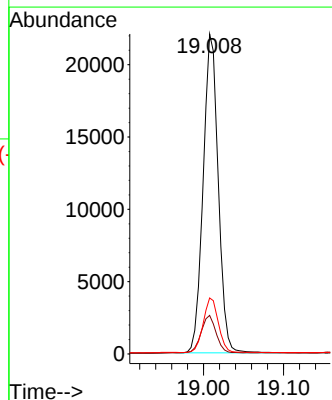
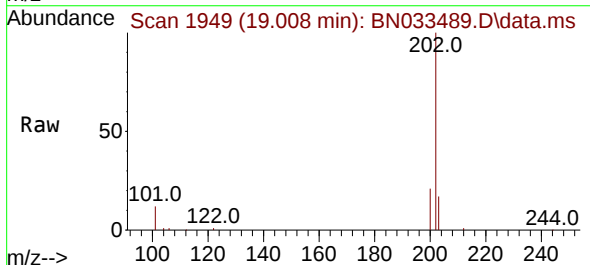
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

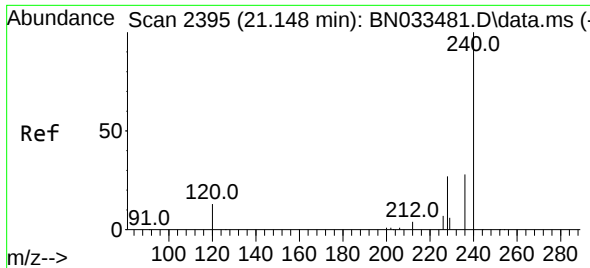
Tgt Ion:212 Resp: 21914
Ion Ratio Lower Upper
212 100
106 15.5 12.3 18.5
104 8.9 7.0 10.4



#28
Fluoranthene
Concen: 0.343 ng
RT: 19.008 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:202 Resp: 28847
Ion Ratio Lower Upper
202 100
101 12.0 9.5 14.3
203 17.2 13.8 20.6

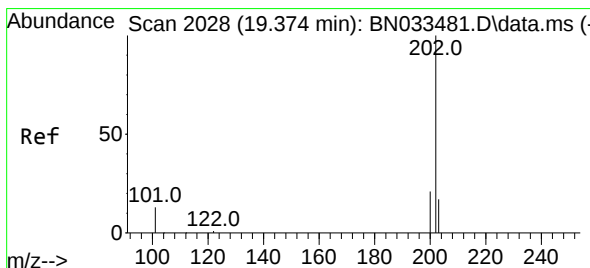
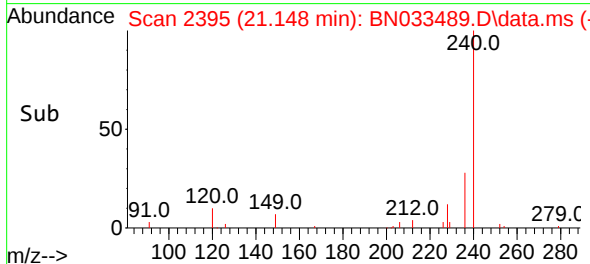
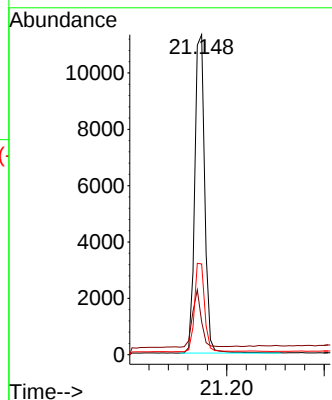
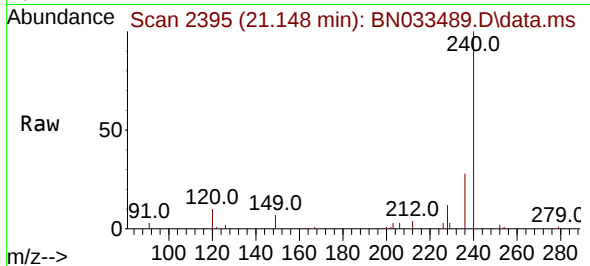




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

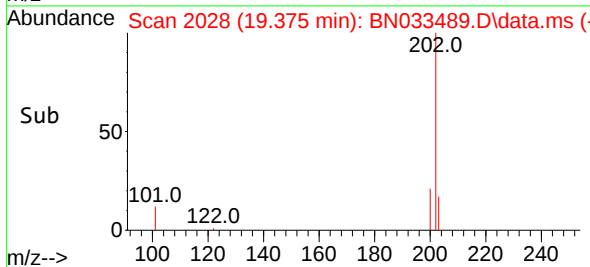
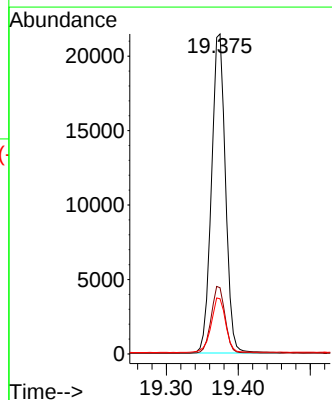
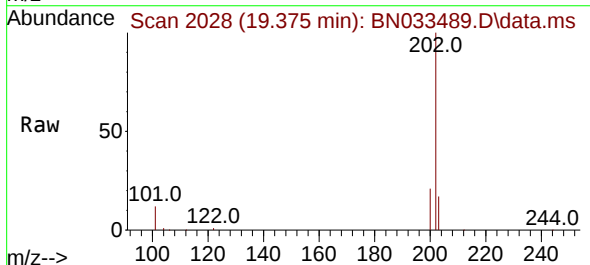
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

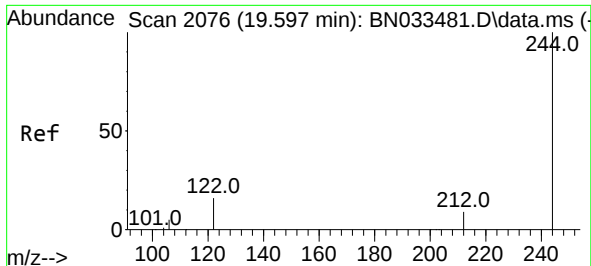
Tgt Ion:240 Resp: 15982
Ion Ratio Lower Upper
240 100
120 10.3 12.4 18.6#
236 28.3 23.0 34.6



#30
Pyrene
Concen: 0.404 ng
RT: 19.375 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:202 Resp: 28803
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 17.8 14.2 21.4

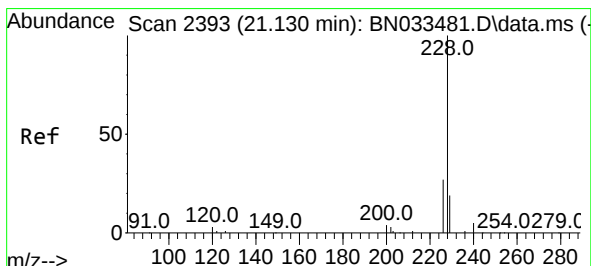
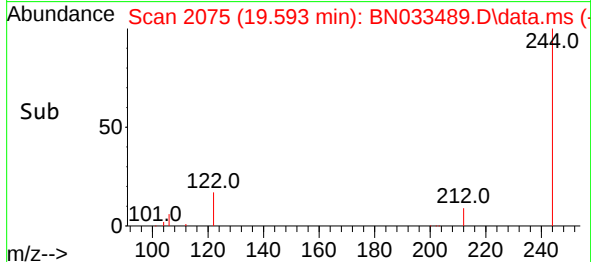
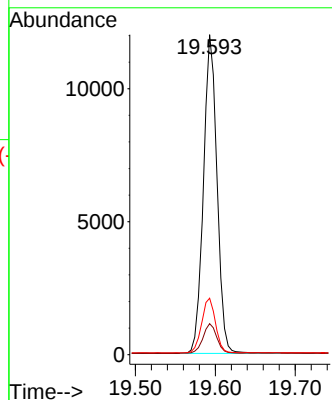
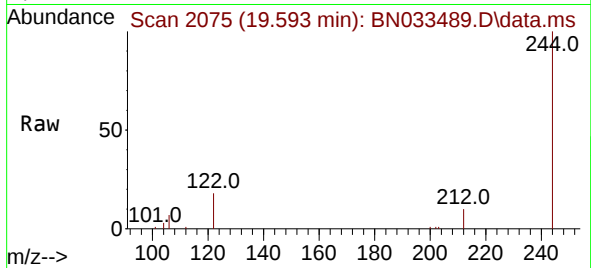




#31
Terphenyl-d14
Concen: 0.390 ng
RT: 19.593 min Scan# 2076
Delta R.T. -0.005 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

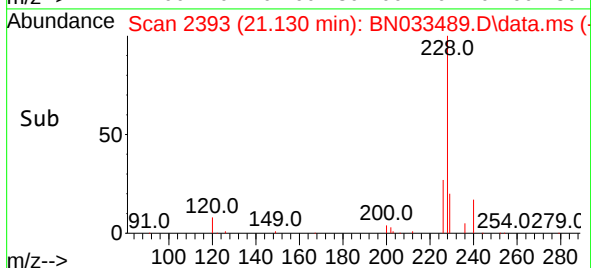
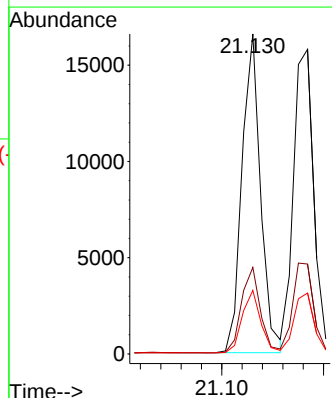
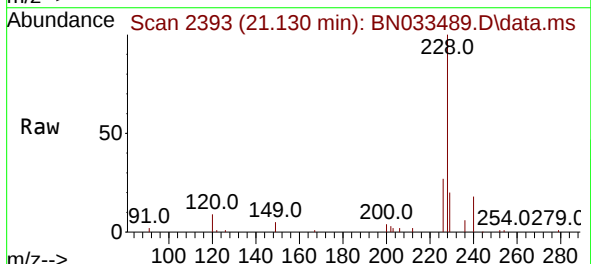
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

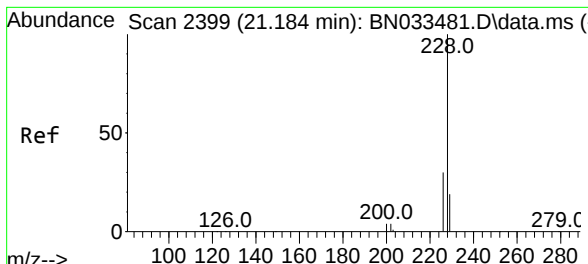
Tgt Ion:244 Resp: 14166
Ion Ratio Lower Upper
244 100
212 9.7 7.8 11.6
122 17.7 13.3 19.9



#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.130 min Scan# 2393
Delta R.T. 0.000 min
Lab File: BN033489.D
Acq: 20 Aug 2024 04:44

Tgt Ion:228 Resp: 21018
Ion Ratio Lower Upper
228 100
226 27.1 21.8 32.6
229 19.9 15.8 23.6





#33

Chrysene

Concen: 0.377 ng

RT: 21.184 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

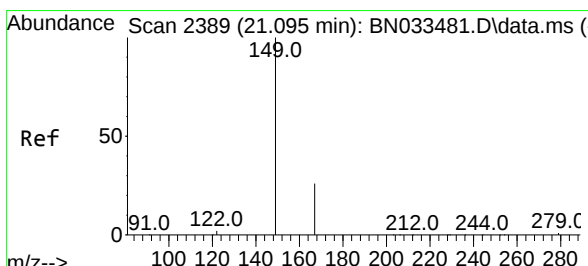
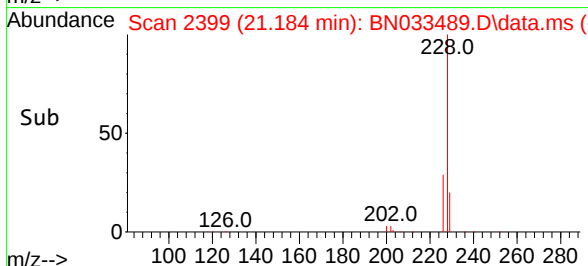
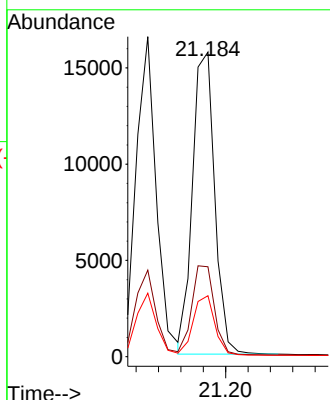
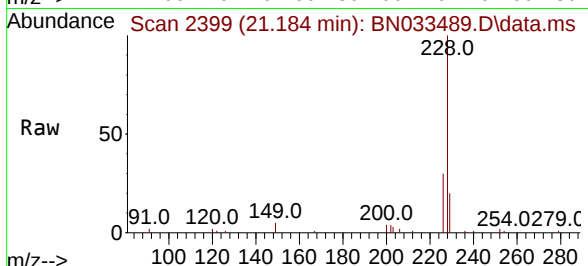
Tgt Ion:228 Resp: 21631

Ion Ratio Lower Upper

228 100

226 29.5 23.8 35.8

229 20.0 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.323 ng

RT: 21.095 min Scan# 2389

Delta R.T. 0.000 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

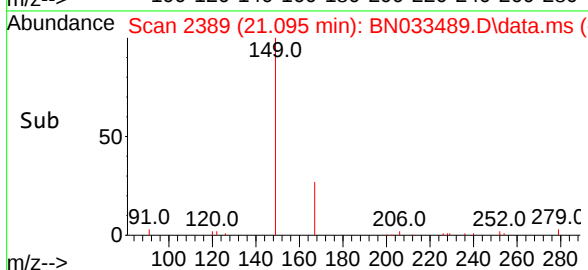
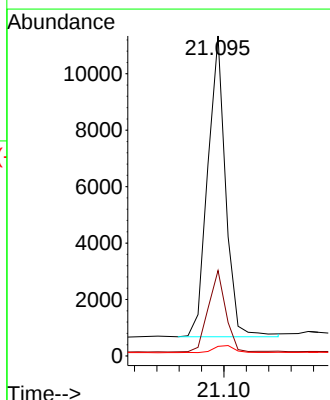
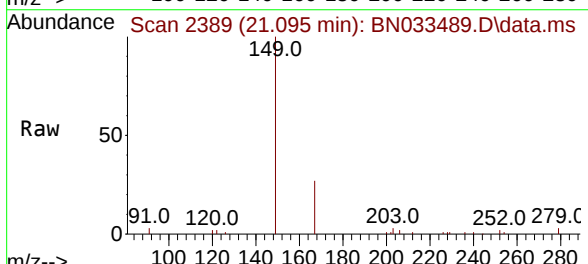
Tgt Ion:149 Resp: 11819

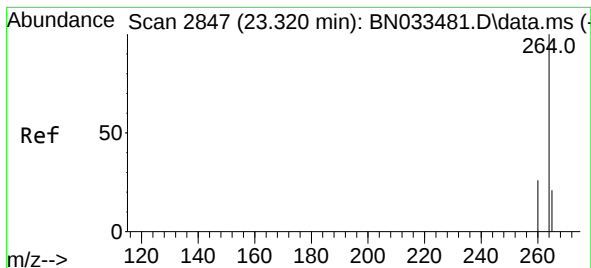
Ion Ratio Lower Upper

149 100

167 26.4 21.5 32.3

279 2.7 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.315 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

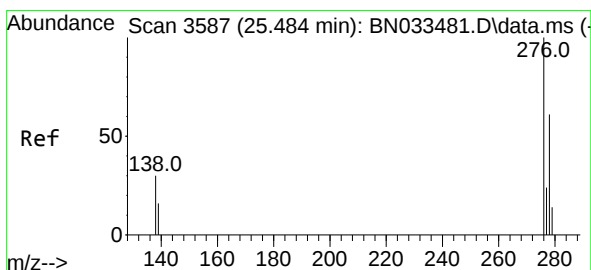
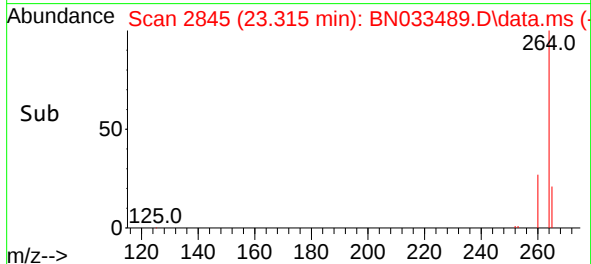
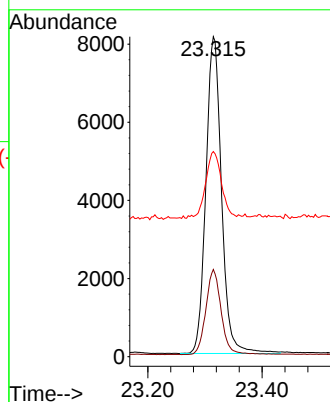
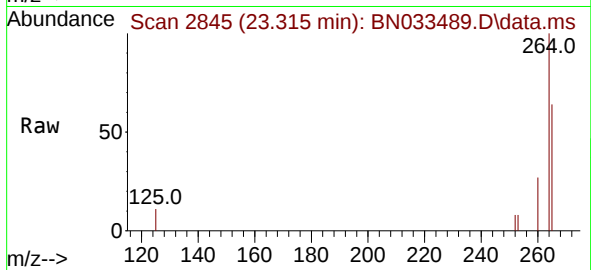
Tgt Ion:264 Resp: 15401

Ion Ratio Lower Upper

264 100

260 27.3 20.8 31.2

265 64.1 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.375 ng

RT: 25.472 min Scan# 3583

Delta R.T. -0.012 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

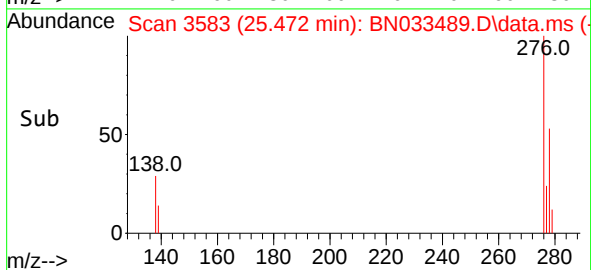
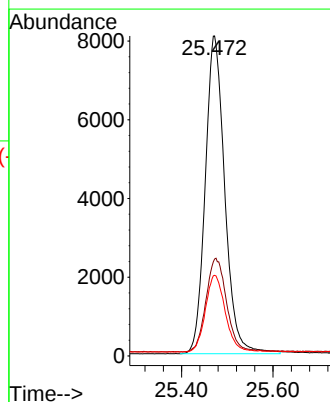
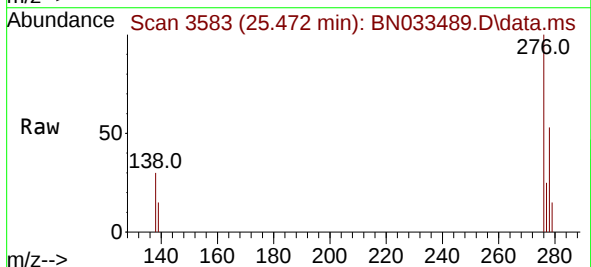
Tgt Ion:276 Resp: 23975

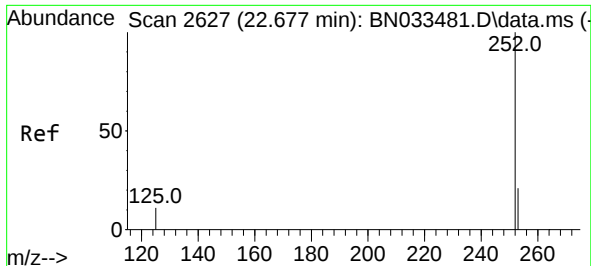
Ion Ratio Lower Upper

276 100

138 31.1 24.4 36.6

277 24.5 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.381 ng

RT: 22.671 min Scan# 2625

Delta R.T. -0.006 min

Lab File: BN033489.D

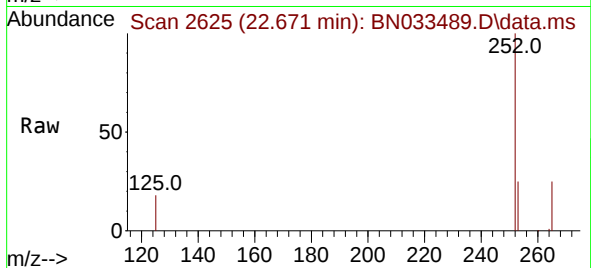
Acq: 20 Aug 2024 04:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



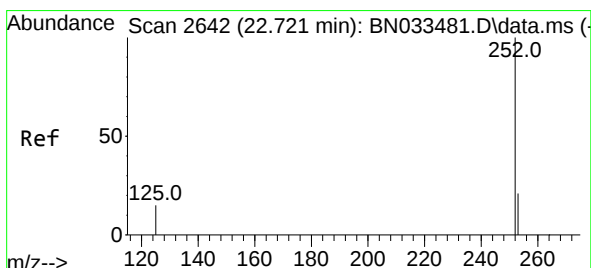
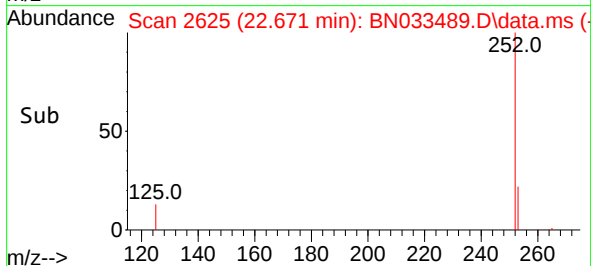
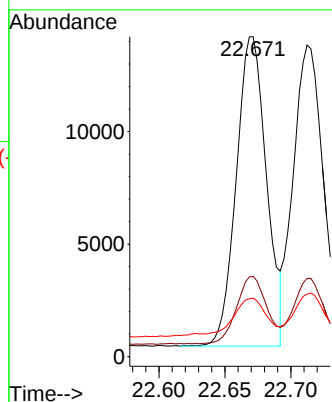
Tgt Ion:252 Resp: 21917

Ion Ratio Lower Upper

252 100

253 25.1 19.8 29.8

125 18.3 13.9 20.9



#38

Benzo(k)fluoranthene

Concen: 0.380 ng

RT: 22.712 min Scan# 2639

Delta R.T. -0.009 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

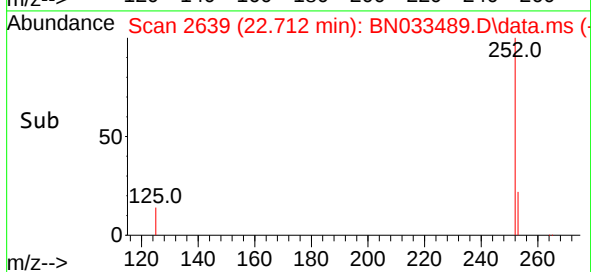
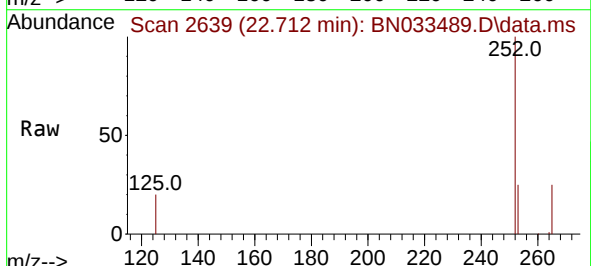
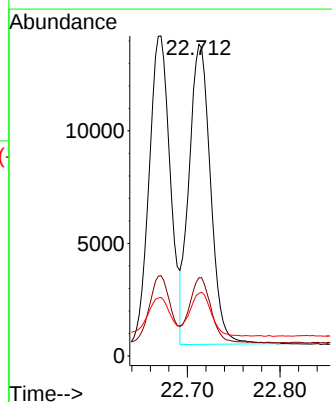
Tgt Ion:252 Resp: 21498

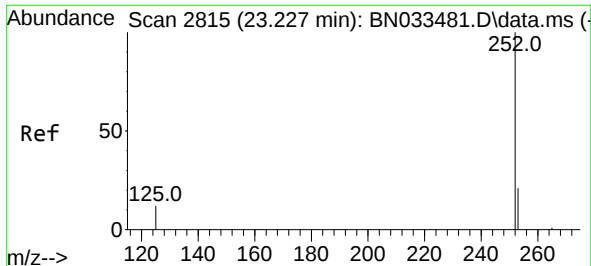
Ion Ratio Lower Upper

252 100

253 25.1 19.8 29.8

125 20.1 15.8 23.8





#39

Benzo(a)pyrene

Concen: 0.350 ng

RT: 23.221 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

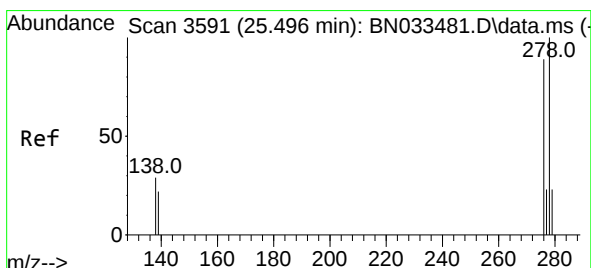
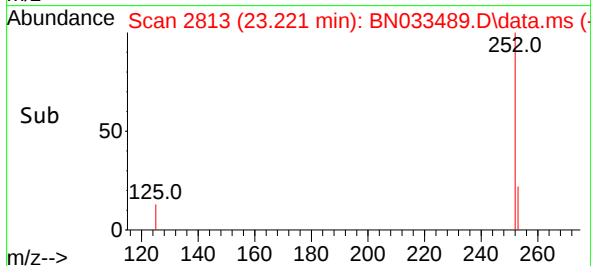
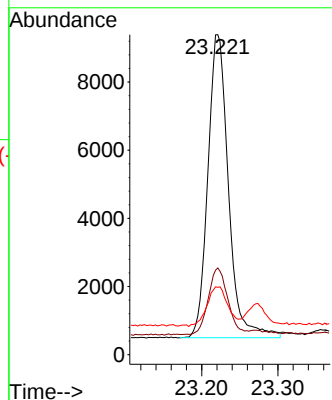
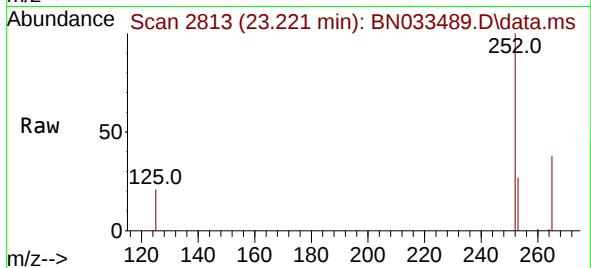
Tgt Ion:252 Resp: 16672

Ion Ratio Lower Upper

252 100

253 27.1 21.5 32.3

125 21.1 17.0 25.4



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

RT: 25.490 min Scan# 3589

Delta R.T. -0.006 min

Lab File: BN033489.D

Acq: 20 Aug 2024 04:44

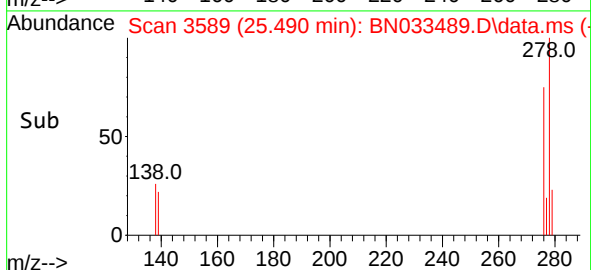
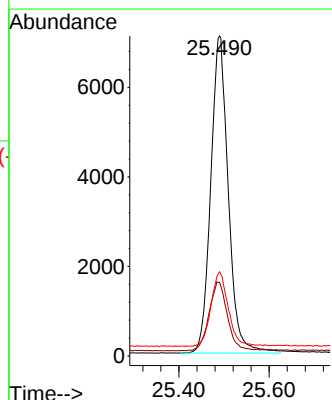
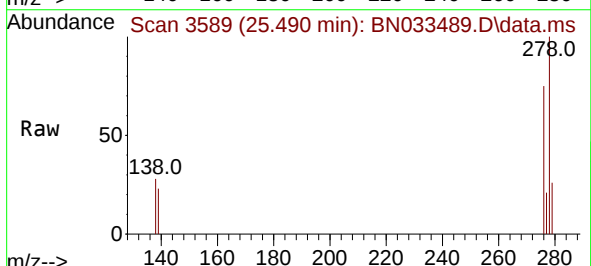
Tgt Ion:278 Resp: 19084

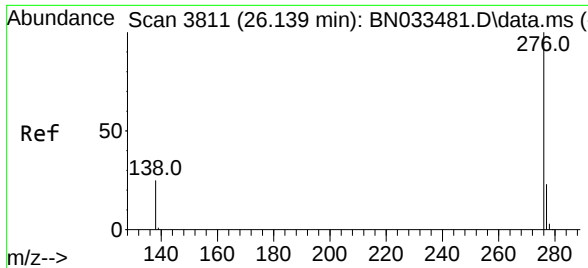
Ion Ratio Lower Upper

278 100

139 23.0 19.1 28.7

279 26.3 21.0 31.4

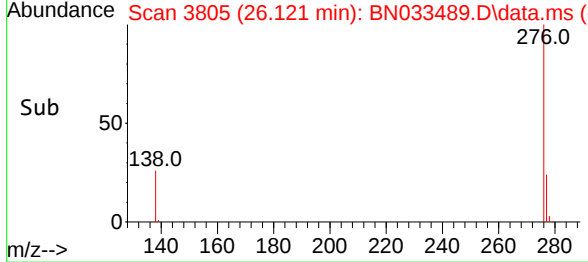
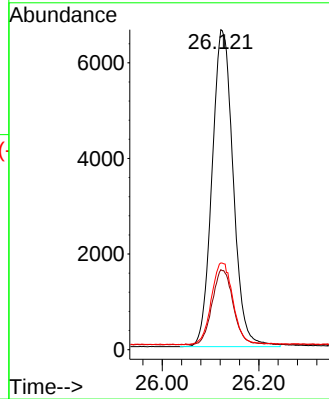
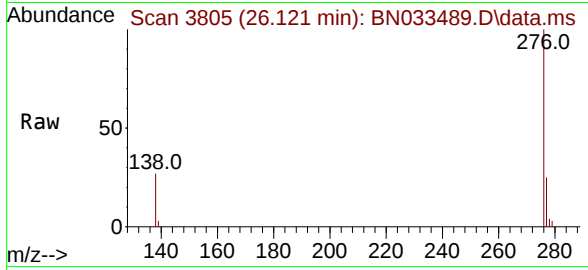




#41
 Benzo(g,h,i)perylene
 Concen: 0.369 ng
 RT: 26.121 min Scan# 3805
 Delta R.T. -0.017 min
 Lab File: BN033489.D
 Acq: 20 Aug 2024 04:44

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion:	276	Resp:	20155
Ion Ratio	Lower	Upper	
276	100		
277	25.0	19.7	29.5
138	27.1	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033489.D
 Acq On : 20 Aug 2024 04:44
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 20 05:11:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 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	73	0.00
2	1,4-Dioxane	0.460	0.396	13.9	87	0.00
3	n-Nitrosodimethylamine	0.535	0.463	13.5	74	0.00
4 S	2-Fluorophenol	1.271	1.003	21.1	57	0.00
5 S	Phenol-d6	1.512	1.274	15.7	68	0.00
6	bis(2-Chloroethyl)ether	1.072	1.015	5.3	98	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	104	0.00
8 S	Nitrobenzene-d5	0.332	0.284	14.5	97	0.00
9	Naphthalene	1.069	0.986	7.8	108	0.00
10	Hexachlorobutadiene	0.213	0.196	8.0	105	0.00
11 SURR	2-Methylnaphthalene-d10	0.572	0.523	8.6	110	0.00
12	2-Methylnaphthalene	0.677	0.626	7.5	111	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00
14 S	2,4,6-Tribromophenol	0.215	0.163	24.2	98	0.00
15 S	2-Fluorobiphenyl	1.634	1.511	7.5	113	0.00
16	Acenaphthylene	1.754	1.526	13.0	110	-0.01
17	Acenaphthene	1.234	1.122	9.1	113	0.00
18	Fluorene	1.555	1.402	9.8	113	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
20	4,6-Dinitro-2-methylphenol	0.062	0.044	29.0#	96	0.00
21	4-Bromophenyl-phenylether	0.243	0.219	9.9	110	0.00
22	Hexachlorobenzene	0.268	0.255	4.9	114	0.00
23	Atrazine	0.194	0.158	18.6	102	0.00
24	Pentachlorophenol	0.116	0.084	27.6#	97	0.00
25	Phenanthrene	1.113	1.038	6.7	112	0.00
26	Anthracene	0.985	0.858	12.9	109	0.00
27 SURR	Fluoranthene-d10	0.961	0.802	16.5	103	0.00
28	Fluoranthene	1.230	1.056	14.1	106	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	99	0.00
30	Pyrene	1.785	1.802	-1.0	105	0.00
31 S	Terphenyl-d14	0.909	0.886	2.5	102	0.00
32	Benzo(a)anthracene	1.446	1.315	9.1	99	0.00
33	Chrysene	1.437	1.353	5.8	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.915	0.740	19.1	90	0.00
35 I	Perylene-d12	1.000	1.000	0.0	97	0.00
36	Indeno(1,2,3-cd)pyrene	1.661	1.557	6.3	98	-0.01
37	Benzo(b)fluoranthene	1.494	1.423	4.8	103	0.00
38	Benzo(k)fluoranthene	1.470	1.396	5.0	102	0.00
39 C	Benzo(a)pyrene	1.236	1.083	12.4	96	0.00
40	Dibenzo(a,h)anthracene	1.328	1.239	6.7	98	0.00
41	Benzo(g,h,i)perylene	1.420	1.309	7.8	98	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
 Data File : BN033489.D
 Acq On : 20 Aug 2024 04:44
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 20 05:11:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 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	73	0.00
2	1,4-Dioxane	0.400	0.345	13.8	87	0.00
3	n-Nitrosodimethylamine	0.400	0.346	13.5	74	0.00
4 S	2-Fluorophenol	0.400	0.315	21.3	57	0.00
5 S	Phenol-d6	0.400	0.337	15.8	68	0.00
6	bis(2-Chloroethyl)ether	0.400	0.379	5.3	98	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	104	0.00
8 S	Nitrobenzene-d5	0.400	0.343	14.2	97	0.00
9	Naphthalene	0.400	0.369	7.8	108	0.00
10	Hexachlorobutadiene	0.400	0.367	8.3	105	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.366	8.5	110	0.00
12	2-Methylnaphthalene	0.400	0.370	7.5	111	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	111	0.00
14 S	2,4,6-Tribromophenol	0.400	0.304	24.0	98	0.00
15 S	2-Fluorobiphenyl	0.400	0.370	7.5	113	0.00
16	Acenaphthylene	0.400	0.348	13.0	110	-0.01
17	Acenaphthene	0.400	0.364	9.0	113	0.00
18	Fluorene	0.400	0.361	9.8	113	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	112	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.283	29.3#	96	0.00
21	4-Bromophenyl-phenylether	0.400	0.361	9.8	110	0.00
22	Hexachlorobenzene	0.400	0.380	5.0	114	0.00
23	Atrazine	0.400	0.326	18.5	102	0.00
24	Pentachlorophenol	0.400	0.288	28.0#	97	0.00
25	Phenanthrene	0.400	0.373	6.8	112	0.00
26	Anthracene	0.400	0.349	12.8	109	0.00
27 SURR	Fluoranthene-d10	0.400	0.334	16.5	103	0.00
28	Fluoranthene	0.400	0.343	14.2	106	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	99	0.00
30	Pyrene	0.400	0.404	-1.0	105	0.00
31 S	Terphenyl-d14	0.400	0.390	2.5	102	0.00
32	Benzo(a)anthracene	0.400	0.364	9.0	99	0.00
33	Chrysene	0.400	0.377	5.8	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.323	19.3	90	0.00
35 I	Perylene-d12	0.400	0.400	0.0	97	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.375	6.3	98	-0.01
37	Benzo(b)fluoranthene	0.400	0.381	4.8	103	0.00
38	Benzo(k)fluoranthene	0.400	0.380	5.0	102	0.00
39 C	Benzo(a)pyrene	0.400	0.350	12.5	96	0.00
40	Dibenzo(a,h)anthracene	0.400	0.373	6.8	98	0.00
41	Benzo(g,h,i)perylene	0.400	0.369	7.8	98	-0.02

(#) = Out of Range

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



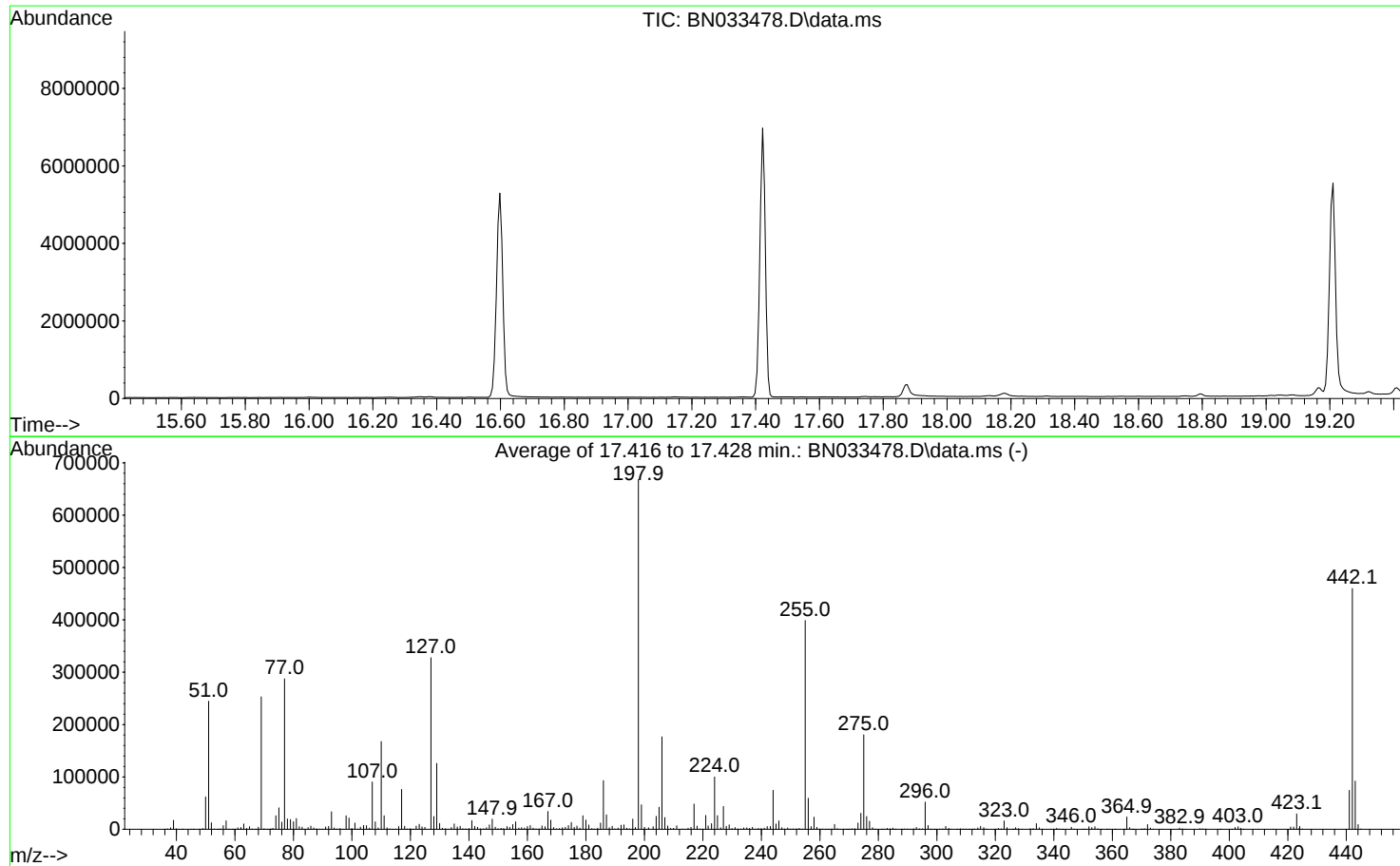
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033478.D
Acq On : 19 Aug 2024 15:37
Operator : MA/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-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 19 23:32:18 2024



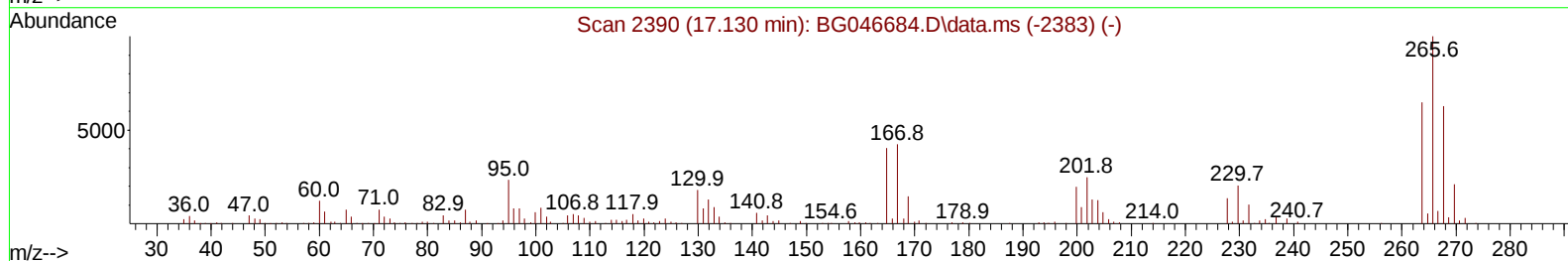
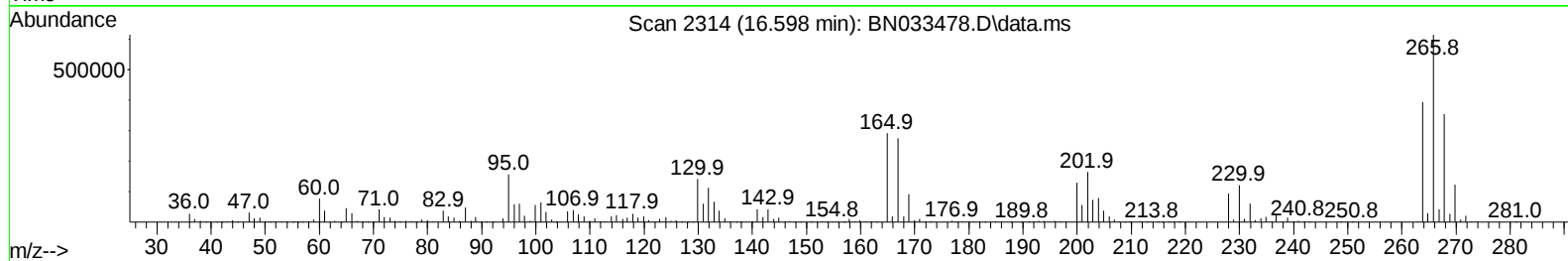
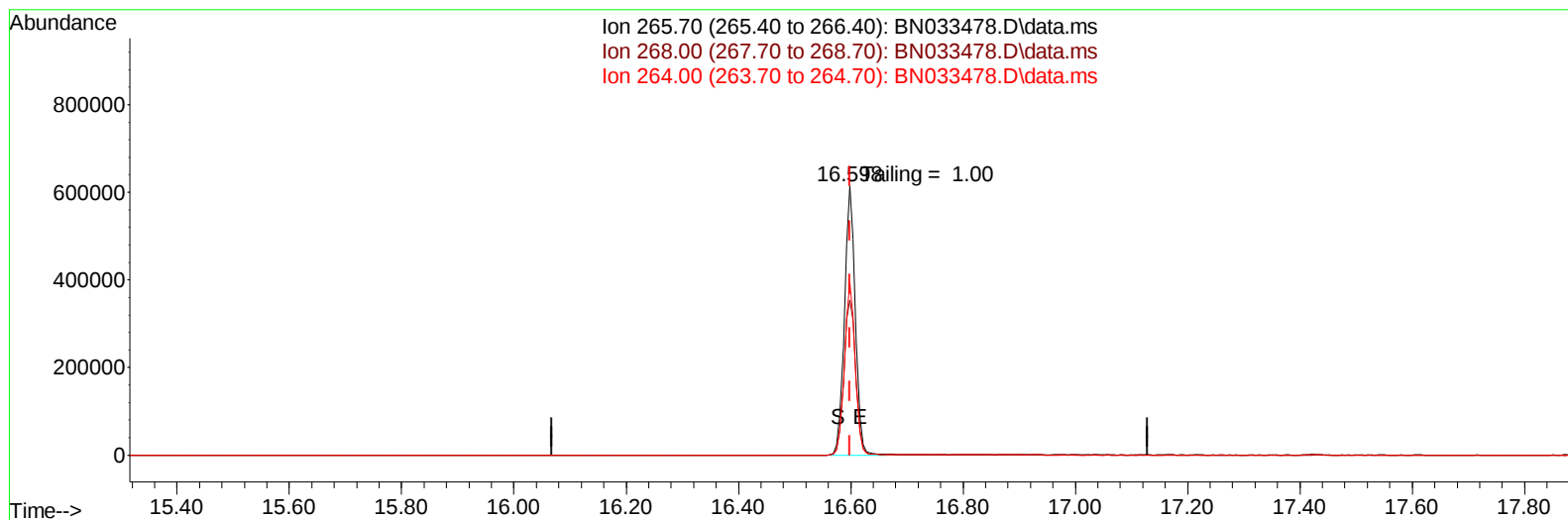
AutoFind: Scans 2453, 2454, 2455; Background Corrected with Scan 2446

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.6	244669	PASS
68	69	0.00	2	1.6	3975	PASS
69	198	0.00	100	37.9	253111	PASS
70	69	0.00	2	0.4	1124	PASS
127	198	10	80	49.1	327765	PASS
197	198	0.00	2	0.5	3324	PASS
198	198	100	100	100.0	667925	PASS
199	198	5	9	7.0	46784	PASS
275	198	10	60	27.0	180331	PASS
365	198	1	100	3.5	23424	PASS
441	198	0.01	100	11.2	74525	PASS
442	442	50	100	100.0	459861	PASS
443	442	15	24	20.0	92101	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033478.D
Acq On : 19 Aug 2024 15:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:50:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 20 04:49:48 2024
Response via : Initial Calibration



TIC: BN033478.D\data.ms

(70) Pentachlorophenol (C)

16.598min (-0.000) 25243.84 ng

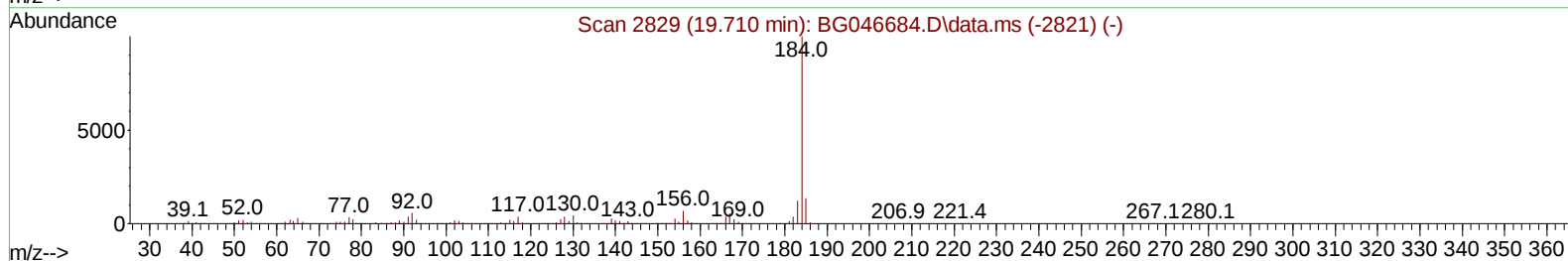
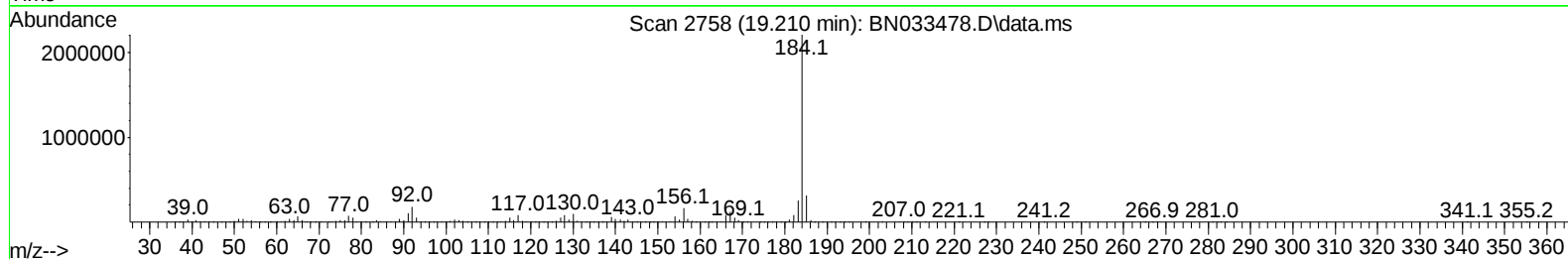
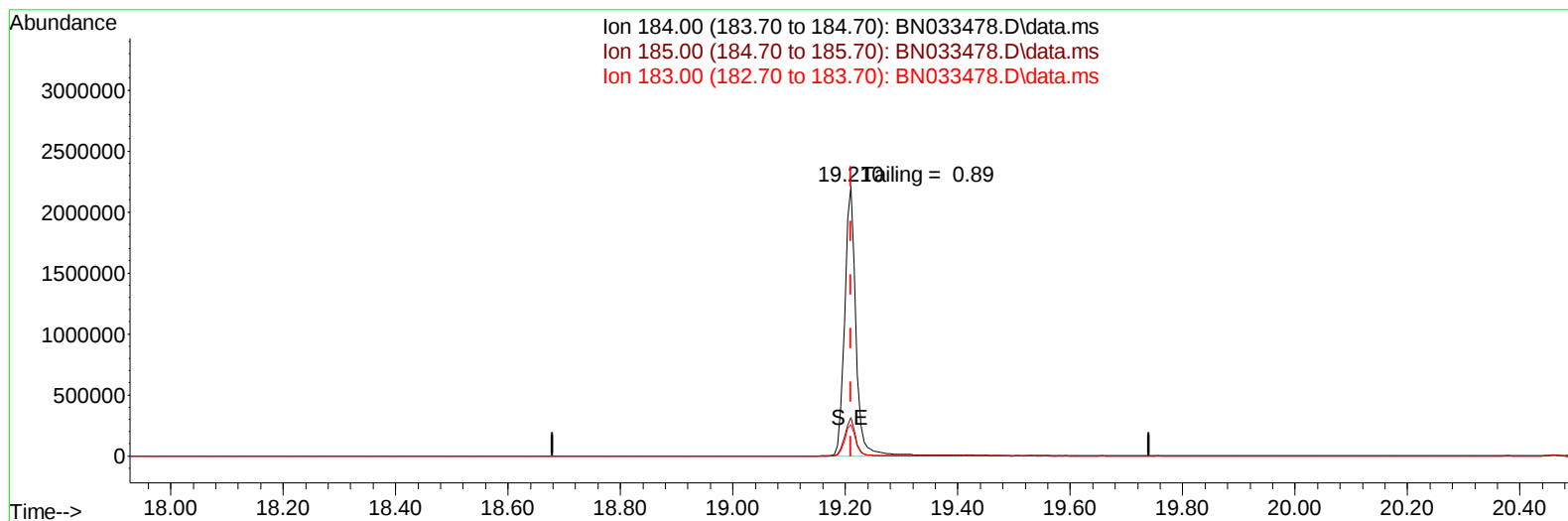
response 836211

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	57.76
264.00	61.60	64.04
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033478.D
Acq On : 19 Aug 2024 15:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:50:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 20 04:49:48 2024
Response via : Initial Calibration



TIC: BN033478.D\data.ms

(77) Benzidine

19.210min (-0.000) 1831888.84 ng

response 3105776

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.31
183.00	13.20	11.63
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

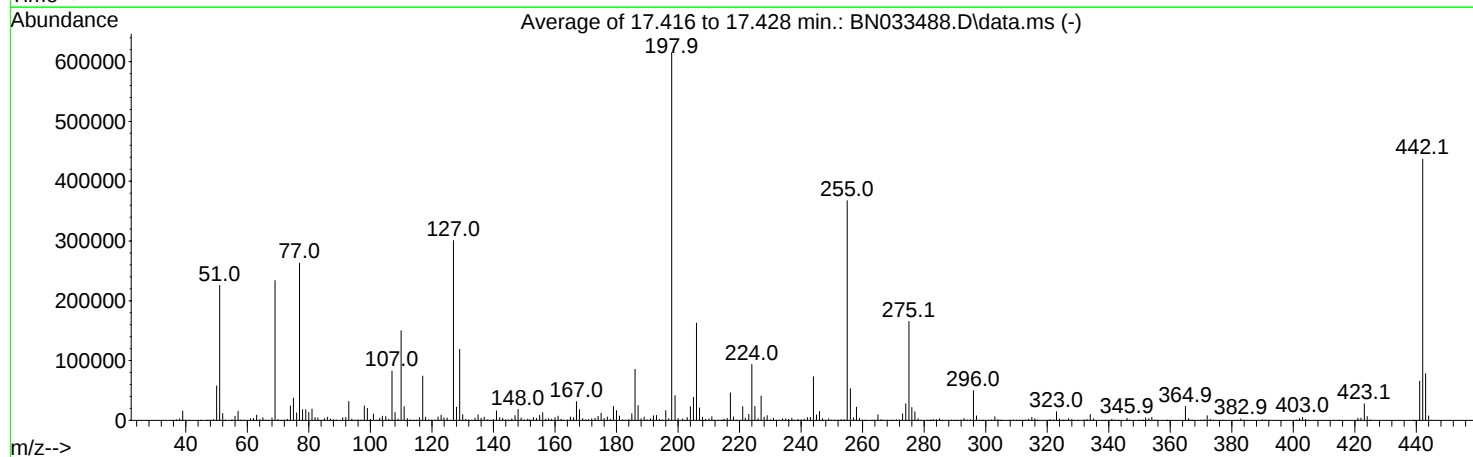
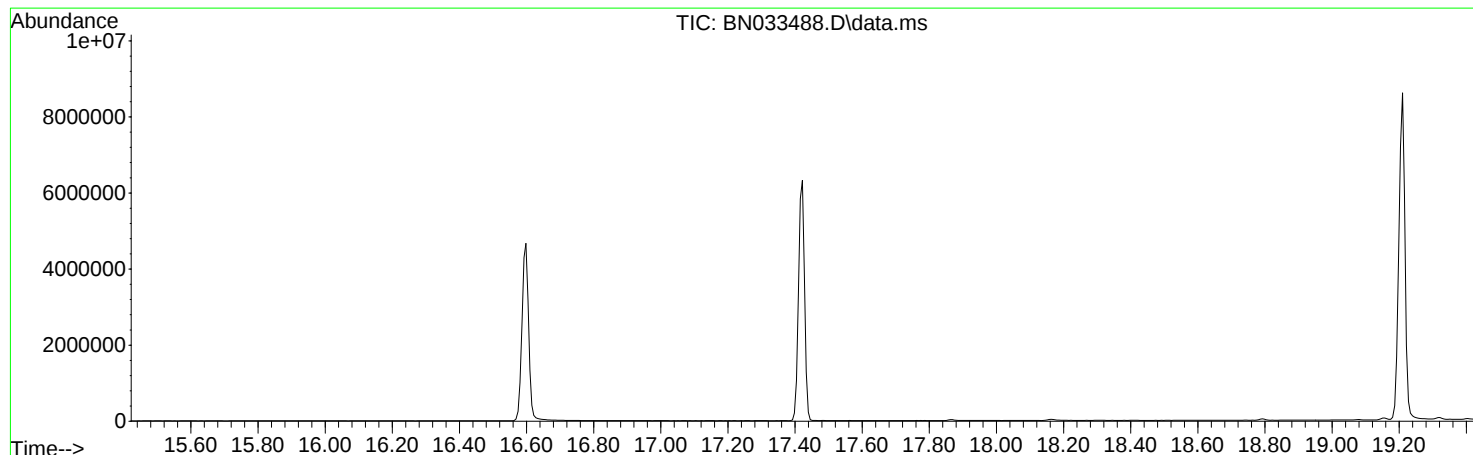
Date	Instrument Name	DFTPP Data File
8/19/2024	BNA_N	<u>BN033478.D</u>
Compound Name	Response	Retention Time
DDT	2164760	20.463
DDD	37665	20.016
DDE	773	19.51
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
38438	2203198	1.74

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033488.D
Acq On : 20 Aug 2024 04:04
Operator : MA/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-BN081924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Aug 19 23:32:18 2024



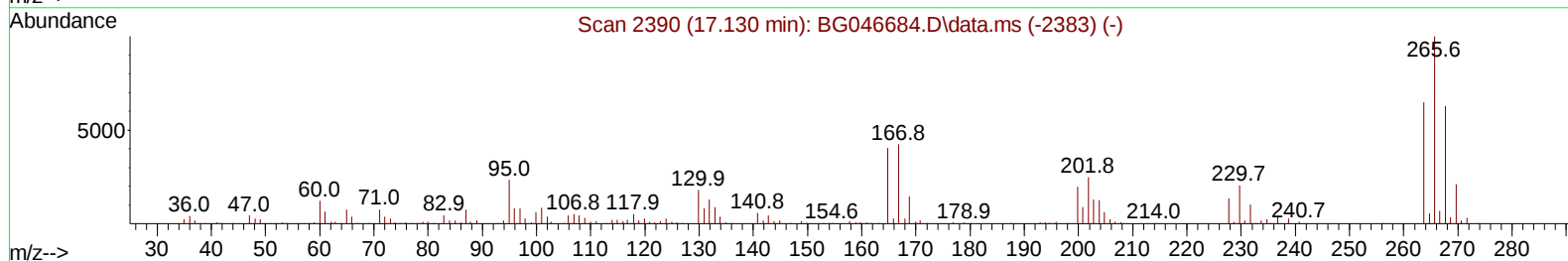
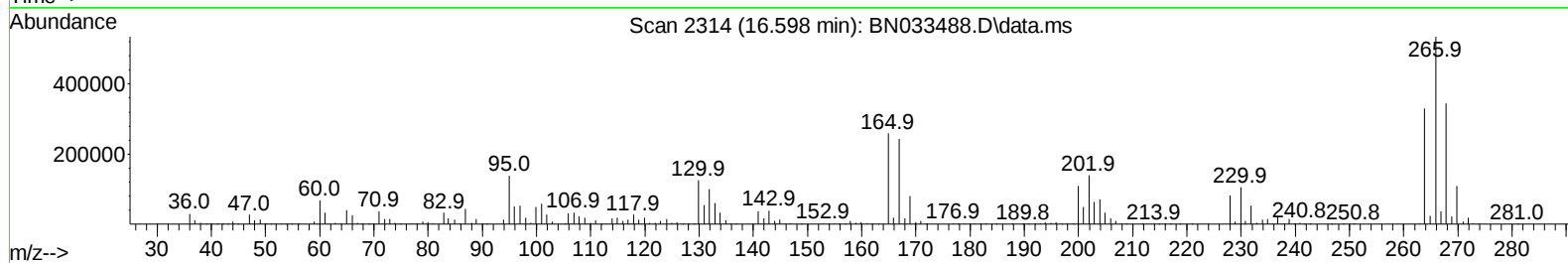
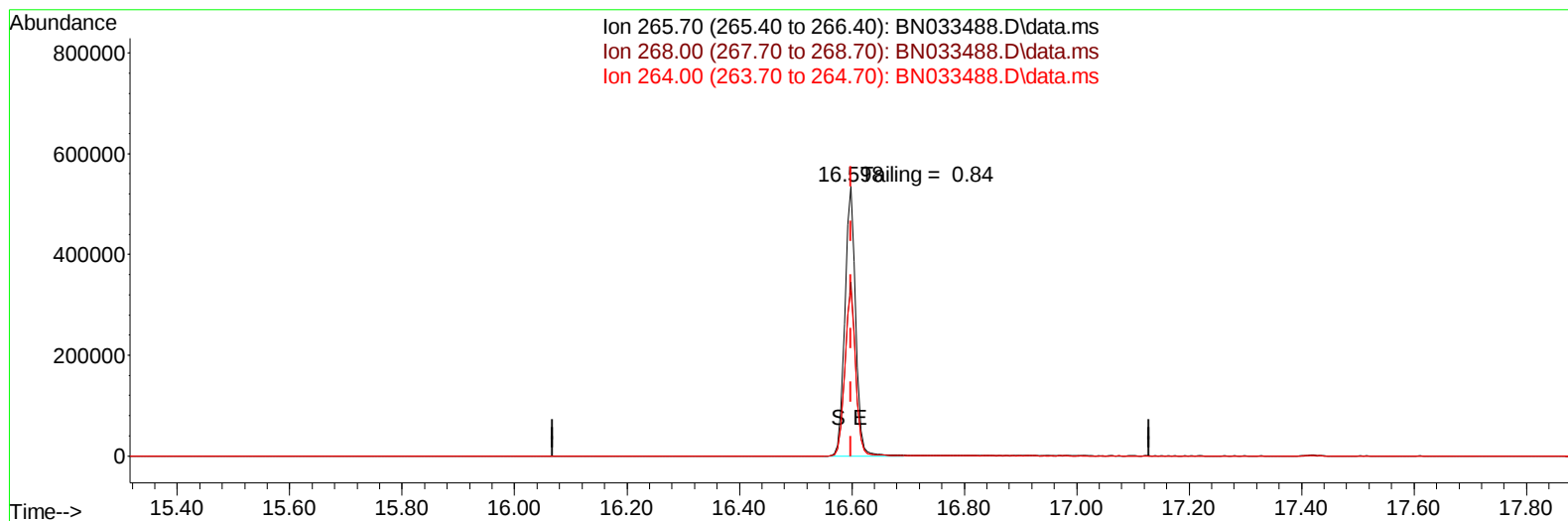
AutoFind: Scans 2453, 2454, 2455; Background Corrected with Scan 2445

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.7	225531	PASS
68	69	0.00	2	1.7	3948	PASS
69	198	0.00	100	38.0	233941	PASS
70	69	0.00	2	0.5	1218	PASS
127	198	10	80	48.9	300736	PASS
197	198	0.00	2	0.5	3029	PASS
198	198	100	100	100.0	615275	PASS
199	198	5	9	6.8	41555	PASS
275	198	10	60	26.9	165448	PASS
365	198	1	100	3.8	23208	PASS
441	198	0.01	100	10.6	65525	PASS
442	442	50	100	100.0	436715	PASS
443	442	15	24	17.9	78141	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033488.D
Acq On : 20 Aug 2024 04:04
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:49:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 20 04:49:48 2024
Response via : Initial Calibration



TIC: BN033488.D\data.ms

(70) Pentachlorophenol (C)

16.598min (0.000) 23305.39 ng

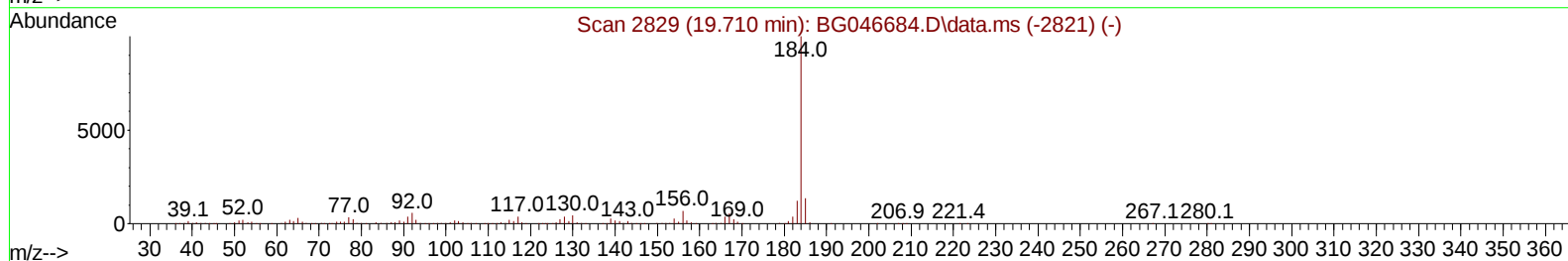
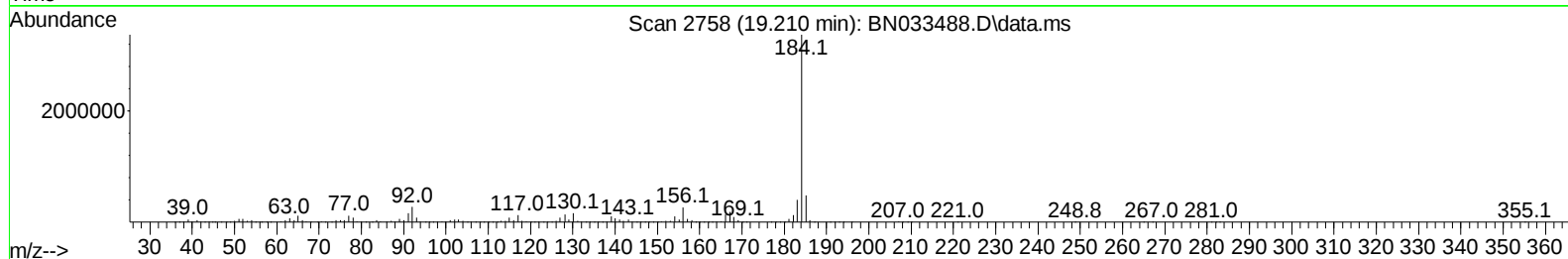
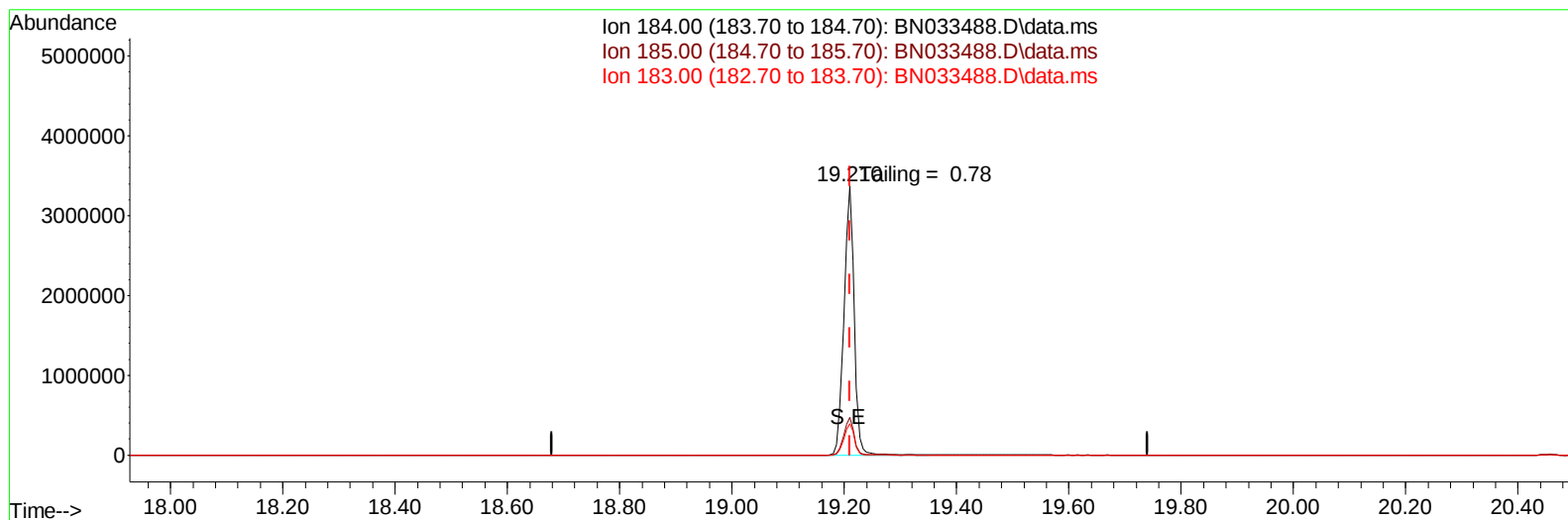
response 721703

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.39
264.00	61.60	61.61
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033488.D
Acq On : 20 Aug 2024 04:04
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 04:49:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 20 04:49:48 2024
Response via : Initial Calibration



TIC: BN033488.D\data.ms

(77) Benzidine

19.210min (0.000) 0.00 ng

response 4312132

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.14
183.00	13.20	11.75
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/19/2024	BNA_N	<u>BN033488.D</u>
Compound Name	Response	Retention Time
DDT	2112901	20.457
DDD	33939	20.01
DDE	827	19.504
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
34766	2147667	1.62

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162821BL	SDG No.:	P3657
Lab Sample ID:	PB162821BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033490.D	1	08/19/24 09:50	08/20/24 05:20	PB162821

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.020	U	0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.020	U	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.020	U	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	U	0.020	0.10	ug/L
206-44-0	Fluoranthene	0.020	U	0.020	0.10	ug/L
129-00-0	Pyrene	0.020	U	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	U	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.030	U	0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 (20) - 150 (139)	80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 (30) - 150 (150)	77%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		30 (27) - 130 (123)	81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		30 (34) - 130 (132)	90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		30 (35) - 130 (157)	90%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8450	7.552			
1146-65-2	Naphthalene-d8	21600	10.314			
15067-26-2	Acenaphthene-d10	9510	14.189			
1517-22-2	Phenanthrene-d10	18100	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162821BL	SDG No.:	P3657
Lab Sample ID:	PB162821BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033490.D	1	08/19/24 09:50	08/20/24 05:20	PB162821

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	11000	21.148			
1520-96-3	Perylene-d12	11500	23.317			

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\BN081924\
 Data File : BN033490.D
 Acq On : 20 Aug 2024 05:20
 Operator : MA/JU
 Sample : PB162821BL
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB162821BL

Quant Time: Aug 20 06:45:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	8454	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	21595	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	9514	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	18114	0.400	ng	0.00
29) Chrysene-d12	21.148	240	11029	0.400	ng	0.00
35) Perylene-d12	23.317	264	11535	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	7329	0.273	ng	0.00
5) Phenol-d6	6.736	99	8420	0.263	ng	0.00
8) Nitrobenzene-d5	8.691	82	5820	0.325	ng	0.00
11) 2-Methylnaphthalene-d10	11.911	152	9891	0.320	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	999	0.195	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	13954	0.359	ng	0.00
27) Fluoranthene-d10	18.980	212	13482	0.310	ng	0.00
31) Terphenyl-d14	19.593	244	8987	0.359	ng	0.00

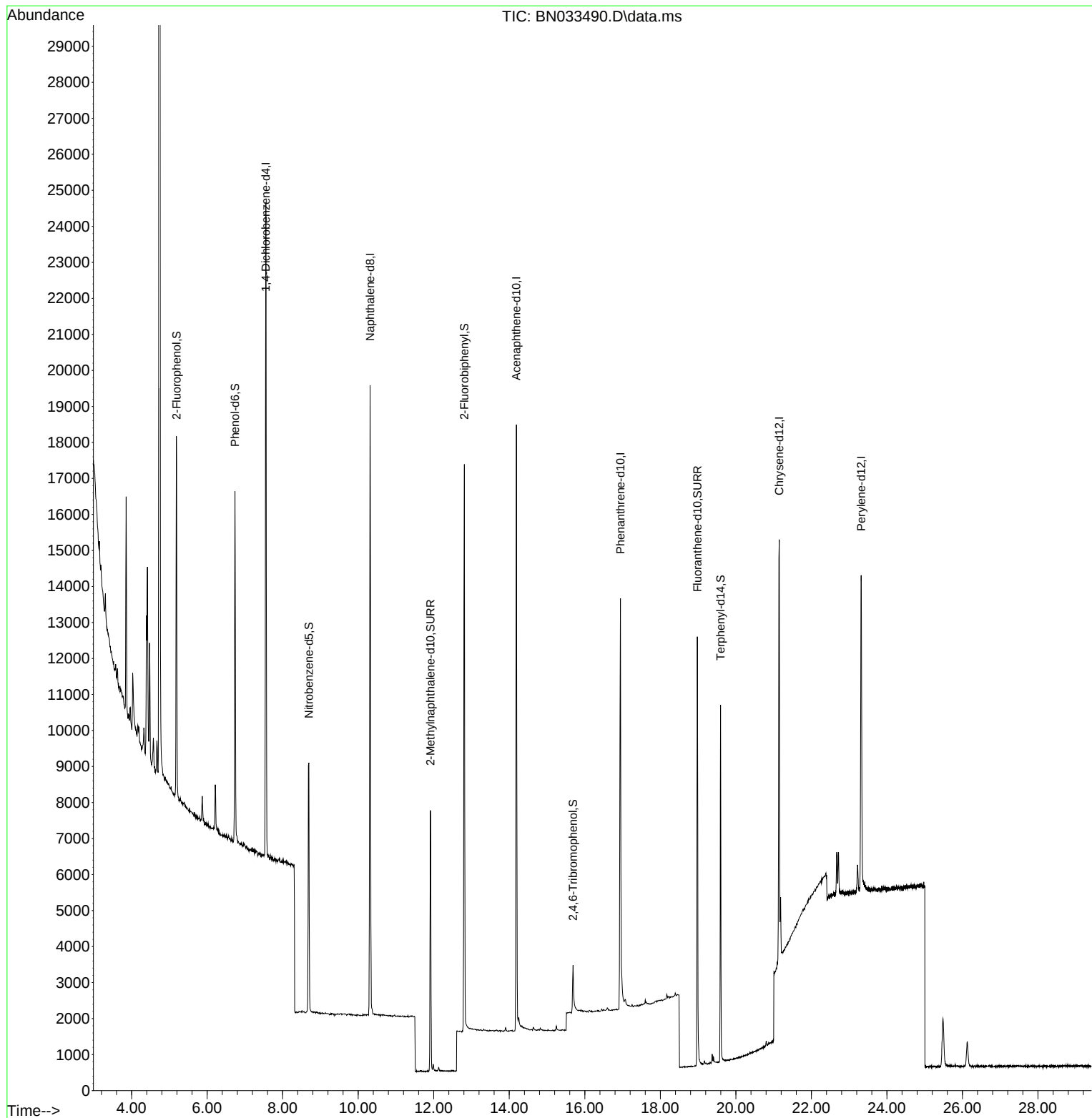
Target Compounds	Qvalue

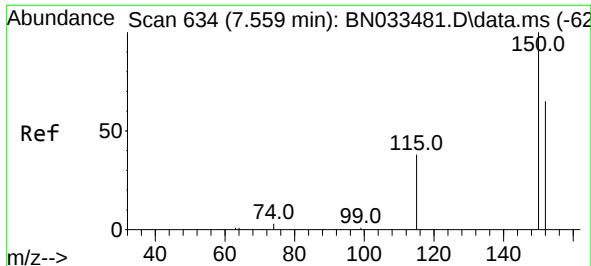
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033490.D
Acq On : 20 Aug 2024 05:20
Operator : MA/JU
Sample : PB162821BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162821BL

Quant Time: Aug 20 06:45:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

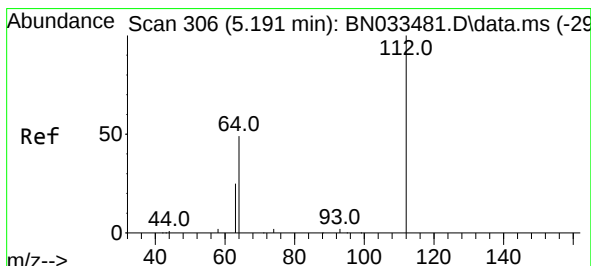
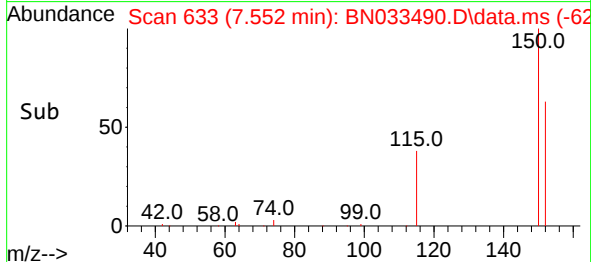
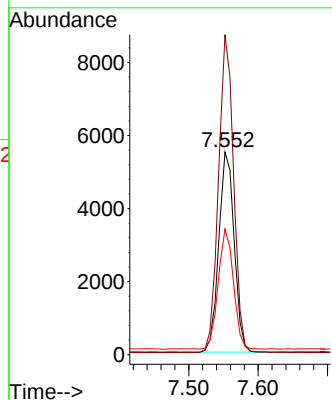
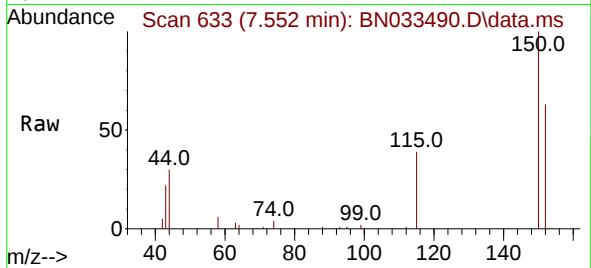




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.552 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN033490.D
 Acq: 20 Aug 2024 05:20

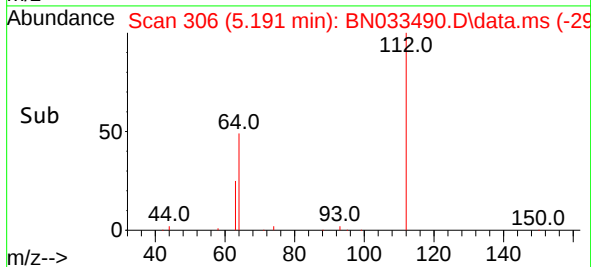
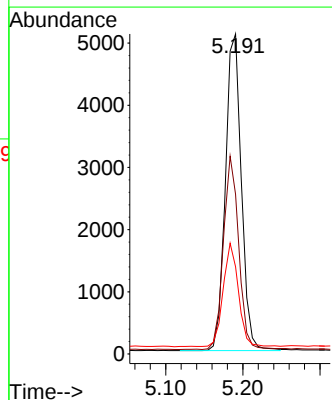
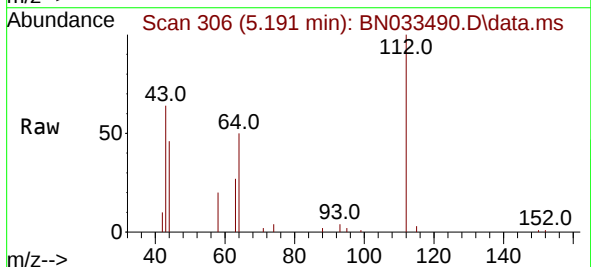
Instrument :
 BNA_N
 ClientSampleId :
 PB162821BL

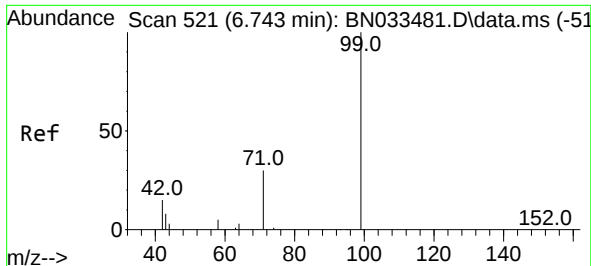
Tgt Ion:152 Resp: 8454
 Ion Ratio Lower Upper
 152 100
 150 158.0 122.2 183.2
 115 62.0 47.2 70.8



#4
 2-Fluorophenol
 Concen: 0.273 ng
 RT: 5.191 min Scan# 306
 Delta R.T. 0.000 min
 Lab File: BN033490.D
 Acq: 20 Aug 2024 05:20

Tgt Ion:112 Resp: 7329
 Ion Ratio Lower Upper
 112 100
 64 58.6 47.1 70.7
 63 30.9 24.9 37.3

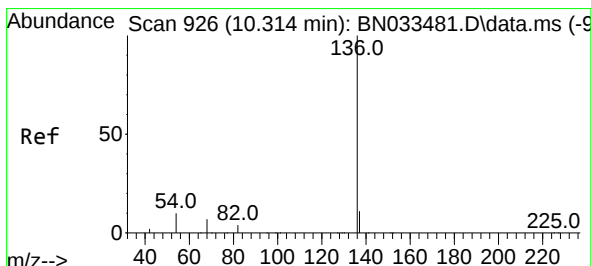
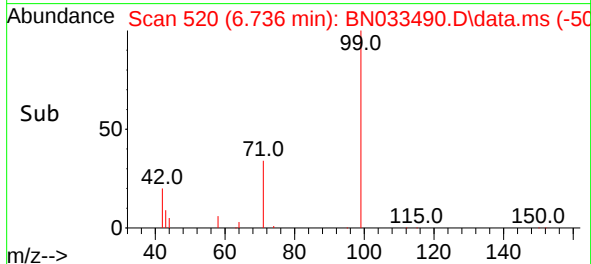
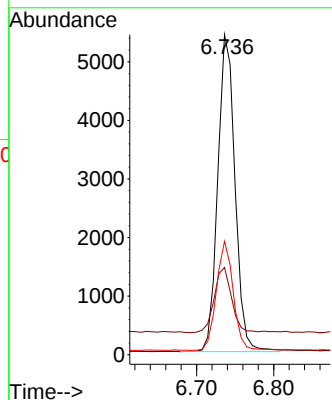
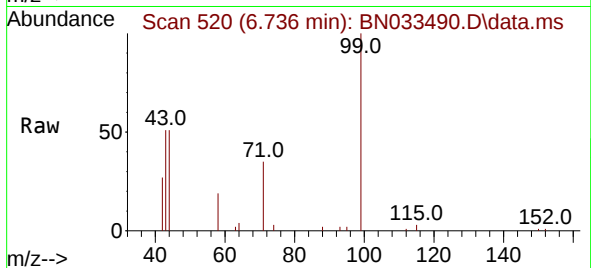




#5
Phenol-d6
Concen: 0.263 ng
RT: 6.736 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

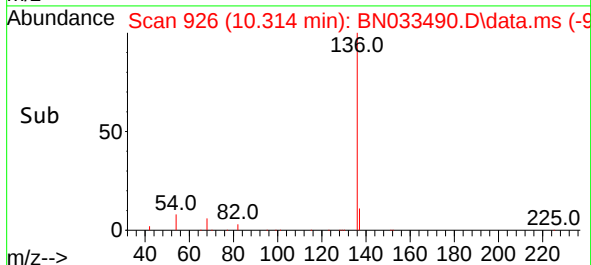
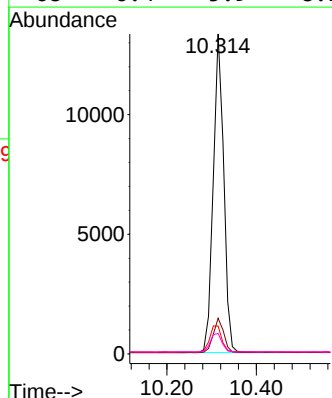
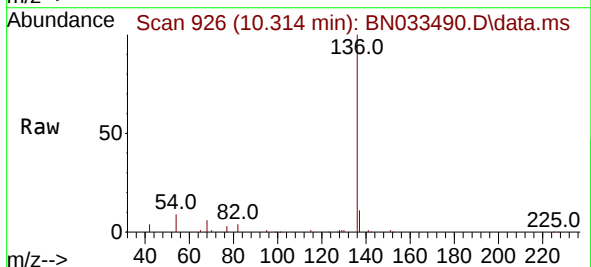
Instrument :
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ClientSampleId :
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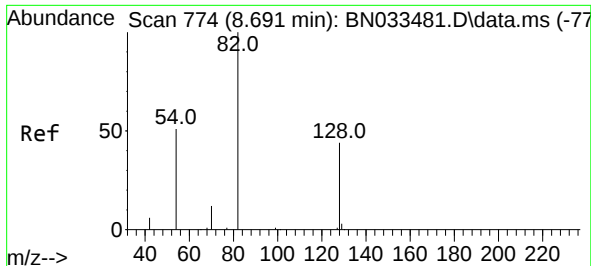
Tgt Ion: 99 Resp: 8420
Ion Ratio Lower Upper
99 100
42 20.9 16.6 24.8
71 33.6 26.2 39.4



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 926
Delta R.T. 0.000 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

Tgt Ion: 136 Resp: 21595
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 8.8 8.3 12.5
68 6.4 5.9 8.9

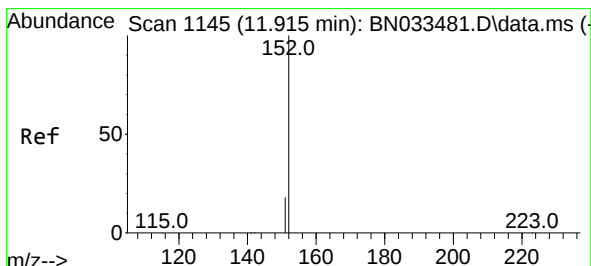
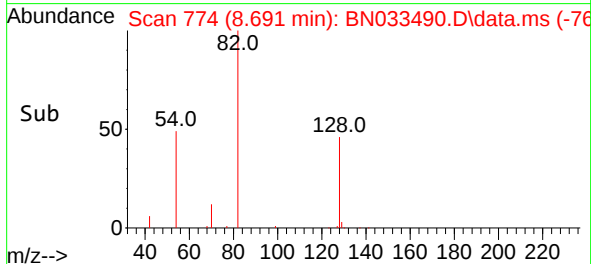
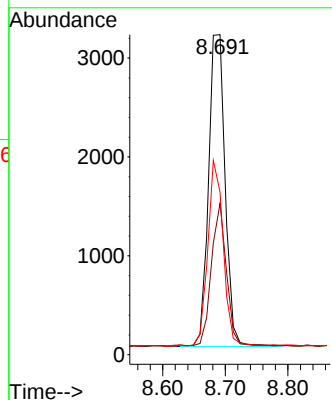
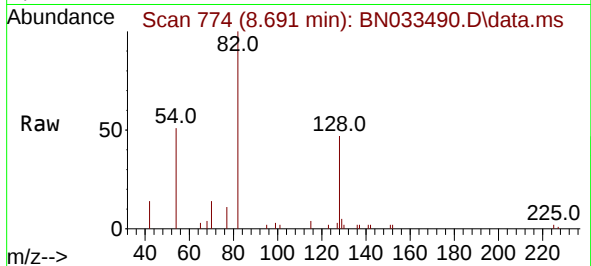




#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.691 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

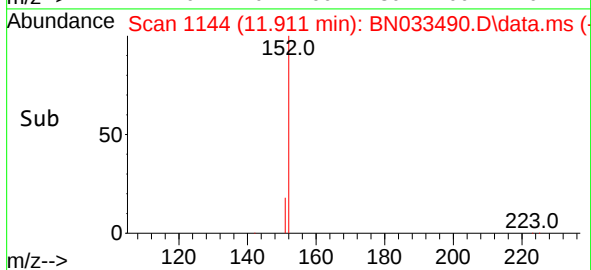
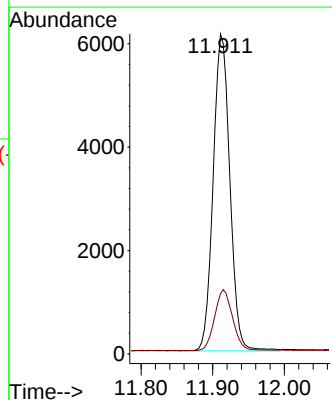
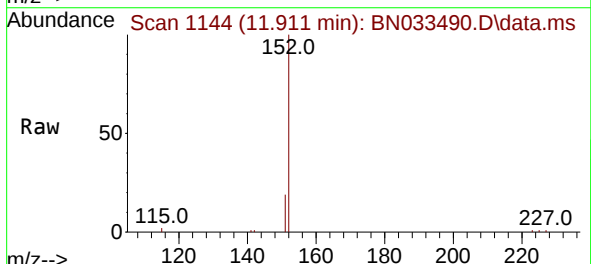
Instrument :
BNA_N
ClientSampleId :
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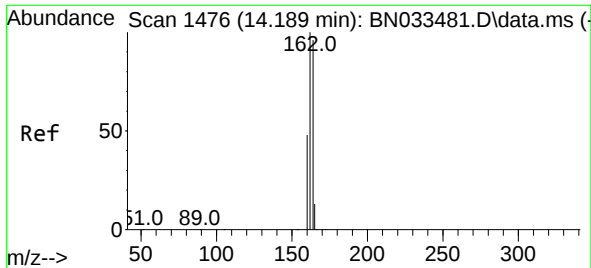
Tgt Ion: 82 Resp: 5820
Ion Ratio Lower Upper
82 100
128 47.3 36.0 54.0
54 50.8 42.0 63.0



#11
2-Methylnaphthalene-d10
Concen: 0.320 ng
RT: 11.911 min Scan# 1144
Delta R.T. -0.004 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

Tgt Ion:152 Resp: 9891
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

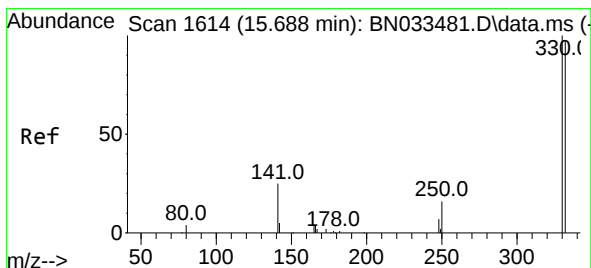
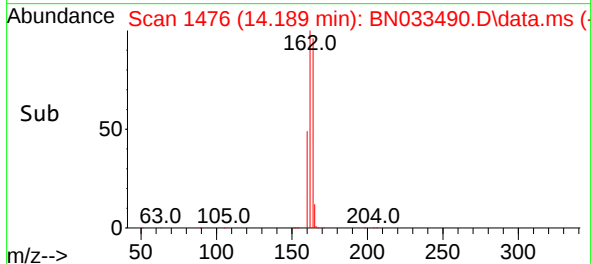
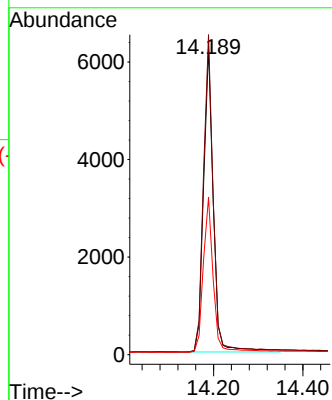
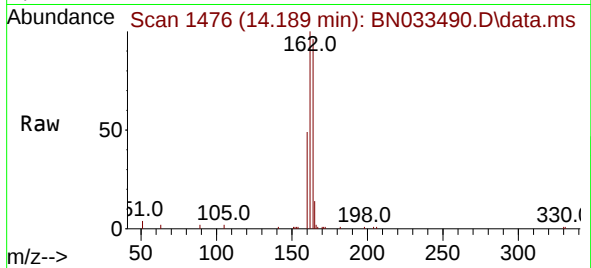




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 1476
Delta R.T. 0.000 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

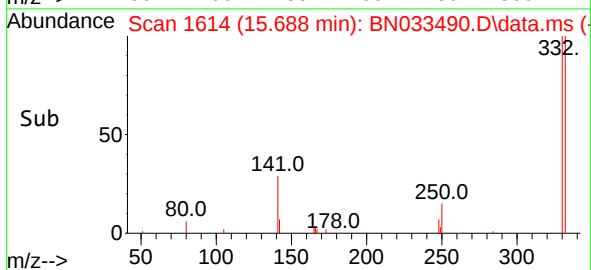
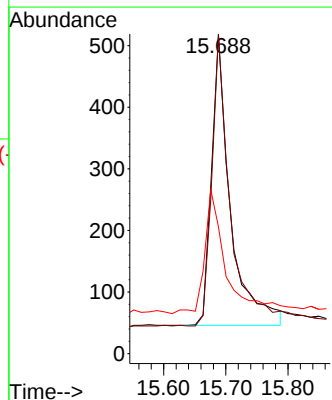
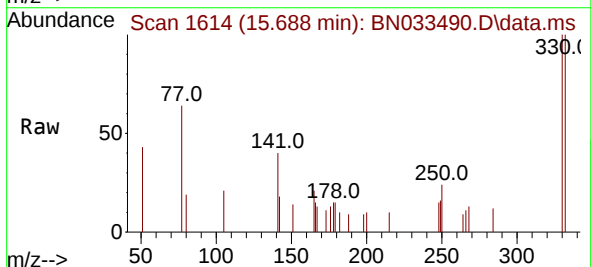
Instrument :
BNA_N
ClientSampleId :
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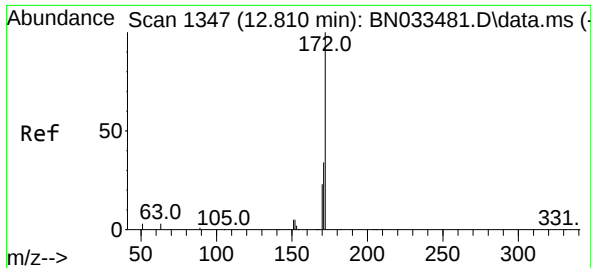
Tgt Ion:164 Resp: 9514
Ion Ratio Lower Upper
164 100
162 104.1 83.5 125.3
160 51.2 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.195 ng
RT: 15.688 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

Tgt Ion:330 Resp: 999
Ion Ratio Lower Upper
330 100
332 96.9 77.5 116.3
141 47.7 33.9 50.9

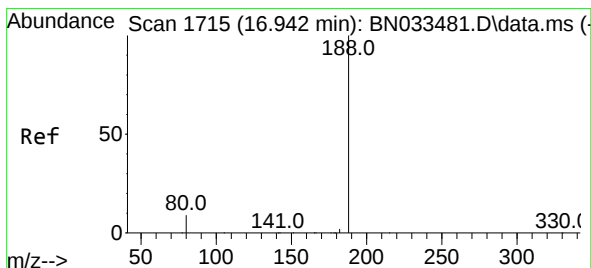
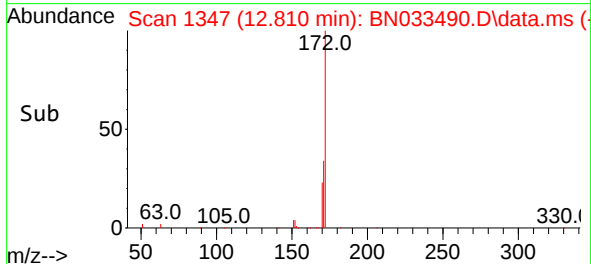
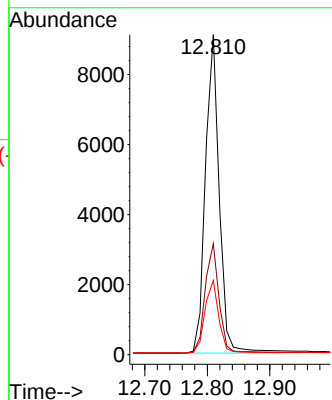
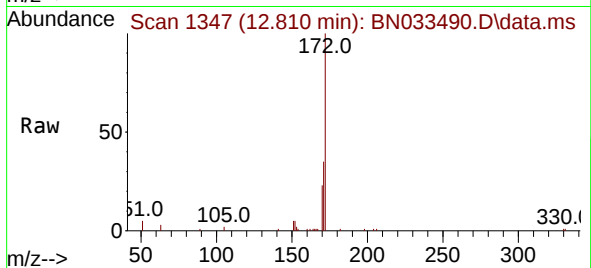




#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 12.810 min Scan# 1347
Delta R.T. 0.000 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

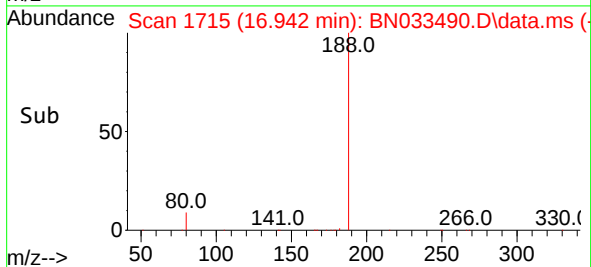
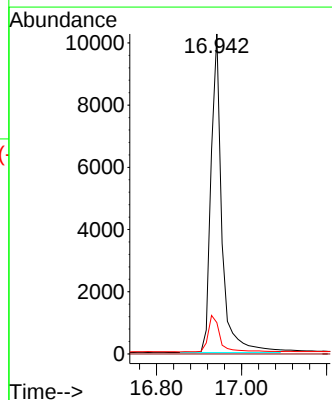
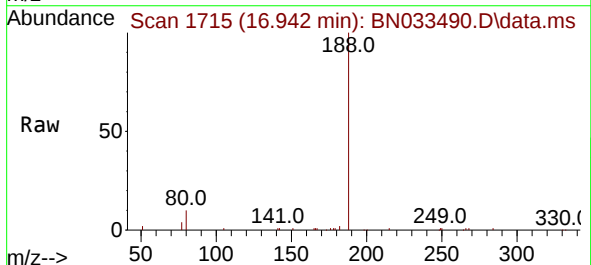
Instrument :
BNA_N
ClientSampleId :
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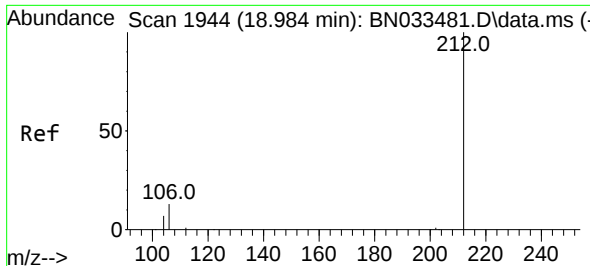
Tgt Ion:	172	Resp:	13954
Ion Ratio	Lower	Upper	
172	100		
171	34.7	27.7	41.5
170	23.2	18.3	27.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

Tgt Ion:	188	Resp:	18114
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.8	7.8	11.8

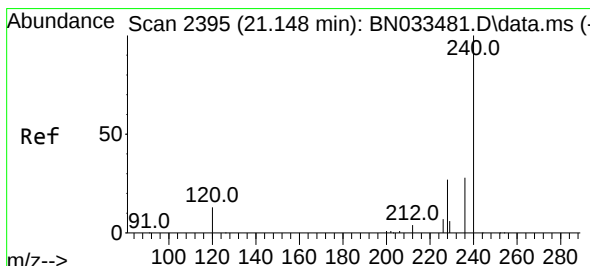
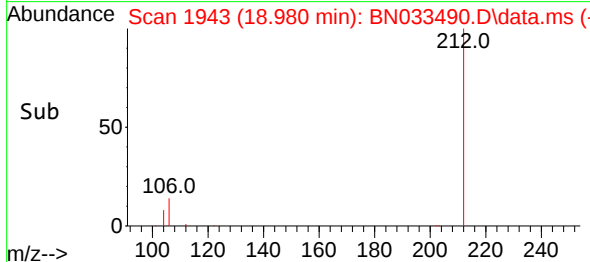
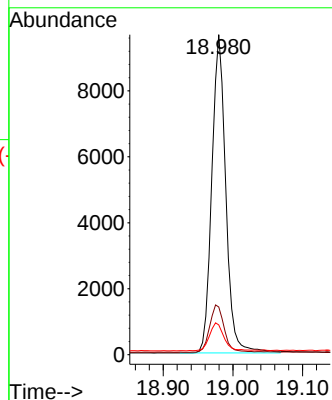
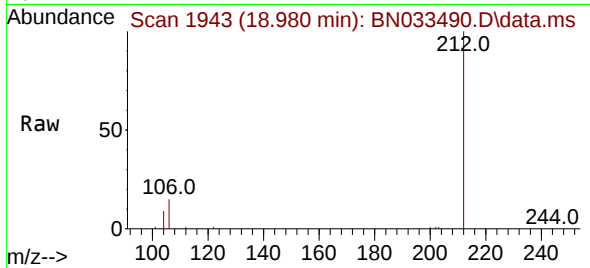




#27
Fluoranthene-d10
Concen: 0.310 ng
RT: 18.980 min Scan# 1944
Delta R.T. -0.005 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

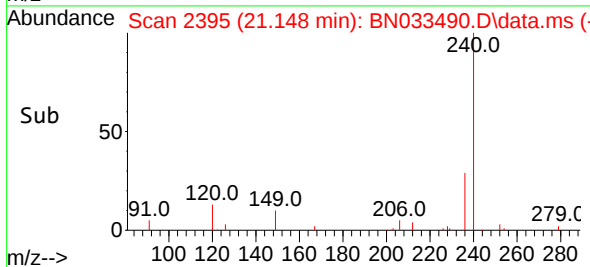
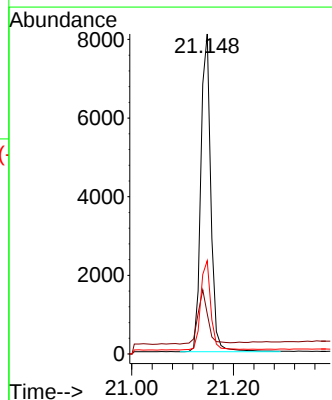
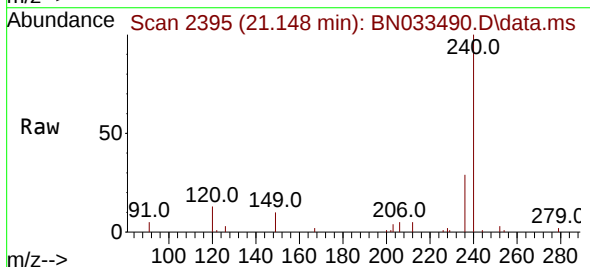
Instrument :
BNA_N
ClientSampleId :
PB162821BL

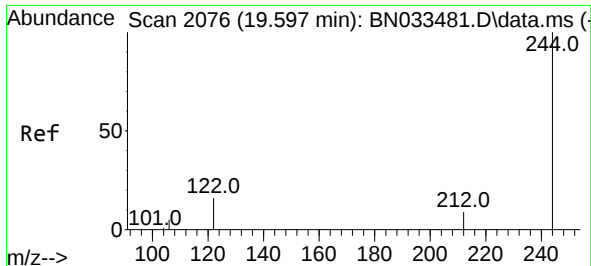
Tgt Ion:212 Resp: 13482
Ion Ratio Lower Upper
212 100
106 15.4 12.3 18.5
104 9.0 7.0 10.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BN033490.D
Acq: 20 Aug 2024 05:20

Tgt Ion:240 Resp: 11029
Ion Ratio Lower Upper
240 100
120 12.5 12.4 18.6
236 29.2 23.0 34.6

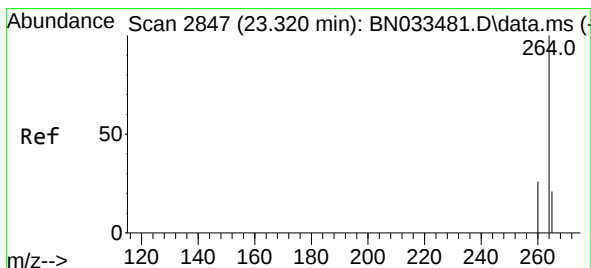
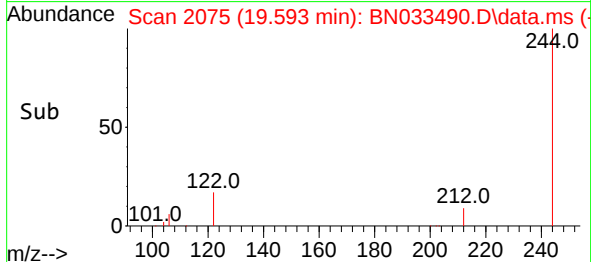
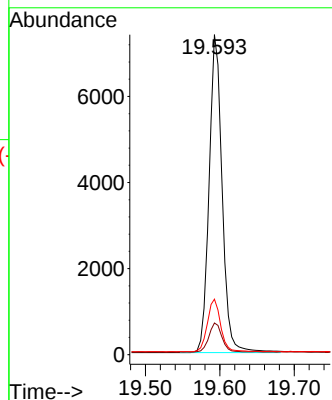
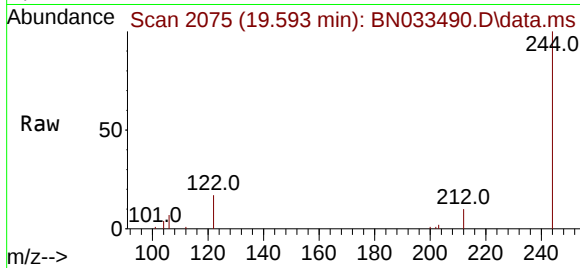




#31
 Terphenyl-d14
 Concen: 0.359 ng
 RT: 19.593 min Scan# 2075
 Delta R.T. -0.005 min
 Lab File: BN033490.D
 Acq: 20 Aug 2024 05:20

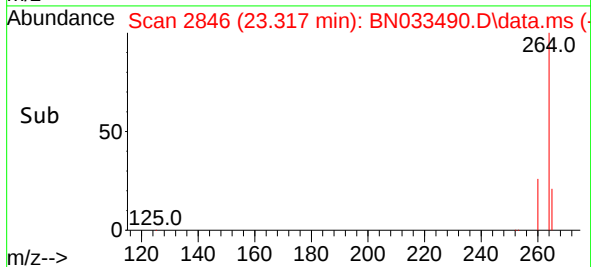
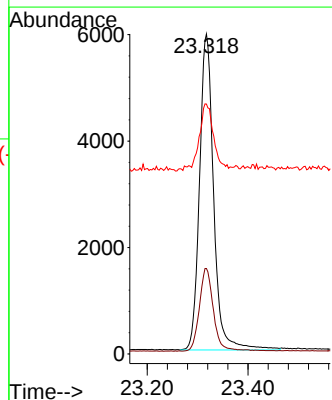
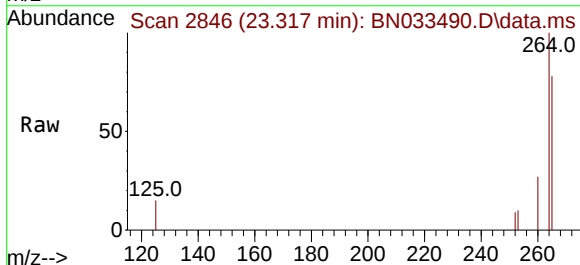
Instrument :
 BNA_N
 ClientSampleId :
 PB162821BL

Tgt Ion:244 Resp: 8987
 Ion Ratio Lower Upper
 244 100
 212 9.9 7.8 11.6
 122 17.4 13.3 19.9



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.317 min Scan# 2846
 Delta R.T. -0.003 min
 Lab File: BN033490.D
 Acq: 20 Aug 2024 05:20

Tgt Ion:264 Resp: 11535
 Ion Ratio Lower Upper
 264 100
 260 26.7 20.8 31.2
 265 78.1 52.2 78.2



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162821BS	SDG No.:	P3657
Lab Sample ID:	PB162821BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033491.D	1	08/19/24 09:50	08/20/24 05:56	PB162821

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.37		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.36		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.37		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.37		0.020	0.10	ug/L
86-73-7	Fluorene	0.34		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.38		0.020	0.10	ug/L
120-12-7	Anthracene	0.36		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.33		0.020	0.10	ug/L
129-00-0	Pyrene	0.39		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.41		0.020	0.10	ug/L
218-01-9	Chrysene	0.44		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.42		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.43		0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.44		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.48		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.47		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.46		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.29		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.45		30 (20) - 150 (139)	112%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 (30) - 150 (150)	79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		30 (27) - 130 (123)	84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		30 (34) - 130 (132)	93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		30 (35) - 130 (157)	94%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7910	7.552			
1146-65-2	Naphthalene-d8	20000	10.314			
15067-26-2	Acenaphthene-d10	9240	14.189			
1517-22-2	Phenanthrene-d10	17200	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162821BS	SDG No.:	P3657
Lab Sample ID:	PB162821BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033491.D	1	08/19/24 09:50	08/20/24 05:56	PB162821

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	10200	21.148			
1520-96-3	Perylene-d12	10400	23.317			

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\BN081924\
 Data File : BN033491.D
 Acq On : 20 Aug 2024 05:56
 Operator : MA/JU
 Sample : PB162821BS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB162821BS

Quant Time: Aug 20 06:45:32 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 2024
 Response via : Initial Calibration

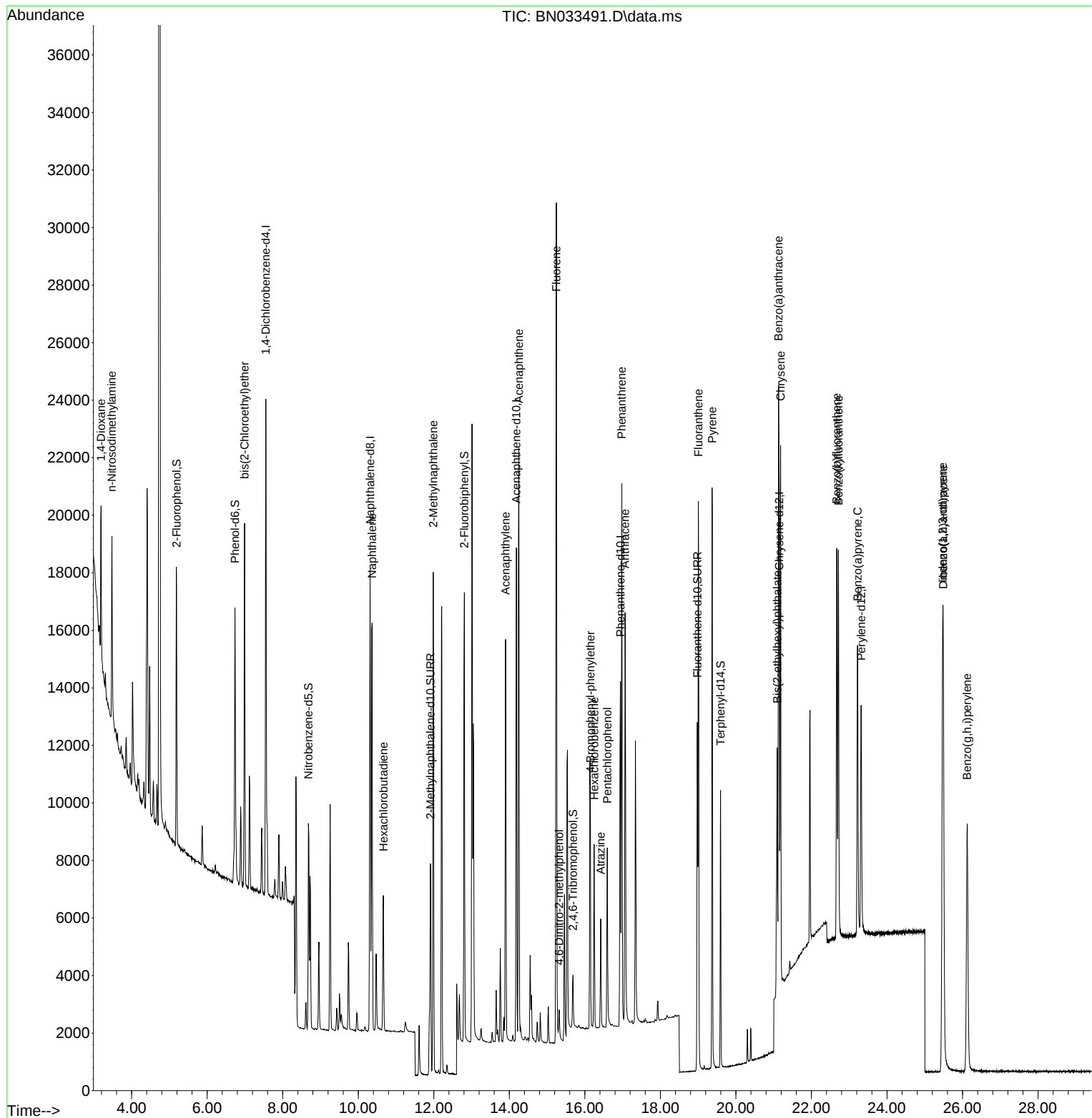
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	7907	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	19971	0.400	ng	0.00
13) Acenaphthene-d10	14.189	164	9237	0.400	ng	0.00
19) Phenanthrene-d10	16.942	188	17236	0.400	ng	0.00
29) Chrysene-d12	21.148	240	10225	0.400	ng	0.00
35) Perylene-d12	23.317	264	10409	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	6972	0.277	ng	0.00
5) Phenol-d6	6.736	99	8042	0.269	ng	0.00
8) Nitrobenzene-d5	8.681	82	5587	0.337	ng	-0.01
11) 2-Methylnaphthalene-d10	11.911	152	12804	0.448	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	1167	0.235	ng	0.00
15) 2-Fluorobiphenyl	12.810	172	14017	0.372	ng	0.00
27) Fluoranthene-d10	18.980	212	13170	0.318	ng	0.00
31) Terphenyl-d14	19.593	244	8776	0.378	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.190	88	2629	0.289	ng	# 56
3) n-Nitrosodimethylamine	3.479	42	3700	0.350	ng	93
6) bis(2-Chloroethyl)ether	6.989	93	8073	0.381	ng	98
9) Naphthalene	10.368	128	19545	0.366	ng	99
10) Hexachlorobutadiene	10.667	225	3837	0.360	ng	# 100
12) 2-Methylnaphthalene	11.986	142	12042	0.356	ng	99
16) Acenaphthylene	13.900	152	14939	0.369	ng	100
17) Acenaphthene	14.253	154	10432	0.366	ng	99
18) Fluorene	15.247	166	12365	0.344	ng	99
20) 4,6-Dinitro-2-methylph...	15.322	198	788	0.293	ng	92
21) 4-Bromophenyl-phenylether	16.147	248	3815	0.364	ng	92
22) Hexachlorobenzene	16.247	284	4359	0.377	ng	98
23) Atrazine	16.420	200	2677	0.320	ng	98
24) Pentachlorophenol	16.594	266	2890	0.577	ng	98
25) Phenanthrene	16.979	178	18232	0.380	ng	100
26) Anthracene	17.066	178	15361	0.362	ng	99
28) Fluoranthene	19.007	202	17436	0.329	ng	99
30) Pyrene	19.370	202	17661	0.387	ng	99
32) Benzo(a)anthracene	21.130	228	14987	0.405	ng	100
33) Chrysene	21.184	228	16001	0.435	ng	100
34) Bis(2-ethylhexyl)phtha...	21.095	149	6949	0.297	ng	98
36) Indeno(1,2,3-cd)pyrene	25.475	276	20642	0.478	ng	99
37) Benzo(b)fluoranthene	22.671	252	16190	0.417	ng	98
38) Benzo(k)fluoranthene	22.715	252	16448	0.430	ng	98
39) Benzo(a)pyrene	23.221	252	14215	0.442	ng	99
40) Dibenzo(a,h)anthracene	25.490	278	16298	0.472	ng	97
41) Benzo(g,h,i)perylene	26.124	276	16885	0.457	ng	99

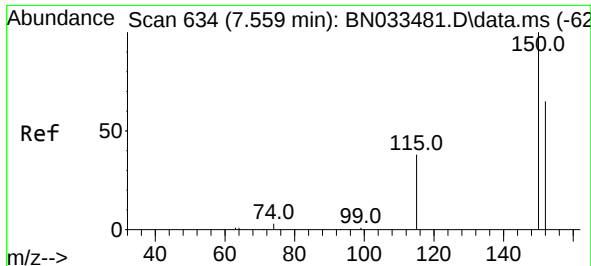
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033491.D
Acq On : 20 Aug 2024 05:56
Operator : MA/JU
Sample : PB162821BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162821BS

Quant Time: Aug 20 06:45:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration

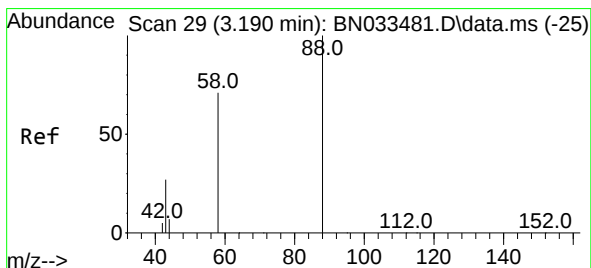
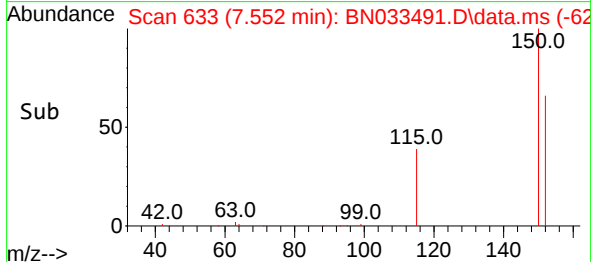
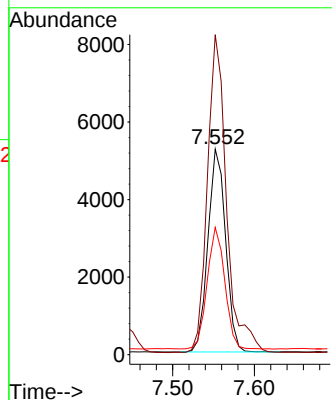
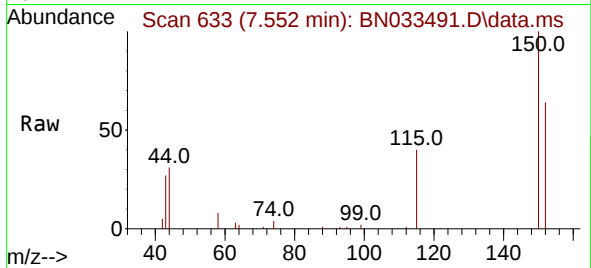




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.552 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN033491.D
 Acq: 20 Aug 2024 05:56

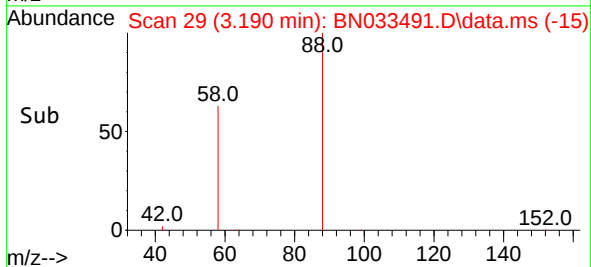
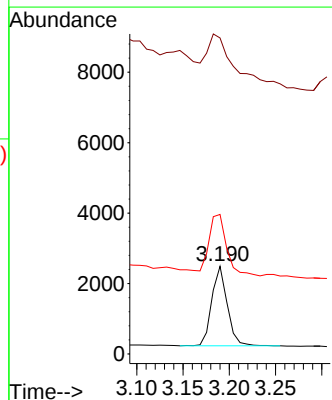
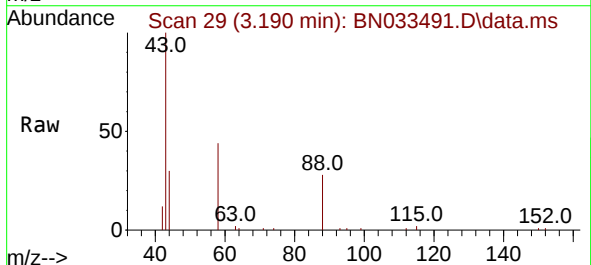
Instrument :
 BNA_N
 ClientSampleId :
 PB162821BS

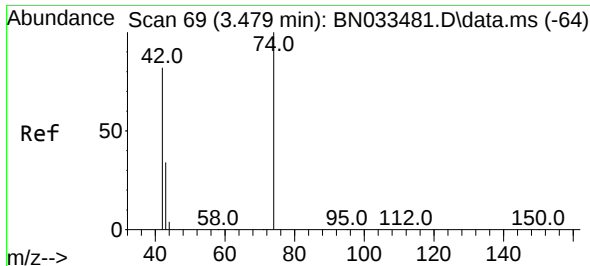
Tgt Ion:152 Resp: 7907
 Ion Ratio Lower Upper
 152 100
 150 155.6 122.2 183.2
 115 61.9 47.2 70.8



#2
 1,4-Dioxane
 Concen: 0.289 ng
 RT: 3.190 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: BN033491.D
 Acq: 20 Aug 2024 05:56

Tgt Ion: 88 Resp: 2629
 Ion Ratio Lower Upper
 88 100
 43 97.9 25.0 37.4#
 58 89.5 62.5 93.7

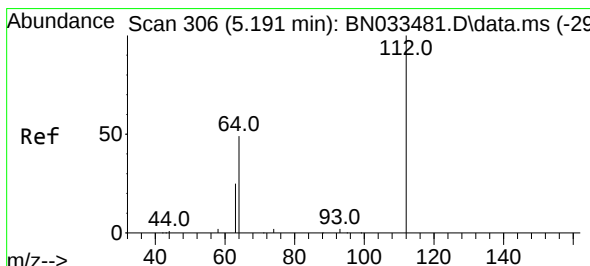
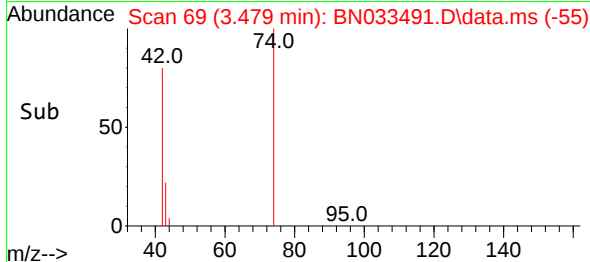
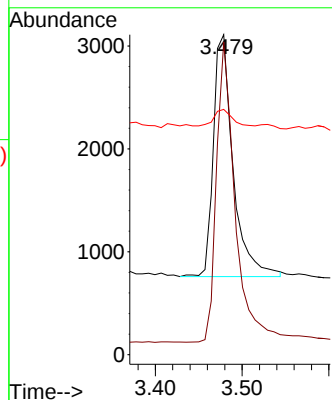
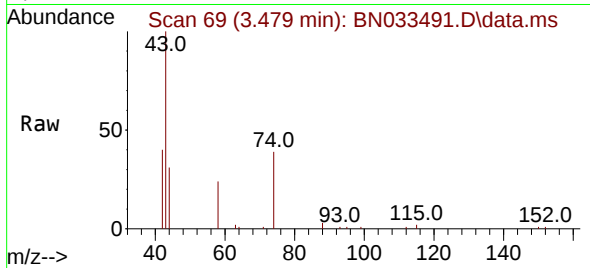




#3
n-Nitrosodimethylamine
Concen: 0.350 ng
RT: 3.479 min Scan# 69
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

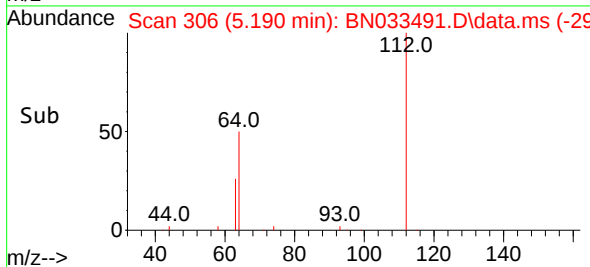
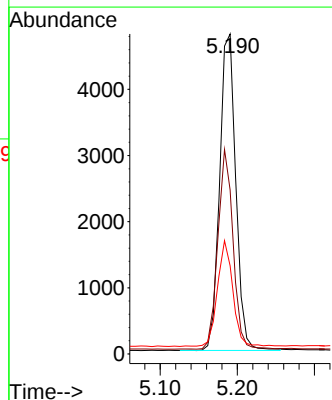
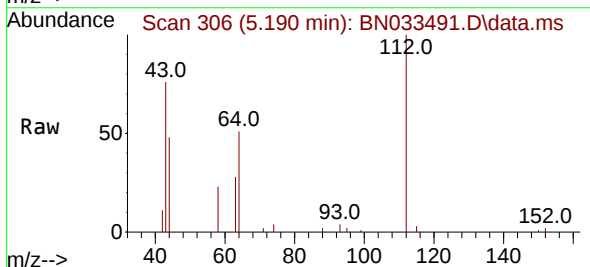
Instrument :
BNA_N
ClientSampleId :
PB162821BS

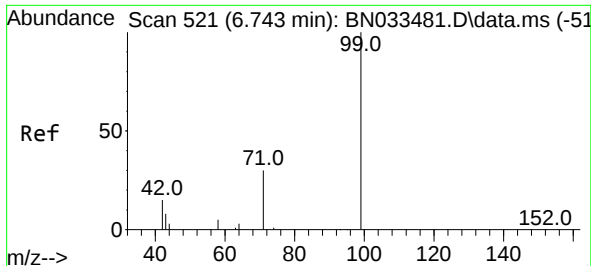
Tgt Ion: 42 Resp: 3700
Ion Ratio Lower Upper
42 100
74 116.8 100.2 150.2
44 6.5 5.3 7.9



#4
2-Fluorophenol
Concen: 0.277 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion: 112 Resp: 6972
Ion Ratio Lower Upper
112 100
64 59.3 47.1 70.7
63 31.8 24.9 37.3

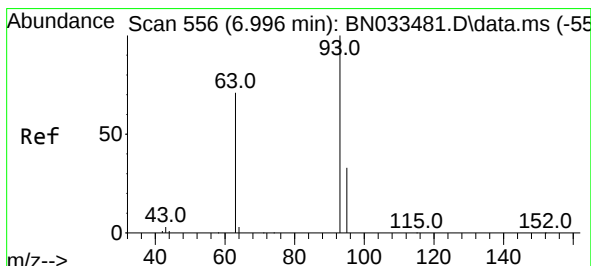
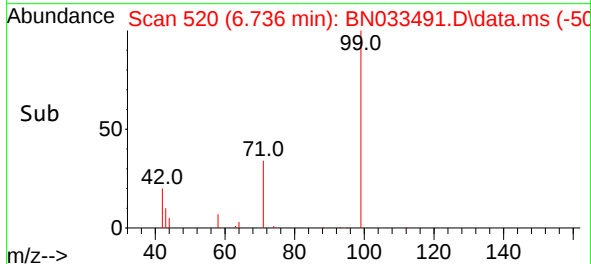
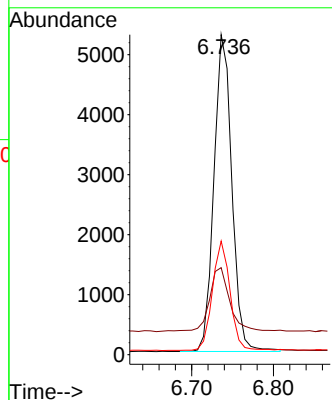
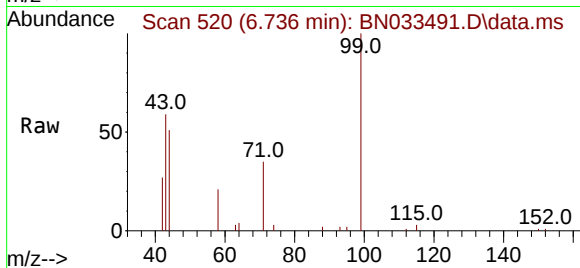




#5
Phenol-d6
Concen: 0.269 ng
RT: 6.736 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

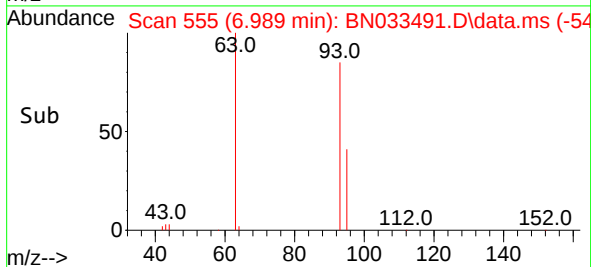
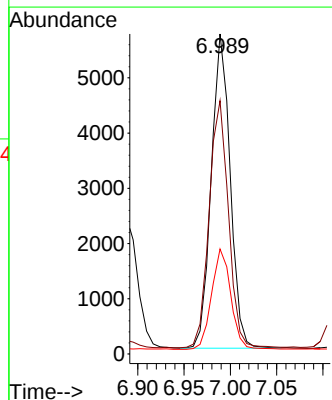
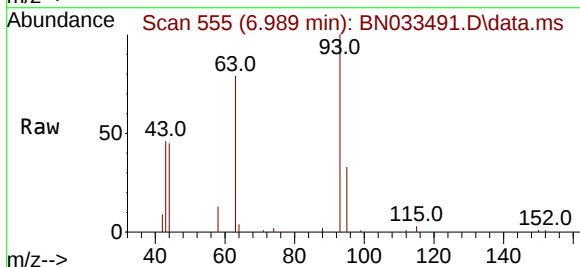
Instrument :
BNA_N
ClientSampleId :
PB162821BS

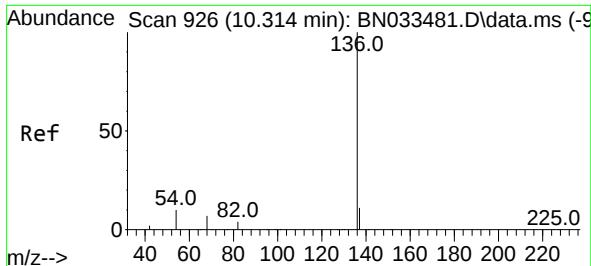
Tgt Ion:	99	Resp:	8042
Ion	Ratio	Lower	Upper
99	100		
42	23.0	16.6	24.8
71	34.0	26.2	39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 6.989 min Scan# 555
Delta R.T. -0.007 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:	93	Resp:	8073
Ion	Ratio	Lower	Upper
93	100		
63	80.6	63.0	94.4
95	32.6	26.0	39.0

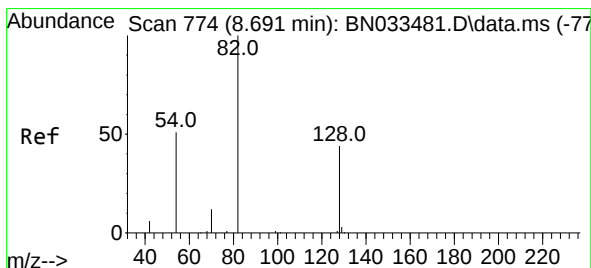
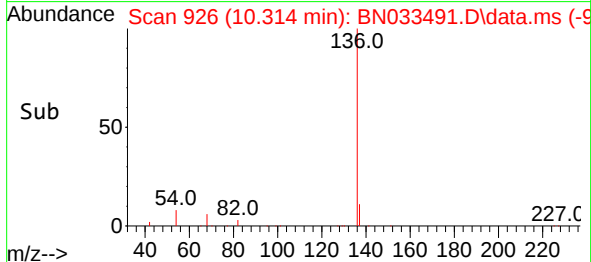
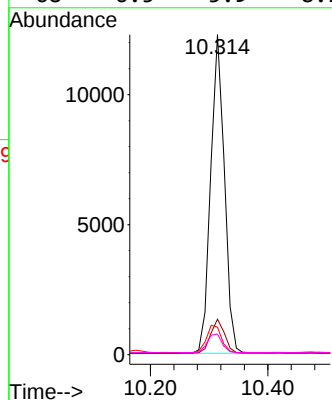
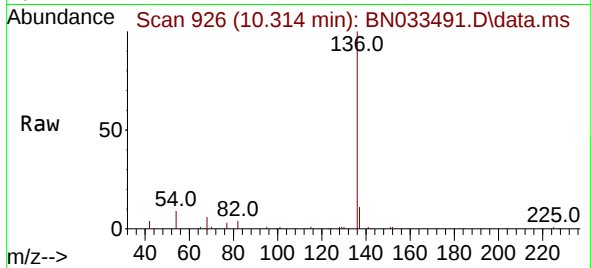




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

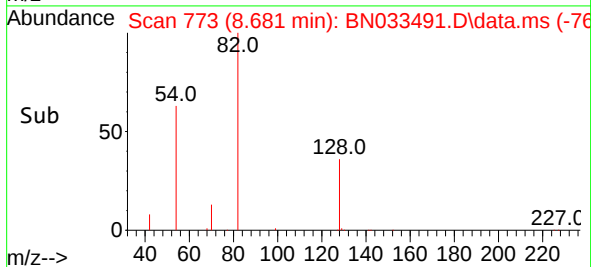
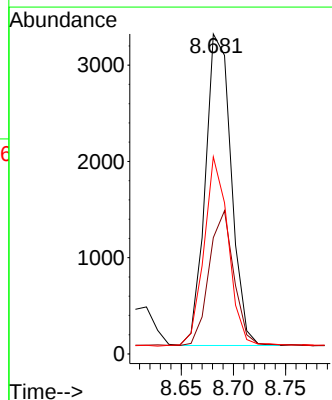
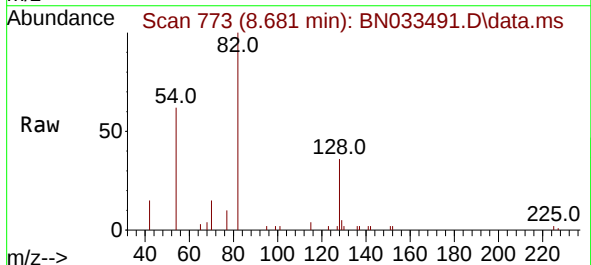
Instrument :
BNA_N
ClientSampleId :
PB162821BS

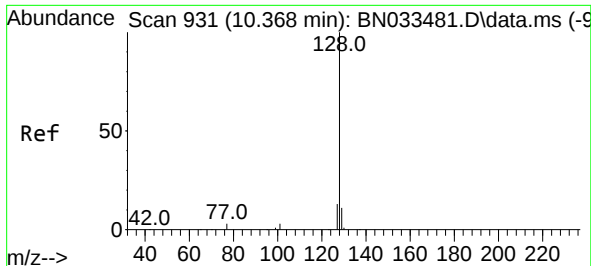
Tgt Ion:	136	Resp:	19971
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	8.6	8.3	12.5
68	6.5	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.337 ng
RT: 8.681 min Scan# 773
Delta R.T. -0.011 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:	82	Resp:	5587
Ion	Ratio	Lower	Upper
82	100		
128	36.3	36.0	54.0
54	61.6	42.0	63.0

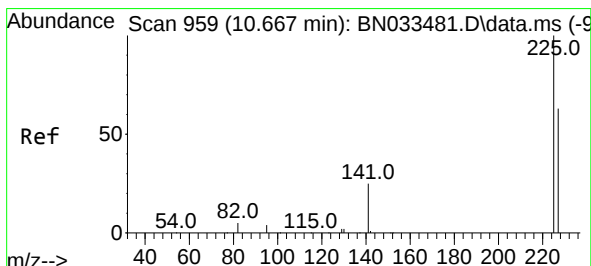
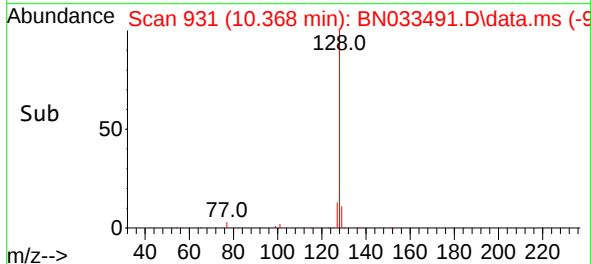
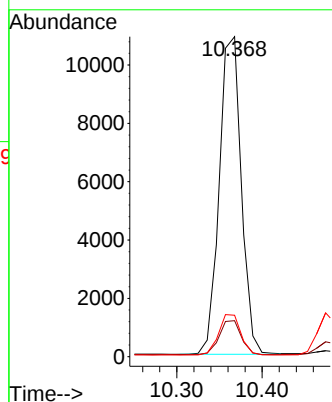
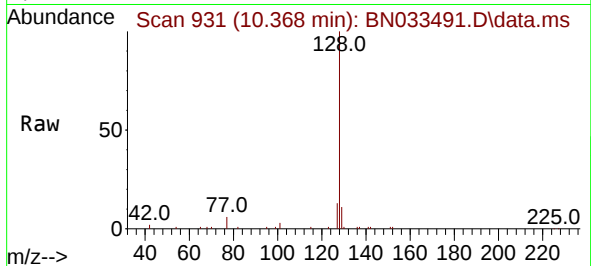




#9
Naphthalene
Concen: 0.366 ng
RT: 10.368 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

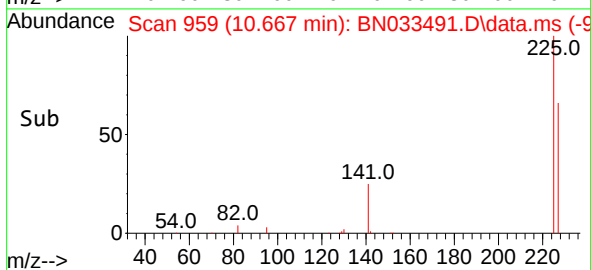
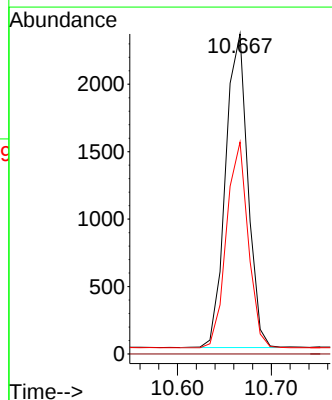
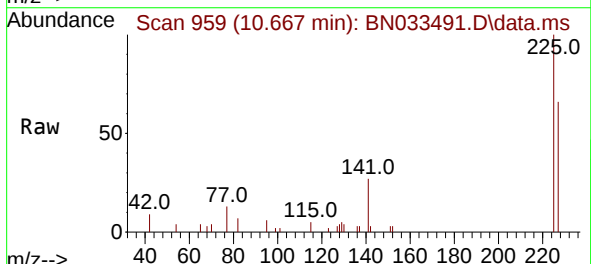
Instrument :
BNA_N
ClientSampleId :
PB162821BS

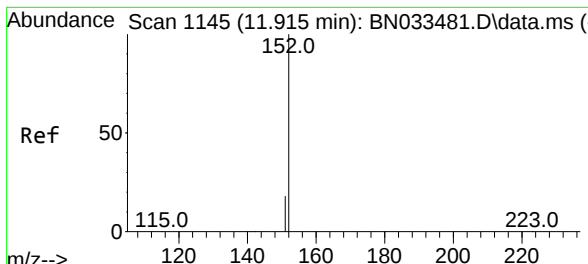
Tgt Ion:128 Resp: 19545
Ion Ratio Lower Upper
128 100
129 11.3 9.1 13.7
127 12.9 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.360 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:225 Resp: 3837
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 51.2 76.8

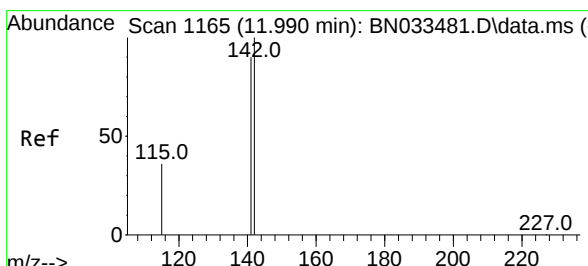
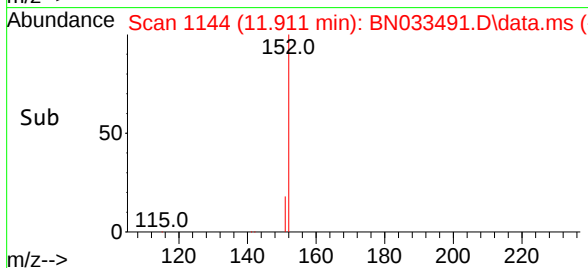
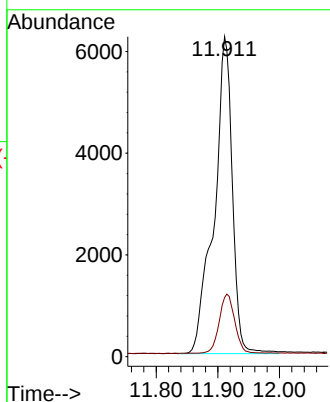
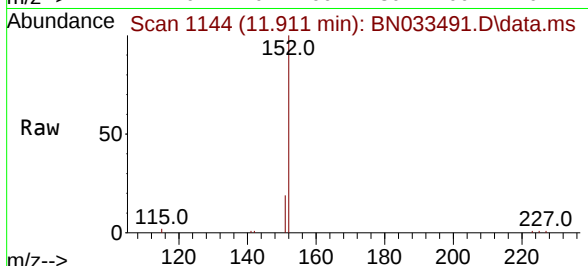




#11
2-Methylnaphthalene-d10
Concen: 0.448 ng
RT: 11.911 min Scan# 1145
Delta R.T. -0.004 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

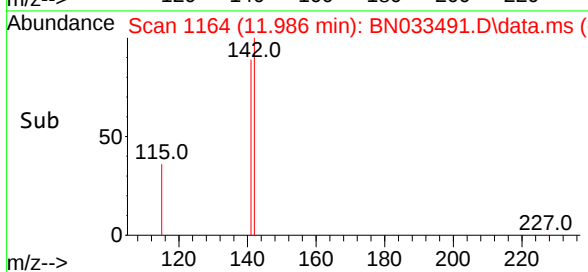
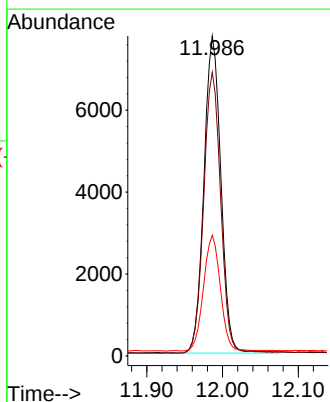
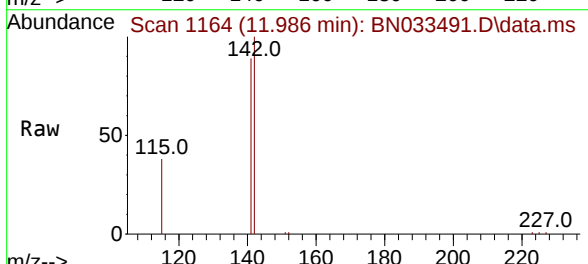
Instrument :
BNA_N
ClientSampleId :
PB162821BS

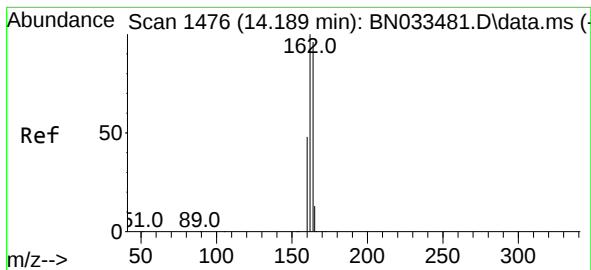
Tgt Ion:152 Resp: 12804
Ion Ratio Lower Upper
152 100
151 16.0 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 11.986 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:142 Resp: 12042
Ion Ratio Lower Upper
142 100
141 88.6 71.7 107.5
115 37.7 29.4 44.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.189 min Scan# 1476

Delta R.T. -0.000 min

Lab File: BN033491.D

Acq: 20 Aug 2024 05:56

Instrument :

BNA_N

ClientSampleId :

PB162821BS

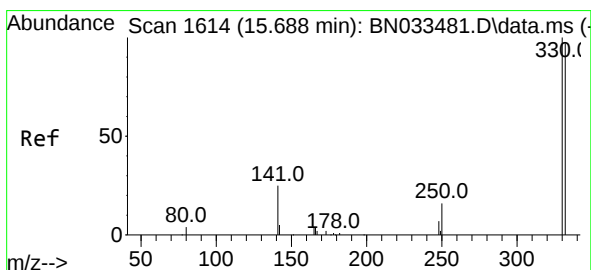
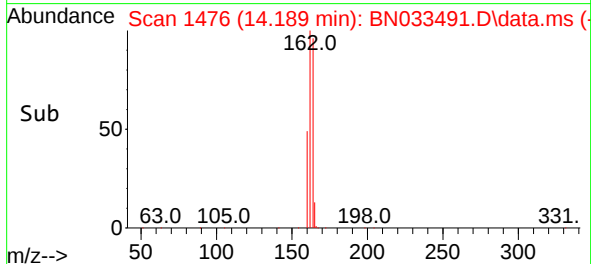
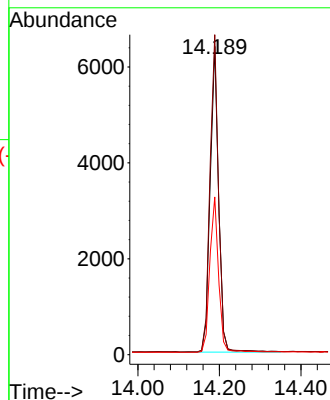
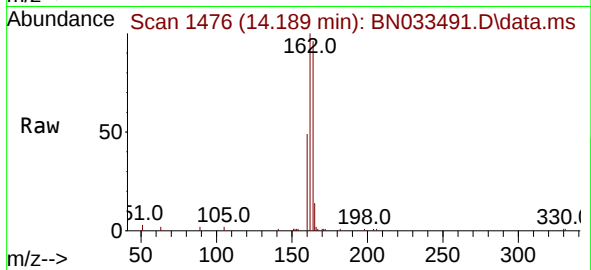
Tgt Ion:164 Resp: 9237

Ion Ratio Lower Upper

164 100

162 103.8 83.5 125.3

160 51.2 40.2 60.4



#14

2,4,6-Tribromophenol

Concen: 0.235 ng

RT: 15.688 min Scan# 1614

Delta R.T. -0.000 min

Lab File: BN033491.D

Acq: 20 Aug 2024 05:56

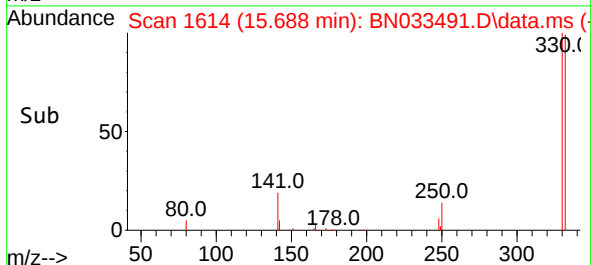
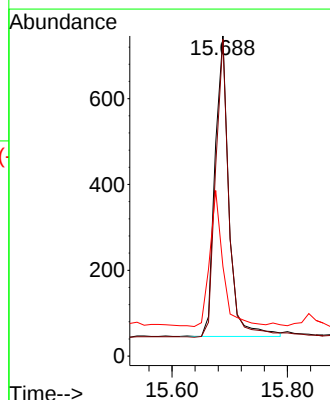
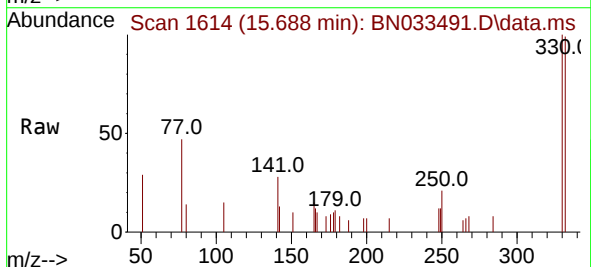
Tgt Ion:330 Resp: 1167

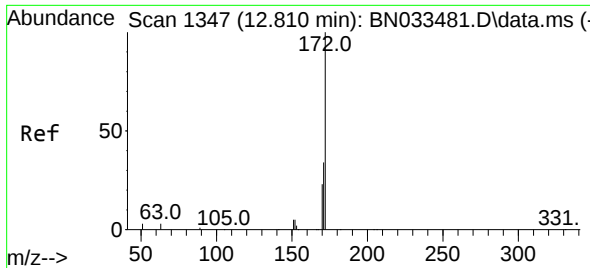
Ion Ratio Lower Upper

330 100

332 95.4 77.5 116.3

141 42.2 33.9 50.9

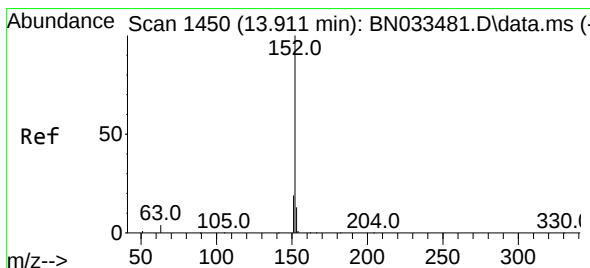
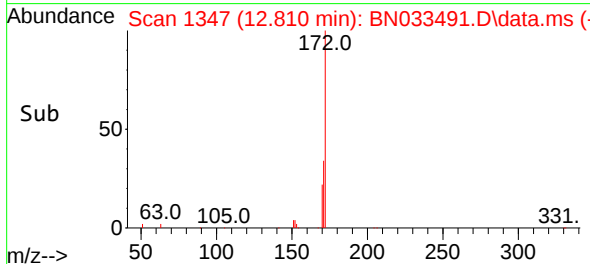
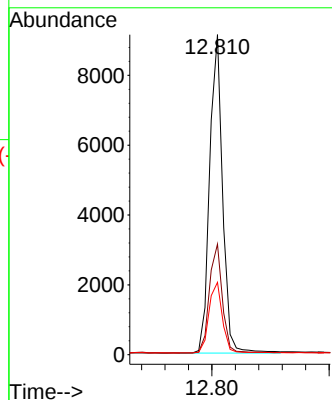
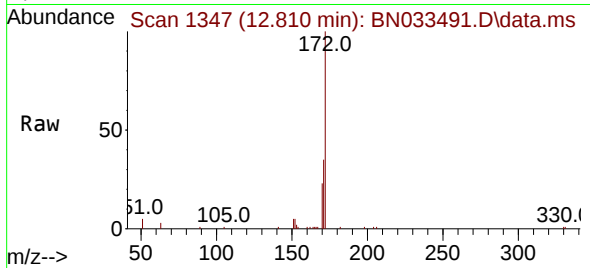




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.810 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

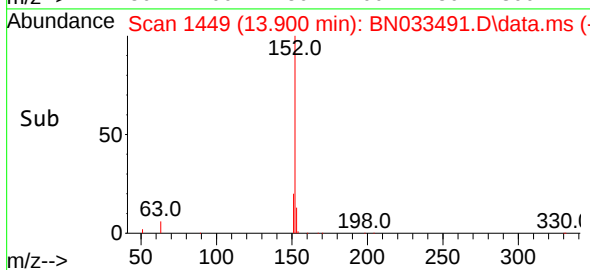
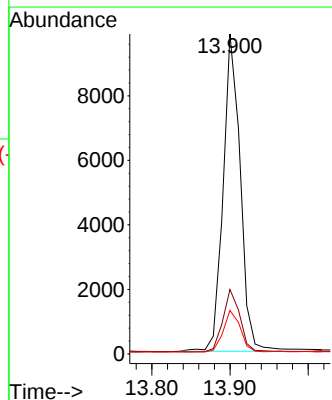
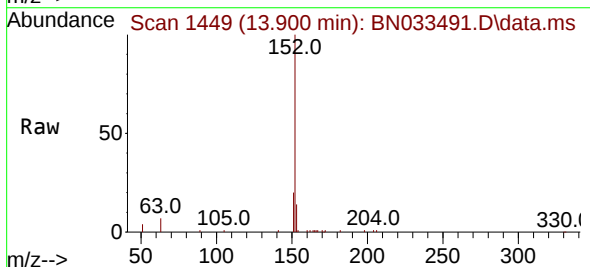
Instrument :
BNA_N
ClientSampleId :
PB162821BS

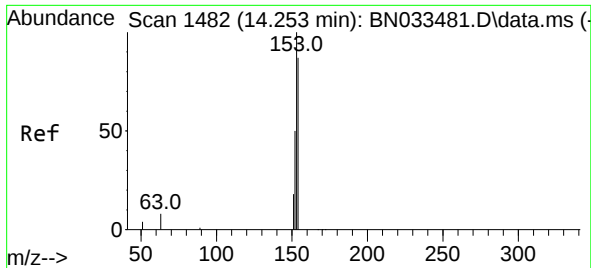
Tgt Ion:	172	Resp:	14017
Ion Ratio	Lower	Upper	
172	100		
171	34.5	27.7	41.5
170	22.6	18.3	27.5



#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:	152	Resp:	14939
Ion Ratio	Lower	Upper	
152	100		
151	19.6	15.7	23.5
153	12.9	10.3	15.5

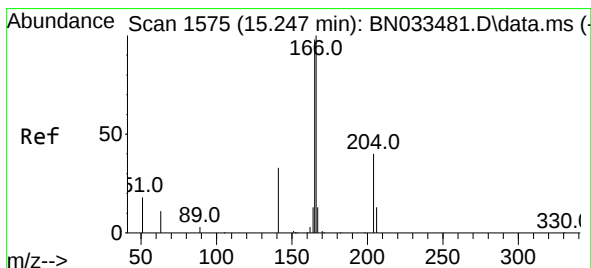
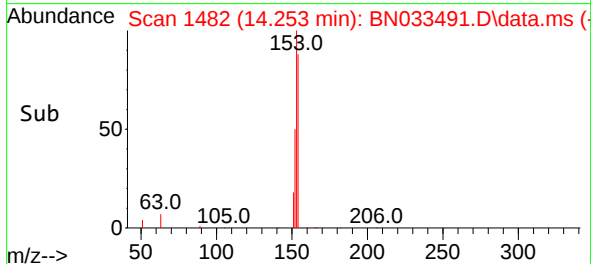
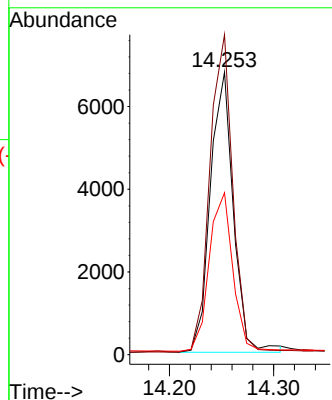
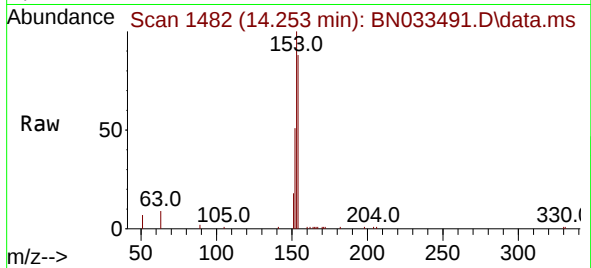




#17
Acenaphthene
Concen: 0.366 ng
RT: 14.253 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

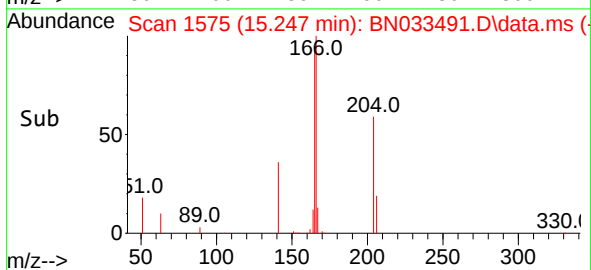
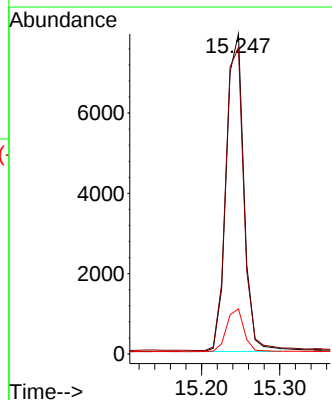
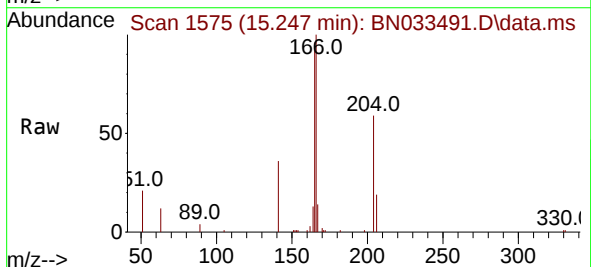
Instrument :
BNA_N
ClientSampleId :
PB162821BS

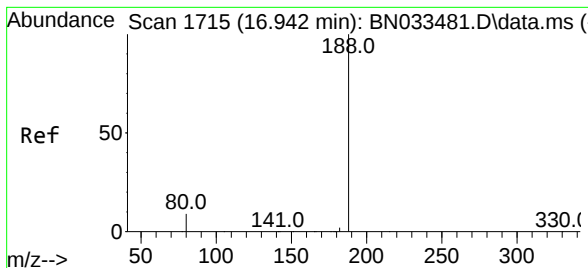
Tgt Ion:154 Resp: 10432
Ion Ratio Lower Upper
154 100
153 112.1 89.0 133.6
152 57.7 45.2 67.8



#18
Fluorene
Concen: 0.344 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:166 Resp: 12365
Ion Ratio Lower Upper
166 100
165 98.4 78.2 117.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.942 min Scan# 1715

Delta R.T. -0.000 min

Lab File: BN033491.D

Acq: 20 Aug 2024 05:56

Instrument :

BNA_N

ClientSampleId :

PB162821BS

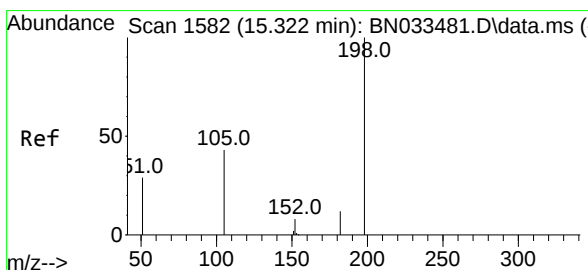
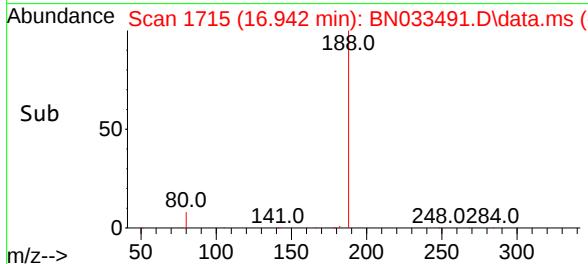
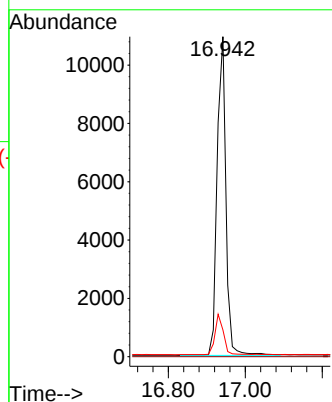
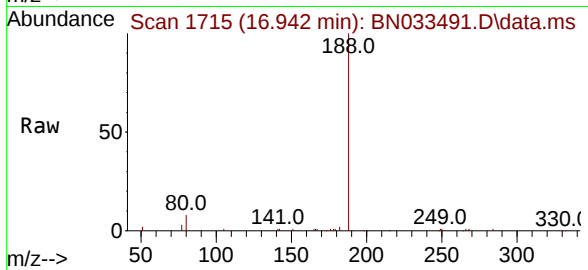
Tgt Ion:188 Resp: 17236

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.3 7.8 11.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.293 ng

RT: 15.322 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BN033491.D

Acq: 20 Aug 2024 05:56

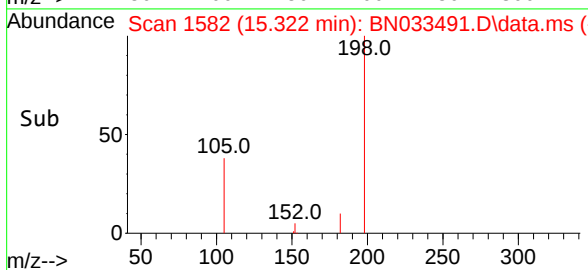
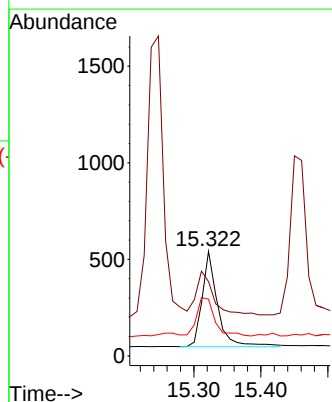
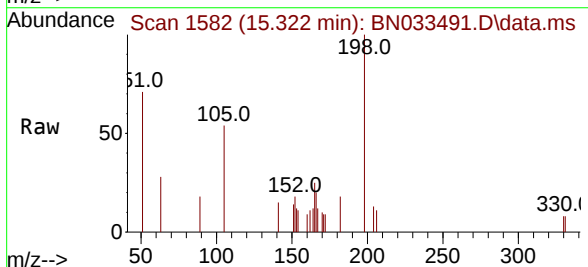
Tgt Ion:198 Resp: 788

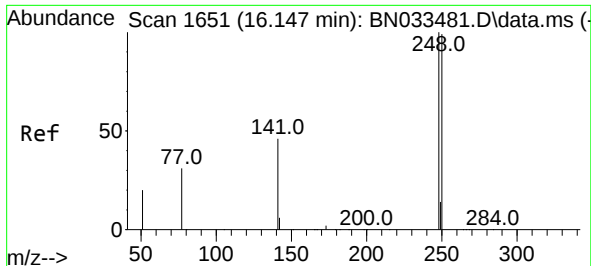
Ion Ratio Lower Upper

198 100

51 71.0 65.1 97.7

105 54.2 44.8 67.2

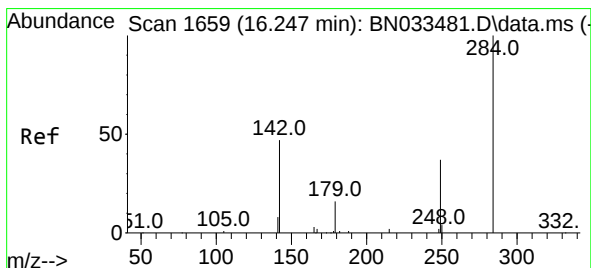
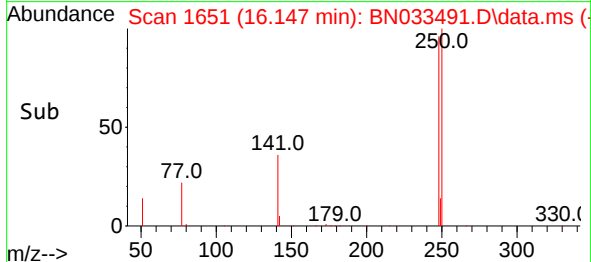
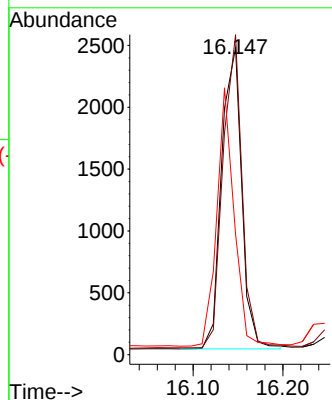
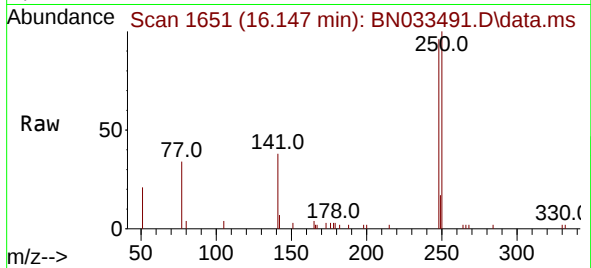




#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

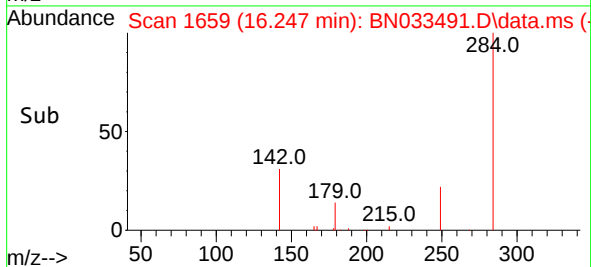
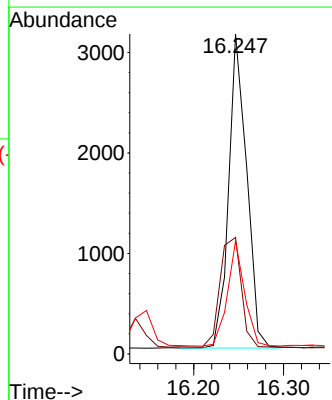
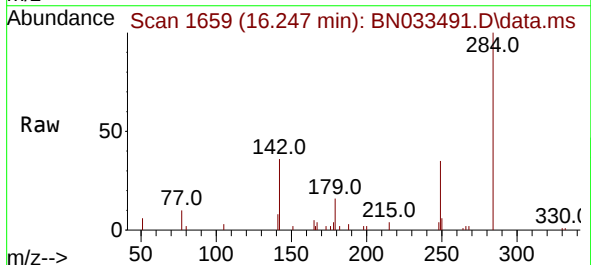
Instrument :
BNA_N
ClientSampleId :
PB162821BS

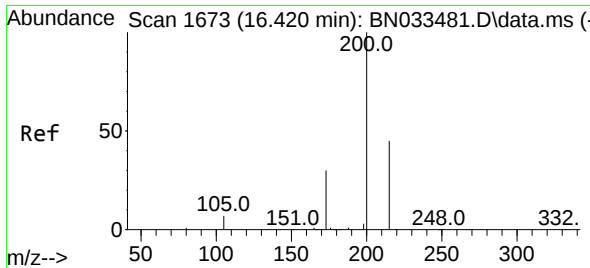
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.3	79.2	118.8
141	39.3	37.9	56.9



#22
Hexachlorobenzene
Concen: 0.377 ng
RT: 16.247 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion	Ratio	Lower	Upper
284	100		
142	41.2	31.8	47.6
249	31.8	26.0	39.0

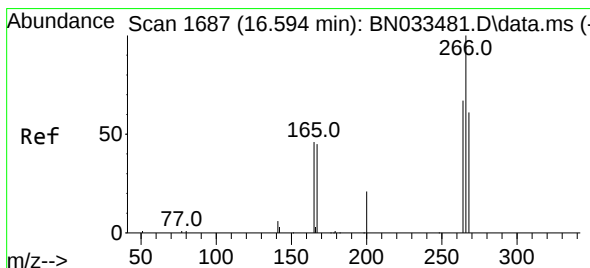
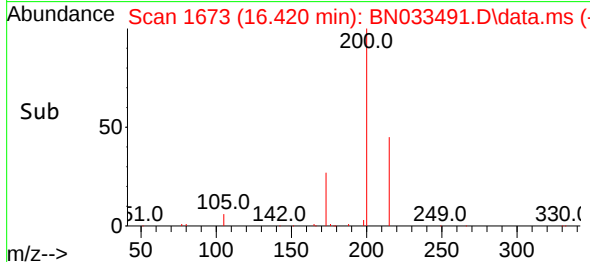
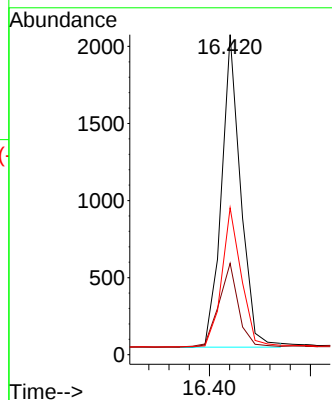
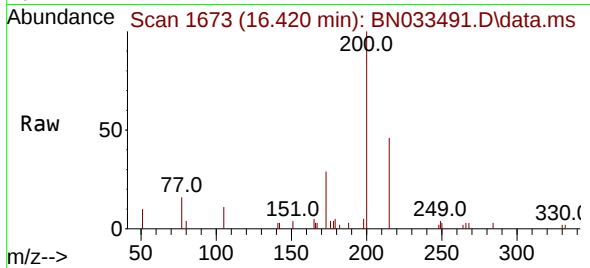




#23
Atrazine
Concen: 0.320 ng
RT: 16.420 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

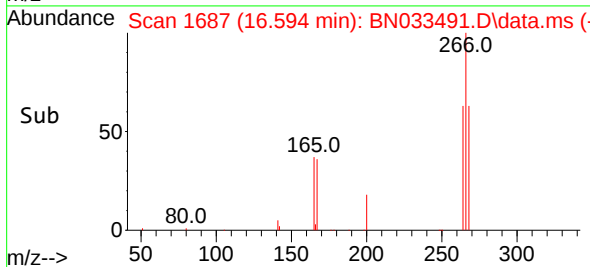
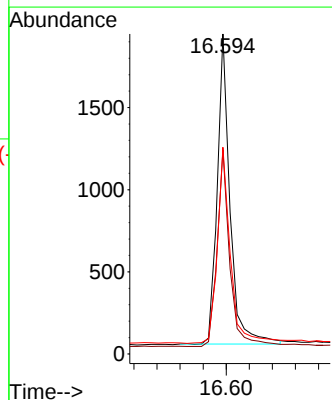
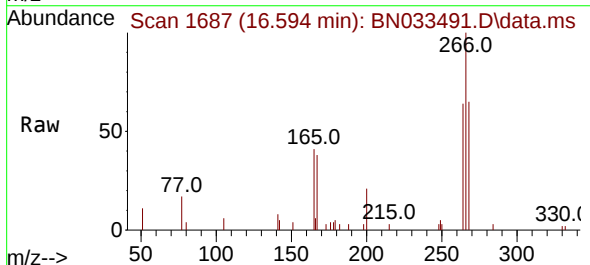
Instrument :
BNA_N
ClientSampleId :
PB162821BS

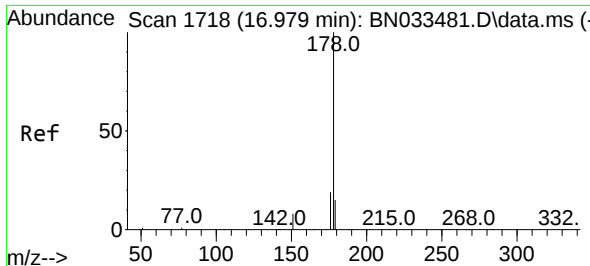
Tgt Ion:	200	Resp:	2677
Ion	Ratio	Lower	Upper
200	100		
173	28.6	25.3	37.9
215	45.9	36.6	54.8



#24
Pentachlorophenol
Concen: 0.577 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:	266	Resp:	2890
Ion	Ratio	Lower	Upper
266	100		
264	63.0	51.9	77.9
268	64.8	51.0	76.4

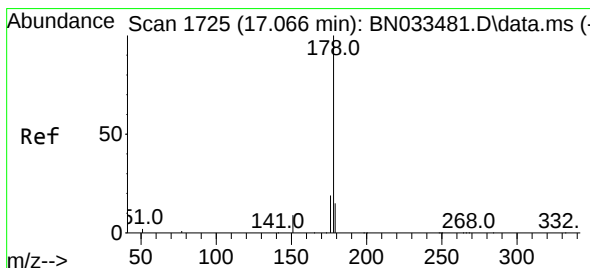
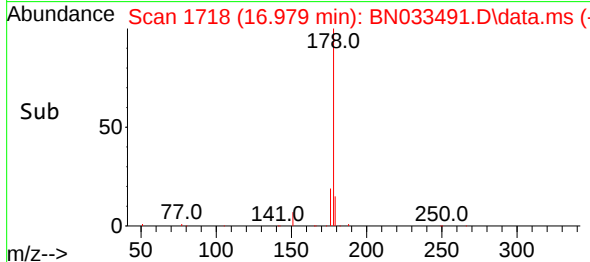
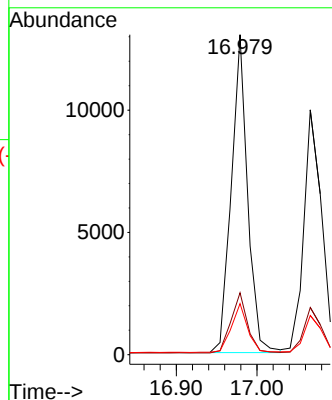
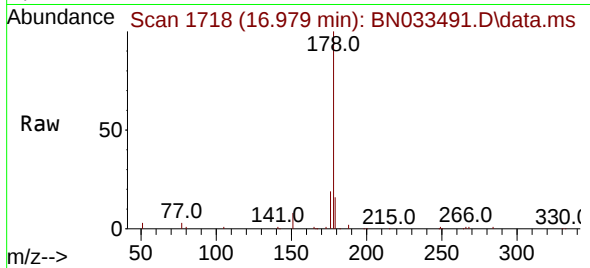




#25
Phenanthrene
Concen: 0.380 ng
RT: 16.979 min Scan# 1718
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

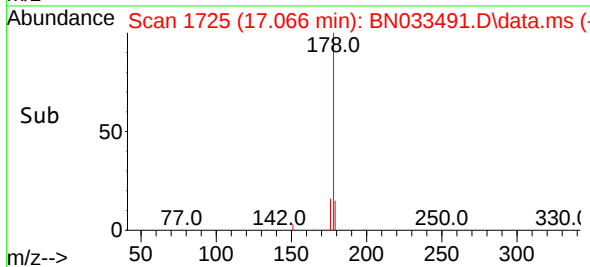
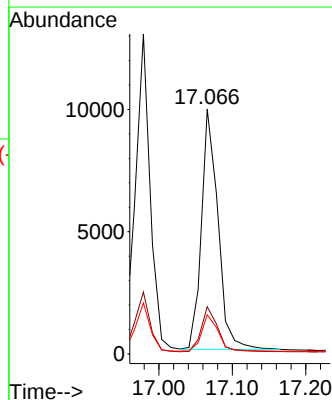
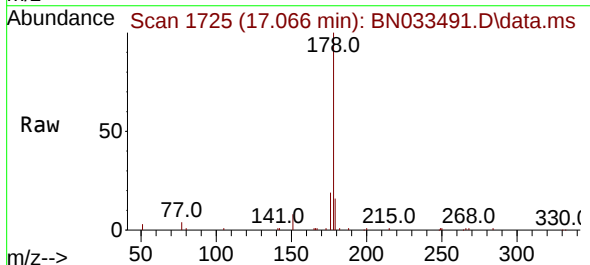
Instrument :
BNA_N
ClientSampleId :
PB162821BS

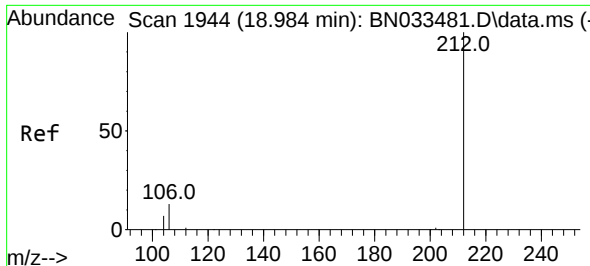
Tgt Ion:178 Resp: 18232
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.362 ng
RT: 17.066 min Scan# 1725
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:178 Resp: 15361
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.4 18.6

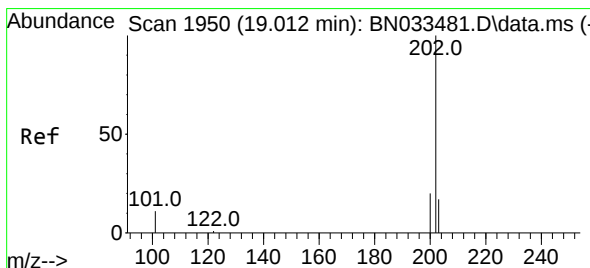
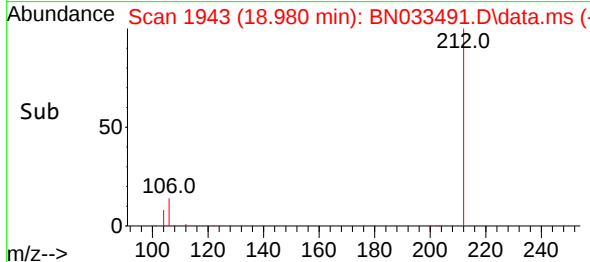
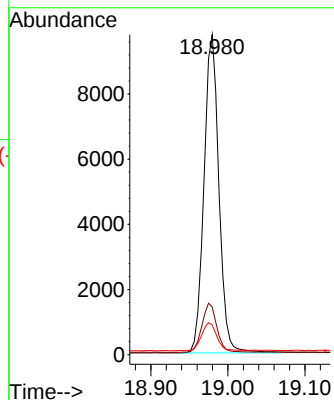
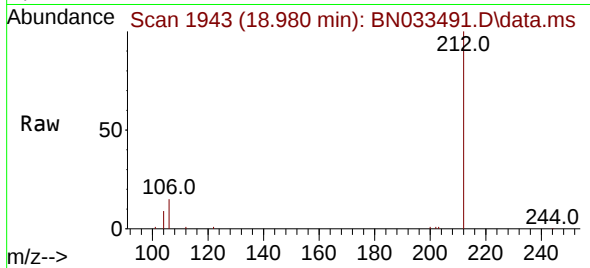




#27
Fluoranthene-d10
Concen: 0.318 ng
RT: 18.980 min Scan# 1943
Delta R.T. -0.005 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

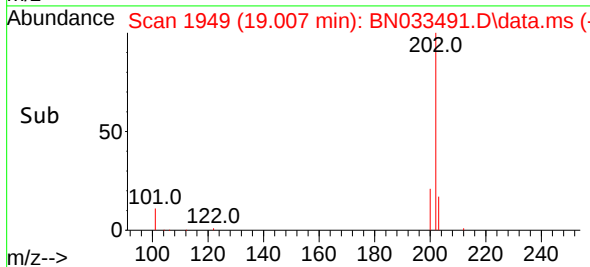
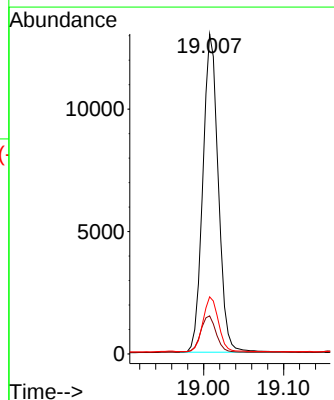
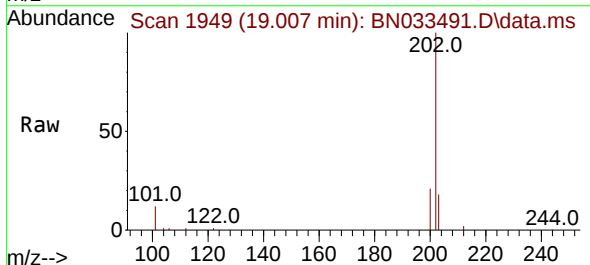
Instrument :
BNA_N
ClientSampleId :
PB162821BS

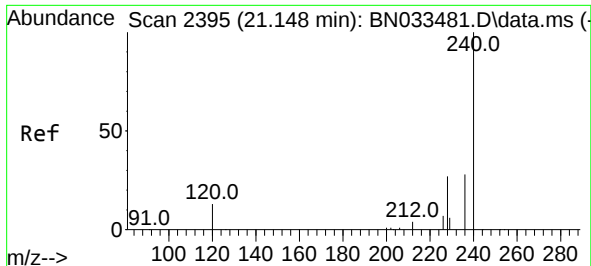
Tgt Ion:212 Resp: 13170
Ion Ratio Lower Upper
212 100
106 15.5 12.3 18.5
104 8.8 7.0 10.4



#28
Fluoranthene
Concen: 0.329 ng
RT: 19.007 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:202 Resp: 17436
Ion Ratio Lower Upper
202 100
101 11.5 9.5 14.3
203 17.3 13.8 20.6

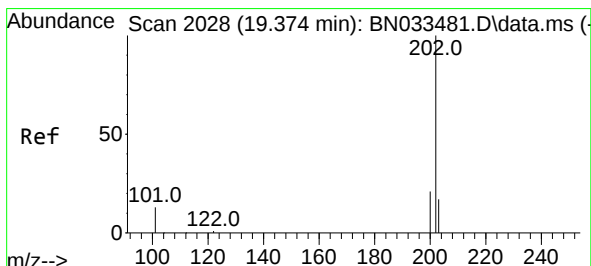
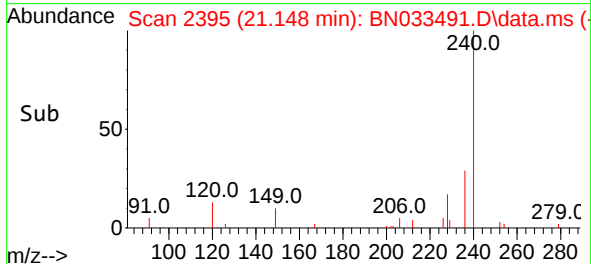
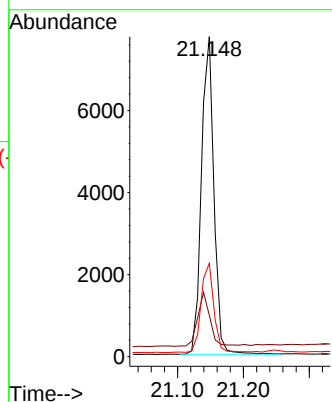
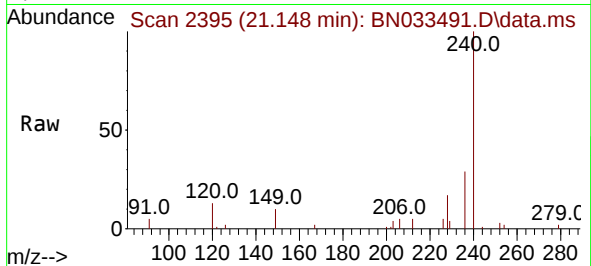




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

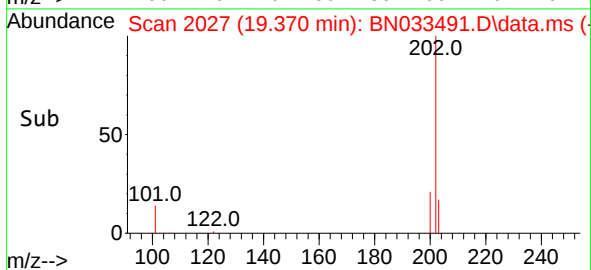
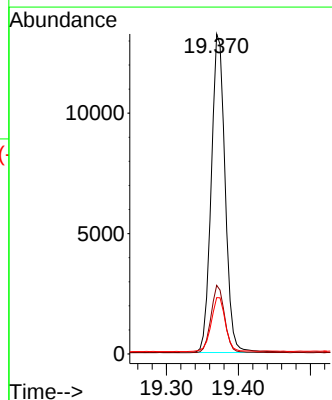
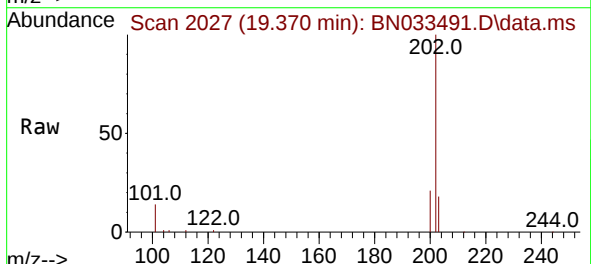
Instrument :
BNA_N
ClientSampleId :
PB162821BS

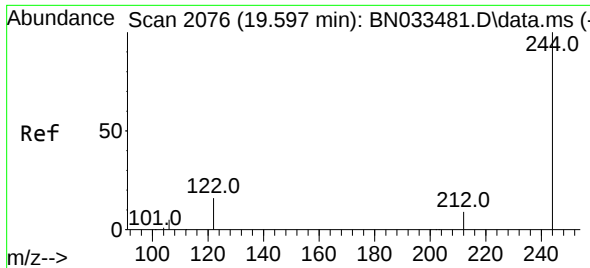
Tgt Ion:240 Resp: 10225
Ion Ratio Lower Upper
240 100
120 12.9 12.4 18.6
236 29.2 23.0 34.6



#30
Pyrene
Concen: 0.387 ng
RT: 19.370 min Scan# 2027
Delta R.T. -0.005 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Tgt Ion:202 Resp: 17661
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 17.5 14.2 21.4

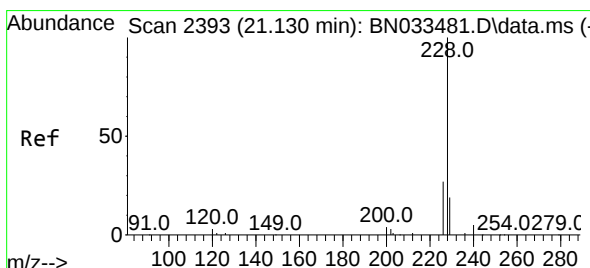
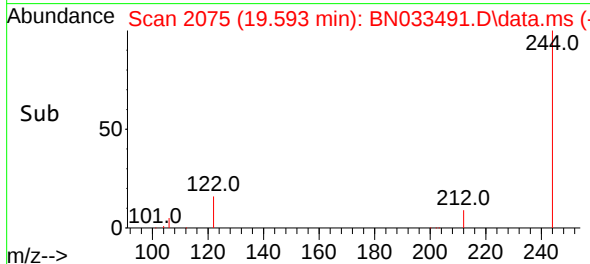
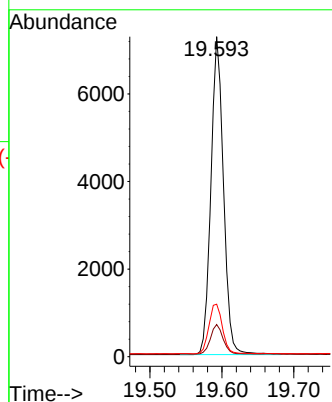
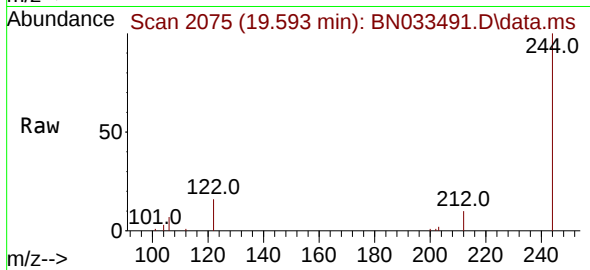




#31
 Terphenyl-d14
 Concen: 0.378 ng
 RT: 19.593 min Scan# 2076
 Delta R.T. -0.005 min
 Lab File: BN033491.D
 Acq: 20 Aug 2024 05:56

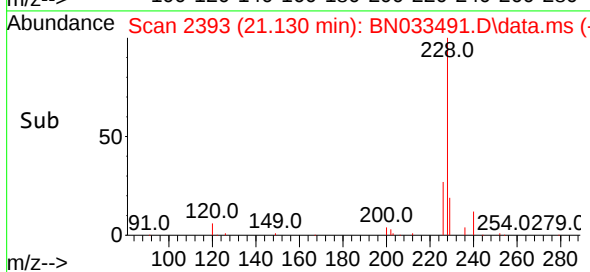
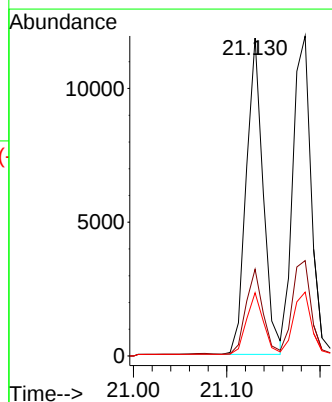
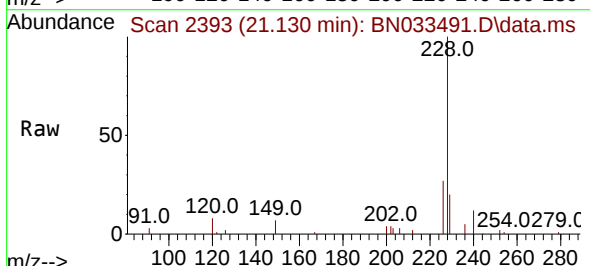
Instrument :
 BNA_N
 ClientSampleId :
 PB162821BS

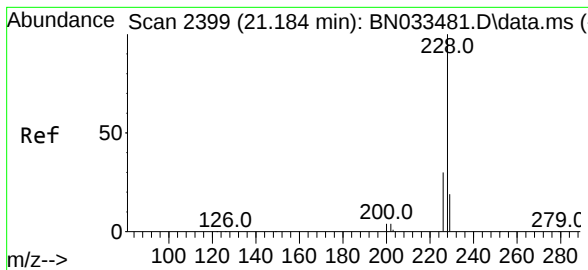
Tgt Ion:244 Resp: 8776
 Ion Ratio Lower Upper
 244 100
 212 10.1 7.8 11.6
 122 16.4 13.3 19.9



#32
 Benzo(a)anthracene
 Concen: 0.405 ng
 RT: 21.130 min Scan# 2393
 Delta R.T. -0.000 min
 Lab File: BN033491.D
 Acq: 20 Aug 2024 05:56

Tgt Ion:228 Resp: 14987
 Ion Ratio Lower Upper
 228 100
 226 27.3 21.8 32.6
 229 19.9 15.8 23.6





#33

Chrysene

Concen: 0.435 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033491.D

Acq: 20 Aug 2024 05:56

Instrument :

BNA_N

ClientSampleId :

PB162821BS

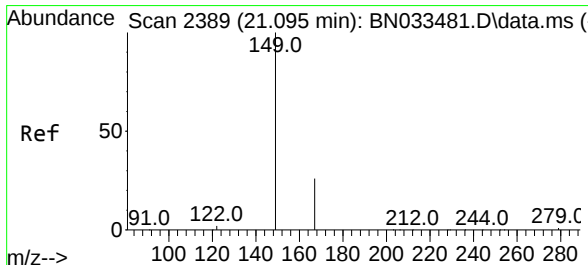
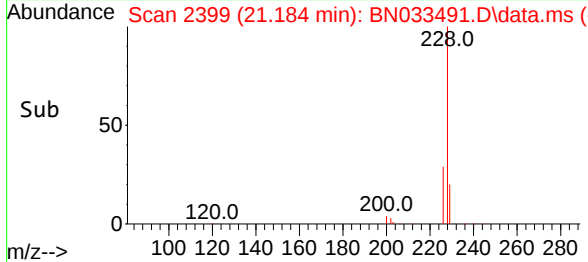
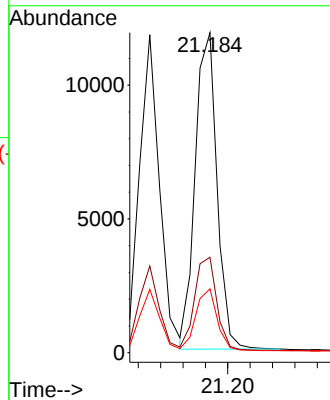
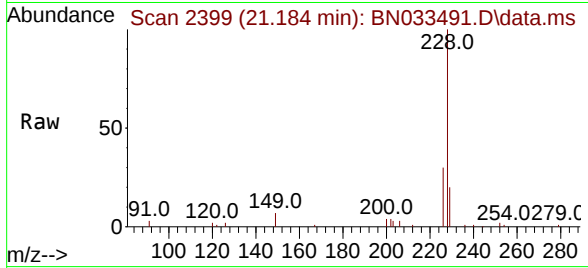
Tgt Ion:228 Resp: 16001

Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.8

229 20.0 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.297 ng

RT: 21.095 min Scan# 2389

Delta R.T. -0.000 min

Lab File: BN033491.D

Acq: 20 Aug 2024 05:56

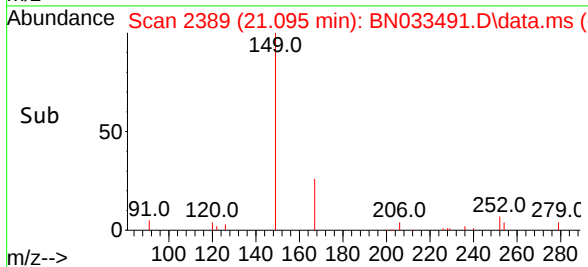
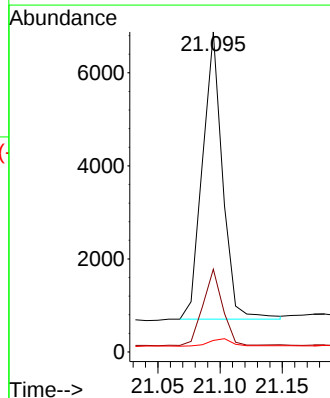
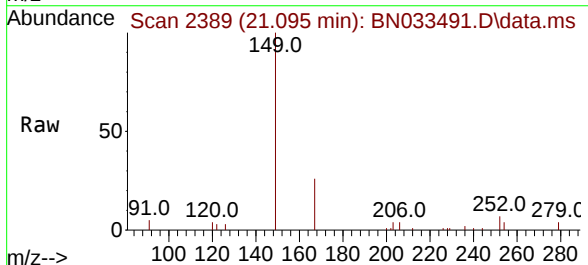
Tgt Ion:149 Resp: 6949

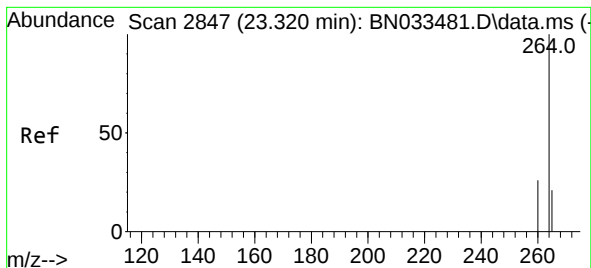
Ion Ratio Lower Upper

149 100

167 26.0 21.5 32.3

279 3.1 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.317 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033491.D

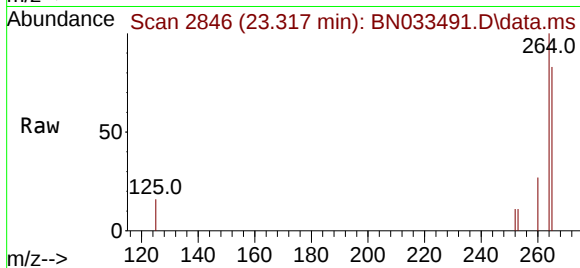
Acq: 20 Aug 2024 05:56

Instrument :

BNA_N

ClientSampleId :

PB162821BS



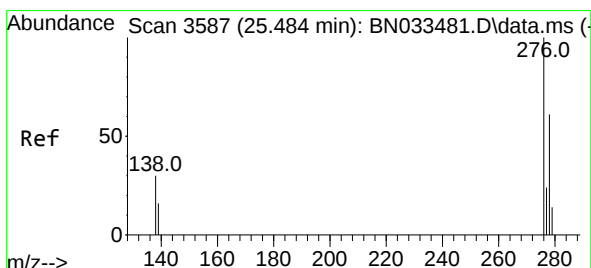
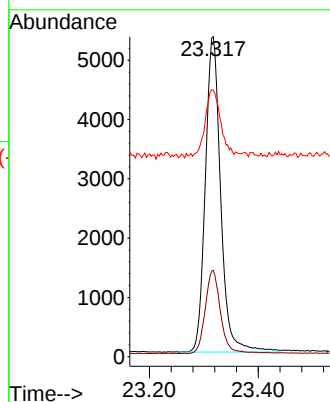
Tgt Ion:264 Resp: 10409

Ion Ratio Lower Upper

264 100

260 27.0 20.8 31.2

265 83.3 52.2 78.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.478 ng

RT: 25.475 min Scan# 3584

Delta R.T. -0.009 min

Lab File: BN033491.D

Acq: 20 Aug 2024 05:56

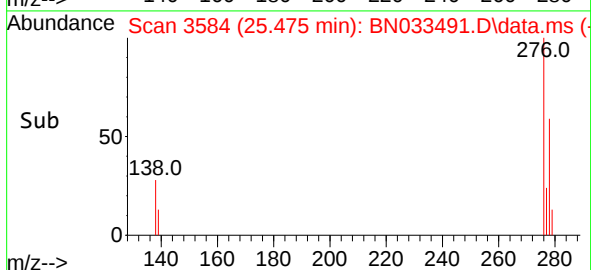
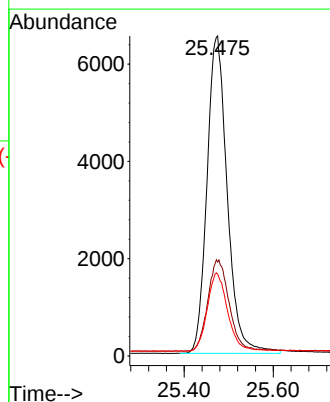
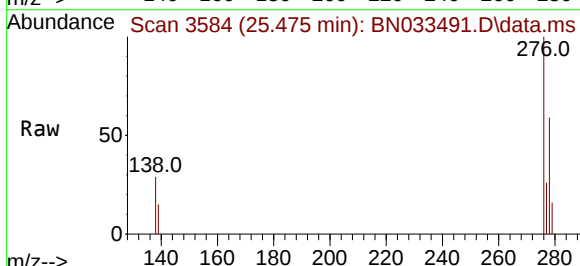
Tgt Ion:276 Resp: 20642

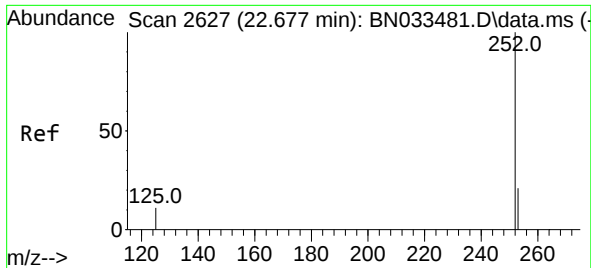
Ion Ratio Lower Upper

276 100

138 29.9 24.4 36.6

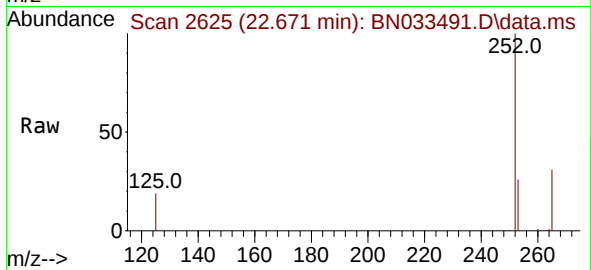
277 24.6 19.8 29.6



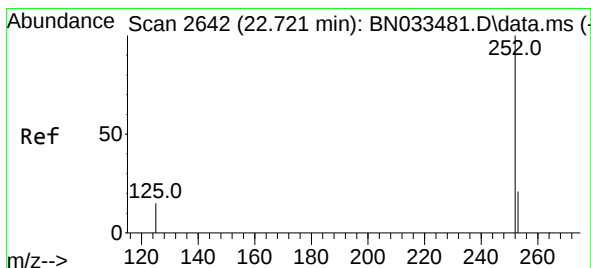
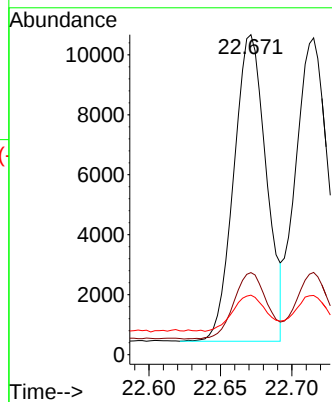
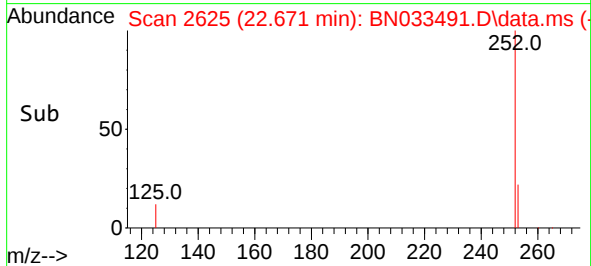


#37
Benzo(b)fluoranthene
Concen: 0.417 ng
RT: 22.671 min Scan# 2625
Delta R.T. -0.006 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Instrument :
BNA_N
ClientSampleId :
PB162821BS

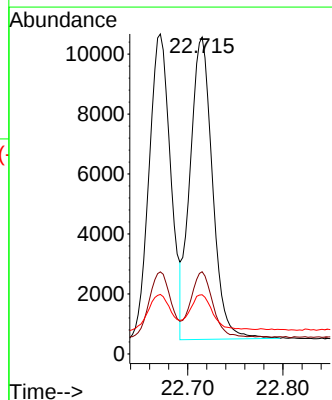
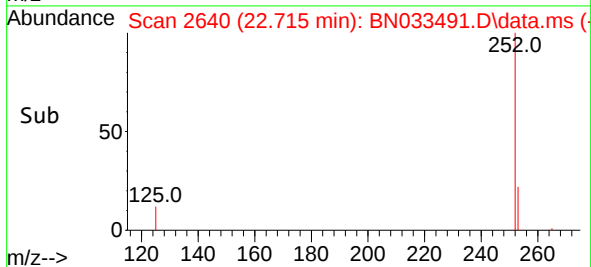
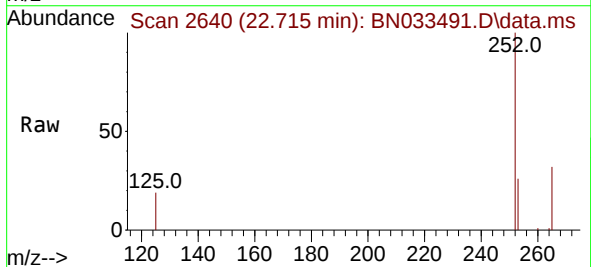


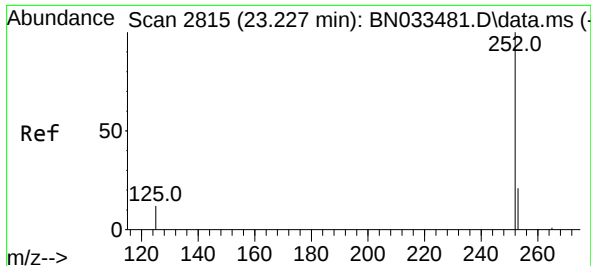
Tgt Ion:252 Resp: 16190
Ion Ratio Lower Upper
252 100
253 25.6 19.8 29.8
125 18.6 13.9 20.9



#38
Benzo(k)fluoranthene
Concen: 0.430 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

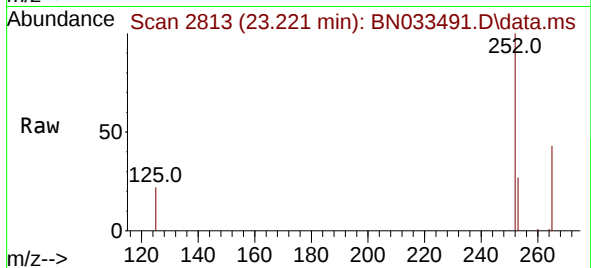
Tgt Ion:252 Resp: 16448
Ion Ratio Lower Upper
252 100
253 26.0 19.8 29.8
125 18.7 15.8 23.8



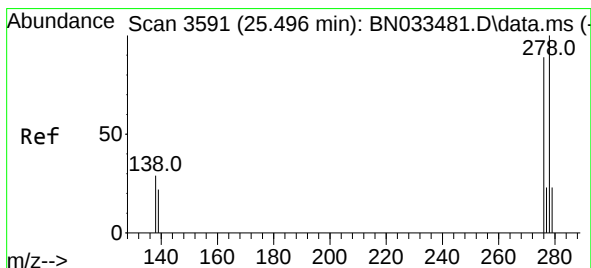
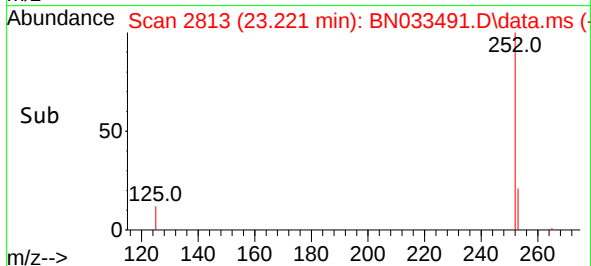
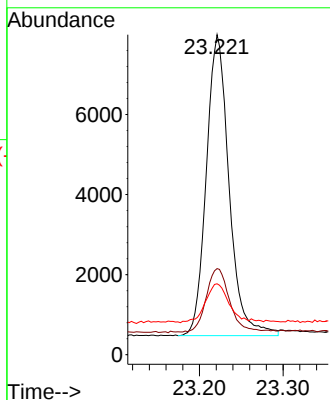


#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 23.221 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Instrument :
BNA_N
ClientSampleId :
PB162821BS

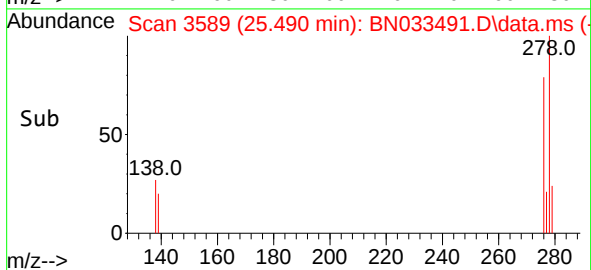
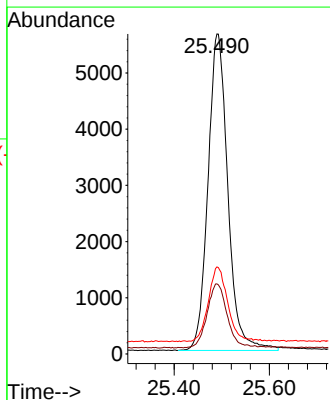
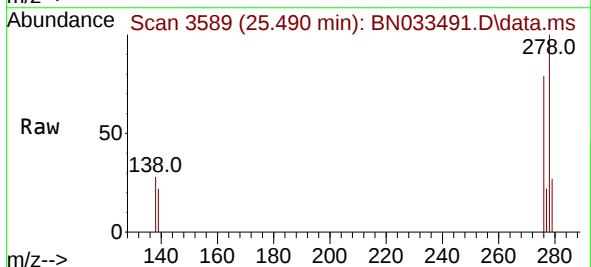


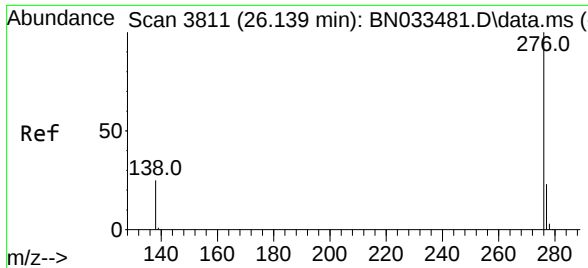
Tgt Ion:252 Resp: 14215
Ion Ratio Lower Upper
252 100
253 26.9 21.5 32.3
125 22.2 17.0 25.4



#40
Dibenzo(a,h)anthracene
Concen: 0.472 ng
RT: 25.490 min Scan# 3589
Delta R.T. -0.006 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

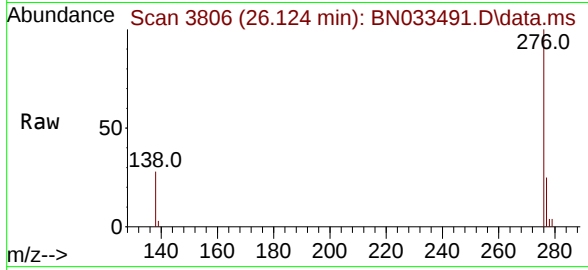
Tgt Ion:278 Resp: 16298
Ion Ratio Lower Upper
278 100
139 21.9 19.1 28.7
279 27.2 21.0 31.4



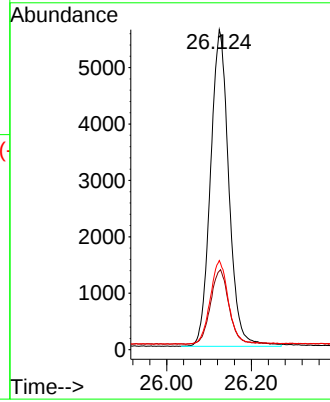
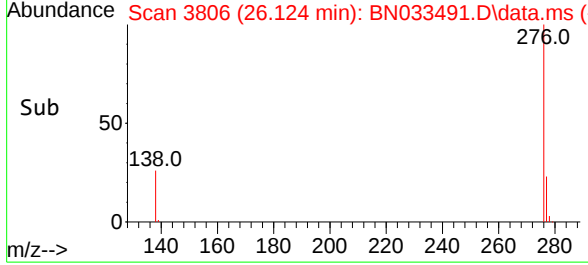


#41
Benzo(g,h,i)perylene
Concen: 0.457 ng
RT: 26.124 min Scan# 3811
Delta R.T. -0.015 min
Lab File: BN033491.D
Acq: 20 Aug 2024 05:56

Instrument :
BNA_N
ClientSampleId :
PB162821BS



Tgt Ion:276 Resp: 16885
Ion Ratio Lower Upper
276 100
277 24.6 19.7 29.5
138 27.9 21.8 32.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162821BSD	SDG No.:	P3657
Lab Sample ID:	PB162821BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033492.D	1	08/19/24 09:50	08/20/24 06:32	PB162821

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.38		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.37		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.38		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.39		0.020	0.10	ug/L
86-73-7	Fluorene	0.36		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.40		0.020	0.10	ug/L
120-12-7	Anthracene	0.38		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.36		0.020	0.10	ug/L
129-00-0	Pyrene	0.37		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.41		0.020	0.10	ug/L
218-01-9	Chrysene	0.44		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.45		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.46		0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.47		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.50		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.50		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.48		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.31		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.45		30 (20) - 150 (139)	113%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 (30) - 150 (150)	87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		30 (27) - 130 (123)	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		30 (34) - 130 (132)	98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		30 (35) - 130 (157)	90%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6510	7.552			
1146-65-2	Naphthalene-d8	16300	10.314			
15067-26-2	Acenaphthene-d10	7350	14.188			
1517-22-2	Phenanthrene-d10	13800	16.941			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162821BSD	SDG No.:	P3657
Lab Sample ID:	PB162821BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033492.D	1	08/19/24 09:50	08/20/24 06:32	PB162821

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	9510	21.148			
1520-96-3	Perylene-d12	9590	23.314			

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\BN081924\
 Data File : BN033492.D
 Acq On : 20 Aug 2024 06:32
 Operator : MA/JU
 Sample : PB162821BSD
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB162821BSD

Quant Time: Aug 20 07:49:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 23:32:18 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

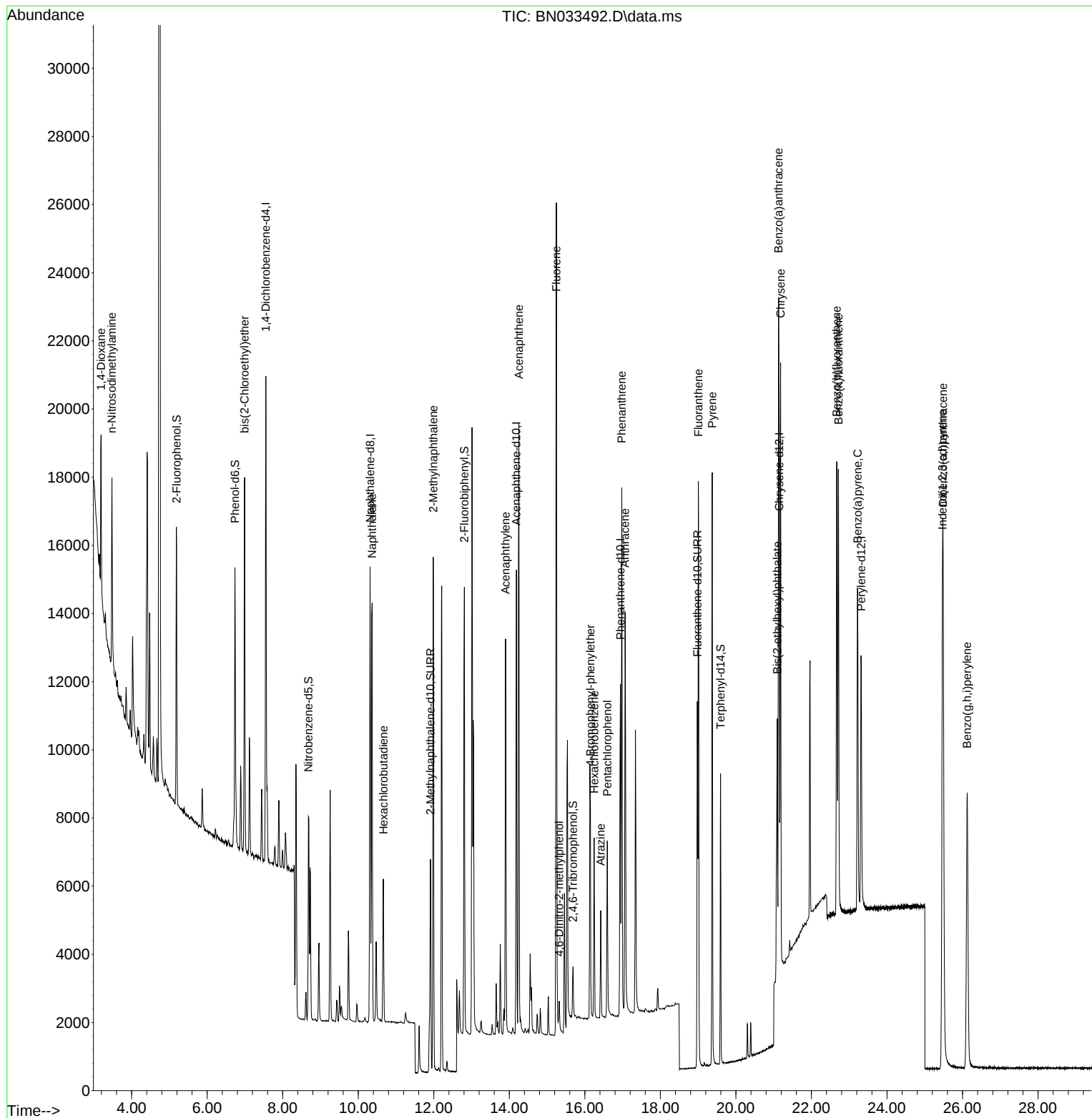
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.552	152	6514	0.400	ng	0.00
7) Naphthalene-d8	10.314	136	16349	0.400	ng	0.00
13) Acenaphthene-d10	14.188	164	7352	0.400	ng	0.00
19) Phenanthrene-d10	16.941	188	13832	0.400	ng	0.00
29) Chrysene-d12	21.148	240	9514	0.400	ng	0.00
35) Perylene-d12	23.314	264	9586	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	5994	0.290	ng	0.00
5) Phenol-d6	6.736	99	6860	0.279	ng	0.00
8) Nitrobenzene-d5	8.680	82	4886	0.360	ng	-0.01
11) 2-Methylnaphthalene-d10	11.910	152	10566	0.452	ng	0.00
14) 2,4,6-Tribromophenol	15.688	330	935	0.237	ng	0.00
15) 2-Fluorobiphenyl	12.809	172	11826	0.394	ng	0.00
27) Fluoranthene-d10	18.979	212	11564	0.348	ng	0.00
31) Terphenyl-d14	19.592	244	7747	0.358	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.190	88	2328	0.311	ng	# 42
3) n-Nitrosodimethylamine	3.478	42	3167	0.363	ng	# 95
6) bis(2-Chloroethyl)ether	6.988	93	6959	0.398	ng	98
9) Naphthalene	10.367	128	16737	0.383	ng	100
10) Hexachlorobutadiene	10.666	225	3342	0.383	ng	# 100
12) 2-Methylnaphthalene	11.986	142	10297	0.372	ng	99
16) Acenaphthylene	13.900	152	12397	0.384	ng	100
17) Acenaphthene	14.252	154	8810	0.388	ng	99
18) Fluorene	15.247	166	10339	0.362	ng	100
20) 4,6-Dinitro-2-methylph...	15.321	198	659	0.305	ng	97
21) 4-Bromophenyl-phenylether	16.147	248	3136	0.373	ng	94
22) Hexachlorobenzene	16.246	284	3647	0.393	ng	98
23) Atrazine	16.420	200	2236	0.333	ng	98
24) Pentachlorophenol	16.594	266	2465	0.613	ng	98
25) Phenanthrene	16.979	178	15299	0.398	ng	99
26) Anthracene	17.065	178	12818	0.376	ng	100
28) Fluoranthene	19.007	202	15250	0.359	ng	100
30) Pyrene	19.374	202	15586	0.367	ng	100
32) Benzo(a)anthracene	21.130	228	14101	0.410	ng	100
33) Chrysene	21.184	228	15156	0.443	ng	99
34) Bis(2-ethylhexyl)phtha...	21.094	149	6560	0.301	ng	97
36) Indeno(1,2,3-cd)pyrene	25.469	276	19952	0.501	ng	100
37) Benzo(b)fluoranthene	22.671	252	15930	0.445	ng	98
38) Benzo(k)fluoranthene	22.715	252	16015	0.455	ng	98
39) Benzo(a)pyrene	23.221	252	13846	0.467	ng	98
40) Dibenzo(a,h)anthracene	25.486	278	15753	0.495	ng	98
41) Benzo(g,h,i)perylene	26.124	276	16230	0.477	ng	99

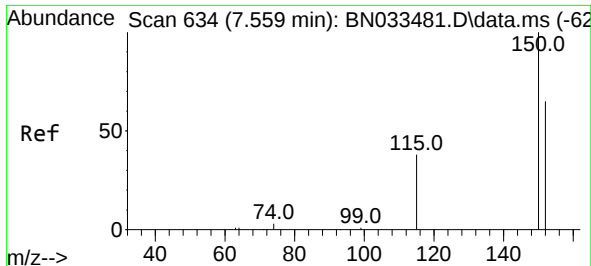
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033492.D
Acq On : 20 Aug 2024 06:32
Operator : MA/JU
Sample : PB162821BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162821BSD

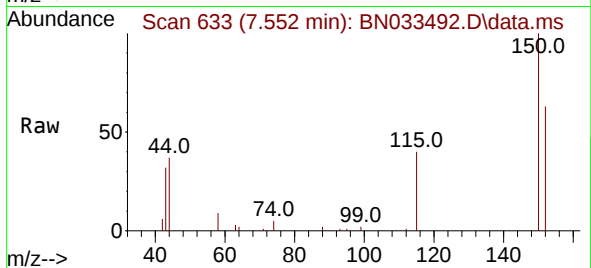
Quant Time: Aug 20 07:49:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:32:18 2024
Response via : Initial Calibration



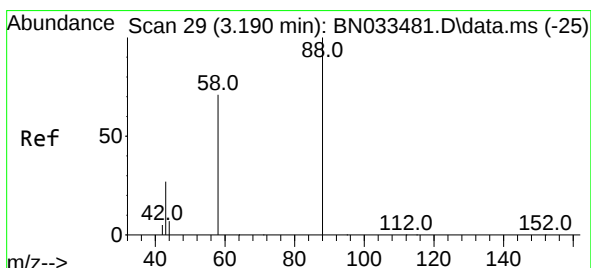
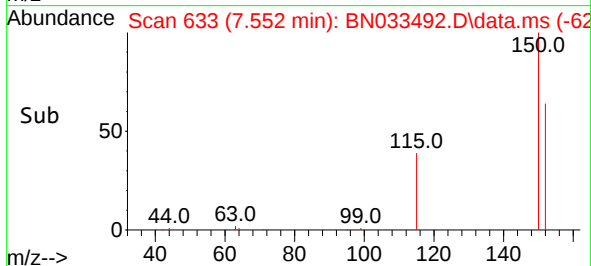
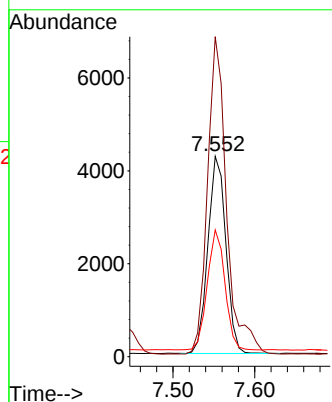


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.552 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN033492.D
 Acq: 20 Aug 2024 06:32

Instrument :
 BNA_N
 ClientSampleId :
 PB162821BSD

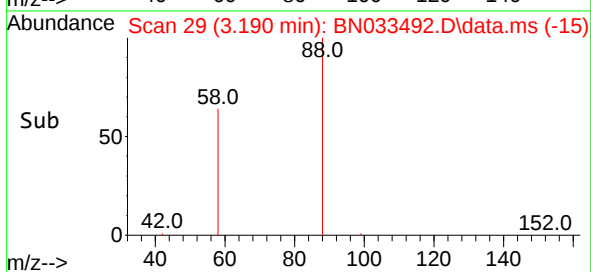
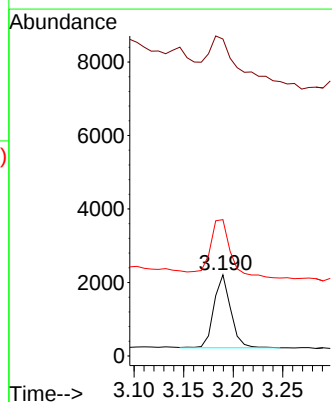
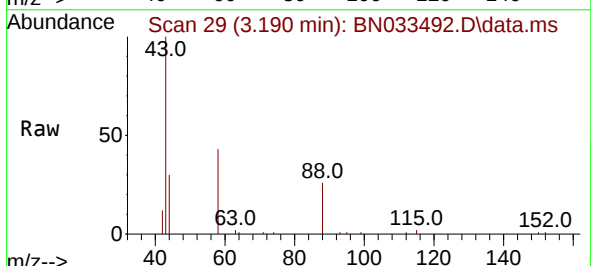


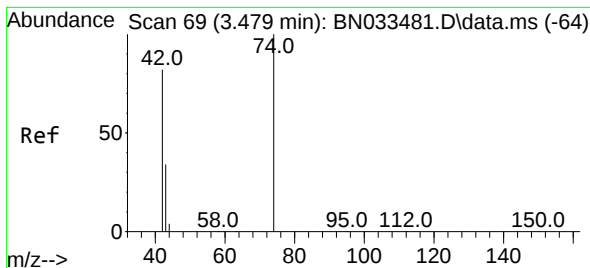
Tgt Ion:152 Resp: 6514
 Ion Ratio Lower Upper
 152 100
 150 159.7 122.2 183.2
 115 63.2 47.2 70.8



#2
 1,4-Dioxane
 Concen: 0.311 ng
 RT: 3.190 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: BN033492.D
 Acq: 20 Aug 2024 06:32

Tgt Ion: 88 Resp: 2328
 Ion Ratio Lower Upper
 88 100
 43 106.1 25.0 37.4#
 58 102.0 62.5 93.7#





#3

n-Nitrosodimethylamine

Concen: 0.363 ng

RT: 3.478 min Scan# 69

Delta R.T. -0.000 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

Instrument :

BNA_N

ClientSampleId :

PB162821BSD

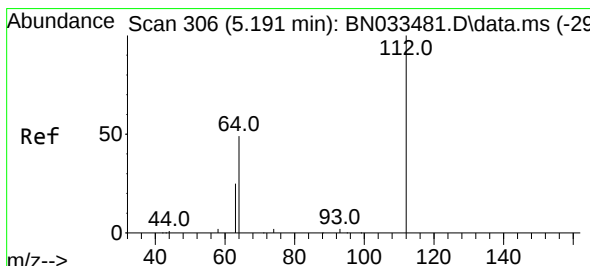
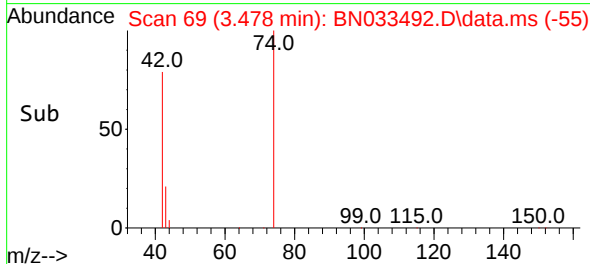
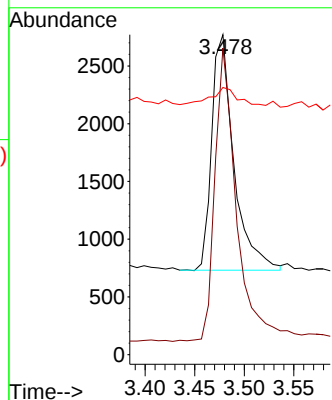
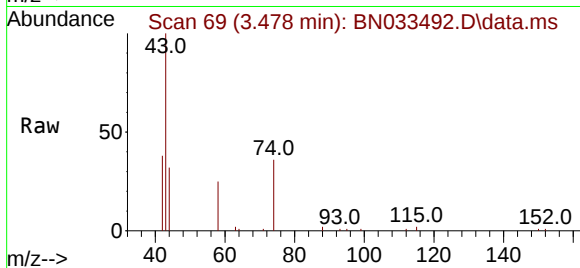
Tgt Ion: 42 Resp: 3167

Ion Ratio Lower Upper

42 100

74 120.2 100.2 150.2

44 8.9 5.3 7.9#



#4

2-Fluorophenol

Concen: 0.290 ng

RT: 5.190 min Scan# 306

Delta R.T. -0.000 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

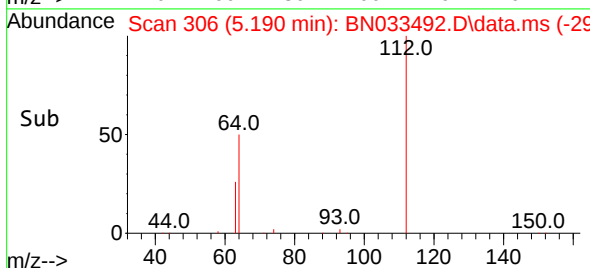
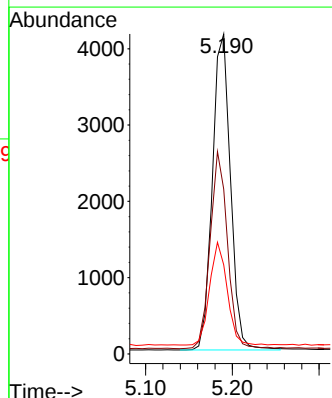
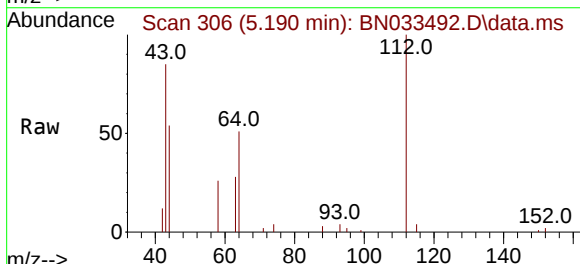
Tgt Ion: 112 Resp: 5994

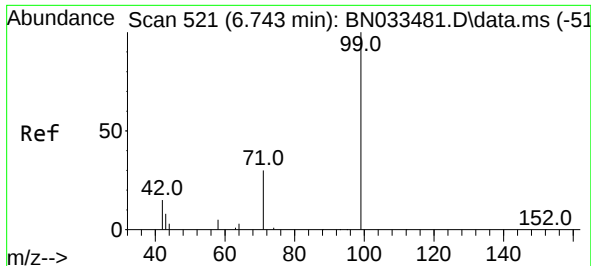
Ion Ratio Lower Upper

112 100

64 59.7 47.1 70.7

63 31.5 24.9 37.3

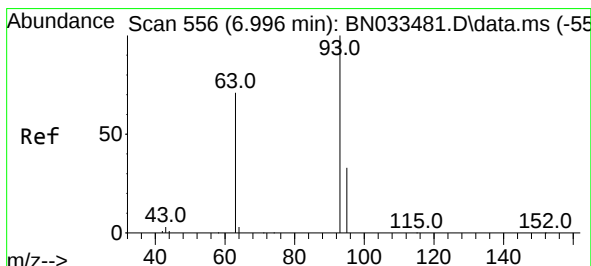
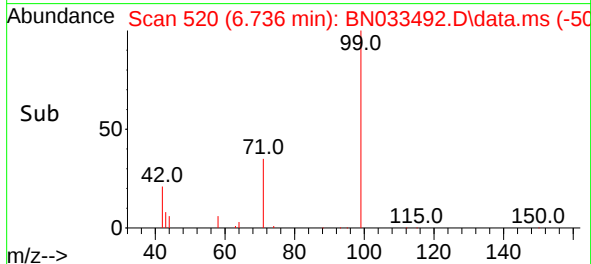
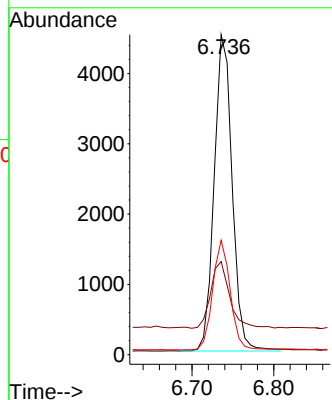
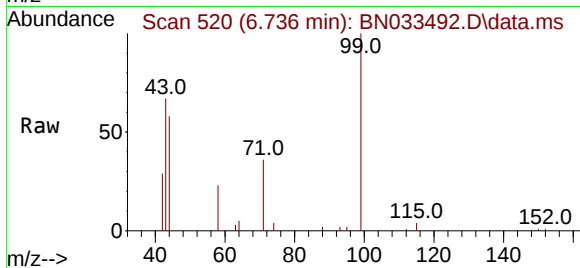




#5
Phenol-d6
Concen: 0.279 ng
RT: 6.736 min Scan# 51
Delta R.T. -0.008 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

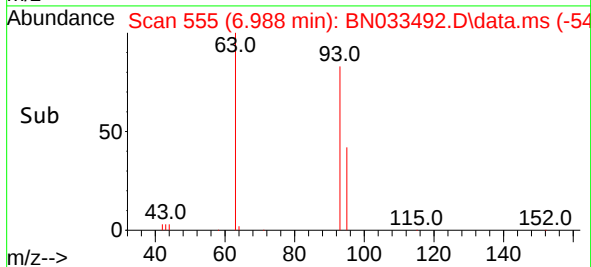
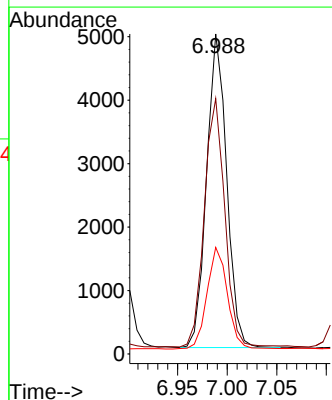
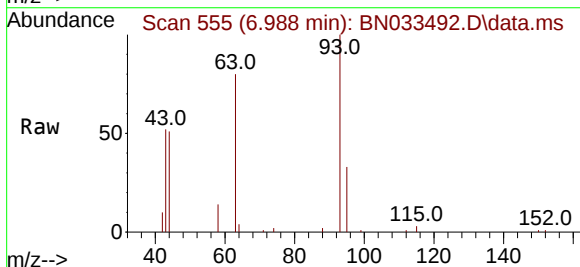
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

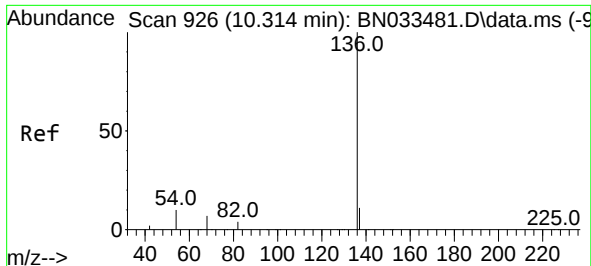
Tgt Ion: 99 Resp: 6860
Ion Ratio Lower Upper
99 100
42 22.4 16.6 24.8
71 33.8 26.2 39.4



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 6.988 min Scan# 555
Delta R.T. -0.008 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion: 93 Resp: 6959
Ion Ratio Lower Upper
93 100
63 80.7 63.0 94.4
95 33.2 26.0 39.0

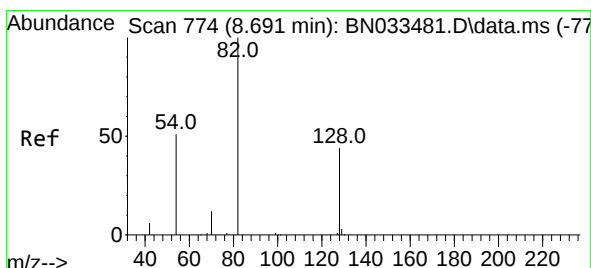
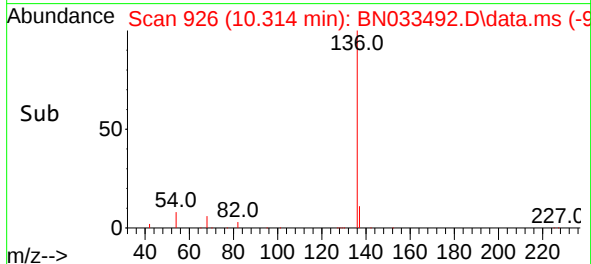
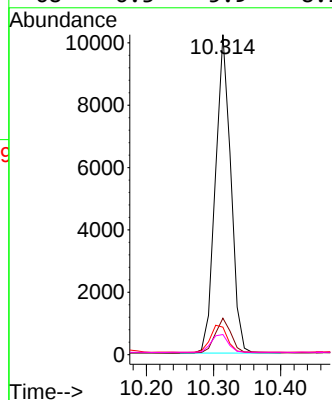
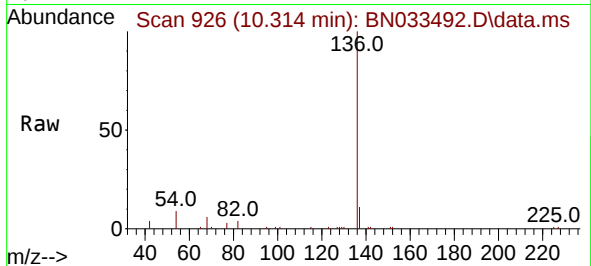




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

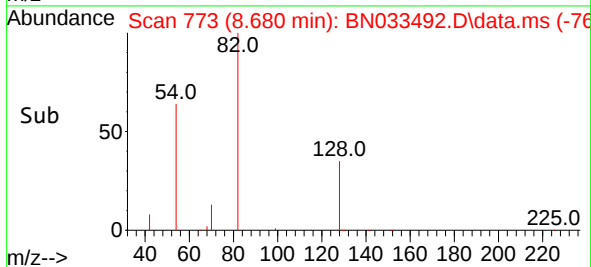
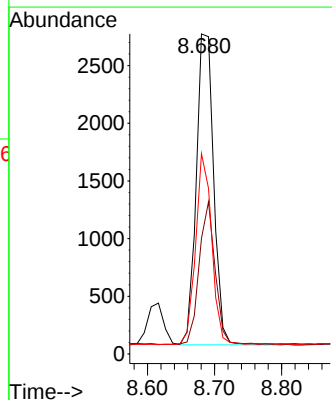
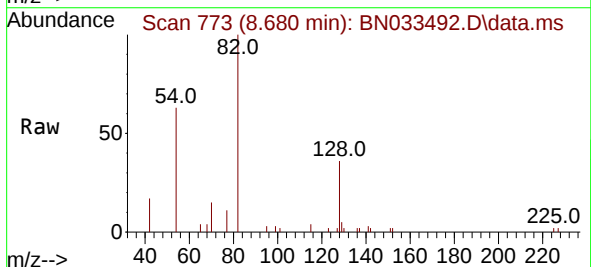
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

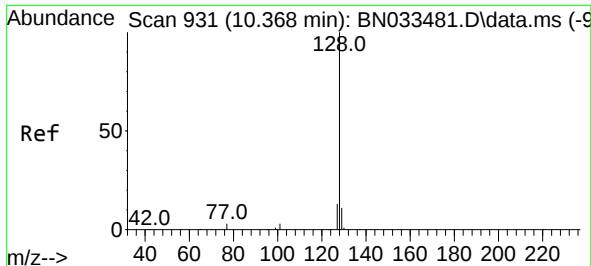
Tgt Ion:	136	Resp:	16349
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	8.6	8.3	12.5
68	6.3	5.9	8.9



#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.680 min Scan# 773
Delta R.T. -0.011 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:	82	Resp:	4886
Ion	Ratio	Lower	Upper
82	100		
128	36.2	36.0	54.0
54	62.6	42.0	63.0

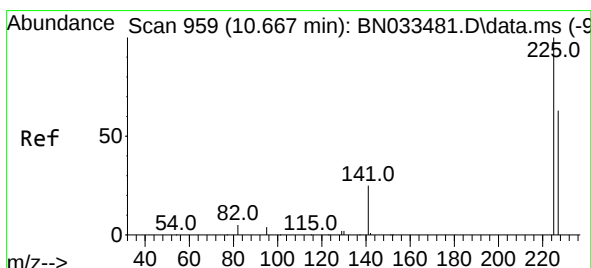
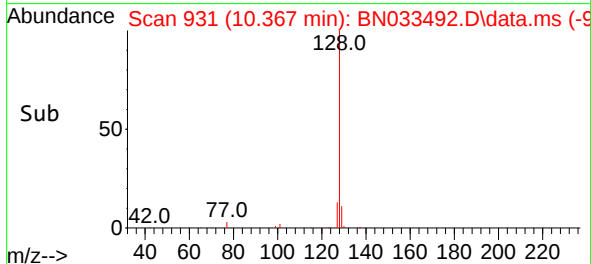
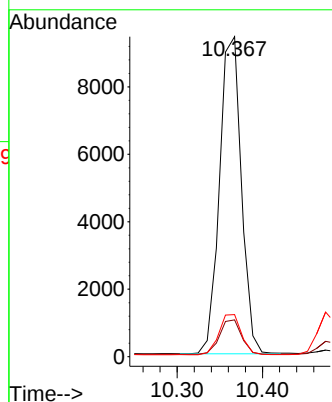
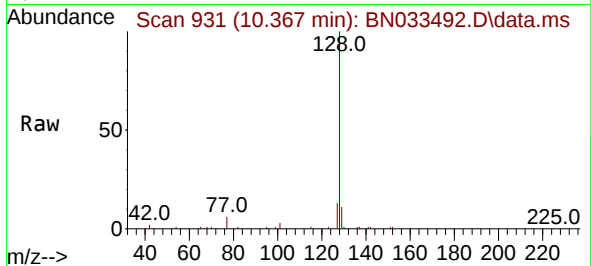




#9
Naphthalene
Concen: 0.383 ng
RT: 10.367 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

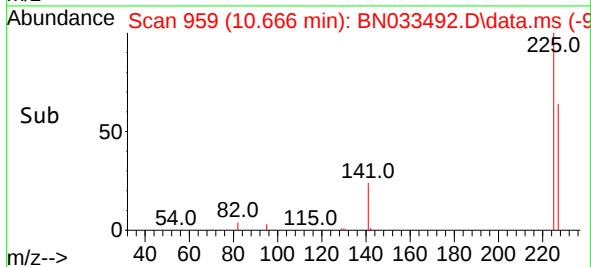
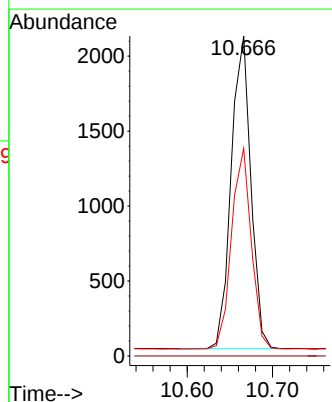
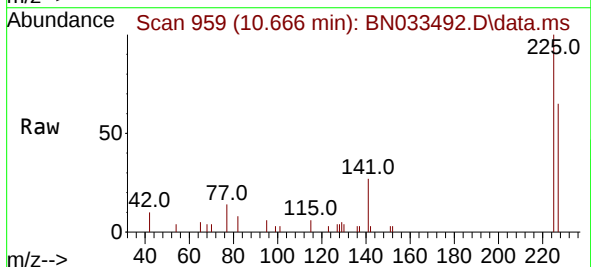
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

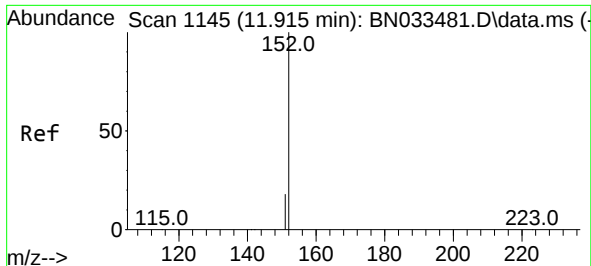
Tgt Ion:128 Resp: 16737
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.1 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.666 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:225 Resp: 3342
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.2 76.8

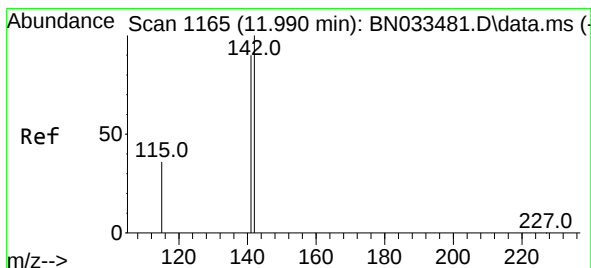
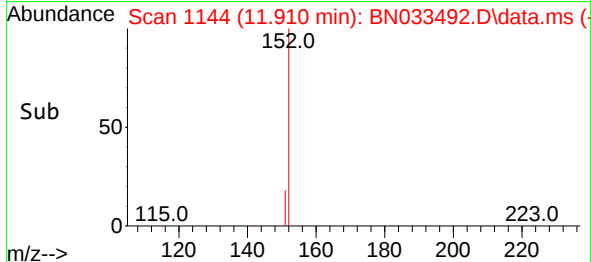
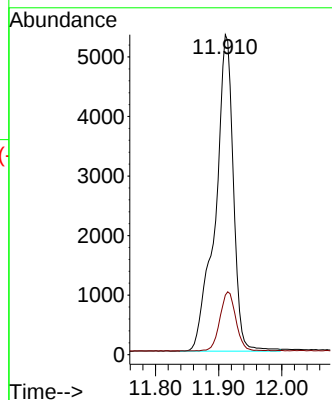
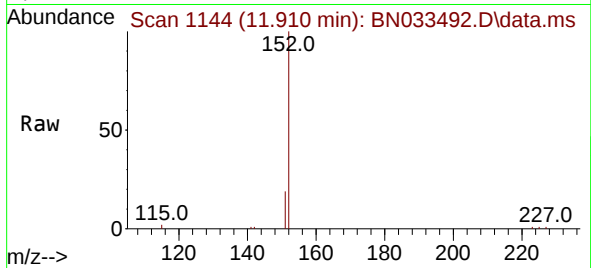




#11
2-Methylnaphthalene-d10
Concen: 0.452 ng
RT: 11.910 min Scan# 1144
Delta R.T. -0.004 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

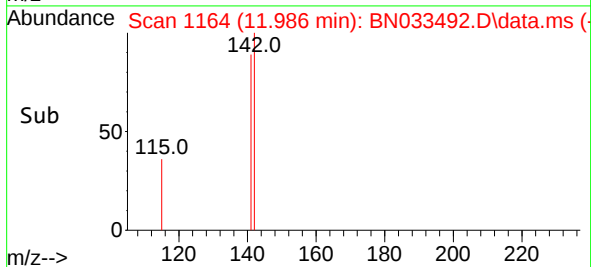
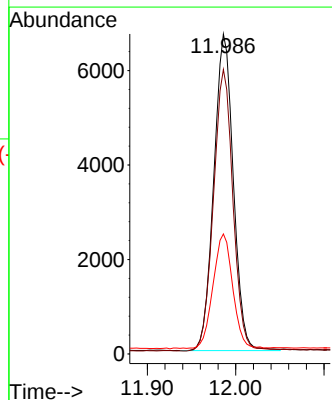
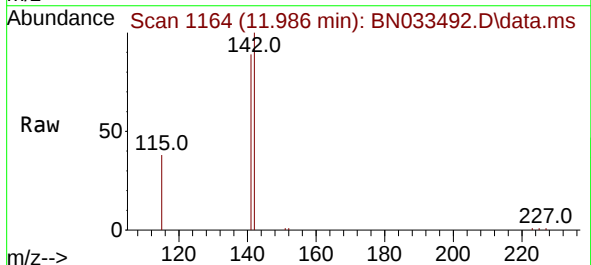
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

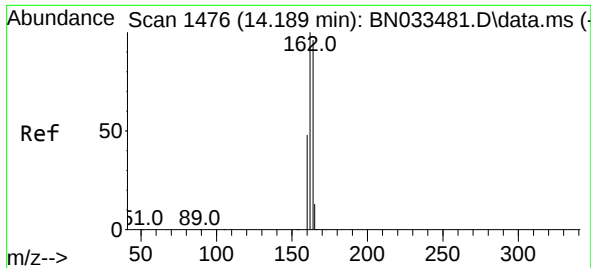
Tgt Ion:152 Resp: 10566
Ion Ratio Lower Upper
152 100
151 16.6 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 11.986 min Scan# 1164
Delta R.T. -0.004 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:142 Resp: 10297
Ion Ratio Lower Upper
142 100
141 88.9 71.7 107.5
115 37.5 29.4 44.2

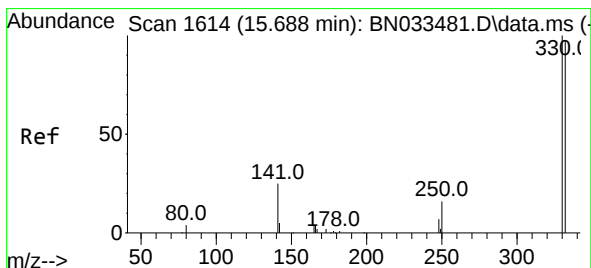
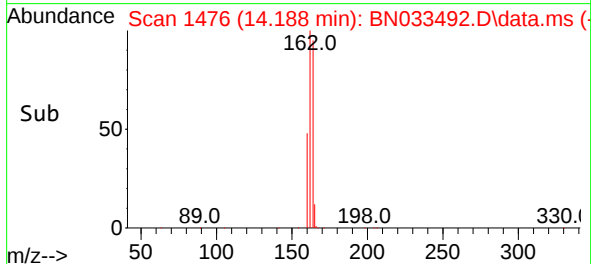
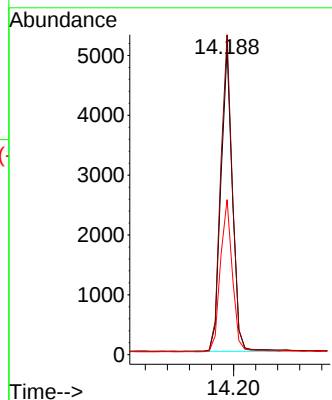
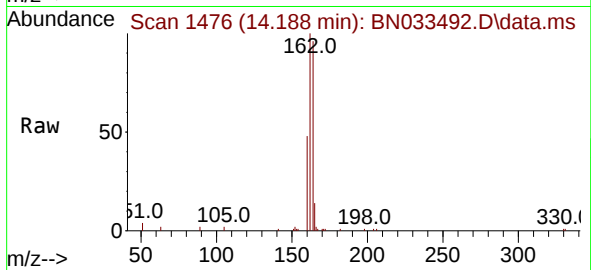




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.188 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

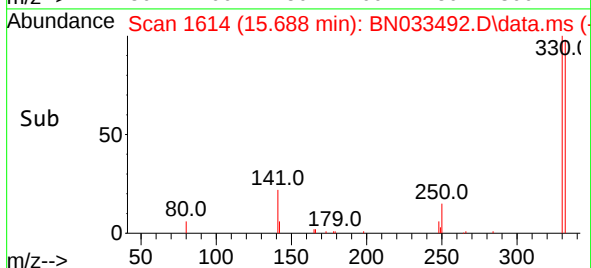
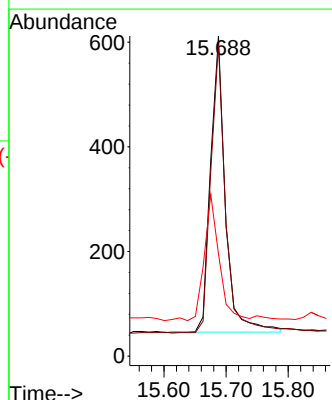
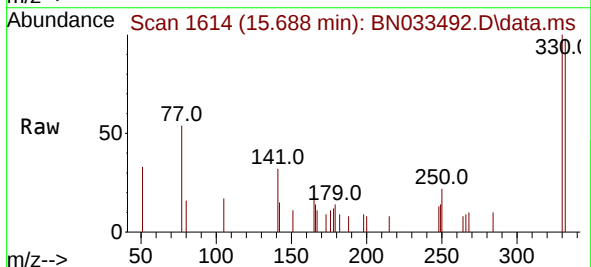
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

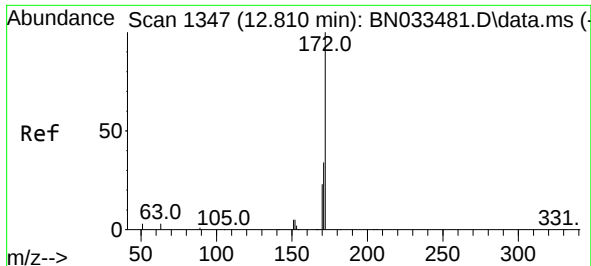
Tgt Ion:164 Resp: 7352
Ion Ratio Lower Upper
164 100
162 104.7 83.5 125.3
160 50.7 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.237 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:330 Resp: 935
Ion Ratio Lower Upper
330 100
332 97.2 77.5 116.3
141 41.5 33.9 50.9

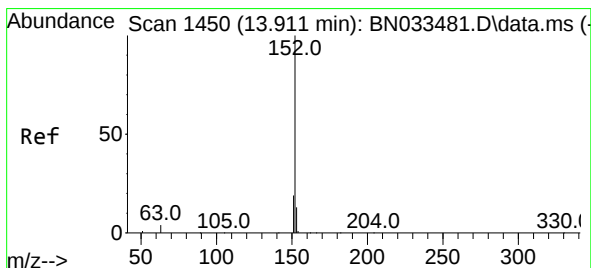
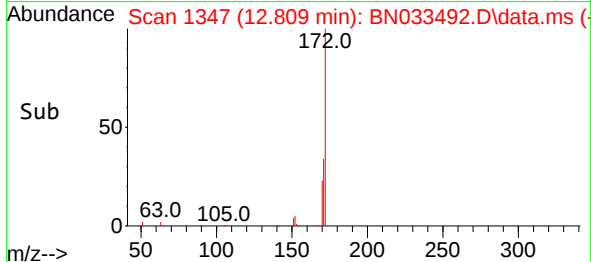
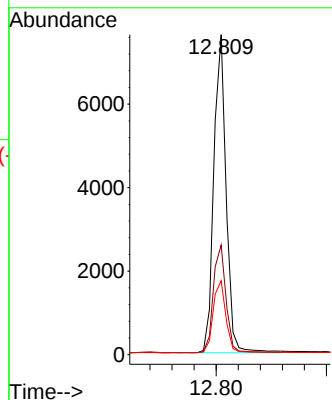
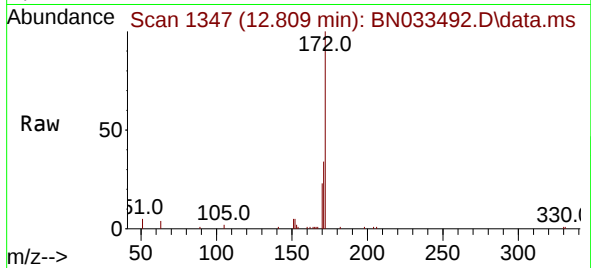




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.809 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

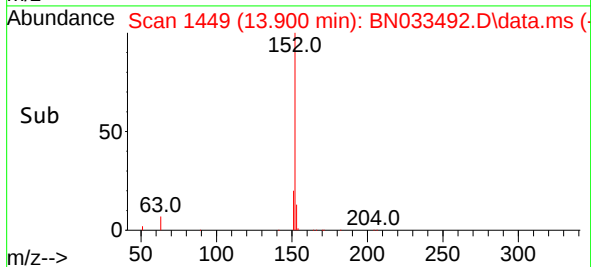
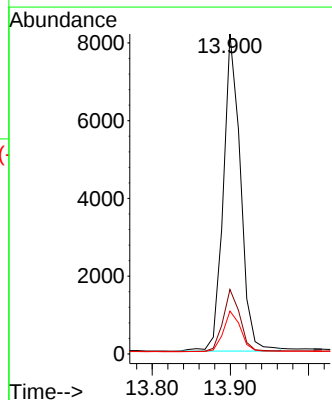
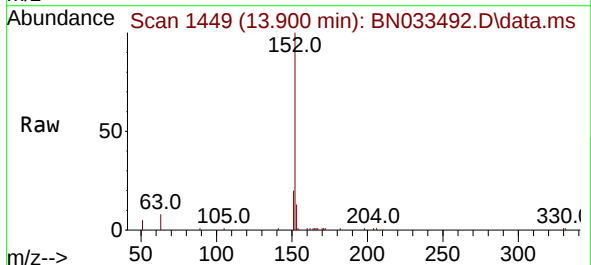
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

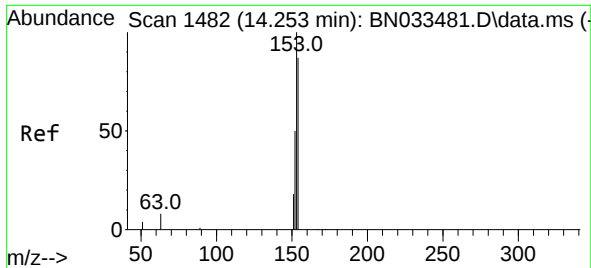
Tgt Ion:172 Resp: 11826
Ion Ratio Lower Upper
172 100
171 34.3 27.7 41.5
170 23.1 18.3 27.5



#16
Acenaphthylene
Concen: 0.384 ng
RT: 13.900 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:152 Resp: 12397
Ion Ratio Lower Upper
152 100
151 19.3 15.7 23.5
153 13.0 10.3 15.5

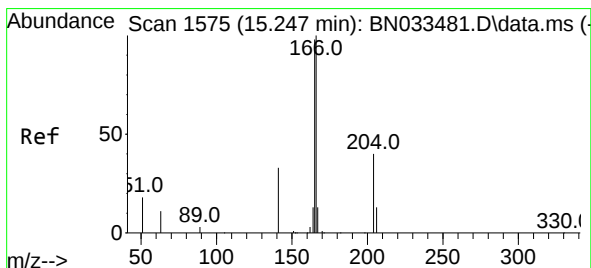
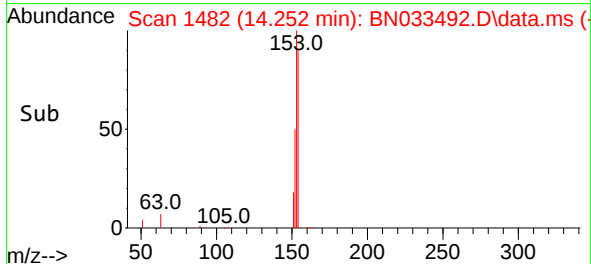
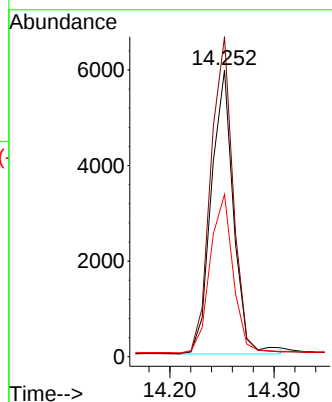
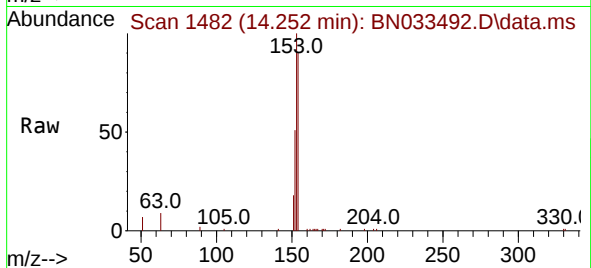




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.252 min Scan# 1482
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

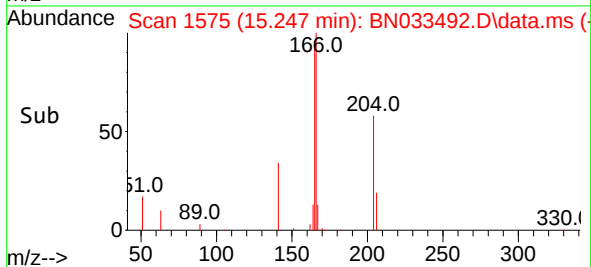
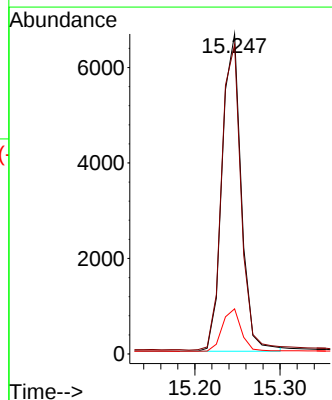
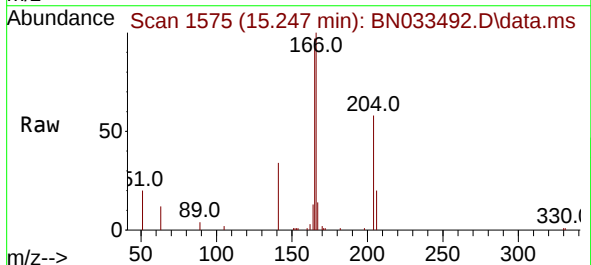
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

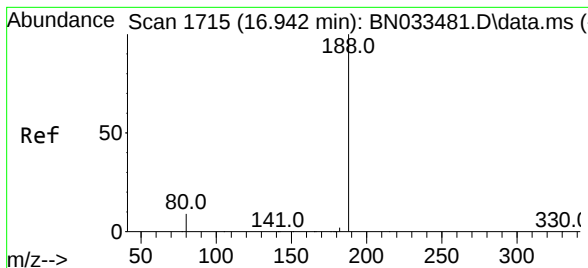
Tgt Ion:154 Resp: 8810
Ion Ratio Lower Upper
154 100
153 112.2 89.0 133.6
152 57.2 45.2 67.8



#18
Fluorene
Concen: 0.362 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:166 Resp: 10339
Ion Ratio Lower Upper
166 100
165 98.0 78.2 117.4
167 13.3 10.6 16.0

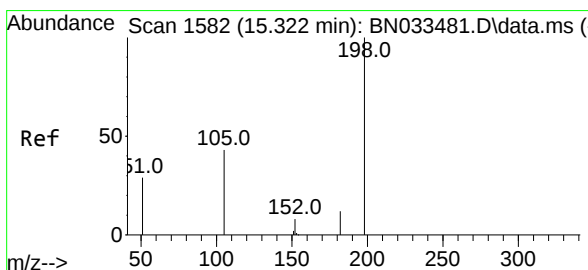
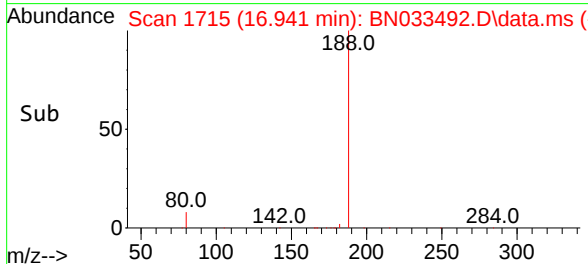
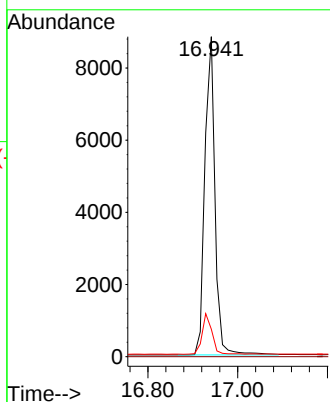
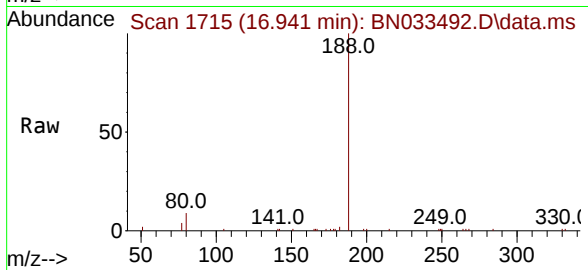




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.941 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

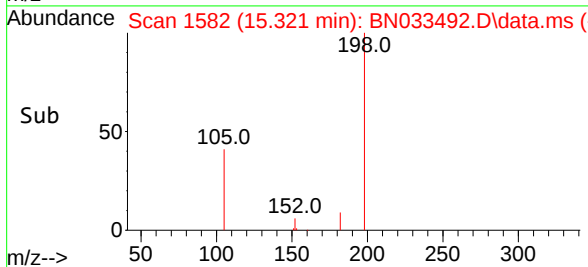
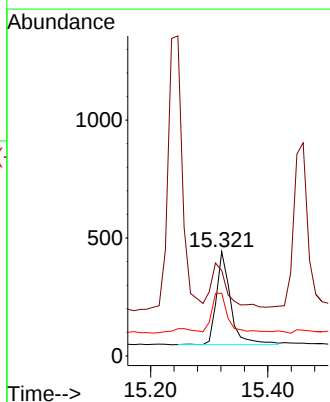
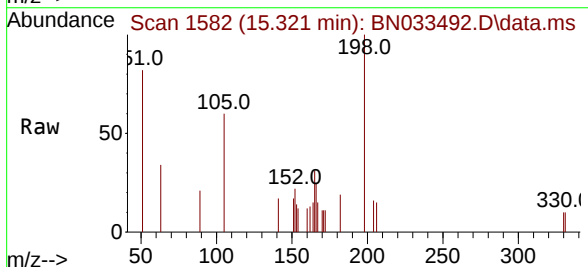
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

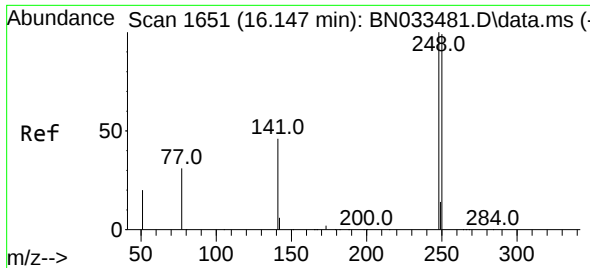
Tgt Ion:188 Resp: 13832
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.6 7.8 11.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.305 ng
RT: 15.321 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:198 Resp: 659
Ion Ratio Lower Upper
198 100
51 81.9 65.1 97.7
105 60.2 44.8 67.2

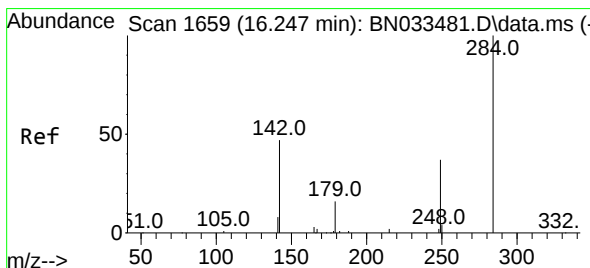
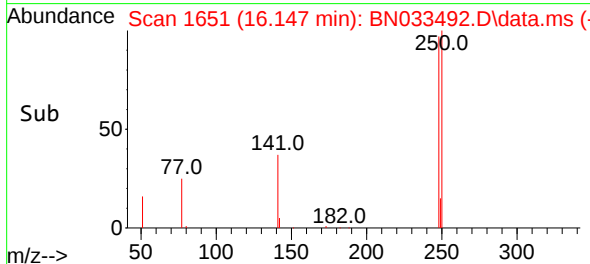
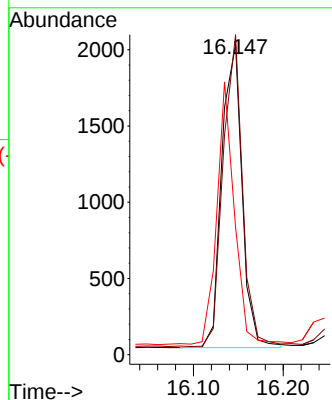
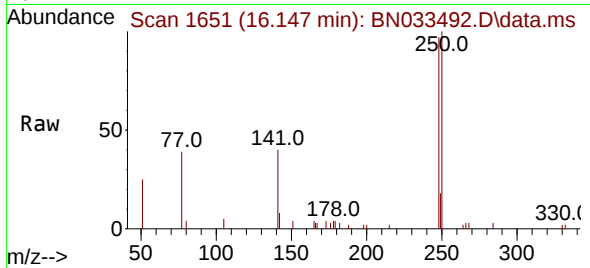




#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 16.147 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

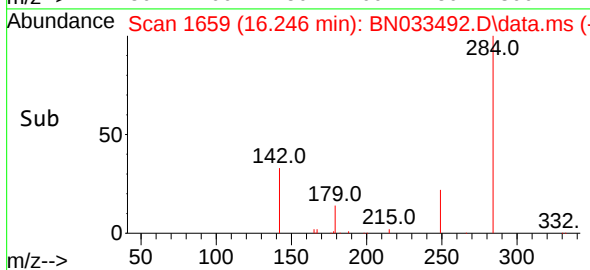
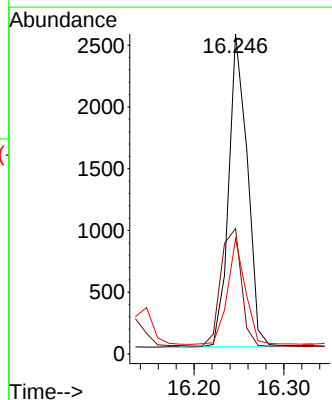
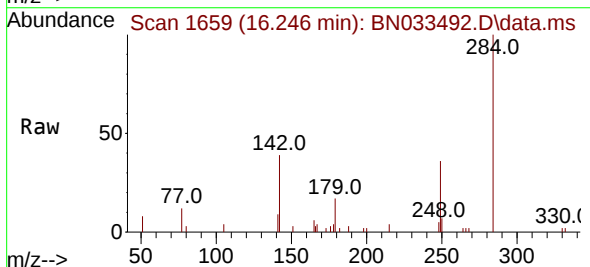
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

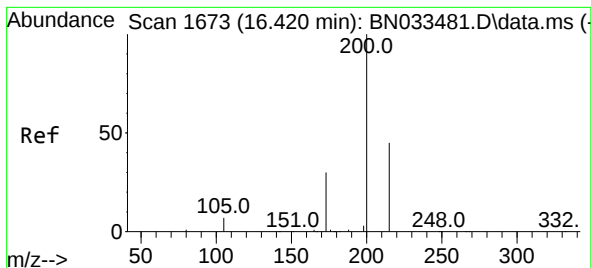
Tgt Ion:	248	Resp:	3136
Ion	Ratio	Lower	Upper
248	100		
250	103.2	79.2	118.8
141	41.1	37.9	56.9



#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.246 min Scan# 1659
Delta R.T. -0.000 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:	284	Resp:	3647
Ion	Ratio	Lower	Upper
284	100		
142	41.6	31.8	47.6
249	32.3	26.0	39.0





#23

Atrazine

Concen: 0.333 ng

RT: 16.420 min Scan# 1673

Delta R.T. -0.000 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

Instrument :

BNA_N

ClientSampleId :

PB162821BSD

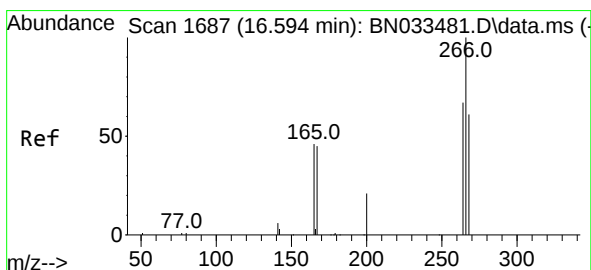
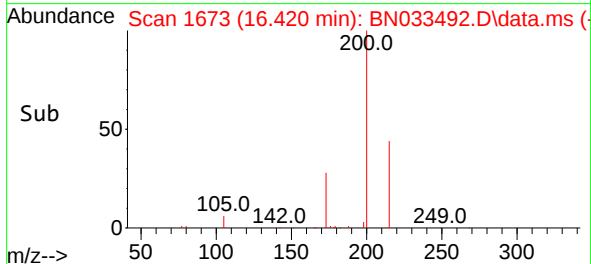
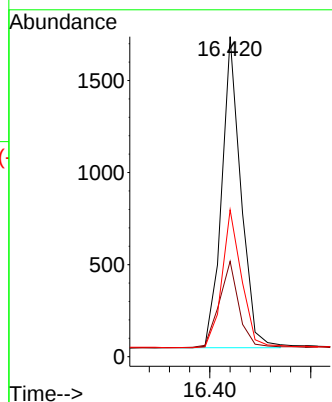
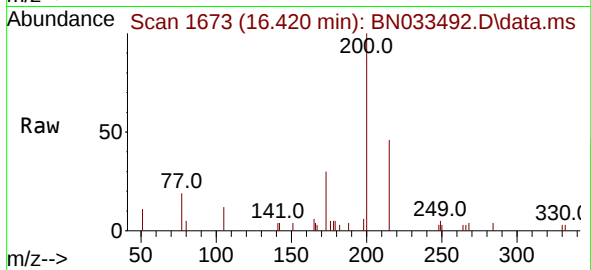
Tgt Ion:200 Resp: 2236

Ion Ratio Lower Upper

200 100

173 29.8 25.3 37.9

215 45.9 36.6 54.8



#24

Pentachlorophenol

Concen: 0.613 ng

RT: 16.594 min Scan# 1687

Delta R.T. -0.000 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

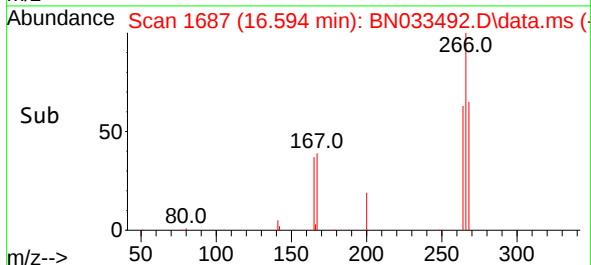
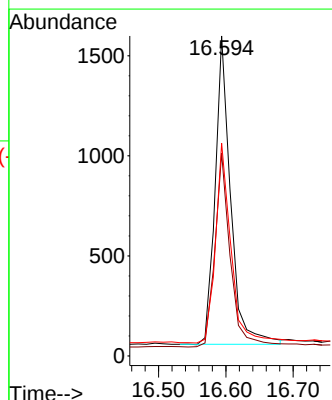
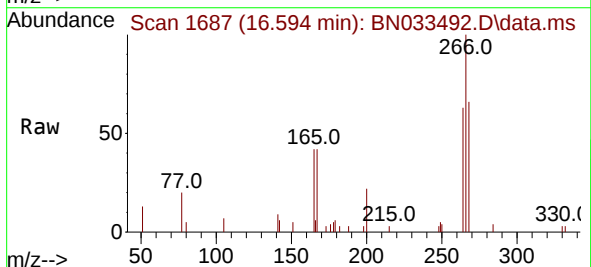
Tgt Ion:266 Resp: 2465

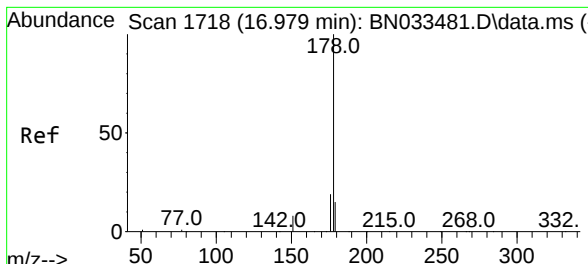
Ion Ratio Lower Upper

266 100

264 63.3 51.9 77.9

268 64.7 51.0 76.4

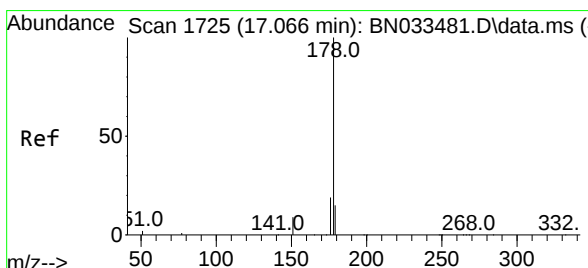
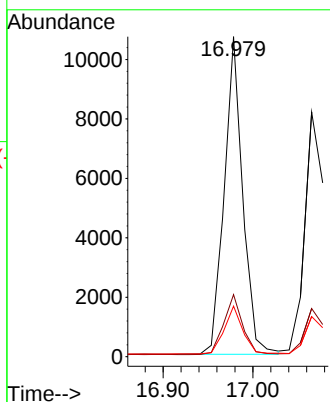
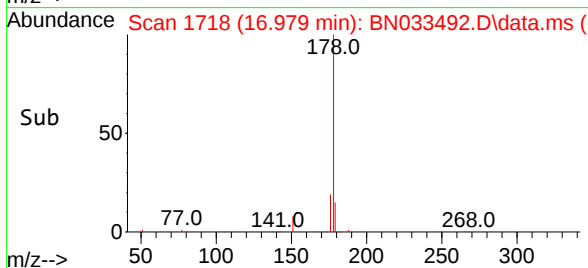
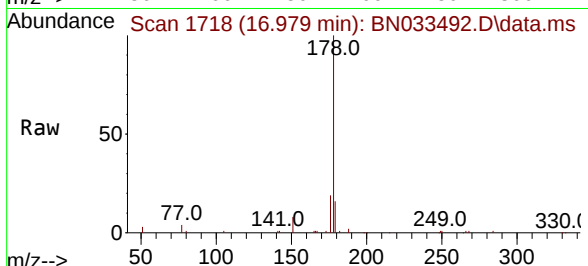




#25
 Phenanthrene
 Concen: 0.398 ng
 RT: 16.979 min Scan# 1718
 Delta R.T. -0.000 min
 Lab File: BN033492.D
 Acq: 20 Aug 2024 06:32

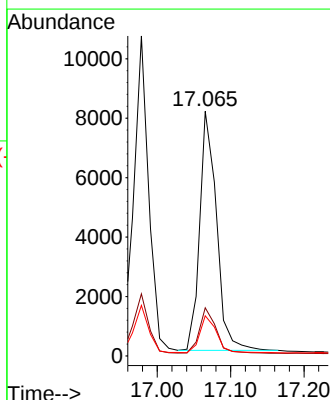
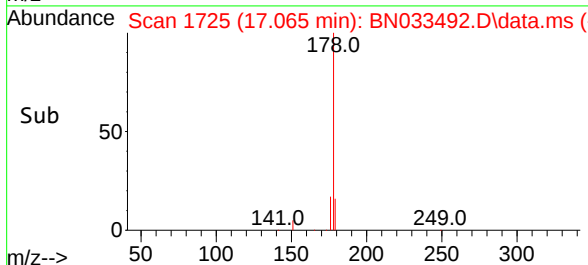
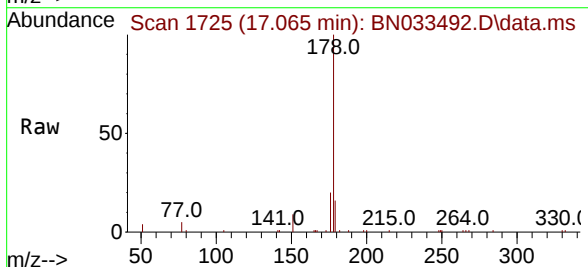
Instrument :
 BNA_N
 ClientSampleId :
 PB162821BSD

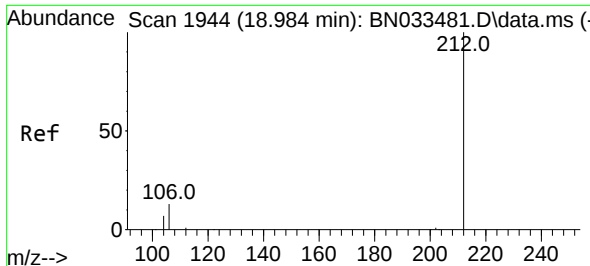
Tgt Ion:	178	Resp:	15299
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.3	22.9
179	15.0	12.3	18.5



#26
 Anthracene
 Concen: 0.376 ng
 RT: 17.065 min Scan# 1725
 Delta R.T. -0.000 min
 Lab File: BN033492.D
 Acq: 20 Aug 2024 06:32

Tgt Ion:	178	Resp:	12818
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.0	22.6
179	15.3	12.4	18.6

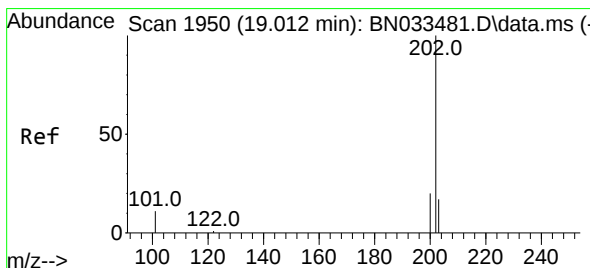
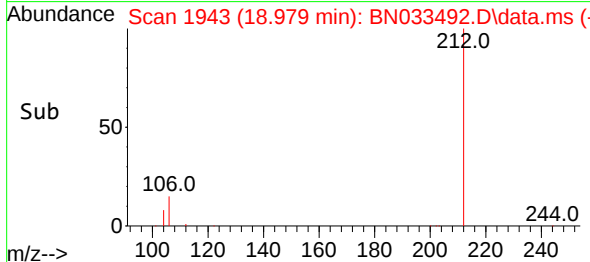
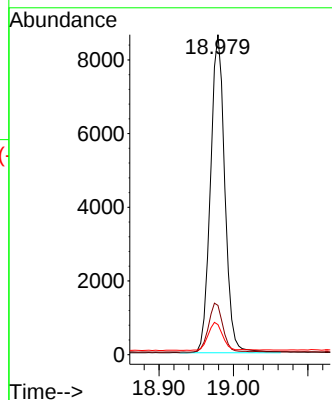
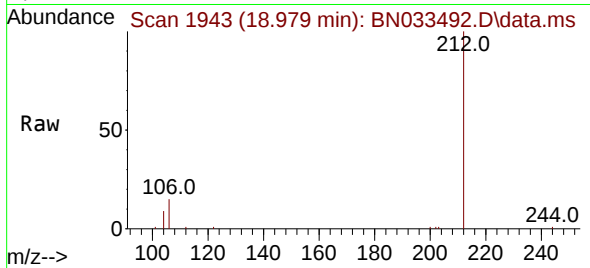




#27
Fluoranthene-d10
Concen: 0.348 ng
RT: 18.979 min Scan# 1943
Delta R.T. -0.005 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

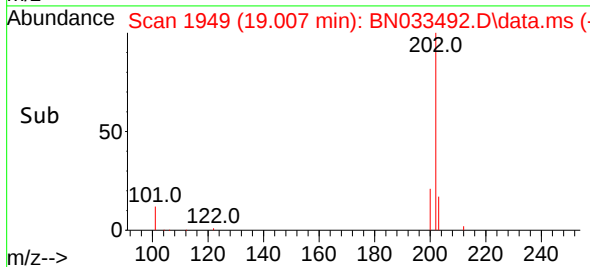
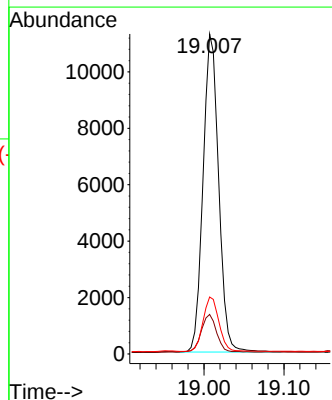
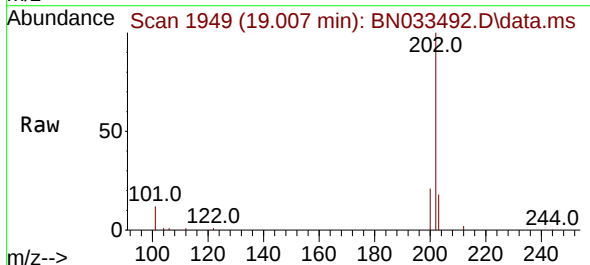
Instrument :
BNA_N
ClientSampleId :
PB162821BSD

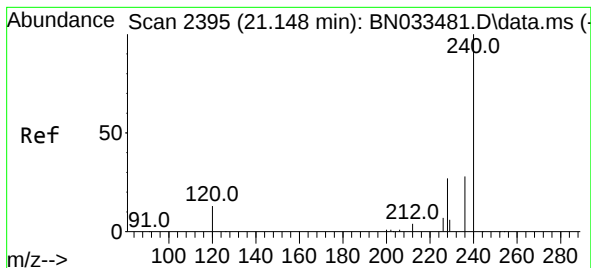
Tgt Ion:212 Resp: 11564
Ion Ratio Lower Upper
212 100
106 15.5 12.3 18.5
104 9.0 7.0 10.4



#28
Fluoranthene
Concen: 0.359 ng
RT: 19.007 min Scan# 1949
Delta R.T. -0.005 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:202 Resp: 15250
Ion Ratio Lower Upper
202 100
101 11.8 9.5 14.3
203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.148 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

Instrument :

BNA_N

ClientSampleId :

PB162821BSD

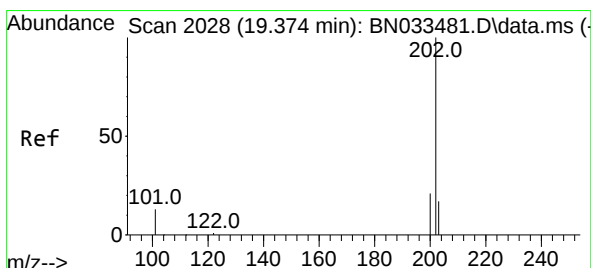
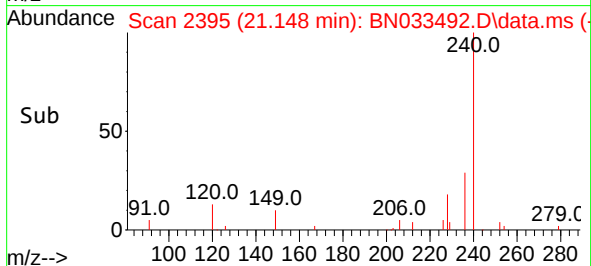
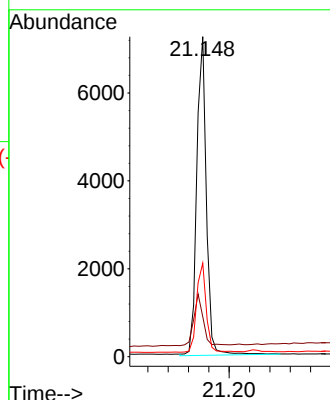
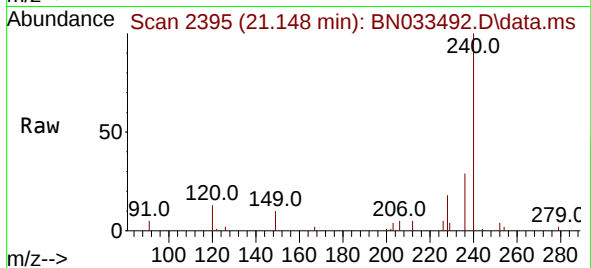
Tgt Ion:240 Resp: 9514

Ion Ratio Lower Upper

240 100

120 12.5 12.4 18.6

236 29.3 23.0 34.6



#30

Pyrene

Concen: 0.367 ng

RT: 19.374 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

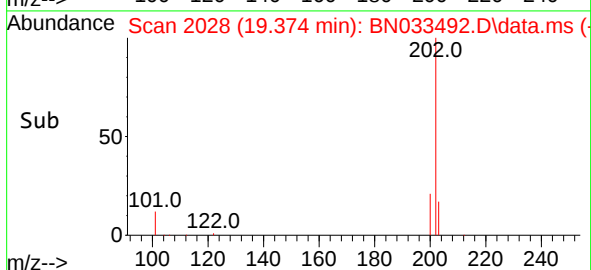
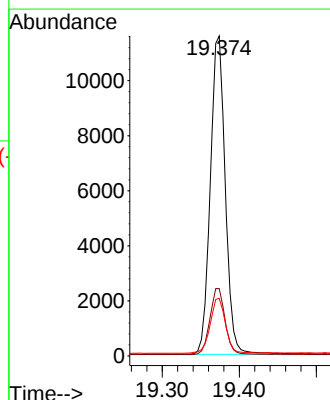
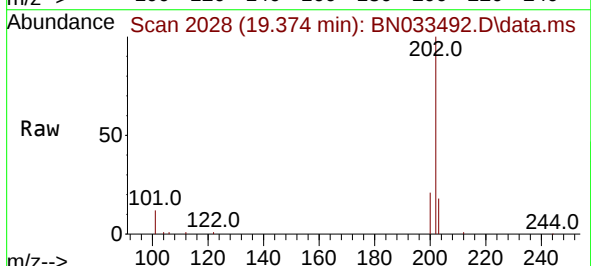
Tgt Ion:202 Resp: 15586

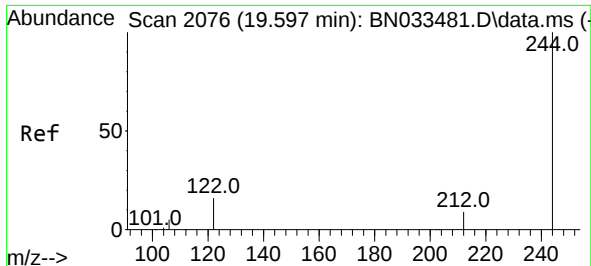
Ion Ratio Lower Upper

202 100

200 21.0 16.6 24.8

203 17.7 14.2 21.4

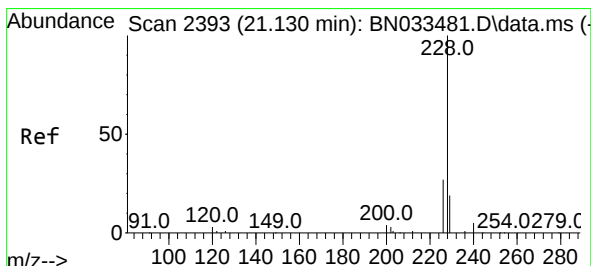
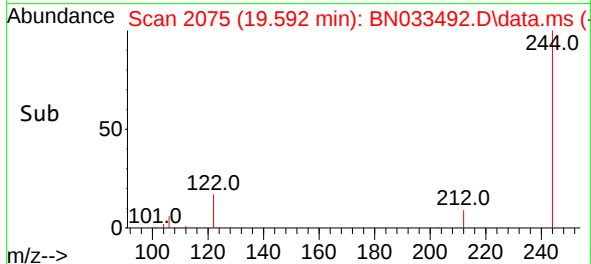
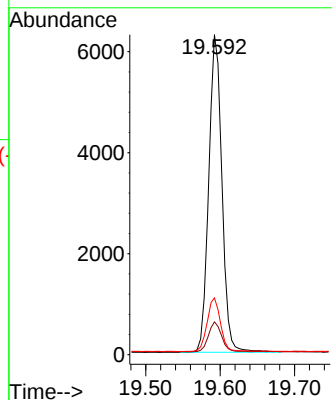
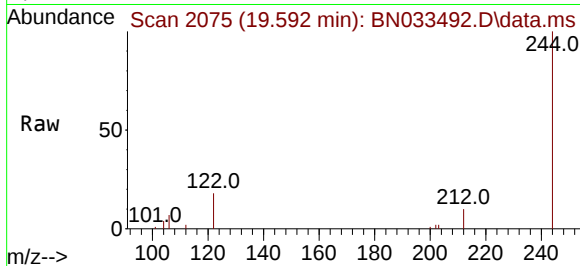




#31
 Terphenyl-d14
 Concen: 0.358 ng
 RT: 19.592 min Scan# 2075
 Delta R.T. -0.005 min
 Lab File: BN033492.D
 Acq: 20 Aug 2024 06:32

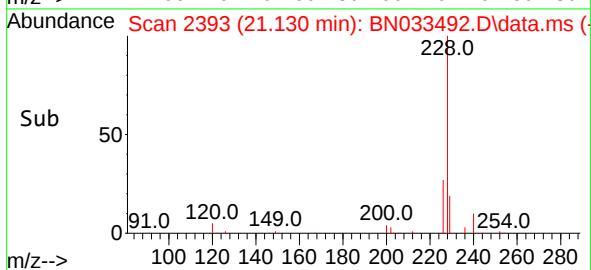
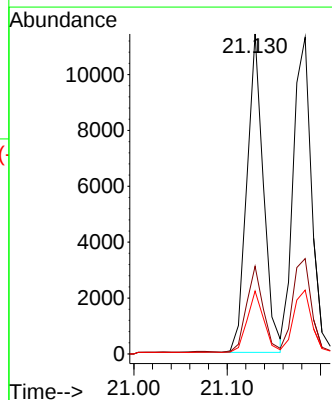
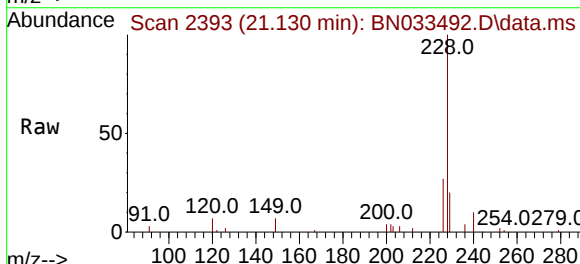
Instrument :
 BNA_N
 ClientSampleId :
 PB162821BSD

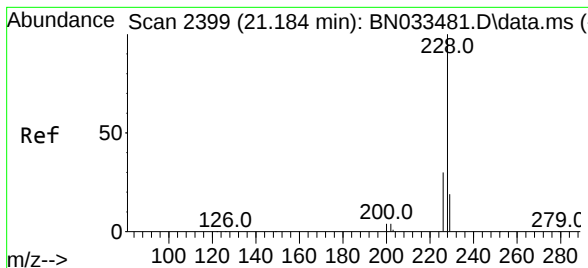
Tgt Ion:244 Resp: 7747
 Ion Ratio Lower Upper
 244 100
 212 10.3 7.8 11.6
 122 17.8 13.3 19.9



#32
 Benzo(a)anthracene
 Concen: 0.410 ng
 RT: 21.130 min Scan# 2393
 Delta R.T. -0.000 min
 Lab File: BN033492.D
 Acq: 20 Aug 2024 06:32

Tgt Ion:228 Resp: 14101
 Ion Ratio Lower Upper
 228 100
 226 27.4 21.8 32.6
 229 19.6 15.8 23.6





#33

Chrysene

Concen: 0.443 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

Instrument :

BNA_N

ClientSampleId :

PB162821BSD

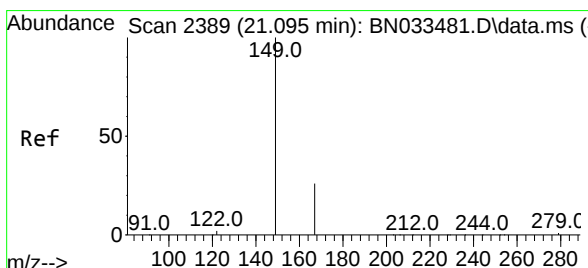
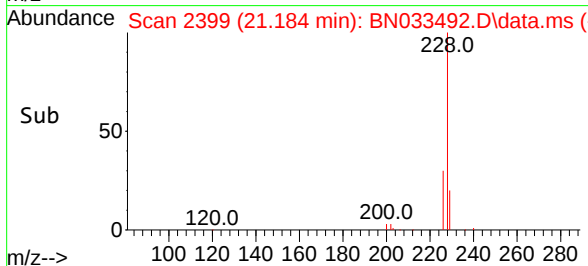
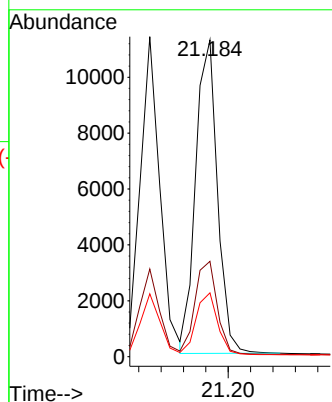
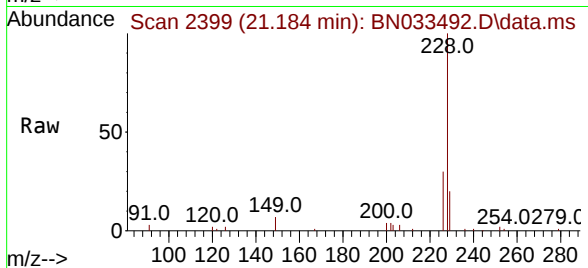
Tgt Ion:228 Resp: 15156

Ion Ratio Lower Upper

228 100

226 30.1 23.8 35.8

229 20.2 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.301 ng

RT: 21.094 min Scan# 2389

Delta R.T. -0.000 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

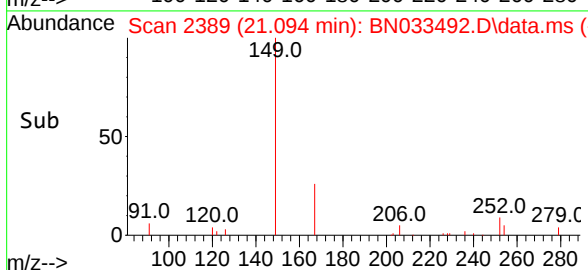
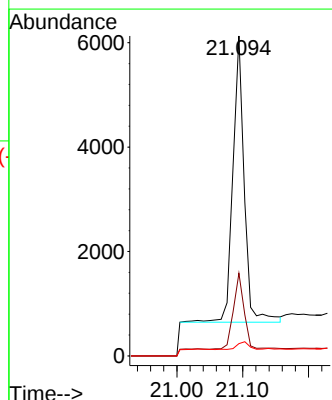
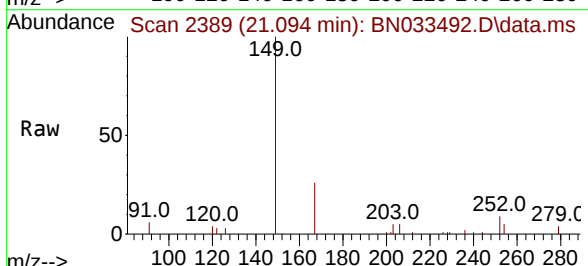
Tgt Ion:149 Resp: 6560

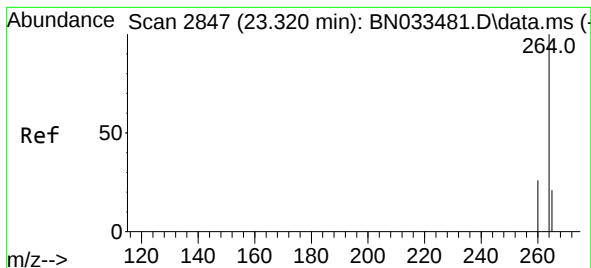
Ion Ratio Lower Upper

149 100

167 25.3 21.5 32.3

279 2.6 2.2 3.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.314 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

Instrument :

BNA_N

ClientSampleId :

PB162821BSD

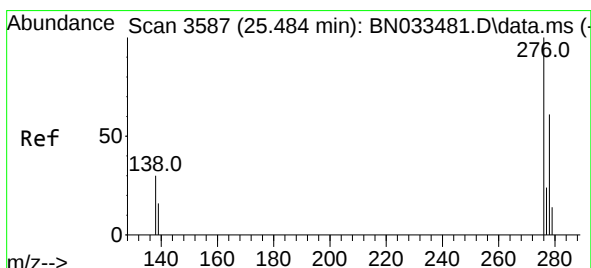
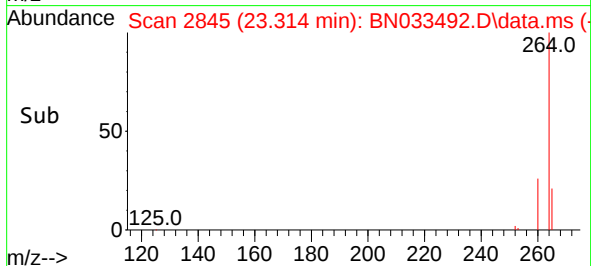
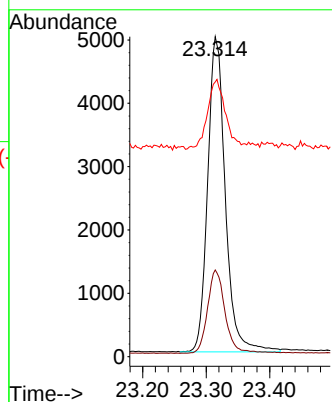
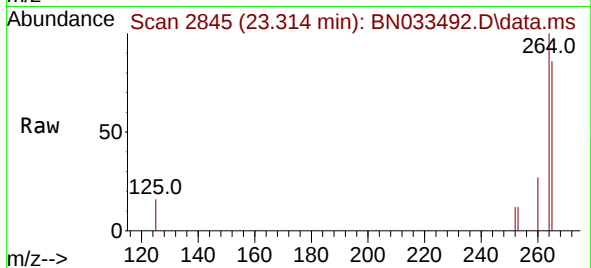
Tgt Ion:264 Resp: 9586

Ion Ratio Lower Upper

264 100

260 27.1 20.8 31.2

265 85.9 52.2 78.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.501 ng

RT: 25.469 min Scan# 3582

Delta R.T. -0.015 min

Lab File: BN033492.D

Acq: 20 Aug 2024 06:32

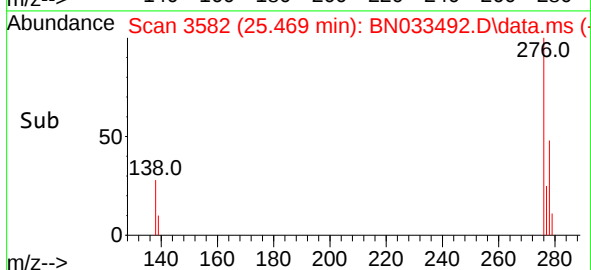
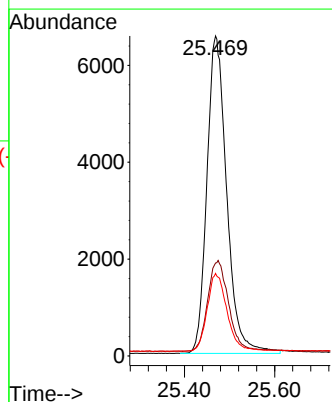
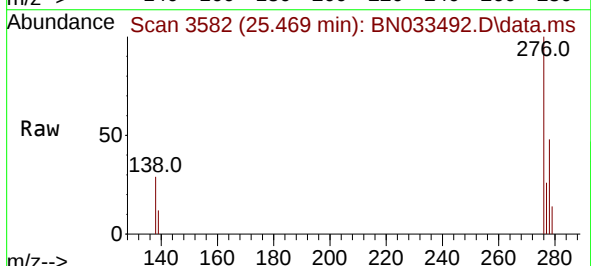
Tgt Ion:276 Resp: 19952

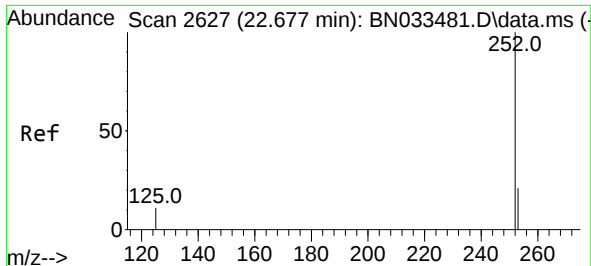
Ion Ratio Lower Upper

276 100

138 30.4 24.4 36.6

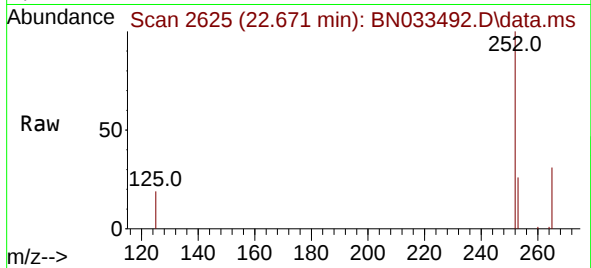
277 24.6 19.8 29.6



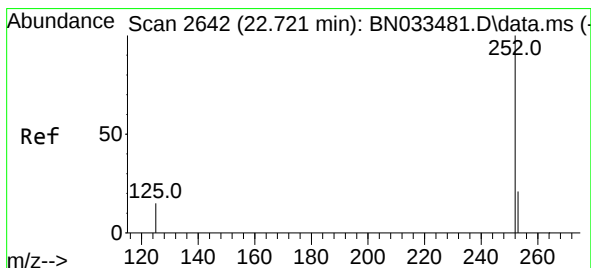
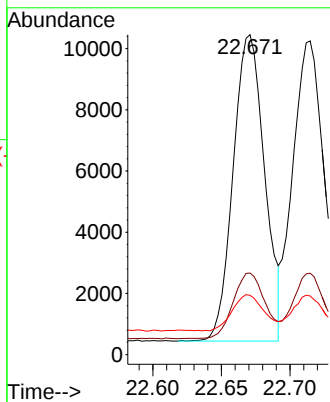
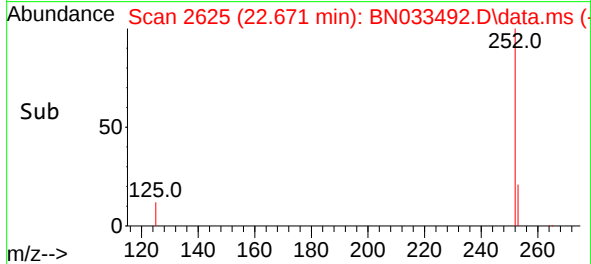


#37
Benzo(b)fluoranthene
Concen: 0.445 ng
RT: 22.671 min Scan# 2625
Delta R.T. -0.006 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Instrument :
BNA_N
ClientSampleId :
PB162821BSD

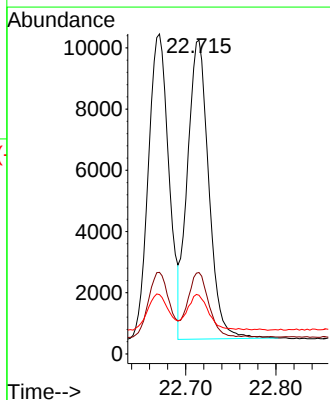
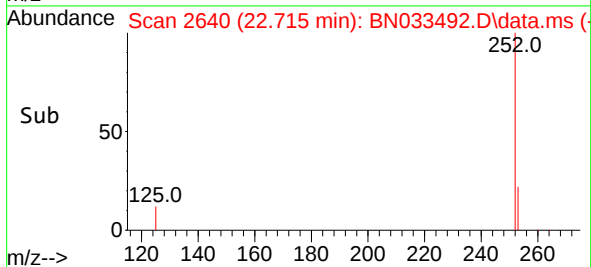
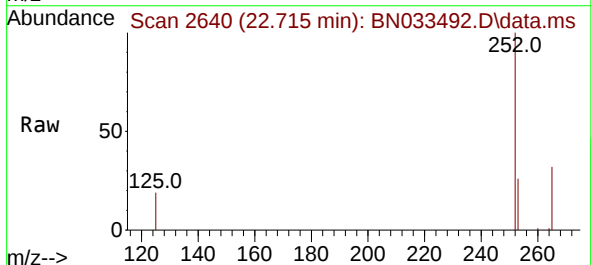


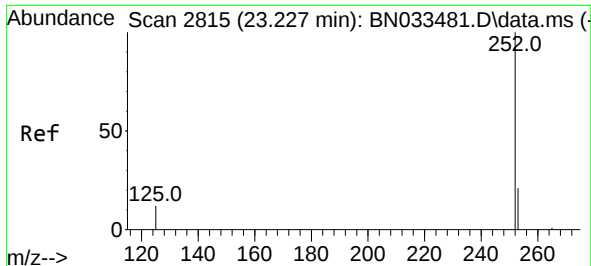
Tgt Ion:252 Resp: 15930
Ion Ratio Lower Upper
252 100
253 25.5 19.8 29.8
125 18.5 13.9 20.9



#38
Benzo(k)fluoranthene
Concen: 0.455 ng
RT: 22.715 min Scan# 2640
Delta R.T. -0.006 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

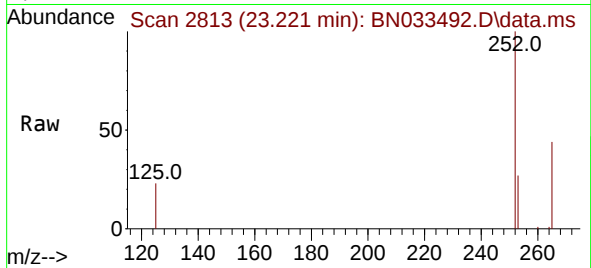
Tgt Ion:252 Resp: 16015
Ion Ratio Lower Upper
252 100
253 25.9 19.8 29.8
125 18.7 15.8 23.8



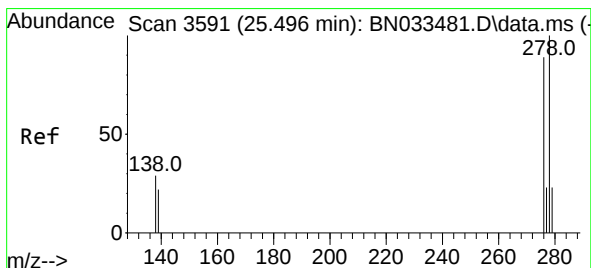
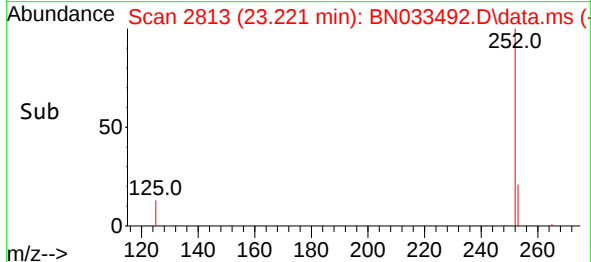
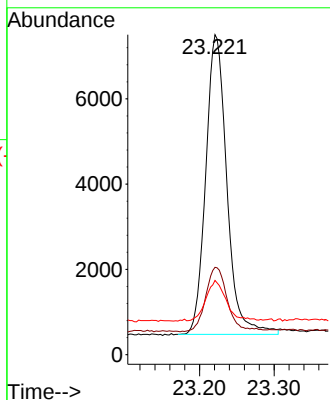


#39
Benzo(a)pyrene
Concen: 0.467 ng
RT: 23.221 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Instrument :
BNA_N
ClientSampleId :
PB162821BSD

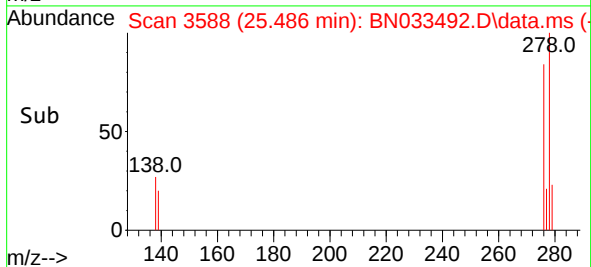
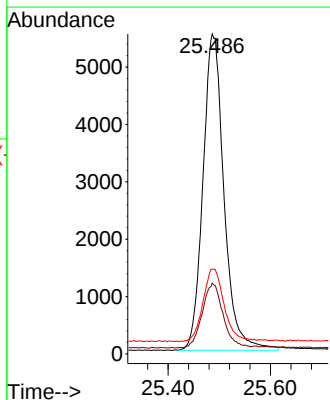
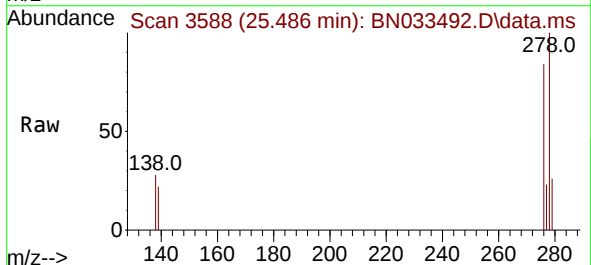


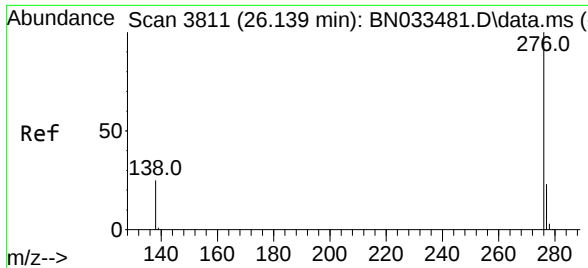
Tgt Ion:252 Resp: 13846
Ion Ratio Lower Upper
252 100
253 27.3 21.5 32.3
125 23.2 17.0 25.4



#40
Dibenzo(a,h)anthracene
Concen: 0.495 ng
RT: 25.486 min Scan# 3588
Delta R.T. -0.009 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Tgt Ion:278 Resp: 15753
Ion Ratio Lower Upper
278 100
139 22.2 19.1 28.7
279 26.5 21.0 31.4

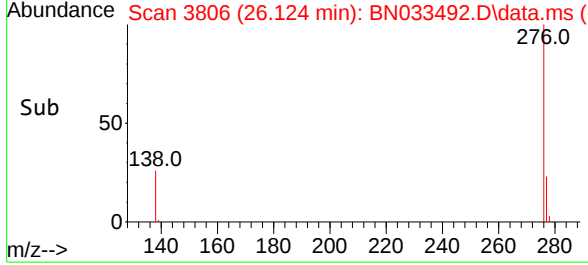
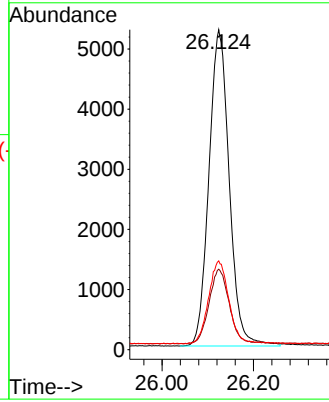
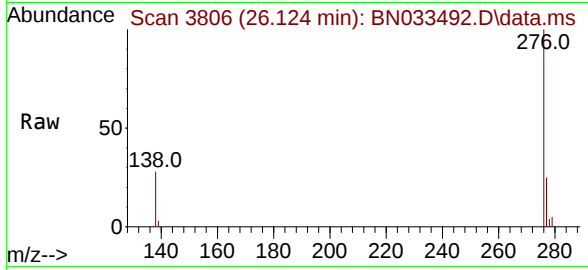




#41
Benzo(g,h,i)perylene
Concen: 0.477 ng
RT: 26.124 min Scan# 3806
Delta R.T. -0.015 min
Lab File: BN033492.D
Acq: 20 Aug 2024 06:32

Instrument :
BNA_N
ClientSampleId :
PB162821BSD

Tgt Ion:276 Resp: 16230
Ion Ratio Lower Upper
276 100
277 25.1 19.7 29.5
138 27.8 21.8 32.6



Manual Integration Report

Sequence:

BN081924

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN033480.D	Benzo(k)fluoranthene	yogesh	8/21/2024 1:29:07 AM	mohammad	8/22/2024 7:51:24 AM	Peak Integrated by Software incorrectly
P3657-01	BN033501.D	Fluorene	yogesh	8/21/2024 1:29:10 AM	mohammad	8/22/2024 7:51:24 AM	Peak Integrated by Software incorrectly

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN081024
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN033476.D	19 Aug 2024 09:29	MA/JU	Ok
2	SSTDCCC0.4	BN033477.D	19 Aug 2024 10:09	MA/JU	Not Ok
3	DFTPP	BN033478.D	19 Aug 2024 15:37	MA/JU	Ok
4	SSTDICC0.1	BN033479.D	19 Aug 2024 16:16	MA/JU	Ok
5	SSTDICC0.2	BN033480.D	19 Aug 2024 16:52	MA/JU	Ok,M
6	SSTDICCC0.4	BN033481.D	19 Aug 2024 17:28	MA/JU	Ok
7	SSTDICC0.8	BN033482.D	19 Aug 2024 18:05	MA/JU	Ok
8	SSTDICC1.6	BN033483.D	19 Aug 2024 18:41	MA/JU	Ok
9	SSTDICC3.2	BN033484.D	19 Aug 2024 19:17	MA/JU	Ok
10	SSTDICC5.0	BN033485.D	19 Aug 2024 19:53	MA/JU	Ok
11	SSTDICV0.4	BN033486.D	20 Aug 2024 01:56	MA/JU	Ok
12	PB162787BL	BN033487.D	20 Aug 2024 02:49	MA/JU	Not Ok
13	DFTPP	BN033488.D	20 Aug 2024 04:04	MA/JU	Ok
14	SSTDCCC0.4	BN033489.D	20 Aug 2024 04:44	MA/JU	Ok
15	PB162821BL	BN033490.D	20 Aug 2024 05:20	MA/JU	Ok
16	PB162821BS	BN033491.D	20 Aug 2024 05:56	MA/JU	Ok
17	PB162821BSD	BN033492.D	20 Aug 2024 06:32	MA/JU	Ok
18	PB162787BS	BN033493.D	20 Aug 2024 07:08	MA/JU	Ok
19	PB162787BSD	BN033494.D	20 Aug 2024 07:44	MA/JU	Ok
20	P3650-01	BN033495.D	20 Aug 2024 08:21	MA/JU	Dilution
21	P3650-02	BN033496.D	20 Aug 2024 08:59	MA/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN081024
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P3646-01	BN033497.D	20 Aug 2024 09:46	MA/JU	Ok
23	P3650-03	BN033498.D	20 Aug 2024 10:22	MA/JU	Ok
24	P3650-04	BN033499.D	20 Aug 2024 10:58	MA/JU	Ok
25	P3651-01	BN033500.D	20 Aug 2024 11:35	MA/JU	Ok
26	P3657-01	BN033501.D	20 Aug 2024 12:11	MA/JU	Ok,M
27	P3580-04RE	BN033502.D	20 Aug 2024 12:47	MA/JU	Confirms
28	P3580-01DL	BN033503.D	20 Aug 2024 13:23	MA/JU	Ok,M
29	SP6605	BN033504.D	20 Aug 2024 13:59	MA/JU	Ok
30	SSTDCCC0.4	BN033505.D	20 Aug 2024 14:36	MA/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_HP Processing Method BN081024
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN033476.D	19 Aug 2024 09:29		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033477.D	19 Aug 2024 10:09	A Fresh Calibration is required.	MA/JU	Not Ok
3	DFTPP	DFTPP	BN033478.D	19 Aug 2024 15:37		MA/JU	Ok
4	SSTDICC0.1	SSTDICC0.1	BN033479.D	19 Aug 2024 16:16		MA/JU	Ok
5	SSTDICC0.2	SSTDICC0.2	BN033480.D	19 Aug 2024 16:52		MA/JU	Ok,M
6	SSTDICCC0.4	SSTDICCC0.4	BN033481.D	19 Aug 2024 17:28	The Calibration is Good For 8270 Sim DOD except Com#5,14	MA/JU	Ok
7	SSTDICC0.8	SSTDICC0.8	BN033482.D	19 Aug 2024 18:05		MA/JU	Ok
8	SSTDICC1.6	SSTDICC1.6	BN033483.D	19 Aug 2024 18:41		MA/JU	Ok
9	SSTDICC3.2	SSTDICC3.2	BN033484.D	19 Aug 2024 19:17		MA/JU	Ok
10	SSTDICC5.0	SSTDICC5.0	BN033485.D	19 Aug 2024 19:53		MA/JU	Ok
11	SSTDICV0.4	ICVBN081924	BN033486.D	20 Aug 2024 01:56	Com#5,14 failed in ICV for 8270 Sim DOD	MA/JU	Ok
12	PB162787BL	PB162787BL	BN033487.D	20 Aug 2024 02:49	Analyzed for contamination check	MA/JU	Not Ok
13	DFTPP	DFTPP	BN033488.D	20 Aug 2024 04:04		MA/JU	Ok
14	SSTDCCC0.4	SSTDCCC0.4	BN033489.D	20 Aug 2024 04:44		MA/JU	Ok
15	PB162821BL	PB162821BL	BN033490.D	20 Aug 2024 05:20		MA/JU	Ok
16	PB162821BS	PB162821BS	BN033491.D	20 Aug 2024 05:56		MA/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081924

Review By	yogesh	Review On	8/21/2024 1:29:22 AM
Supervise By	mohammad	Supervise On	8/22/2024 7:51:24 AM
SubDirectory	BN081924	HP Acquire Method	BNA_N, 8270_HP Processing Method BN081024
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

17	PB162821BSD	PB162821BSD	BN033492.D	20 Aug 2024 06:32		MA/JU	Ok
18	PB162787BS	PB162787BS	BN033493.D	20 Aug 2024 07:08		MA/JU	Ok
19	PB162787BSD	PB162787BSD	BN033494.D	20 Aug 2024 07:44		MA/JU	Ok
20	P3650-01	RW7-SP100-20240814	BN033495.D	20 Aug 2024 08:21	Need 2X Dilution	MA/JU	Dilution
21	P3650-02	RW7-SP201-20240814	BN033496.D	20 Aug 2024 08:59		MA/JU	Ok
22	P3646-01	914-J-WPO-0.25-08152	BN033497.D	20 Aug 2024 09:46		MA/JU	Ok
23	P3650-03	RW7-SP302-20240814	BN033498.D	20 Aug 2024 10:22		MA/JU	Ok
24	P3650-04	RW7-SP303-20240814	BN033499.D	20 Aug 2024 10:58		MA/JU	Ok
25	P3651-01	RW7-SP201-20240815	BN033500.D	20 Aug 2024 11:35		MA/JU	Ok
26	P3657-01	917-J-WS-081624	BN033501.D	20 Aug 2024 12:11		MA/JU	Ok,M
27	P3580-04RE	925-KI-SD-0.5-1-08122	BN033502.D	20 Aug 2024 12:47	Surrogate Fail	MA/JU	Confirms
28	P3580-01DL	926-KI-SD-0-0.5-08122	BN033503.D	20 Aug 2024 13:23		MA/JU	Ok,M
29	SP6605	SP6605	BN033504.D	20 Aug 2024 13:59	SP6605-8270-SIM Surrogate	MA/JU	Ok
30	SSTDCCC0.4	SSTDCCC0.4EC	BN033505.D	20 Aug 2024 14:36		MA/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 08/19/2024

Matrix : Water **Extraction Start Time :** 09:50

Welgh By: N/A **Extraction By:** RS **Extraction End Date :** 08/19/2024

Balance check: N/A **Filter By:** RP **Extraction End Time :** 14:45

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** RS

pH Strip Lot#: E3574 **Hood ID:** 4,5,6,7 **Supervisor By :** rajesh

Extraction Method: ☒ Separatory Funne ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standarded Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6572
Surrogate	1.0ML	0.4 PPM	SP6586
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	E3787
Baked Na2SO4	N/A	EP2521
H2SO4 1:1	N/A	EP2524
10N NaoH	N/A	EP2523
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:

pH Adjusted to < 2 with 1:1 H2SO4 and > 11 with 10N NaoH, 1.5ML Vial Lot # 2210673.

KD Bath ID: WATER BATH-1 **Envap ID:** NE VAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/19/24	RP (Ext. 144)	RG/SVC
14:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 08/19/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol.(mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB162821BL	SBLK821	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1			SEP-1
PB162821BS	SLCS821	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1			2
PB162821BS D	SLCSD821	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1			3
P3650-01	RW7-SP100-20240814	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1	C		4
P3650-02	RW7-SP201-20240814	SVOC-SIMGro up1	980	6	RUPESH	rajesh	1			5
P3650-03	RW7-SP302-20240814	SVOC-SIMGro up1	990	6	RUPESH	rajesh	1			6
P3650-04	RW7-SP303-20240814	SVOC-SIMGro up1	1000	6	RUPESH	rajesh	1	C		7
P3651-01	RW7-SP201-20240815	SVOC-SIMGro up1	970	6	RUPESH	rajesh	1			8
P3657-01	917-J-WS-081624	SVOCMS Group3	960	6	RUPESH	rajesh	1	F		9

* Extracts relinquished on the same date as received.

2
8/19/24

WORKLIST(Hardcopy Internal Chain)

Date : 08-19-2024 09:37:29

Kf 821057

Prep Standard - Chemical Standard Summary

Order ID : P3657

Test : SVOCMS Group3

Prepbatch ID : PB162821,

Sequence ID/Qc Batch ID: BN081924,

Standard ID :

EP2521,EP2523,EP2524,SP6527,SP6547,SP6548,SP6572,SP6573,SP6586,SP6596,SP6597,SP6598,SP6599,SP6600,S
P6601,SP6602,SP6603,

Chemical ID :

E3551,E3657,E3746,E3759,E3768,E3769,E3772,E3786,E3787,M5037,S10103,S10247,S10782,S10977,S 11003,S11012,S
11097,S11494,S11566,S11766,S11767,S12029,S12077,S12096,S12097,S12112,S12113,S12117,S12118,W3112,



<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	EP2521	08/10/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2	None	RUPESHKUMAR SHAH 08/10/2024
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram (EX-SC-2)								

<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	EP2523	08/14/2024	02/14/2025	Rajesh Parikh	Extraction_SC ALE_2	None	RUPESHKUMAR SHAH 08/14/2024
<u>FROM</u>	1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml (EX-SC-2)							

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>
314	1.1 H2SO4 SOLN	EP2524	08/14/2024	12/15/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 08/14/2024

FROM 1000.00000ml of M5037 + 1000.00000ml of W3112 = Final Quantity: 2000.000 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>
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



<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	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024
<u>FROM</u>	SOURCE 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml							

<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	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024
<u>FROM</u> SOURCE 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = 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>
3492	8270-SIM-Spike 0.4 PPM	SP6572	07/12/2024	10/26/2024	Rahul Chavli	None	None	Yogesh Patel 07/30/2024
<u>FROM</u>	0.00080ml of S11012 + 0.01000ml of S11767 + 0.02000ml of S11566 + 0.02000ml of S12097 + 0.02000ml of S12118 + 49.92920ml of E3769 = Final Quantity: 50.000 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>
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel 07/17/2024
<u>FROM</u>	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>
3491	8270-SIM-Surrogate 0.4 PPM	SP6586	08/02/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/14/2024
<u>FROM</u> 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3772 = Final Quantity: 100.000 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)	SP6596	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024
<u>FROM</u>	0.02500ml of S12113 + 0.03350ml of S10103 + 0.05000ml of S11494 + 0.10000ml of S12112 + 0.12500ml of S10782 + 0.25000ml of S11097 + 0.25000ml of S12077 + 24.16650ml of E3786 = Final Quantity: 25.000 ml							

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	SP6597	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6596 = Final Quantity: 1.010 ml

<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	SP6598	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.68000ml of E3786 + 0.01000ml of SP6527 + 0.32000ml of SP6596 = Final Quantity: 1.010 ml

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	SP6599	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.84000ml of E3786 + 0.01000ml of SP6527 + 0.16000ml of SP6596 = Final Quantity: 1.010 ml

<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	SP6600	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.92000ml of E3786 + 0.01000ml of SP6527 + 0.08000ml of SP6596 = Final Quantity: 1.010 ml

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	SP6601	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.96000ml of E3786 + 0.01000ml of SP6527 + 0.04000ml of SP6596 = Final Quantity: 1.010 ml

<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	SP6602	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6601 = Final Quantity: 1.010 ml

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	SP6603	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.75000ml of E3786 + 0.01000ml of SP6527 + 0.25000ml of SP6601 = Final Quantity: 1.010 ml

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)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	01/12/2025	07/12/2024 / Rajesh	07/02/2024 / Rajesh	E3769

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	22L2862006	02/01/2025	08/01/2024 / Rajesh	07/19/2024 / Rajesh	E3772

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

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)	24G0862022	02/13/2025	08/13/2024 / Rajesh	08/07/2024 / Rajesh	E3787

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)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ampul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	10/26/2024	04/26/2024 / Rahul	01/13/2023 / Christian	S11012

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	01/12/2025	07/12/2024 / Rahul	11/21/2023 / Rahul	S11767

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	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	01/09/2025	07/09/2024 / Jagrut	02/05/2024 / Rahul	S12097

[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	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/10/2025 / Jagrut	03/15/2024 / Rahul	S12118

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.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 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

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



5580 Skylane Blvd
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Receivalon
02/07/23 by CG

Sheet S11096
to
S11099

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

Brianna Smith

Certified By: _____

Brianna 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

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
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
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Fax: (814)353-1309

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Certificate of Analysis



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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
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 Gravimetric +/- 45.7132 µg/mL Unstressed +/- 66.0037 µg/mL Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL Gravimetric +/- 45.8508 µg/mL Unstressed +/- 66.2023 µg/mL Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL Gravimetric +/- 45.9318 µg/mL Unstressed +/- 66.3193 µg/mL Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL Gravimetric +/- 45.8954 µg/mL Unstressed +/- 66.2667 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

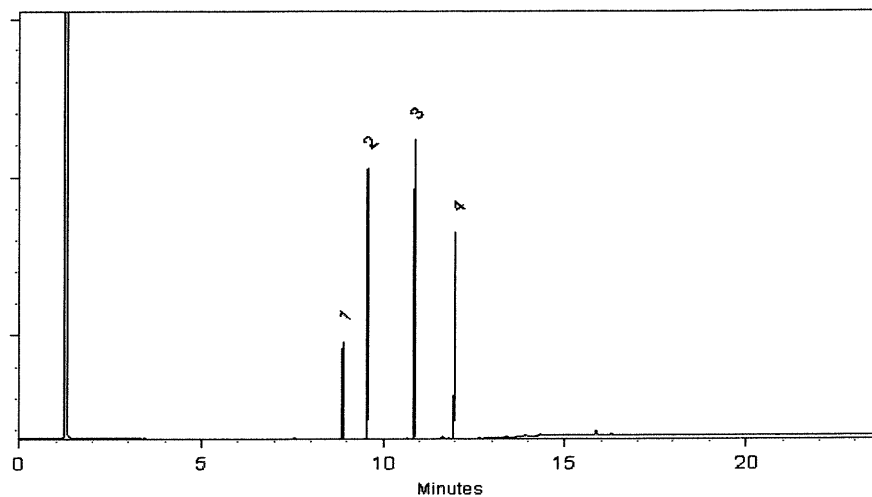
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
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Certificate of Analysis



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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. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

Received on
09/07/22
by
CG
S10778
to
S10782

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylnaphthalene-d10 CAS # 7297-45-2 (Lot EF-135) Purity 96%	2,015.0 µg/mL	+/- 11.8254 µg/mL Gravimetric +/- 90.7728 µg/mL Unstressed +/- 100.7207 µg/mL Stressed
2	Fluoranthene-d10 CAS # 93951-69-0 (Lot PR-20668) Purity 99%	2,007.0 µg/mL	+/- 11.7782 µg/mL Gravimetric +/- 90.4107 µg/mL Unstressed +/- 100.3188 µg/mL Stressed
Solvent:	Methylene chloride CAS # 75-09-2 Purity 99%		

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

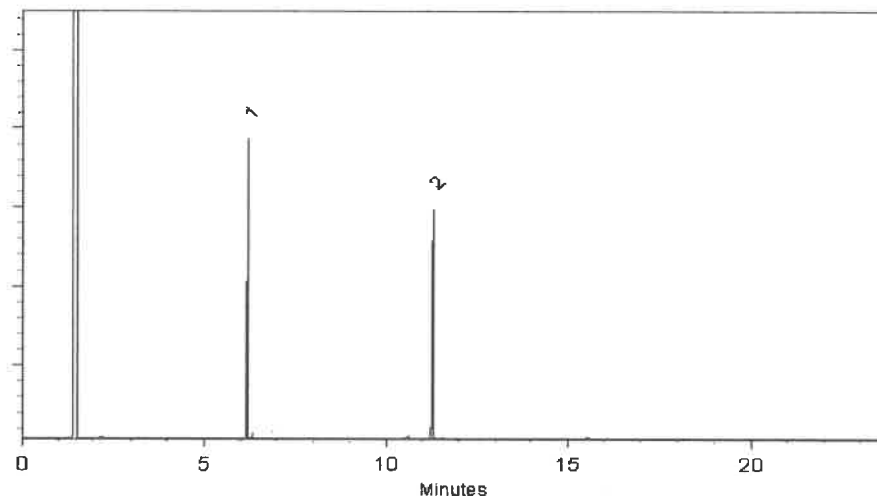
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022

Balance: B442140311

Martina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

Received by
CG on
12/28/22
S10951
FO
S10980

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

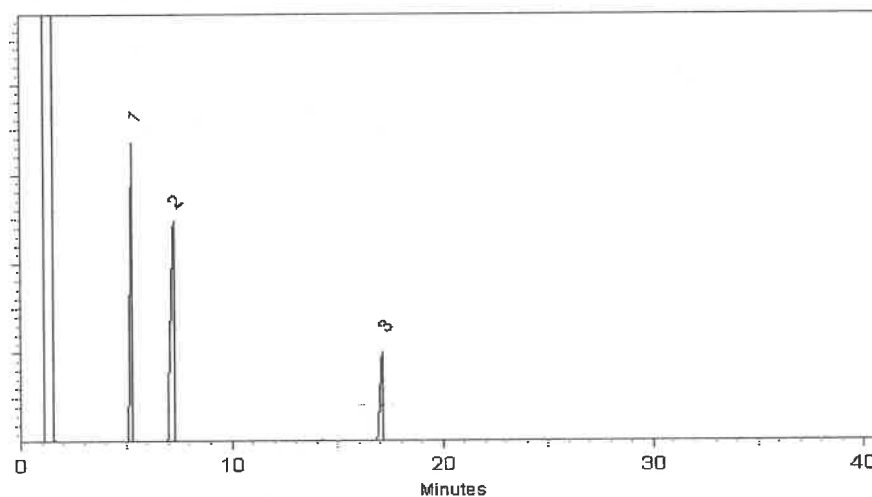
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022

Balance: 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

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Certificate #FM 80397



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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.

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

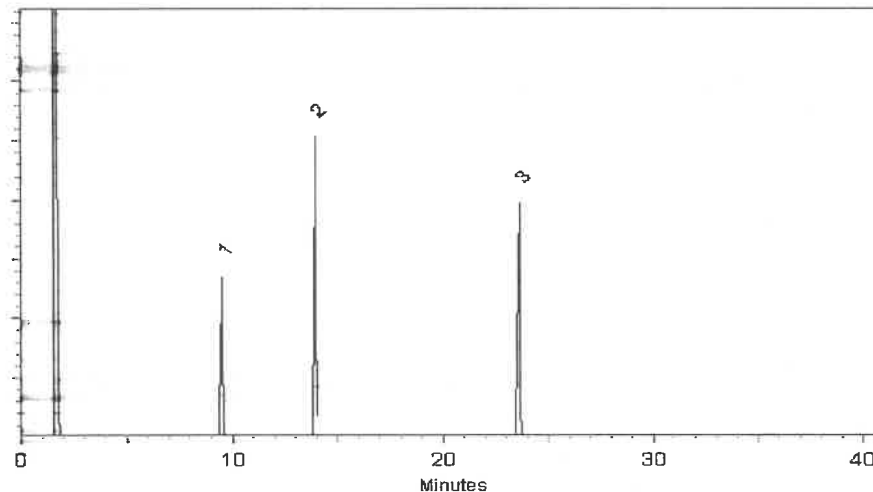
250°C

Det. Temp:

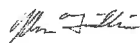
330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



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Certificate of Analysis

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.: 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.



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MONTERREY, N.L. MEXICO
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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.

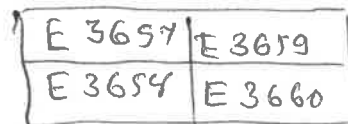
This document has been electronically produced and is valid without a signature.

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.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.2 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: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

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_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
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: MG24C16563

E 3759

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 7/21/24

E 3769

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 22L2862006
Manufactured Date: 2022-12-19
Expiration Date: 2025-12-18
Revision No.: 0

Certificate of Analysis

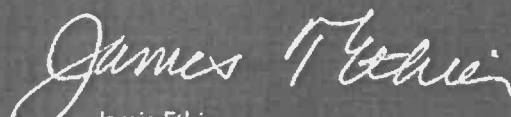
Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	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	4

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 7/19/24

E3772


Jamie Ethier
Vice President Global Quality

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	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: MG24D15750

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24G0862022
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	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl 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 (μ 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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F05012

E 3787

Jamie Croak
Director Quality Operations, Bioscience Production

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantorsm



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

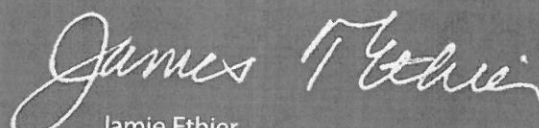
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

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

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ }
511498 } 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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.: A0201940
Description: Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size: 2 mL
Expiration Date: September 30, 2025
Handling: This product is photosensitive.
Pkg Amt: > 1 mL
Storage: 10°C or colder
Ship: Ambient

511539
↓
51568
} 7.P.
09/19/

CERTIFIED VALUES						
Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406
Solvent: Methylene chloride						
CAS # 75-09-2						
Purity 99%						

REVIEWED

By Jennifer Pollino at 7:10 am, Sep 13, 2023

Sam Moodler - Operations Tech I

Date Mixed: 13-Sep-2023

Balance: B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

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:

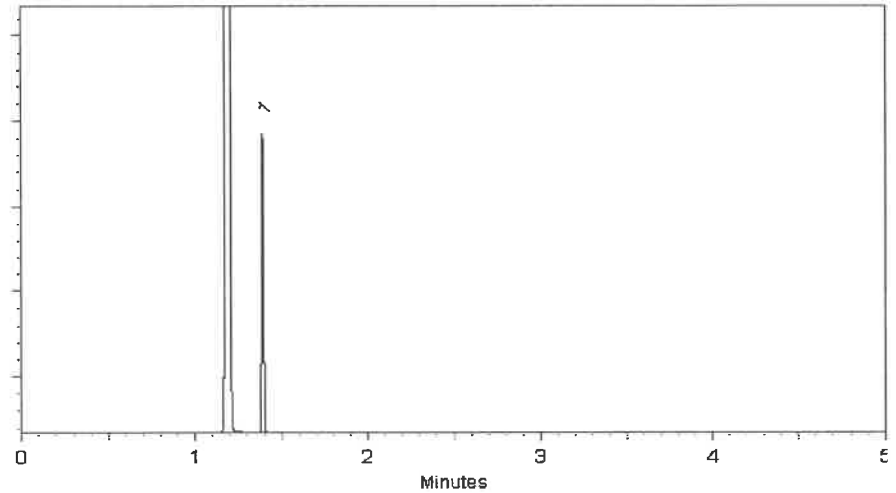
FID

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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:

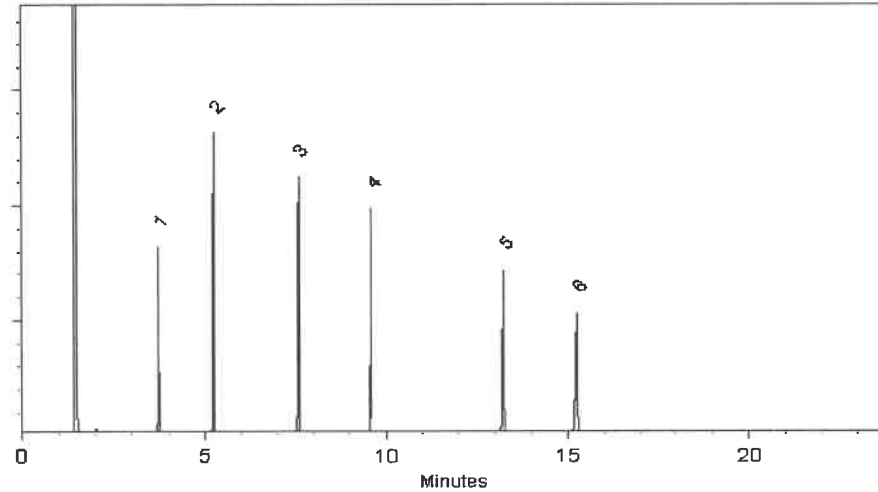
FID

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
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.:	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

912075 } RC
↓
912079 } 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.



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. : 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



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.:	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
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.



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. : 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
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	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%



SHIPPING DOCUMENTS



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

P3657

QUOTE NO.

COC Number 2041316

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kable Ave Suite H100
CITY: Morrisbrown STATE: NJ ZIP: 07960
ATTENTION: John Yufante
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3779922 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

VOCs 8260D
SVOCs 8260E
PAHs 8270E
Metals 6020B, Hg
Cr 6010D, Pb 6010A
Cu 6010D, Zn 6010A

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES				COMMENTS			
			COMP	GRAB	DATE	TIME		A/E	F	B/E	E	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER			
1.	717-J-WS-081624	WS		X	8-16-24	0930	8	2	4	1	1				
2.	TB-01-081624	DI		X	8-16-24	1055	1	1							TB is unpreserved!
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>8-16-24 1245</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP <u>2.9</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments: <u>See attached table for his required analytes list</u>
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☒ Picked Up ☐ Field Sampling

Shipment Complete
☒ YES ☐ NO

Table 3. Surface Water Target Analytes, Methods, Action Levels, and Control Limits
Site Sampling Plan for Ecological Evaluation
Princeton Technology Center, West Windsor Township, New Jersey

Method	Analyte	CAS Number	Units	Higher of PQL and Ground Water Quality Criterion ^a	Fresh Surface Water Chronic NJDEP Ecological Criterion ^b
ECO-SVOCs					
SW8270E	1,4-Dioxane	123-91-1	µg/L	0.4	--
SW8270E	1-Methylnaphthalene	90-12-0	µg/L	--	
SW8270E	2,4,5-Trichlorophenol	95-95-4	µg/L	700	
SW8270E	2,4,6-Trichlorophenol	88-06-2	µg/L	20	
SW8270E	2,4-Dinitrotoluene	121-14-2	µg/L	10	
SW8270E	2-Methylnaphthalene	91-57-6	µg/L	30	
SW8270E	2-Methylphenol	95-48-7	µg/L	--	
SW8270E	3 & 4-Methylphenol (m,p-Cresols)	65794-96-9	µg/L	--	
SW8270E	Acenaphthene	83-32-9	µg/L	400	
SW8270E	Acenaphthylene	208-96-8	µg/L	--	
SW8270E	Anthracene	120-12-7	µg/L	2000	
SW8270E	Benzaldehyde	100-52-7	µg/L	--	
SW8270E	Benzo(a)anthracene	56-55-3	µg/L	--	
SW8270E	Benzo(a)pyrene	50-32-8	µg/L	0.1	
SW8270E	Benzo(b)fluoranthene	205-99-2	µg/L	0.5	
SW8270E	Benzo(g,h,i)perylene	191-24-2	µg/L	--	
SW8270E	Benzo(k)fluoranthene	207-08-9	µg/L	0.5	
SW8270E	Bis (2-ethylhexyl) phthalate	117-81-7	µg/L	--	
SW8270E	Carbazole	86-74-8	µg/L	--	
SW8270E	Chrysene	218-01-9	µg/L	5	
SW8270E	Dibenzo(a,h)anthracene	53-70-3	µg/L	0.3	
SW8270E	Dibenzofuran	132-64-9	µg/L	--	
SW8270E	Di-N-Butylphthalate	84-74-2	µg/L	--	
SW8270E	Fluoranthene	206-44-0	µg/L	300	
SW8270E	Fluorene	86-73-7	µg/L	300	
SW8270E	Hexachlorobenzene	118-74-1	µg/L	0.02	
SW8270E	Hexachlorobutadiene	87-68-3	µg/L	1	
SW8270E	Hexachloroethane	67-72-1	µg/L	7	
SW8270E	Indeno(1,2,3-Cd)Pyrene	193-39-5	µg/L	0.2	
SW8270E	Naphthalene	91-20-3	µg/L	300	
SW8270E	Nitrobenzene	98-95-3	µg/L	6	
SW8270E	Pentachlorophenol	87-86-5	µg/L	0.3	
SW8270E	Phenanthrene	85-01-8	µg/L	--	
SW8270E	Pyrene	129-00-0	µg/L	200	
SW8270E	Pyridine	110-86-1	µg/L	--	
ECO-VOCs					
SW8260D	1,1,1-Trichloroethane	71-55-6	µg/L	30	76

Table 3. Surface Water Target Analytes, Methods, Action Levels, and Control Limits
Site Sampling Plan for Ecological Evaluation
Princeton Technology Center, West Windsor Township, New Jersey

Method	Analyte	CAS Number	Units	Higher of PQL and Ground Water Quality Criterion ^a	Fresh Surface Water Chronic NJDEP Ecological Criterion ^b
SW8260D	1,1,2-Trichloroethane	79-00-5	µg/L	3	500
SW8260D	1,1-Dichloroethane	75-34-3	µg/L	50	--
SW8260D	1,1-Dichloroethene	75-35-4	µg/L	1	65
SW8260D	1,2-Dichlorobenzene	95-50-1	µg/L	600	14
SW8260D	1,2-Dichloroethane	107-06-2	µg/L	2	910
SW8260D	1,2-Dichloroethene (Total)	540-59-0	µg/L		
SW8260D	1,4-Dichlorobenzene	106-46-7	µg/L	75	9.4
SW8260D	2-Butanone	78-93-3	µg/L	300	--
SW8260D	Acetone	67-64-1	µg/L	6000	--
SW8260D	Benzene	71-43-2	µg/L	1	114
SW8260D	Bromodichloromethane	75-27-4	µg/L	1	--
SW8260D	Bromomethane	74-83-9	µg/L	10	--
SW8260D	Carbon disulfide	75-15-0	µg/L	700	--
SW8260D	Carbon tetrachloride	56-23-5	µg/L	1	240
SW8260D	Chlorobenzene	108-90-7	µg/L	50	47
SW8260D	Chloroethane	75-00-3	µg/L	--	--
SW8260D	Chloroform	67-66-3	µg/L	70	140
SW8260D	Chloromethane	74-87-3	µg/L	--	--
SW8260D	cis-1,2-Dichloroethene	156-59-2	µg/L	70	--
SW8260D	Cyclohexane	110-82-7	µg/L	--	--
SW8260D	Dibromochloromethane	124-48-1	µg/L	1	--
SW8260D	Dichlorodifluoromethane	75-71-8	µg/L	1000	--
SW8260D	Ethylbenzene	100-41-4	µg/L	700	14
SW8260D	Freon TF	76-13-1	µg/L	20000	--
SW8260D	Isopropylbenzene	98-82-8	µg/L	700	--
SW8260D	m&p-Xylene	179601-23-1	µg/L	1000	27
SW8260D	Methylcyclohexane	108-87-2	µg/L	--	--
SW8260D	Methylene Chloride	75-09-2	µg/L	3	940
SW8260D	MTBE	1634-04-4	µg/L	70	51000
SW8260D	o-Xylene	95-47-6	µg/L	1000	27
SW8260D	Tetrachloroethene	127-18-4	µg/L	1	45
SW8260D	Toluene	108-88-3	µg/L	600	253
SW8260D	trans-1,2-Dichloroethene	156-60-5	µg/L	100	970
SW8260D	Trichloroethene	79-01-6	µg/L	1	47
SW8260D	Vinyl chloride	75-01-4	µg/L	1	930
SW8260D	Xylenes, Total	1330-20-7	µg/L		
ECO-PAHs					
SW8270E SIM	1,4-Dioxane	123-91-1	µg/L	0.4	--

Table 3. Surface Water Target Analytes, Methods, Action Levels, and Control Limits
 Site Sampling Plan for Ecological Evaluation
 Princeton Technology Center, West Windsor Township, New Jersey

Method	Analyte	CAS Number	Units	Higher of PQL and Ground Water Quality Criterion ^a	Fresh Surface Water Chronic NJDEP Ecological Criterion ^b
SW8270E SIM	2-Methylnaphthalene	91-57-6	µg/L	30	330
SW8270E SIM	Acenaphthene	83-32-9	µg/L	400	38
SW8270E SIM	Acenaphthylene	208-96-8	µg/L	--	4840
SW8270E SIM	Anthracene	120-12-7	µg/L	2000	0.035
SW8270E SIM	Benzo(a)anthracene	56-55-3	µg/L	0.1	0.025
SW8270E SIM	Benzo(a)pyrene	50-32-8	µg/L	0.1	0.014
SW8270E SIM	Benzo(b)fluoranthene	205-99-2	µg/L	0.2	9.07
SW8270E SIM	Benzo(g,h,i)perylene	191-24-2	µg/L	--	7.64
SW8270E SIM	Benzo(k)fluoranthene	207-08-9	µg/L	0.5	--
SW8270E SIM	Chrysene	218-01-9	µg/L	5	--
SW8270E SIM	Dibenz(a,h)anthracene	53-70-3	µg/L	0.3	--
SW8270E SIM	Fluoranthene	206-44-0	µg/L	300	1.9
SW8270E SIM	Fluorene	86-73-7	µg/L	300	19
SW8270E SIM	Indeno[1,2,3-cd]pyrene	193-39-5	µg/L	0.2	4.31
SW8270E SIM	Naphthalene	91-20-3	µg/L	300	13
SW8270E SIM	Phenanthrene	85-01-8	µg/L	--	3.6
SW8270E SIM	Pyrene	129-00-0	µg/L	200	0.3
ECO-Metals					
SW3060A/7196A	Hexavalent Chromium	18540-29-9	µg/L	--	10
SW7470A	Mercury	7439-97-6	µg/L	2	0.77
SW6020B	Aluminum	7429-90-5	µg/L	--	--
SW6020B	Antimony	7440-36-0	µg/L	6	80
SW6020B	Arsenic	7440-38-2	µg/L	3	150
SW6020B	Barium	7440-39-3	µg/L	6000	220
SW6020B	Beryllium	7440-41-7	µg/L	1	3.6
SW6020B	Cadmium	7440-43-9	µg/L	4	--
SW6020B	Calcium	7440-70-2	µg/L	--	--
SW6020B	Chromium	7440-47-3	µg/L	--	42
SW6020B	Cobalt	7440-48-4	µg/L	100	24
SW6020B	Copper	7440-50-8	µg/L	1300	--
SW6020B	Iron	7439-89-6	µg/L	--	--
SW6020B	Lead	7439-92-1	µg/L	5	5.4
SW6020B	Magnesium	7439-95-4	µg/L	--	--
SW6020B	Manganese	7439-96-5	µg/L	--	--
SW6020B	Nickel	7440-02-0	µg/L	100	--
SW6020B	Potassium	7440-09-7	µg/L	--	--
SW6020B	Selenium	7782-49-2	µg/L	40	5
EPA 200.7	Silica	7631-86-9	µg/L	--	--

Table 3. Surface Water Target Analytes, Methods, Action Levels, and Control Limits
 Site Sampling Plan for Ecological Evaluation
 Princeton Technology Center, West Windsor Township, New Jersey

Method	Analyte	CAS Number	Units	Higher of PQL and Ground Water Quality Criterion ^a	Fresh Surface Water Chronic NJDEP Ecological Criterion ^b
SW6020B	Silver	7440-22-4	µg/L	40	0.12
SW6020B	Sodium	7440-23-5	µg/L	--	--
SW6020B	Thallium	7440-28-0	µg/L	--	10
SW6020B	Vanadium	7440-62-2	µg/L	--	12
SW6020B	Zinc	7440-66-6	µg/L	2000	--

Notes:

^a New Jersey Department of Environmental Protection (NJDEP) Ground Water Quality Standards - Class IIA by Constituent. May 2021. New Jersey Administration Code 7:9C-1.4: Remediation Standards.

^b NJDEP Ground Water Quality Standards - Class IIA by Constituent. May 2021. New Jersey Administration Code 7:9C-1.4: Remediation Standards. NJDEP Ecological Surface Water SSLs. March 2009.

Bold = MDL and RL exceed screening criteria.

-- = not available (no standard)

µg/L = microgram(s) per liter

CAS = Chemical Abstracts Service

Freon TF = 1,1,2-Trichloro-1,2,2-trifluoroethane

MDL = method detection limit

MTBE = methyl tert butyl ether

NJDEP = New Jersey Department of Environmental Protection

PAH = polycyclic aromatic hydrocarbon

PQL = Practical Quantitation Level as defined in N.J.A.C. 7:9C-1.4

RL = reporting limit

SIM = selected ion method

SVOC = semivolatile organic compound

VOC = volatile organic compound



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3657 JACO05

Order Date : 8/16/2024 2:45:00 PM

Project Mgr :

Client Name : JACOBS Engineering Grou

Project Name : Former Schlumberger Site I

Report Type : Level 4

Client Contact : Mary I. Murphy

Receive DateTime : 8/16/2024 12:00:00 AM

EDD Type : CH2MHILL

Invoice Name : JACOBS Engineering Grou

Purchase Order :

Hard Copy Date :

12:45

Invoice Contact : Mary I. Murphy

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3657-01	717 -J-WS-O81624 917	Water	08/16/2024	09:30					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3657-02	TB-01-081624	Water	08/16/2024	10:55					
					VOCMS Group6		8260-Low	10 Bus. Days	

Relinquished By :

2M

Received By :

Sam

Date / Time :

08-16-24 1524

Date / Time :

8/16/24 15:27

Storage Area : VOA Refridgerator Room